Partial

Name
By
Address

FILE#: G 15567
JOEL NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD, OR 97032

Date filed
Priority
Action suspended until C08
Return to applicant
Date of approval

CONSTRUCTION

Date for beginning
Date for completion
Extended to
Date for application of water 10-1-08
Extended to

PROSECUTION OF WORK

Form "A" filed
Form "B" filed
Form "C" filed

FINAL PROOF

Blank mailed
Proof received C03u 5/19/2017
Date certificate issued

Application No. G15567
Permit No. G-15646
Certificate No. ~~81156~~ Wrong file No Cert as of 3/9/2016

Stream Index, Page No.

FEES PAID

Date	Amount	Receipt No.
7/25/01	$575.00	46998
1/5/05	150.00	72120
10/3/16	85.00	121502
5/11/17	85.00	123377
5-MAY-17	$175.00 Cert. Fee	123451
6-5-17	$85.00	123614

FEES REFUNDED

Date	Amount	Check No.
3/21/18	$175.00	VP046845

ASSIGNMENTS

Date	ASSIGNED To Whom		Address	Volume	Page
10/6/2016	Joel Neuschwander 6097 S Whiskey Hill Rd Hubbard, OR 97032	AND	Ray Gannon 5244 SE Castle Rock Ct. Milwaukie, OR 97267		
5/16/2017	Raymon J. Neuschwander 6097 Whiskey Hill Rd Hubbard, OR 97032	AND	RAY GANNON 2691 BROOK LAKE RD NE SALEM OR 97303		

REMARKS

SP*70900-119

FMR 3-6-04 G-15567

FILE#: G 15567
JOEL NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD, OR 97032

GENTRY TL 905

Neuschwander
aff
- 0.89 TL 1000 Parkett
- 37.20 TL 905 Gentry

Scott Ashcom Public Affairs

Scott Ashcom
Public Affairs/Government Relations

PO Box 4323
Portland, OR 97208
(503) 524 5174
(503)624-3783 (503)810-1938
ashcoms@msn.com

STATE OF OREGON
WATER RESOURCES DEPARTMENT
158 12TH ST. N.E.
SALEM, OR 97310-0210
378-8455 / 378-8130 (FAX)

RECEIPT # **46998**

INVOICE # _____

RECEIVED FROM: Neuschwander's

BY: _____

APPLICATION	G15567
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # ☒ 24-201 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D $575.00

RECEIVED OVER THE COUNTER

0417 WRD MISC CASH ACCT

	ADJUDICATIONS		$
	PUBLICATIONS / MAPS		$
_____	OTHER: (IDENTIFY)	_____	$
_____	OTHER: (IDENTIFY)	_____	$

REDUCTION OF EXPENSE

_____ CASH ACCT. $

_____ PCA AND OBJECT CLASS _____ VOUCHER #

0427 WRD OPERATING ACCT

66111

MISCELLANEOUS

0407	COPY & TAPE FEES		$
0410	RESEARCH FEES		$
0408	MISC REVENUE: (IDENTIFY)	_____	$
(New) TC162	DEPOSIT LIAB. (IDENTIFY)	_____	$

		EXAM FEE		RECORD FEE
	WATER RIGHTS:			
0201	SURFACE WATER	$	0202	$
0203	GROUND WATER	$575.00	0204	$
0205	TRANSFER	$	0206	$
	WELL CONSTRUCTION	**EXAM FEE**		**LICENSE FEE**
0218	WELL DRILL CONSTRUCTOR	$	0219	$
	LANDOWNER'S PERMIT		0220	$

_____ OTHER (IDENTIFY) _____

0437 WELL CONST. START FEE

0211	WELL CONST START FEE	$	CARD #	
0210	MONITORING WELLS	$	CARD #	

_____ OTHER (IDENTIFY) _____

0539 LOTTERY PROCEEDS

1302	LOTTERY PROCEEDS	$

0467 HYDRO ACTIVITY

		LIC NUMBER	
0233	POWER LICENSE FEE (FW/WRD)		$
0231	HYDRO LICENSE FEE (FW/WRD)		$
_____	HRDRO APPLICATION	_____	$

RECEIPT # **46998** DATED: 7/25/01 BY: C. Vance

Distribution-White Copy-Customer, Yellow Copy-Fiscal, Blue Copy-File, Buff Copy-Fiscal

RECEIPT # 123451

725 Summer St. N.E. Ste. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

INVOICE #

RECEIVED FROM: WILLAMETTE TREE WHOLESALE, INC.
BY:

APPLICATION	G15567
PERMIT	G15646
TRANSFER	

CASH: ☐ CHECK #: ☒ 35891 OTHER: (IDENTIFY) ☐

TOTAL REC'D $ 175.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES	$
	OTHER: (IDENTIFY)	$

0243 I/S Lease 0244 Muni Water Mgmt. Plan 0245 Cons. Water

4270 WRD OPERATING ACCT

MISCELLANEOUS

0407	COPY & TAPE FEES 46111	$
0410	RESEARCH FEES	$
0408	MISC REVENUE: (IDENTIFY)	$
TC162	DEPOSIT LIAB. (IDENTIFY)	$
0240	EXTENSION OF TIME	$

WATER RIGHTS:

		EXAM FEE		RECORD FEE
0201	SURFACE WATER	$	0202	$
0203	GROUND WATER	$	0204	$
0205	TRANSFER	$		

WELL CONSTRUCTION

		EXAM FEE		LICENSE FEE
0218	WELL DRILL CONSTRUCTOR	$	0219	$
	LANDOWNER'S PERMIT		0220	$
0200	OTHER (IDENTIFY) COBU			$175.00

0536 TREASURY 0437 WELL CONST. START FEE

0211	WELL CONST START FEE	$	CARD #
0210	MONITORING WELLS	$	CARD #
	OTHER (IDENTIFY)		

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

0233	POWER LICENSE FEE (FW/WRD)		$
0231	HYDRO LICENSE FEE (FW/WRD)		$
	HYDRO APPLICATION		$

____ TREASURY OTHER / RDX

FUND TITLE RECEIVED
OBJ. CODE VENDOR # OVER THE COUNTER
DESCRIPTION $

RECEIPT: 123451 DATED: 5.19.17 BY: MCook

Distribution – White Copy - Customer, Yellow Copy - Fiscal, Blue Copy - File, Buff Copy - Fiscal

PHONE CAL

FOR DATE 2-14 TIME 9:45 A P.

M Scott Ashford Ashcom

OF Lobbist - Nursery man

☐ FAX ☐ MOBILE

PHONE AREA CODE NUMBER EXTENSION

MESSAGE G-15567

FAX W/DRAWAL Form

503-639-4754

SIGNED [illegible]

PHON
RETUR YOUR
PLEASE
WILL AGA
CAM SEE
WANT SEE

SECOND NATURE™ RECYCLED TOPS FORM 74

Oregon
Kate Brown, Governor

Water Resources Department
725 Summer St NE, Suite A
Salem, OR 97301
(503) 986-0900
Fax (503) 986-0904

March 21, 2018

WILLAMETTE TREE WHOLESALE, INC.
ATTENTION: RAY GANNON
3491 BROOKLAKE ROAD NE
SALEM, OR 97303

RE: Refund for Reimbursement Authority Contract R12489-17; Application G-15567

Dear Applicant,

Thank you for using the Certificate Reimbursement Authority Program to expedite the processing of your Claim of Beneficial Use. The Department completed its processing of your claim for less than the estimated amount. Consequently, we are refunding the difference to you.

I hope you were pleased with the Certificate Reimbursement Authority Program and would consider using it again if the need arises. Please call me at (503) 986-0927 if you have any questions about this refund.

Sincerely,

K Kavanagh

Kerry Kavanagh
Water Rights Specialist
Certificates Section

STATE OF OREGON REMITTANCE ADVICE

TO SIGN UP FOR DIRECT DEPOSIT PAYMENT SERVICE AND RECEIVE CONVENIENT,ELECTRONIC PAYMENTS, LOG IN TO HTTP://WWW.OREGON.GOV/DAS/EGS/FBS/SFMS/PAGES/ACH.ASPX ON THE INTERNET. CLICK ON FORMS AND BROCHURES. THEN SELECT DIRECT DEPOSIT (ACH) AUTHORIZATION FORM.

WARRANT NO.
125018119

WATER RESOURCES DEPARTMENT (503) 986-0924

INVOICE NO.	INVOICE DATE	INVOICE DESCRIPTION	AGY	DOCUMENT	AMOUNT
	031518	REV REF RCPT#123921 G15567 R1248917	690	VP046845	$75.00

VENDOR NAME	ISSUE DATE	WARRANT AMOUNT
WILLAMETE TREE WHOLESALE INC	03/21/18	$75.00

FOLD ON PERFORATION LINE BELOW BEFORE DETACHING.

STATE OF OREGON
503-986-0924
WATER RESOURCES DEPARTMENT
725 SUMMER ST. NE, SUITE A
SALEM OR 97301-1271

TO THE STATE TREASURER SALEM, OREGON
PAYABLE THROUGH US BANK

96-10
1232

CHECK DATE
03/21/18

WARRANT NO.
125018119

PAY THIS AMOUNT
$75.00

SEVENTY FIVE AND 00/100 DOLLARS

PAY TO THE ORDER OF:

VOID 2 YEARS AFTER DATE ISSUED

WILLAMETE TREE WHOLESALE INC
ATTN: RAY GANNON
3491 BROOKLAKE RD NE
SALEM OR 97303

AUTHORIZED SIGNATURE

VOID VOID

WATER RESOURCES DEPARTMENT

REQUEST FOR DISTRIBUTION OF FUNDS

TO: **Fiscal Services Section** DATE: March 14, 2018

FROM: Kerry Kavanagh
Phone: (503) 986-0927

SUBJECT: **REIMBURSEMENT AUTHORITY - Request for Payment or Refund**

FILE #: G-15567 **RA #:** R12489-17 **RECEIPT #:** 123921

Please prepare payment in the amount of **$75.00**, made payable to: 47124 0408

Name: WILLAMETTE TREE WHOLESALE, INC.
ATTENTION: RAY GANNON

Address: 3491 BROOKLAKE ROAD NE
SALEM, OR 97303

These funds are being paid or refunded as a result of (check one):

_____ Excess fees were collected for Claim of Beneficial Use
__X__ Excess fees were collected for Reimbursement Authority
_____ Other:

I have reviewed this distribution request and have determined the request to be justified as to the purpose indicated above. Fiscal Services is hereby authorized to process the requested distribution.

Authorized Signature: _____ Date: 3-15-18

RA Mailing List for Certificate

Scheduled Mailing Date:

Copies Mailed
by: KJK
(STAFF)
on: 12-22-17
(DATE)

Application: G-15567

Permit: G-15646

Certificate: 93512

Water Right Holders:

RAYMON NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD OR 97032

RAY GANNON
2591 BROOKLAKE RD NE
SALEM OR 97303

Copies of Final Certificate to be sent to:

1. Watermaster District 16 (include copy of map)
2. Water Availability
3. Vault
4. File

Other persons to receive copies: (include map):

1. Greg Kupillas, CWRE

STATE OF OREGON

COUNTY OF CLACKAMAS

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

RAY NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD OR 97032

RAY GANNON
2591 BROOKLAKE RD NE
SALEM OR 97303

confirms the right to the use of water perfected under the terms of Permit G-15646. The amount of water used to which this right is entitled is limited to the amount used beneficially, and shall not exceed the amount specified, or its equivalent in the case of rotation, measured at the point of diversion from the source. The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15567

SOURCE OF WATER: TWO WELLS IN BEAR CREEK BASIN

PURPOSE OR USE: NURSERY USE ON 152.2 ACRES, BEING 54.8 ACRES FROM WELL 1 AND 97.4 ACRES FROM WELL 2

MAXIMUM RATE: 1.19 CUBIC FEET PER SECOND (CFS), BEING FURTHER LIMITED TO 0.70 CFS FROM WELL 1 AND 0.49 CFS FROM WELL 2, NOT TO EXCEED MAXIMUM CUMULATIVE TOTAL OF 1.19 CFS

PERIOD OF USE: YEAR-ROUND

DATE OF PRIORITY: JULY 25, 2001

The wells are located as follows:

Twp	Rng	Mer	Sec	Q-Q	GLot	Measured Distances
4 S	1 E	WM	32	SE NE	4	WELL 1 - 550 FEET NORTH AND 1250 FEET WEST FROM E1/4 CORNER, SECTION 32
4 S	1 E	WM	32	SE NW	2	WELL 2 - 50 FEET NORTH AND 50 FEET WEST FROM C1/4 CORNER, SECTION 32

The amount of water used for nursery use is limited to a maximum of 5.0 acre feet per acre and a diversion of 0.15 cubic foot per second per acre. For irrigation of containerized nursery plants, the amount of water diverted is limited to one fortieth of one cubic foot per second and 5.0 acre feet per acre per year. For irrigation of in-ground nursery plants the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre per year. The use of water for nursery use may be made any time, during the period of allowed use specified above, that the use is beneficial. For irrigation of any other crop, the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre during the irrigation season of each year.

NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW

This is an order in other than a contested case. This order is subject to judicial review under ORS 183.484 and ORS 536.075. Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.484(2). Pursuant to ORS 183.484, ORS 536.075 and OAR 137-004-0080, you may petition for judicial review and petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied. In addition, under ORS 537.260 any person with an application, permit or water right certificate subsequent in priority may jointly or severally contest the issuance of the certificate within three months after issuance of the certificate.

Descriptions of the place of use are as follows:

Ray Neuschwander – Well 1						
Twp	Rng	Mer	Sec	Q-Q	GLot	Acres
4 S	1 E	WM	32	SW NE	3	26.5
4 S	1 E	WM	32	SE NE	4	25.2
4 S	1 E	WM	32	NW SE		3.1

Ray Neuschwander – Well 2						
Twp	Rng	Mer	Sec	Q-Q	GLot	Acres
4 S	1 E	WM	32	SW NE	3	2.7
4 S	1 E	WM	32	SE NW	2	3.9
4 S	1 E	WM	32	NE SW		4.3
4 S	1 E	WM	32	NW SE		21.8
4 S	1 E	WM	32	SW SE		31.6

Ray Gannon – Well 2						
Twp	Rng	Mer	Sec	Q-Q	GLot	Acres
4 S	1 E	WM	32	SE NW	2	14.4
4 S	1 E	WM	32	NE SW		18.7

Measurement, recording and reporting conditions:

A. The water user shall maintain the meter or other suitable measuring device approved by the Director in good working order, shall keep a complete record of the amount of water used each month, and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the water user to report general water-use information, including the place and nature of use of water under the right.

B. The water user shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

The water user shall ensure that the well has been assigned an OWRD Well Identification Number (Well ID tag), which shall be permanently attached to the well. The Well ID shall be used as a reference in any correspondence regarding the well, including any reports of water use, water level, or pump test data.

Failure to comply with any of the provisions of this right may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the right.

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this right, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interference.

The well(s) shall be maintained in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine the water level elevation in the well at all times.

The Director may require water level or pump test results every ten years.

Failure to comply with any of the provisions of this right may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the right.

This right is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

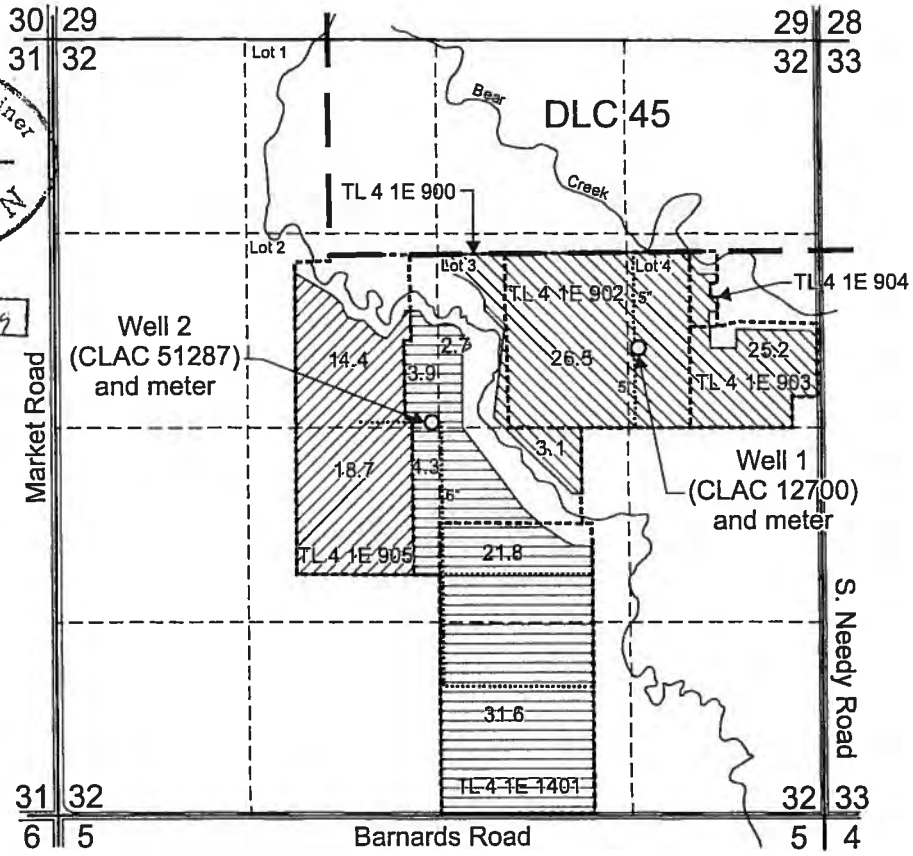
The use of water shall be limited when it interferes with any prior surface or ground water rights.

The right to the use of the water for the above purpose is restricted to beneficial use on the place of use described.

Issued DEC 22 2017.

Dwight French
Water Right Services Division Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

T.4S. R.1E. Section 32, W.M.



Well 1 (CLAC 12700) and meter are located 550 feet north and 1,250 feet west from the east 1/4 corner, Section 32.

Well 2 (CLAC 51287) and meter are located 50 feet north and 50 feet west from the center 1/4 corner, Section 32.

Area (54.8 acres) irrigated with Well 1 (CLAC 12700) under application G-15567, Permit G-15646 and assigned to Ray Neuschwander.

Area (64.3 acres) irrigated with Well 2 (CLAC 51287) under application G-15567, Permit G-15646 and assigned to Ray Neuschwander.

Area (33.1 acres) irrigated with Well 2 (CLAC 51287) under application G-15567, Permit G-15646 and assigned to Ray Gannon.

-------- Tax lot boundary

..... 5-inch and 6-inch mainline

—— DLC boundary

Scale: 1" = 1,320'

0 1,320 ft

This map was prepared for the purpose of identifying the location of a water right only and is not intended to provide legal dimensions or location of property ownership lines.

Pacific Hydro-Geology Inc.

Claim of Beneficial Use Map
Application G-15567, Permit G-15646

Ray Neuschwander and Ray Gannon
T4.S. R.1E. Section 32, W.M.

Rvsd 12/2017

Neuschwander_Gannon_COBU_Map_20171205_gek.cdr

Certified Water Rights Examiner
#432WRE
GREGORY E. KUPILLAS
MAY 14, 1996
STATE OF OREGON
EXPIRATION DATE: 6/30/2019
RECEIVED
OWRD

Oregon
Kate Brown, Governor

Water Resources Department
725 Summer St NE, Suite A
Salem, OR 97301
(503) 986-0900
Fax (503) 986-0904

DATE MAILED: DECEMBER 22, 2017

NOTICE OF CERTIFICATE ISSUANCE

The attached certificate confirms the water right established under the terms of a permit issued by this Department. The water right is now appurtenant to the specific place where the use was established as described by the certificate. The water right is limited to a specific amount of water, but not more than can be beneficially used for the purposes stated within the certificate.

The certificate is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484 and ORS 536.075. Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.484(2). Pursuant to ORS 183.484, ORS 536.075 and OAR 137-004-0080, you may petition for judicial review and petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied. In addition, under ORS 537.260 any person with an application, permit or water right certificate subsequent in priority may jointly or severally contest the issuance of the certificate within three months after issuance of the certificate.

Oregon law does not allow the Director to reissue a certificate because of a change in the ownership of the appurtenant place of use. The water must be controlled and not wasted. To change the location of the point of diversion, the character of use, or the location of use requires the advance approval of the Water Resources Director.

If any portion of this water right is not used for five or more consecutive years that portion of the right may be subject to forfeiture according to ORS 540.610. Land enrolled in a Federal Reserve Program is not subject to forfeiture during the period of enrollment. Other exceptions to forfeiture are explained in ORS 540.610.

If you have any questions please contact Kerry Kavanagh at 503-986-0927.

Oregon
Kate Brown, Governor

Water Resources Department
725 Summer St NE, Suite A
Salem, OR 97301
(503) 986-0900
Fax (503) 986-0904

DATE MAILED: DECEMBER 22, 2017

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If you have any questions please contact Kerry Kavanagh at 503-986-0927.

STATE OF OREGON

COUNTY OF CLACKAMAS

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

RAY NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD OR 97032

RAY GANNON
2591 BROOKLAKE RD NE
SALEM OR 97303

confirms the right to the use of water perfected under the terms of Permit G-15646. The amount of water used to which this right is entitled is limited to the amount used beneficially, and shall not exceed the amount specified, or its equivalent in the case of rotation, measured at the point of diversion from the source. The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15567

SOURCE OF WATER: TWO WELLS IN BEAR CREEK BASIN

PURPOSE OR USE: NURSERY USE ON 152.2 ACRES, BEING 54.8 ACRES FROM WELL 1 AND 97.4 ACRES FROM WELL 2

MAXIMUM RATE: 1.19 CUBIC FEET PER SECOND (CFS), BEING FURTHER LIMITED TO 0.70 CFS FROM WELL 1 AND 0.49 CFS FROM WELL 2, NOT TO EXCEED MAXIMUM CUMULATIVE TOTAL OF 1.19 CFS

PERIOD OF USE: YEAR-ROUND

DATE OF PRIORITY: JULY 25, 2001

The wells are located as follows:

Twp	Rng	Mer	Sec	Q-Q	GLot	Measured Distances
4 S	1 E	WM	32	SE NE	4	WELL 1 - 550 FEET NORTH AND 1250 FEET WEST FROM E1/4 CORNER, SECTION 32
4 S	1 E	WM	32	SE NW	2	WELL 2 - 50 FEET NORTH AND 50 FEET WEST FROM C1/4 CORNER, SECTION 32

The amount of water used for nursery use is limited to a maximum of 5.0 acre feet per acre and a diversion of 0.15 cubic foot per second per acre. For irrigation of containerized nursery plants, the amount of water diverted is limited to one fortieth of one cubic foot per second and 5.0 acre feet per acre per year. For irrigation of in-ground nursery plants the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre per year. The use of water for nursery use may be made any time, during the period of allowed use specified above, that the use is beneficial. For irrigation of any other crop, the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre during the irrigation season of each year.

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4 S	1 E	WM	32	SE NE	4	25.2
4 S	1 E	WM	32	NW SE		3.1

Ray Neuschwander – Well 2						
Twp	Rng	Mer	Sec	Q-Q	GLot	Acres
4 S	1 E	WM	32	SW NE	3	2.7
4 S	1 E	WM	32	SE NW	2	3.9
4 S	1 E	WM	32	NE SW		4.3
4 S	1 E	WM	32	NW SE		21.8
4 S	1 E	WM	32	SW SE		31.6

Ray Gannon – Well 2						
Twp	Rng	Mer	Sec	Q-Q	GLot	Acres
4 S	1 E	WM	32	SE NW	2	14.4
4 S	1 E	WM	32	NE SW		18.7

Measurement, recording and reporting conditions:

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B. The water user shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

The water user shall ensure that the well has been assigned an OWRD Well Identification Number (Well ID tag), which shall be permanently attached to the well. The Well ID shall be used as a reference in any correspondence regarding the well, including any reports of water use, water level, or pump test data.

Failure to comply with any of the provisions of this right may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the right.

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this right, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interference.

The well(s) shall be maintained in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine the water level elevation in the well at all times.

The Director may require water level or pump test results every ten years.

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By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The right to the use of the water for the above purpose is restricted to beneficial use on the place of use described.

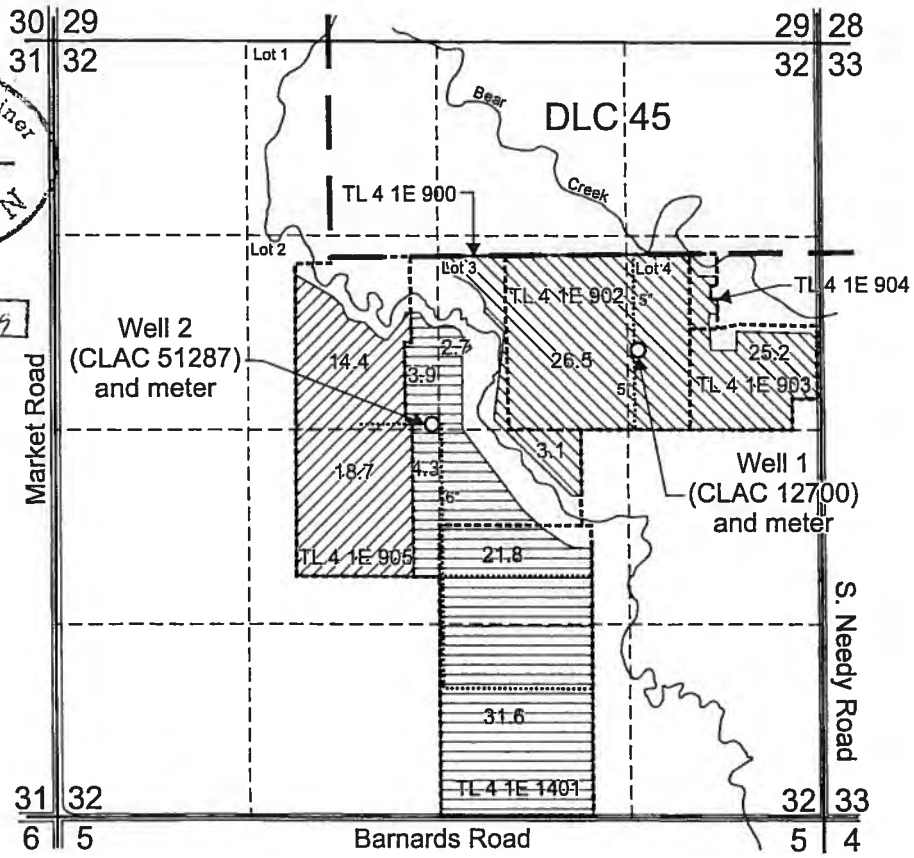
Issued DEC 22 2017.

Dwight French
Water Right Services Division Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

T.4S. R.1E. Section 32, W.M.

Certified Water Rights Examiner
#432WRE
GREGORY E. KUPILLAS
MAY 14, 1996
STATE OF OREGON
EXPIRATION DATE: 6/30/2019

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5-inch and 6-inch mainline

DLC boundary

N

Scale: 1" = 1,320'

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Pacific Hydro-Geology Inc.

Claim of Beneficial Use Map
Application G-15567, Permit G-15646

Ray Neuschwander and Ray Gannon
T4.S. R.1E. Section 32, W.M.

Rvsd 12/2017

Neuschwander_Gannon_COBU_Map_20171205_gek.cdr

extra

Oregon
Kate Brown, Governor

Water Resources Department
725 Summer St NE, Suite A
Salem, OR 97301
(503) 986-0900
Fax (503) 986-0904

DATE MAILED: DECEMBER 22, 2017

NOTICE OF CERTIFICATE ISSUANCE

The attached certificate confirms the water right established under the terms of a permit issued by this Department. The water right is now appurtenant to the specific place where the use was established as described by the certificate. The water right is limited to a specific amount of water, but not more than can be beneficially used for the purposes stated within the certificate.

The certificate is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484 and ORS 536.075. Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.484(2). Pursuant to ORS 183.484, ORS 536.075 and OAR 137-004-0080, you may petition for judicial review and petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied. In addition, under ORS 537.260 any person with an application, permit or water right certificate subsequent in priority may jointly or severally contest the issuance of the certificate within three months after issuance of the certificate.

Oregon law does not allow the Director to reissue a certificate because of a change in the ownership of the appurtenant place of use. The water must be controlled and not wasted. To change the location of the point of diversion, the character of use, or the location of use requires the advance approval of the Water Resources Director.

If any portion of this water right is not used for five or more consecutive years that portion of the right may be subject to forfeiture according to ORS 540.610. Land enrolled in a Federal Reserve Program is not subject to forfeiture during the period of enrollment. Other exceptions to forfeiture are explained in ORS 540.610.

If you have any questions please contact Kerry Kavanagh at 503-986-0927.

STATE OF OREGON

COUNTY OF CLACKAMAS

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

RAY NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD OR 97032

RAY GANNON
2591 BROOKLAKE RD NE
SALEM OR 97303

confirms the right to the use of water perfected under the terms of Permit G-15646. The amount of water used to which this right is entitled is limited to the amount used beneficially, and shall not exceed the amount specified, or its equivalent in the case of rotation, measured at the point of diversion from the source. The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15567

SOURCE OF WATER: TWO WELLS IN BEAR CREEK BASIN

PURPOSE OR USE: NURSERY USE ON 152.2 ACRES, BEING 54.8 ACRES FROM WELL 1 AND 97.4 ACRES FROM WELL 2

MAXIMUM RATE: 1.19 CUBIC FEET PER SECOND (CFS), BEING FURTHER LIMITED TO 0.70 CFS FROM WELL 1 AND 0.49 CFS FROM WELL 2, NOT TO EXCEED MAXIMUM CUMULATIVE TOTAL OF 1.19 CFS

PERIOD OF USE: YEAR-ROUND

DATE OF PRIORITY: JULY 25, 2001

The wells are located as follows:

Twp	Rng	Mer	Sec	Q-Q	GLot	Measured Distances
4 S	1 E	WM	32	SE NE	4	WELL 1 - 550 FEET NORTH AND 1250 FEET WEST FROM E1/4 CORNER, SECTION 32
4 S	1 E	WM	32	SE NW	2	WELL 2 - 50 FEET NORTH AND 50 FEET WEST FROM C1/4 CORNER, SECTION 32

The amount of water used for nursery use is limited to a maximum of 5.0 acre feet per acre and a diversion of 0.15 cubic foot per second per acre. For irrigation of containerized nursery plants, the amount of water diverted is limited to one fortieth of one cubic foot per second and 5.0 acre feet per acre per year. For irrigation of in-ground nursery plants the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre per year. The use of water for nursery use may be made any time, during the period of allowed use specified above, that the use is beneficial. For irrigation of any other crop, the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre during the irrigation season of each year.

NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW

This is an order in other than a contested case. This order is subject to judicial review under ORS 183.484 and ORS 536.075. Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.484(2). Pursuant to ORS 183.484, ORS 536.075 and OAR 137-004-0080, you may petition for judicial review and petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied. In addition, under ORS 537.260 any person with an application, permit or water right certificate subsequent in priority may jointly or severally contest the issuance of the certificate within three months after issuance of the certificate.

Descriptions of the place of use are as follows:

Ray Neuschwander – Well 1						
Twp	Rng	Mer	Sec	Q-Q	GLot	Acres
4 S	1 E	WM	32	SW NE	3	26.5
4 S	1 E	WM	32	SE NE	4	25.2
4 S	1 E	WM	32	NW SE		3.1

Ray Neuschwander – Well 2						
Twp	Rng	Mer	Sec	Q-Q	GLot	Acres
4 S	1 E	WM	32	SW NE	3	2.7
4 S	1 E	WM	32	SE NW	2	3.9
4 S	1 E	WM	32	NE SW		4.3
4 S	1 E	WM	32	NW SE		21.8
4 S	1 E	WM	32	SW SE		31.6

Ray Gannon – Well 2						
Twp	Rng	Mer	Sec	Q-Q	GLot	Acres
4 S	1 E	WM	32	SE NW	2	14.4
4 S	1 E	WM	32	NE SW		18.7

Measurement, recording and reporting conditions:

A. The water user shall maintain the meter or other suitable measuring device approved by the Director in good working order, shall keep a complete record of the amount of water used each month, and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the water user to report general water-use information, including the place and nature of use of water under the right.

B. The water user shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

The water user shall ensure that the well has been assigned an OWRD Well Identification Number (Well ID tag), which shall be permanently attached to the well. The Well ID shall be used as a reference in any correspondence regarding the well, including any reports of water use, water level, or pump test data.

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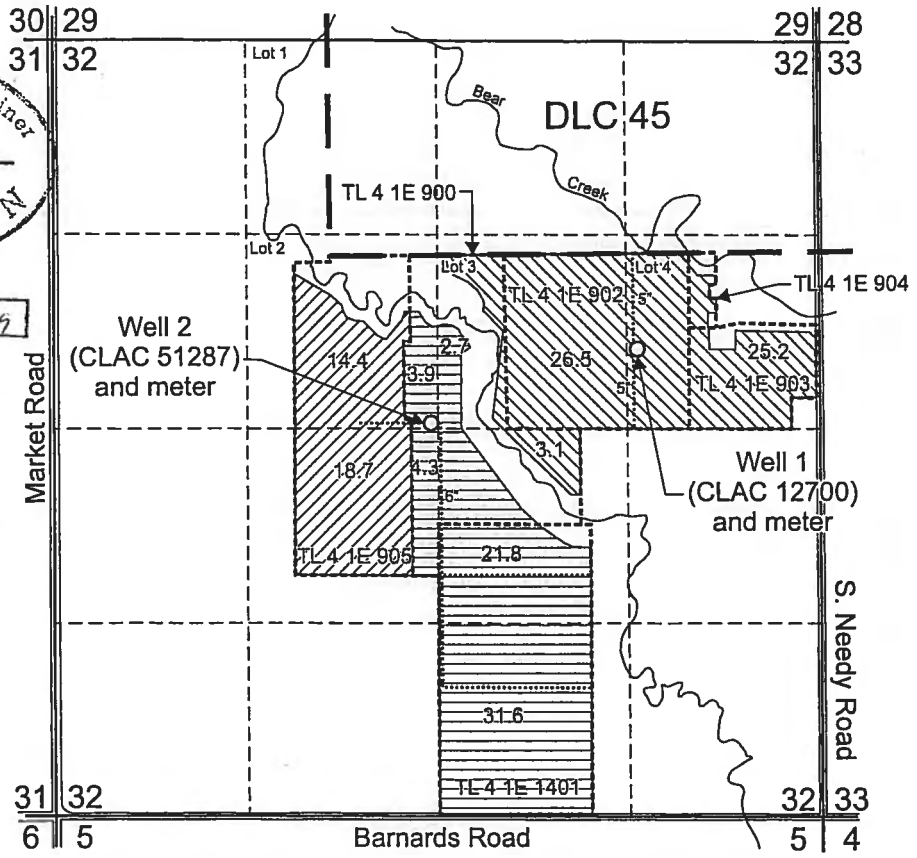
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Issued DEC 22 2017.

Dwight French
Water Right Services Division Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

T.4S. R.1E. Section 32, W.M.



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..... 5-inch and 6-inch mainline

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Pacific Hydro-Geology Inc.

Claim of Beneficial Use Map
Application G-15567, Permit G-15646

Ray Neuschwander and Ray Gannon
T4.S. R.1E. Section 32, W.M.

Rvsd 12/2017

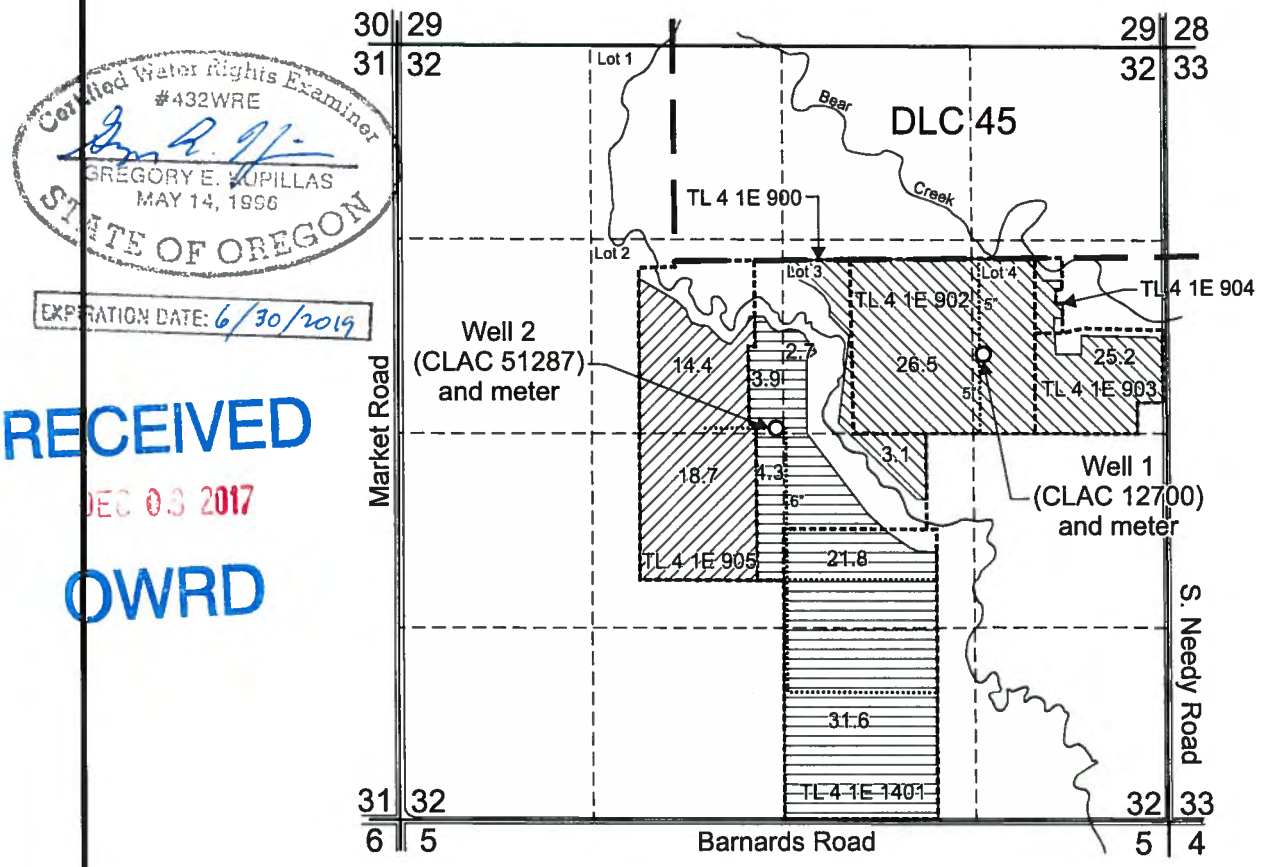
Neuschwander_Gannon_COBU_Map_20171205_gek.cdr

Certified Water Rights Examiner
#432WRE
GREGORY E. KUPILLAS
MAY 14, 1996
STATE OF OREGON

EXPIRATION DATE: 6/30/2019

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Rvsd 12/2017

Neuschwander_Gannon_COBU_Map_20171205_gek.cdr

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OWRD

Oregon
Kate Brown, Governor

Water Resources Department
725 Summer St NE, Suite A
Salem, OR 97301
(503) 986-0900
Fax (503) 986-0904

November 01, 2017

RAY GANNON
5244 SE CASTLE ROCK COURT
MILWAUKIE OR 97267

GW

The Department has accepted the pump test results for the following permitted well(s):

Application	Water Right	Permitted Well	Tested Well	Test Date	Test Status	Exemption	Well Name
G 15567	Permit G 15646 *	CLAC 12700	CLAC 12700	02/17/2016	Approved	Multiple Well	
G 15567	Permit G 15646 *	CLAC 51287	CLAC 12700	02/17/2016	Approved	Multiple Well	

Please contact me if you have any questions.

Sincerely,

Dennis Orlowski
503-986-0897
Groundwater Section

cc: GW Pump Test File

STATE OF OREGON
WATER RESOURCES DEPARTMENT
INTEROFFICE MEMO

Date: October 16, 2017

TO: Justin Iverson

FROM: Kerry Kavanagh

SUBJECT: 2/17/2016 Pump Test for CLAC 12700 – App G-15567, Permit G-15646

RA Project R12489-17 – App G-15567, Permit G-15646 – Neuschwander & Gannon

I have entered the 2/17/2016 pump test data for Well 1 (CLAC 12700) in FileMaker gw database – GWPID 3810.

Please see plots at: S\exchange\Kerry\Pump Tests\to review\ CLAC_12700

TO DO:

- ✓ **Please review the pump test data and plots and prepare a letter of approval/denial for the 2/17/2016 pump test for Well 1 (CLAC 12700).**
- ✓ **If the pump test results are acceptable, please consider a multiple well exemption for the other well Claimed and as authorized by Permit G-15567, being Well 2 (CLAC 51287).**
- ✓ **Please also update the "pump test compliance" information for Application G-15567 in FileMaker for both wells, if applicable.**

If this file could be reviewed and returned to me by **November 1, 2017**, I'd greatly appreciate it!

Please let me know if the **2/17/2016** pump test is satisfactory.

Please ask your staff to document the amount of time they spent reviewing the pump test results.
If you have any questions, please let me know. Thanks!

Oregon Water Resources Department
PUMP TEST FORM COVER SHEET

GWPTID #3810

Well Owner:
Name: Neuschwanders Nursery
Address: 6097 S Whiskey Hill Rd
County: Clackamas
City: Hubbard OR State: ___ Zip: 97032
Original owner (from well log): ___

Well Location:
Township: ___ ☐ (N/S) Range: ___ ☐ (E/W)
Section: ___ ¼: ___ 1/16: ___ 1/64: ___
Well depth: ___ Date drilled: ___
Owners well no. (if any): WELL 1
POD ID: CLAC 12700 ?

[Cogen-mult well exempt req'st for Well 2]

Water Right Information:
Application: G-15567 Permit: G-15646 Certificate: ___
Is this well listed on more than one water right? ☐ Yes If yes, list additional water rights below:
Application: ___ Permit: ___ Certificate: ___
Application: ___ Permit: ___ Certificate: ___

Pump Test:
Test Conducted by: Rich Gerig Well Owner? ☐ Yes
Company: Fisher's Supply Inc
Address: 659 SW 1st Ave Date of Test: 02-17-16
City: Canby State: OR Zip: 97013
Daytime phone: 503-263-8557

Method of discharge measurement (see our brochure for acceptable methods): Flow meter McCrometer
Method of water-level measurement (pick one or enter other method used): E-tape
Length of air line (if used): ___

Pump type (pick one or enter other method used): submersible
Was the pump test conducted during normal use of the well? ☐ Yes Note: No

Are you aware of any wells, other than domestic or stock wells, pumping within 1000 feet of the tested well during the test or within 24 hours prior to the test? ☐ Yes Note: No
If yes, give approximate distances to each and approximate pumping rate of each. If possible, indicate if they were turned on or off during the test: ___

Is there a lake, stream or other surface water body within ¼ mile of the tested well? ☐ Yes If yes, give approximate distance from the well and approximate elevation difference between the surface water and the well head. Approx. distance: ___ ft Approx. elevation difference: ___ ft

Well elevation is below surface water body.

Description of measuring point (e.g. top port of 1 inch port pipe, west side) vent hole well seal

Measuring point distance below land surface 1 feet.

Static water level measurements: (A minimum of three measurements are required in the hour before pumping begins at no less than 20 minutes apart):

Time	Depth to water below meas. point	Depth to water below land surface
9:00	24' 6"	23' 6"
9:30	24' 6"	23' 6"
10:00	24' 6"	23' 6"

Discharge measurements: (A discharge measurement is required at the start of pumping and at least once an hour during the test; additional measurements should be noted on the Pump Test Data Sheet):

Time	Discharge Rate	Discharge Units (e.g. gpm, cfs, etc)
10:00	400	gpm
11:00	400	gpm
12:00	400	gpm
1:00	400	gpm
2:00	400	gpm

Time pump turned on: Date 2-17-16 Time 10:00 am
Time pump turned off: Date 2-17-16 Time 2:00 pm
Total pumping time: 4 hours ___ minutes

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Note: Well must be idle for at least 16 hours prior to the test.
Additional forms can be obtained from our web site at: http://www.wrd.state.or.us OWRD 2/9/2009

Required Signature: [signature]

04/07/2016 11:50 5032638369 FISHERS SUPPLY INC PAGE 02/03

Oregon Water Resources Department

PUMP TEST DATA SHEET

Application: G-15567 Permit: G-15646 Certificate: _____ Pod_Id: _____

All water-level measurements must either be in feet and inches, or feet and decimal fractions.

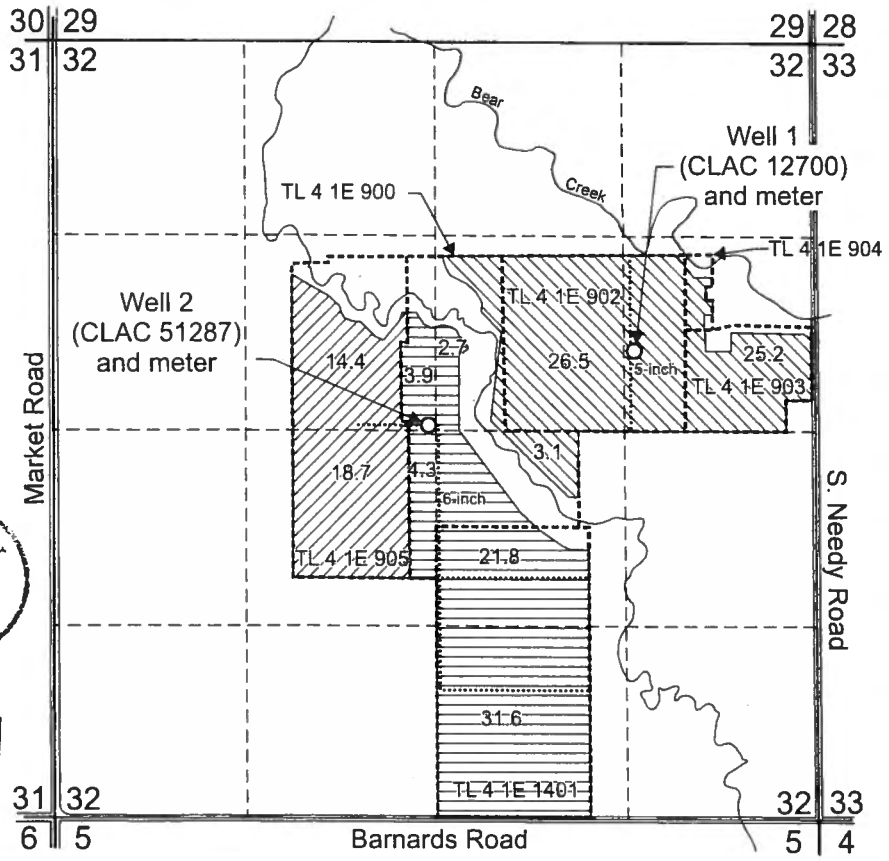
Drawdown Data						Recovery Data					
Date	Time	Time Since Pump Started (minutes)	Depth to Water Below Measuring Pt	Depth to Water Below Land Surface	Comments	Date	Time	Time Since Pump Stopped (minutes)	Depth to Water Below Measuring Pt	Depth to Water Below Land Surface	Comments
2-17-16	9:00		24' 6"	23' 6"		2-17-16					
	10:00		43'	42'	400 GPM		2:02		35' 6"	34' 6"	
	10:02		43'	42'			2:04		33' 11"	32' 11"	
	10:04		43'	42'			2:06		32' 11"	31' 11"	
	10:06		43' 3"	42' 3"			2:08		32'	31'	
	10:08		43' 6"	42' 6"			2:10		31' 6"	30' 6"	
	10:10		43' 10"	42' 10"			2:15		30' 3"	29' 3"	
	10:15		44' 1"	43' 1"			2:20		29' 8"	28' 8"	
	10:20		44' 6"	43' 6"			2:25		29' 1"	28' 1"	
	10:25		45'	44'	400 gpm		2:30		28' 8"	27' 8"	
	10:30		45' 11"	44' 11"			2:45		27' 7"	26' 7"	
	10:45		47'	46'			3:00		26' 8"	25' 8"	
	11:00		46'	47'			3:15		26' 1"	25' 1"	
	11:15		47'	46'							
	11:30		48'	47'	400 gpm						
	11:45		48'	47'							
	12:00		48'	47'							
	12:15		48'	47'							
	12:30		48'	47'							
	12:45		48'	47'							
	1:00		48'	47'	400 gpm						
	1:15		48'	47'							
	1:30		48'	47'							
	1:45		48'	47'							
	2:00		48'	47'	400 gpm						

Additional forms can be obtained from our web site at: http://www.wrd.state.or.us OWRD 2/9/2000

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MAY 19 2017
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04/07/2016 1:50 5032638369 FISHERS SUPPLY INC PAGE 03/03

T.4S. R.1E. Section 32, W.M.



MAY 19 201
Certified Water Rights Examiner
#432WRE
GREGORY E. KUPILLAS
MAY 14, 1935
STATE OF OREGON
EXPIRATION DATE: 6/30/2017

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..... 5-inch and 6-inch Mainline

N

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0 1,320 Feet

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Neuschwander_Gannon.cdr

Pacific Hydro-Geology Inc.

bgp - 2016

Claim of Beneficial Use Map
Application G-15567, Permit G-15646

Ray Neuschwander and Ray Gannon
T4.S. R.1E. Section 32, W.M.

WELL 1

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

RECEIVED
JUN 27 1988
WATER RESOURCES DEPT.
SALEM, OREGON

CLK 012700

START CARD 530

4S/1E-32

Well Number

(1) OWNER:
Name JOEL NEUSCHWANDER
Address 6059 S WHISKEY HILL RD
City HUBBARD State OR Zip

(2) TYPE OF WORK:
☑ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☐ Rotary Air ☐ Rotary Mud ☑ Cable
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☑ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☑ Depth of Completed Well 154 ft.
Explosives used Yes ☐ No ☐ Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks ~~or pounds~~
12	1	20	GRANULAR BENTONITE	1	20	11
8	20	154				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☑ Other GRANULAR BENTONITE METHOD
Backfill placed from ____ ft. to ____ ft. Material ____
Gravel placed from 75 ft. to 90 ft. Size of gravel PEA

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	154	.250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Location of shoe(s) 154

(7) PERFORATIONS/SCREENS:
☑ Perforations Method DRIVE DOWN
☐ Screens Type ____ Material ____

Diam	From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
8	88	150	3/16 X 1 1/4	400			☑	☐
							☐	☐
							☐	☐
							☐	☐
							☐	☐
							☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
500	46	Pump	1 hr.
300	21	AIR LIFT	3

Temperature of water ____ Depth Artesian Flow Found ____
Was a water analysis done? ☐ Yes By whom ____
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____
Depth of strata: ____

(9) LOCATION OF WELL by legal description:
County CLACKAMAS Latitude ____ Longitude ____
Township 4S N or S, Range 1E E or W, WM.
Section 32 ____ ¼ SE ¼
Tax Lot ____ Lot ____ Block ____ Subdivision ____
Street Address of Well (or nearest address) S. NEEDY RD, CANBY

(10) STATIC WATER LEVEL:
29 ft. below land surface. Date 5/25/88
Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:
Depth at which water was first found 31

From	To	Estimated Flow Rate	SWL
82	102	800 GPM ≅	30
115	132	500 GPM ≅	30

(12) WELL LOG:
Ground elevation ____

Material	From	To	SWL
SOIL	1	3	
CLAY BROWN	3	31	
SAND BROWN	31	31	
CLAY GREY	31	42	
CEMENTED GRAVEL	42	63	
CLAY DK GREY	63	70	
SILT BLACK	70	82	
SAND BLACK FINE	82	92	
CEMENTED GRAVEL	92	105	
CLAY BLUE STICKY	105	115	
CLAY GREY W/ GREY SAND LAYERS	115	132	
CLAY GREEN	132	144	
SILT DARK BROWN.	144	147	
CLAY BLUE GREEN	147	154	
INITIALLY PERFORATED 115 TO 150' AND PRODUCED 150 GPM, total. THEN GRAVEL PACKED 75-102 & 115-132, perforated 88' TO 145'. THEN PRODUCED 300 GPM WITH 21' DRAWDOWN.			

Date started 5/13/88 Completed 5/25/88

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

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WWC Number ____
Signed ____ Date ____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 243
Signed Richard Beck Date 5/25/88

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9809C 10/86

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WATER RESOURCES DEPT.
SALEM, OREGON

CLAC 51287

TAG # L02078

62424

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

(START CARD) #

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number

Name Neuschwander's Nursery

Address 6097 S. Whiskey Hill Rd

City Hubbard State Or Zip 97032

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[ ] Rotary Air [ ] Rotary Mud [X] Cable [ ] Auger

[ ] Other

(4) PROPOSED USE:

[ ] Domestic [ ] Community [ ] Industrial [X] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [ ] No Depth of Completed Well 140 ft.

Explosives used [ ] Yes [ ] No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12	1	50	Bentonite	1	50	35 sacks
8	50	140				

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E

[X] Other Granular Bentonite method

Backfill placed from ft. to ft. Material

Gravel placed from 60 ft. to 120 ft. Size of gravel pea

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	140	.25	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s) 140

(7) PERFORATIONS/SCREENS: Drive Down

[X] Perforations Method

[ ] Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
76	119	.188	600			[X]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

(8) WELL TESTS: Minimum testing time is 1 hour

[ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
		air line @	1 hr.
220		105	4 hr

Temperature of water 53 Depth Artesian Flow Found

Was a water analysis done? [ ] Yes By whom

Did any strata contain water not suitable for intended use? [ ] Too little

[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude Longitude

Township 4s N or S Range 1e E or W. WM.

Section 32 Se 1/4 Nw 1/4

Tax Lot 900 Lot Block Subdivision

Street Address of Well (or nearest address)

29435 S Needy Rd

(10) STATIC WATER LEVEL:

47 ft. below land surface. Date Sep 10, 1996

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 40

From	To	Estimated Flow Rate	SWL
40	140		47

(12) WELL LOG:

Ground Elevation

Material	From	To	SWL
Soil	1	3	
Clay, Brown	3	38	
Cemented gravel, brown	38	54	
Clay, grey	54	58	
Clay, grey, sandy	58	60	
Sand, black, fine	60	69	
Sand and gravel, black	69	71	
Cemented gravel, sand	71	74	
Sand & gravel	74	95	
Clay, blue	95	98	
clay, grey, silty	98	101	
Silt, dark grey	101	108	
Clay w/black coarse sand	108	116	
Clay, grey w/some cemented gravel	116	136	
Clay, blue	136	140	
Note: 6 inch gravel feed each side of			
8 inch well			

Date started August 8, 1996 Completed Dec 10, 1996

(unbonded) Water Well Constructor Certification:

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I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number

Signed Date

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 243

Signed Richard Beck Date 1/4/97

ORIGINAL & FIRST COPY WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

WELL 2

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

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JUN 27 1988
WATER RESOURCES DEPT.
SALEM, OREGON

CLK 012700

START CARD 530

4S/1E-32

Well Number

(1) OWNER:
Name JOEL NEUSCHWANDER
Address 30059 S WHISKEY HILL RD
City HUBBARD State OR Zip

(2) TYPE OF WORK:
☑ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☐ Rotary Air ☐ Rotary Mud ☑ Cable
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☑ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☑ Depth of Completed Well 154 ft.
Explosives used Yes ☐ No ☐ Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks ~~or pounds~~
12	1	20	GRANULAR BENTONITE	1	20	11
8	20	154				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☑ Other GRANULAR BENTONITE METHOD
Backfill placed from ____ ft. to ____ ft. Material ____
Gravel placed from 25 ft. to 90 ft. Size of gravel PEA

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	154	.250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Location of shoe(s) 154

(7) PERFORATIONS/SCREENS:
☑ Perforations Method DRIVE DOWN
☐ Screens Type ____ Material ____

Perforations From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
88	150	3/16 X 1 1/4	400			☑	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
500	46	Pump	1 hr.
300	21	AIR LIFT	3

Temperature of water ____ Depth Artesian Flow Found ____
Was a water analysis done? ☐ Yes By whom ____
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____
Depth of strata: ____

(9) LOCATION OF WELL by legal description:
County CLACKAMAS Latitude ____ Longitude ____
Township 4S N or S, Range 1E E or W, WM.
Section 32 ____ ¼ SE ¼
Tax Lot ____ Lot ____ Block ____ Subdivision ____
Street Address of Well (or nearest address) S. NEEDY RD, CANBY

(10) STATIC WATER LEVEL:
29 ft. below land surface. Date 5/25/88
Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:
Depth at which water was first found 31

From	To	Estimated Flow Rate	SWL
82	102	800 GPM ≅	30
115	132	500 GPM ≅	30

(12) WELL LOG:
Ground elevation ____

Material	From	To	SWL
SOIL	1	3	
CLAY BROWN	3	31	
SAND BROWN	31	31	
CLAY GREY	31	42	
CEMENTED GRAVEL	42	63	
CLAY DK GREY	63	70	
SILT BLACK	70	82	
SAND BLACK FINE	82	92	
CEMENTED GRAVEL	92	105	
CLAY BLUE STICKY	105	115	
CLAY GREY W/ GREY SAND LAYERS	115	132	
CLAY GREEN	132	144	
SILT DARK BROWN.	144	147	
CLAY BLUE GREEN	147	154	
INITIALLY PERFORATED 115 TO 150 AND PRODUCED 150 GPM, total. Then GRAVEL PACKED 25-102 & 115-132, perforated 88' to 145'. Then PRODUCED 300 GPM WITH 21' DRAWDOWN.			

Date started 5/13/88 Completed 5/25/88

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

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WWC Number ____
Signed ____ Date ____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 243
Signed Richard Beck Date 5/25/88

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9809C 10/86

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WATER RESOURCES DEPT.
SALEM, OREGON

CLAC 51287

TAG # L02078

62424

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

(START CARD) #

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number

Name Neuschwander's Nursery

Address 6097 S. Whiskey Hill Rd

City Hubbard State Or Zip 97032

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[ ] Rotary Air [ ] Rotary Mud [X] Cable [ ] Auger

[ ] Other

(4) PROPOSED USE:

[ ] Domestic [ ] Community [ ] Industrial [X] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [ ] No Depth of Completed Well 140 ft.

Explosives used [ ] Yes [ ] No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12	1	50	Bentonite	1	50	35 sacks
8	50	140				

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E

[X] Other Granular Bentonite method

Backfill placed from ft. to ft. Material

Gravel placed from 60 ft. to 120 ft. Size of gravel nea

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	140	.25	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s) 140

(7) PERFORATIONS/SCREENS: Drive Down

[X] Perforations Method

[ ] Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
75	119	.188	600			[X]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

(8) WELL TESTS: Minimum testing time is 1 hour

[ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
		air line @	1 hr.
220		105	4 hr

Temperature of water 53 Depth Artesian Flow Found

Was a water analysis done? [ ] Yes By whom

Did any strata contain water not suitable for intended use? [ ] Too little

[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude Longitude

Township 4s N or S Range 1e E or W. WM.

Section 32 Se 1/4 Nw 1/4

Tax Lot 900 Lot Block Subdivision

Street Address of Well (or nearest address)

29435 S Needy Rd

(10) STATIC WATER LEVEL:

47 ft. below land surface. Date Sep 10, 1996

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 40

From	To	Estimated Flow Rate	SWL
40	140		47

(12) WELL LOG:

Ground Elevation

Material	From	To	SWL
Soil	1	3	
Clay, Brown	3	38	
Cemented gravel, brown	38	54	
Clay, grey	54	58	
Clay, grey, sandy	58	60	
Sand, black, fine	60	69	
Sand and gravel, black	69	71	
Cemented gravel, sand	71	74	
Sand & gravel	74	95	
Clay, blue	95	98	
clay, grey, silty	98	101	
Silt, dark grey	101	108	
Clay w/black coarse sand	108	116	
Clay, grey w/some cemented gravel	116	136	
Clay, blue	136	140	
Note: 6 inch gravel feed each side of			
8 inch well			

Date started August 8, 1996 Completed Dec 10, 1996

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

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WWC Number

Signed Date

(bonded) Water Well Constructor Certification:

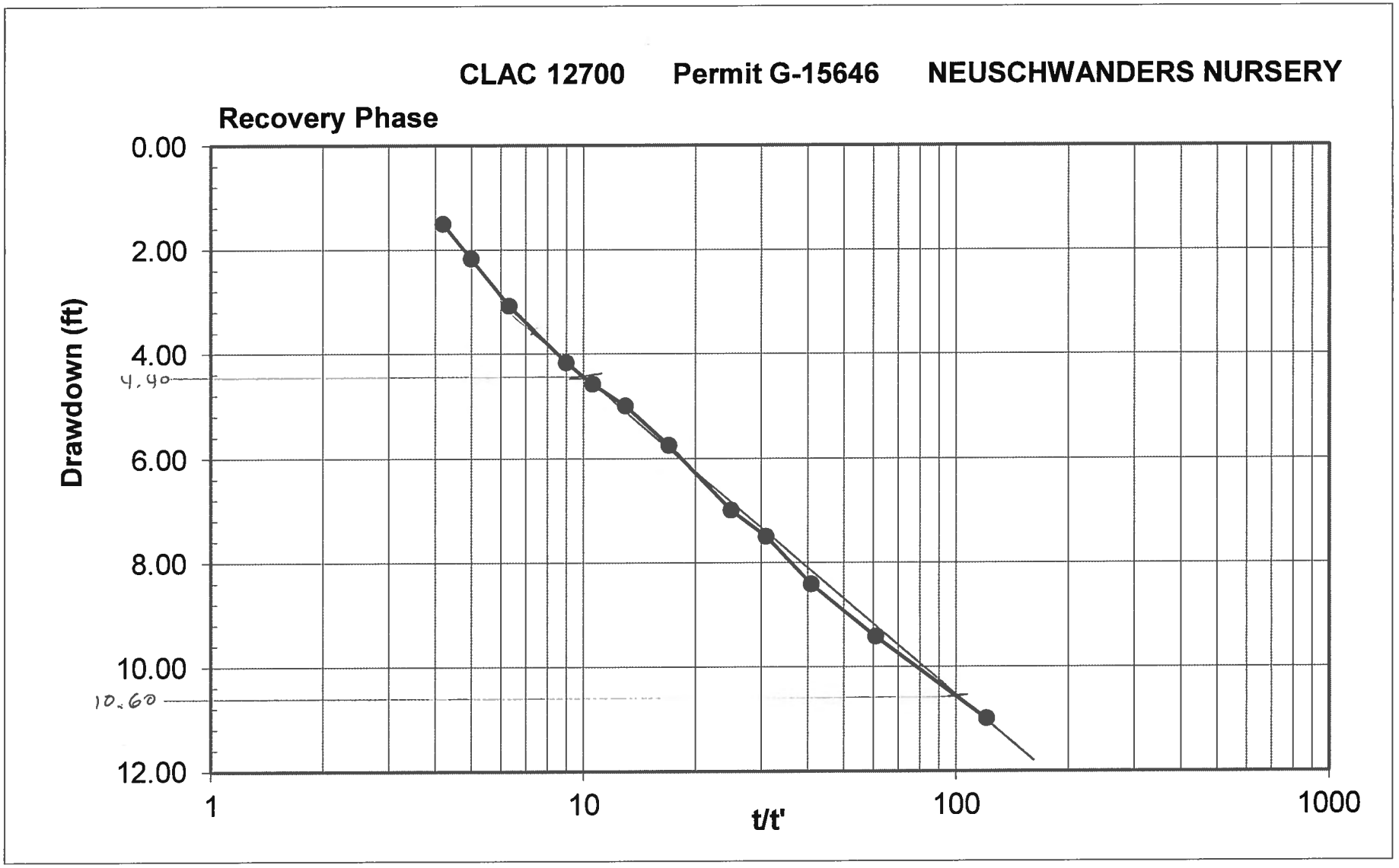
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 243

Signed Richard Berk Date 1/4/97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

$\Delta s = 6.2$ ft $T = 17{,}032$ GPD/FT $= 2277$ FT^2/DAY



Checklist for Claims of Beneficial Use Received At Customer Service Counter

Date Received 5.19.17 CWRE G. Kupillas

By EB

File Marked ✓

Application # G-15567 **$175.00 Fee** ✓

Claim Logged ✓

Transfer # _____ **$175.00 Fee if priority date is after July 9, 1987.**

Map Review:

✓ Map on polyester film (OAR 690-014-0170(1) & 310-0050(1)(b)
✓ Application & permit #; or transfer # (OAR 690-014-0100(1)
✓ Disclaimer (OAR 690-014-0170(5)
✓ North arrow (OAR 690-310-0050(2)(c)
✓ CWRE stamp and signature (OAR 690-014 & 310-0050)
✓ Appropriate scale (1" = 1320', 1" = 400', or the original full-size scale of the county assessor map) (014 & 310)
✓ Township, range, section, and tax lot numbers (OAR 690-310-0050(4)

Report Review:

✓ On form or format provided by the Department (OAR 690-014-0100(1)
✓ Application & permit #; or transfer # (OAR 690-014)
✓ Ownership information (OAR 690-014)
✓ Date of survey (OAR 690-014)
✓ Person interviewed (OAR 690-014)
✓ County (OAR 690-014)
✓ CWRE stamp and signature (OAR 690-014-0100)
✓ Signature(s) of permittee or transfer holder (OAR 690-014-0100)

CLAIM OF BENEFICIAL USE
for Permits claiming more than 0.1 cfs and All Transfers

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

A fee of $175 must accompany this form for permits with priority dates after July 8, 1987.

A fee of $175 must accompany this form for any Transfer final orders including a water right with a priority date of July 9, 1987, or later.
Example – A transfer involves 5 rights and one of the rights has a priority date of July 9, 1987, or later, the fee is required.

A separate form shall be completed for each permit.

In cases where a permit has been amended through the permit amendment process, a separate claim for the permit amendment is not required. Incorporate the permit amendment into the claim for the permit.

This form is subject to revision. **Begin each new claim** by checking for a new version of this form at: http://www.oregon.gov/owrd/pages/wr/cwre_info.aspx

The completion of this form is required by OAR 690-014-0100(1) and 690-014-0110(4).

Please type or print in dark ink. If this form is found to contain errors or omissions, it may be returned to you. **Every item must have a response.** If any requested information does not apply to the claim, insert "NA." **Do not delete or alter any section of this form unless directed by the form.** The Department may require the submittal of additional information from any water user or authorized agent.

"Section 8" of this form is intended to aid in the completion of this form and should not be submitted.

If you have questions regarding the completion of this form, please call 503-986-0900 and ask for the Certificate Section.

The Department has a program that allows it to enter into a voluntary agreement with an applicant for expedited services. Under such an agreement, the applicant pays the cost to hire additional staff that would not otherwise be available. This program means a certificate may be issued in about a month. For more information on this program see http://www.oregon.gov/owrd/pages/mgmt_reimbursement_authority.aspx

SECTION 1
GENERAL INFORMATION

1. File Information

APPLICATION # (G, R, S OR T)	PERMIT # (IF APPLICABLE)	PERMIT AMENDMENT # (IF APPLICABLE)
G-15567	**G-15646**	**NA**

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2. Property Owner (current owner information) – Assignment to Ray?

Applicant/Business Name		Phone No.	Additional Contact No.
Ray Neuschwander		**503-320-7502**	
Address			
6097 S Whiskey Hill Road			
City	State	Zip	E-Mail
Hubbard	**Or**	**97032**	**joel.nnllc@gmail.com**

Applicant/Business Name		Phone No.	Additional Contact No.
Ray Gannon		**503-390-2512**	**503-781-6304**
Address			
2591 Brook Lake Road NE			
City	State	Zip	E-Mail
Salem	**OR**	**97303**	**ray@willamettetree.com**

If the current property owner is not the permit or transfer holder of record, it is recommended that an assignment be filed with the Department. ***Each*** *permit or transfer holder of record must sign this form.*

3. Permit or transfer holder of record (this may, or may not, be the current property owner)

Applicant/Business Name		Phone No.	Additional Contact No.
Ray Neuschwander		**503-320-7502**	
Address			
6097 S Whiskey Hill Road			
City	State	Zip	E-Mail
Hubbard	**Or**	**97032**	**joel.nnllc@gmail.com**

Applicant/Business Name		Phone No.	Additional Contact No.
Ray Gannon		**503-390-2512**	**503-781-6304**
Address			
2591 Brook Lake Road NE			
City	State	Zip	E-Mail
Salem	**OR**	**97303**	**ray@willamettetree.com**

4. Date of Site Inspection:

5. Person(s) interviewed and description of their association with the project:

Name	Date	Association with the Project
Joel Neuschwander	**7/21/2016**	**Landowner**
Ray Gannon	**7/21/2016**	**Landowner**

6. County: **Clackamas**

7. If any property described in the place of use of the permit or transfer final order is excluded from this report, identify the owner of record for that property (ORS 537.230(4)): **Lot 1000, Tax Map 04 1E, owned by Clint and Amy Perkett, 29489 S Needy Road, Canby, Oregon 97013, appears to have been included in the application map. However as confirmed by ownership at the time of application and the submitted and reviewed Land Use Information Form, this property was never intended to be included in the original application and was erroneously included in the application map. Please see Appendix A attached to this COBU.**

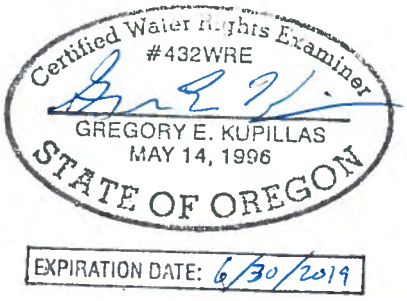
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MAY 19 2017
OWRD

SECTION 2
SIGNATURES

CWRE Statement, Seal and Signature

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge.

Seal and Signature



CWRE NAME		PHONE NO.	ADDITIONAL CONTACT NO.
Greg Kupillas/Pacific Hydro-Geology Inc		**503-632-5016**	**503-939-3167 (cell)**
ADDRESS **18487 S Valley Vista Road**			
CITY **Mulino**	STATE **OR**	ZIP **97042**	E-MAIL **PHG@BCTONLINE**

Permit or Transfer Holder's of Record Signature or Acknowledgement

Each *permit or transfer holder of record must sign this form in the space provided below.*

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge. I request that the Department issue a water right certificate.

SIGNATURE	PRINT OR TYPE NAME	TITLE	DATE
Attached	**Ray Neuschwander**	**Landowner**	
Attached	**Ray Gannon**	**Landowner**	

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OWRD

Seal and Signature

CWRE NAME	PHONE NO.	ADDITIONAL CONTACT NO.
Greg Kupillas/Pacific Hydro-Geology Inc	**503-632-5016**	**503-939-3167 (cell)**
ADDRESS **18487 S Valley Vista Road**		

CITY	STATE	ZIP	E-MAIL
Mulino	**OR**	**97042**	**PHG@BCTONLINE**

Permit or Transfer Holder's of Record Signature or Acknowledgement

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The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge. I request that the Department issue a water right certificate.

SIGNATURE	PRINT OR TYPE NAME	TITLE	DATE
	Ray Neuschwander	**Landowner**	4-20-17
	Ray Gannon	**Landowner**	

RECEIVED
MAY 19 2017
OWRD

CWRE Name	Phone No.	Additional Contact No.
Greg Kupillas/Pacific Hydro-Geology Inc	503-632-5016	503-939-3167 (cell)

Address			
18487 S Valley Vista Road			
City	State	Zip	E-Mail
Mulino	OR	97042	PHG@BCTONLINE

Permit or Transfer Holder's of Record Signature or Acknowledgement

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Signature	Print or Type Name	Title	Date
	Ray Neuschwander	Landowner	
Ray Gannon	Ray Gannon	Landowner	4/12/17

SECTION 3

CLAIM DESCRIPTION

1. Point of diversion/appropriation name or number:

Point of Diversion/Appropriation (POD/POA) Name or Number (correspond to map)	Well Log ID # For All Work Performed on the Well (if applicable)	Well Tag # (if applicable)
Well 1	CLAC 12700	No Well Tag #
Well 2	CLAC 51287	L-02078

Attach each well log available for the well (include the log for the original well and any subsequent alterations, reconstructions, or deepenings)

2. Point of diversion/appropriation source and, if from surface water, the tributary:

POD/POA Name or Number	Source	Tributary
Well 1 (CLAC 12700)	Alluvium	Bear Creek Basin
Well 2 (CLAC 51287/L-02078)	Alluvium	Bear Creek Basin

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3. Developed use(s), period of use, and rate for each use:

POD/POA Name or Number	Uses	If Irrigation, List Crop Type	Season or Months When Water was Used	Actual Rate or Volume Used (CFS, GPM, or AF)
Well 1 (CLAC 12700)	Nursery Use	Nursery Stock	Year Round	0.7
Well 2 (CLAC 51287/L-02078)	Nursery Use	Nursery Stock	Year Round	1.11
Total Quantity of Water Used				1.8 CFS

SECTION 3

CLAIM DESCRIPTION

1. Point of diversion/appropriation name or number:

POINT OF DIVERSION/APPROPRIATION (POD/POA) NAME OR NUMBER (CORRESPOND TO MAP)	WELL LOG ID # FOR ALL WORK PERFORMED ON THE WELL (IF APPLICABLE)	WELL TAG # (IF APPLICABLE)
Well 1	**CLAC 12700**	**No Well Tag #**
Well 2	**CLAC 51287**	**L-02078**

Attach each well log available for the well (include the log for the original well and any subsequent alterations, reconstructions, or deepenings)

2. Point of diversion/appropriation source and, if from surface water, the tributary:

POD/POA NAME OR NUMBER	SOURCE	TRIBUTARY
Well 1 (CLAC 12700)	**Alluvium**	**Bear Creek Basin**
Well 2 (CLAC 51287/L-02078)	**Alluvium**	**Bear Creek Basin**

3. Developed use(s), period of use, and rate for each use:

POD/POA NAME OR NUMBER	USES	IF IRRIGATION, LIST CROP TYPE	SEASON OR MONTHS WHEN WATER WAS USED	ACTUAL RATE OR VOLUME USED (CFS, GPM, OR AF)
Well 1 (CLAC 12700)	**Nursery Use**	**Nursery Stock**	**Year Round**	**0.70**
Well 2 (CLAC 51287/L-02078)	**Nursery Use**	**Nursery Stock**	**Year Round**	**1.11**
Total Quantity of Water Used				**1.8 CFS**

4. Provide a general narrative description of the distribution works. This description must trace the water system from **each** point of diversion or appropriation to the place of use:

Water is appropriated from Well 1 using a 30-Hp pump, and from Well 2 using a 40-Hp pump. Water is conveyed through 5-inch and 6-inch buried PVC mainlines and 3-inch above-ground aluminum laterals. Water is applied to the authorized place of use via Rain Bird sprinklers with 1/8-inch sized nozzles or a big gun with a 1.1-inch nozzle.

Reminder: The map associated with this claim must identify the location of the point(s) of diversion, Donation Land Claims (DLC), Government Lots (GLot), and Quarter-Quarters (QQ).

5. Variations:

Was the use developed differently from what was authorized by the permit, permit amendment final order, or extension final order? If yes, describe below. **YES**

(e.g. *"The permit allowed three points of diversion. The water user only developed one of the points."* or *"The permit allowed 40.0 acres of irrigation. The water user only developed 10.0 acres."*)

Some areas authorized in the permit have not been developed. Therefore, the acreages within some of the quarter-quarter sections and the total acreage claimed are less than described in the permit.

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6. Claim Summary:

POD / POA NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED	USE	# OF ACRES ALLOWED	# OF ACRES DEVELOPED
Well 1 (CLAC 12700)	**1.114 CFS**	**0.70 CFS**	**Not measured**	**Nursery**	**174.09**	**54.8**
Well 2 (CLAC 51287/L-02078)	**0.49 CFS**	**1.11 CFS**	**Not measured**	**Nursery**	**174.09**	**97.4**

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SECTION 4

SYSTEM DESCRIPTION

Are there multiple PODs or POAs? **YES**

Well 1 (CLAC 12700)

A. Place of Use

1. Is the right for municipal use? **NO**

TWP	RNG	MER	SEC	QQ	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
4S	1E	W.M.	32	SWNE			Nursery	26.5	NA
4S	1E	W.M.	32	SENE			Nursery	25.2	NA
4S	1E	W.M.	32	NWSE			Nursery	3.1	NA
Total Acres Irrigated								54.8	NA

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (GLot), Quarter Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, GLot, and QQ.

B. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport and apply the water from the point of diversion/appropriation to the place of use.

1. Is a pump used? **YES**

2. Pump Information

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Franklin	**Unknown**	**15E19-13-06046A**	**Submersible**	**5-inch**	**5-inch**

3. Motor Information

MANUFACTURER	HORSEPOWER
Franklin	**30**

4. Theoretical Pump Capacity

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *IF A WELL, THE WATER LEVEL DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
30	**90**	**75.0 feet (per well log)**	**0 feet**	**0.70**

5. Provide pump calculations:

$$Q\ pump = \frac{(30\ Hp)(7.04\ ft4/sec\ Hp)}{(75.0\ feet\ lift + 228.6\ feet\ pressure\ head)} = 0.70\ CFS$$

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6. Measured Pump Capacity (using meter if meter was present and system was operating)

Initial Meter Reading	Ending Meter Reading	Duration of Time Observed	Total Pump Output (in CFS)
Not running at time of site visit			

Reminder: For pump calculations use the reference information at the end of this document.

7. Is the distribution system piped? **YES**

8. Mainline Information

Mainline Size	Length	Type of Pipe	Buried or Above Ground
5-inch	**1,200 feet**	**PVC**	**Buried**

9. Lateral or Handline Information

Lateral or Handline Size	Length	Type of Pipe	Buried or Above Ground
3-inch	**2,664 feet**	**Aluminum**	**Above Ground**

10. Sprinkler Information

Size	Operating PSI	Sprinkler Output (GPM)	Total Number of Sprinklers	Maximum Number Used	Total Sprinkler Output (CFS)
1/8	**70**	**4**	**220**	**78**	**0.70**
1.1-inch nozzle (big gun)	**80**	**315**	**1**	**1**	**0.70**

11. Pivot Information

Manufacturer	Maximum Wetted Radius	Operating PSI	Total Pivot Output (GPM)	Total Pivot Output (CFS)
NA				

12. Additional notes or comments related to the system:

None.

C. Groundwater Source Information (Well and Sump)

1. Is the appropriation from ground water (well or sump)? **YES**

2. Describe the access port (type and location) or other means to measure the water level in the well:

½-inch port in the center on top of gravel feed tube. Gravel feed tube is on the northwest side of well.

3. If well logs are not available, provide as much of the following information as possible:

Casing Diameter	Casing Depth	Total Depth	Completion Date of Original Well	Completion Dates of Alterations	Who the well was drilled for	Well drilled by
See attached Well Log						

4. In addition to the information requested in item "3" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

See attached Well Log

5. Is the appropriation from a dug well (sump)? **NO**

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D. Storage

1. Does the distribution system include in-system storage (e.g. storage tank, bulge in system / reservoir) **NO**

E. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe? **NO**

F. Gravity Flow Canal or Ditch

(THE DEPARTMENT TYPICALLY USES MANNING'S FORMULA FOR CANALS AND DITCHES)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system? **NO**

G. Reservoir

1. Does the claim involve a reservoir modified through a transfer? **NO**

POD/POA Name or Number this section describes (only needed if there is more than one):

Well 2 (CLAC 51287)

A. Place of Use

1. Is the right for municipal use? **NO**

TWP	RNG	MER	SEC	QQ	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
4S	1E	W.M.	32	SWNE			Nursery	2.7	NA
4S	1E	W.M.	32	SENW			Nursery	18.3	NA
4S	1E	W.M.	32	NESW			Nursery	23.0	NA
4S	1E	W.M.	32	NWSE			Nursery	21.8	NA
4S	1E	W.M.	32	SWSE			Nursery	31.6	NA
Total Acres Irrigated								97.4	NA

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (GLot), Quarter Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, GLot, and QQ.

B. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport and apply the water from the point of diversion/appropriation to the place of use.

1. Is a pump used? **YES**

2. Pump Information

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Franklin	**2366176025**	**Unknown**	**Submersible**	**5-inch**	**6-inch**

3. Motor Information

MANUFACTURER	HORSEPOWER
Franklin	**40**

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4. Theoretical Pump Capacity

Horsepower	Operating PSI	Lift from Source to Pump *If a well, the water level during pumping	Lift from Pump to Place of Use	Total Pump Output (in CFS)
40	80	48.0 feet (from pumping test results)	0 feet	1.12

5. Provide pump calculations:

Q pump = (40 Hp)(7.04 ft4/sec Hp) / (48.0 feet lift + 203.2 feet pressure head) = 1.12 CFS

6. Measured Pump Capacity (using meter if meter was present and system was operating)

Initial Meter Reading	Ending Meter Reading	Duration of Time Observed	Total Pump Output (in CFS)
Not running at time of site visit			

Reminder: For pump calculations use the reference information at the end of this document.

7. Is the distribution system piped? **YES**

7. Is the distribution system piped? **YES**

8. Mainline Information

Mainline Size	Length	Type of Pipe	Buried or Above Ground
6-inch	4,600 feet	PVC	Buried

9. Lateral or Handline Information

Lateral or Handline Size	Length	Type of Pipe	Buried or Above Ground
3-inch	4,735 feet	Aluminum	Above Ground

10. Sprinkler Information

Size	Operating PSI	Sprinkler Output (GPM)	Total Number of Sprinklers	Maximum Number Used	Total Sprinkler Output (CFS)
1/8	70	4.0	220	125	1.11
1.1-inch nozzle (big gun)	80	315	1	1	0.70

11. Pivot Information

Manufacturer	Maximum Wetted Radius	Operating PSI	Total Pivot Output (GPM)	Total Pivot Output (CFS)
NA				

12. Additional notes or comments related to the system:

None.

C. Groundwater Source Information (Well and Sump)

1. Is the appropriation from ground water (well or sump)? **YES**
2. Describe the access port (type and location) or other means to measure the water level in the well:

½-inch port in the NW of top of gravel pack feed tube. Gravel feed tube is on the northwest side of the well.

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3. If well logs are not available, provide as much of the following information as possible:

Casing Diameter	Casing Depth	Total Depth	Completion Date of Original Well	Completion Dates of Alterations	Who the well was drilled for	Well drilled by
See attached Well Log						

4. In addition to the information requested in item "3" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

See attached Well Log

5. Is the appropriation from a dug well (sump)? **NO**

D. Storage

1. Does the distribution system include in-system storage (e.g. storage tank, bulge in system / reservoir) **NO**

E. Gravity Flow Pipe

(The Department typically uses the Hazen-William's formula for a gravity flow pipe system)

1. Does the system involve a gravity flow pipe? **NO**

F. Gravity Flow Canal or Ditch

(The Department typically uses Manning's formula for canals and ditches)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system? **NO**

G. Reservoir

1. Does the claim involve a reservoir modified through a transfer? **NO**

SECTION 5

CONDITIONS

All conditions contained in the permit, permit amendment, transfer final order, or any extension final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

Permits, transfer final orders, and any extension final orders contain any or all of the following dates: the date when the actual construction work was to begin, the date when the construction was to be completed, and the date when the complete application of water to the proposed use was to be completed. These dates may be referred to as ABC dates. Describe how the water user has complied with each of the development timelines established in the permit, extension or transfer final order:

	Date from Permit or Transfer	Date Accomplished*	Description of Actions Taken by Water User to Comply with the Time Limits
Issuance Date	**1/5/2005**		
Begin construction (A)	**Permit does not contain "A" date.**		
Complete construction (B)	**Permit does not contain "B" date.**		
Complete application of water (C)	**10/1/2008 extended to 10/1/2015**	**9/2015**	**Complete application of water to beneficial use was made by September, 2015.**

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* MUST BE WITHIN PERIOD BETWEEN PERMIT, TRANSFER FINAL ORDER, OR ANY EXTENSION FINAL ORDER ISSUANCE AND THE DATE TO COMPLETELY APPLY WATER

2. Is there an extension final order(s)? **YES**

3. If for a transfer extension order, provide the following information:

VOLUME	PAGE	DATE EXTENDED TO
Not for a transfer extension order		

4. Initial Water Level Measurements:

a. Was the water user required to submit an initial static water level measurement? **NO**

5. Annual Static Water Level Measurements:

a. Was the water user required to submit annual static water level measurements? **NO**

6. Pump Test (Required for most ground water permits prior to issuance of a certificate)

a. Did the permit require the submittal of a pump test? **YES**

b. Has the pump test been previously submitted to the Department? **NO**

c. Is the pump test attached to this claim? **YES**

d. Has the pump test been approved by the Department? **NO**

e. Has a pump test exemption been approved by the Department? **NO***

***Pump test waiver for Well 2 was submitted to the Department, however the waiver request has not been processed as of this date.**

** **Claims will not be reviewed until a pump test or exemption has been approved by the Department**

7. Measurement Conditions:

a. Does the permit, permit amendment, transfer final order, or any extension final order require the installation of a meter or approved measuring device? **YES**

b. Has a meter been installed? **YES**

c. Meter Information

POD/POA NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
Well 1	**McCrometer**	**06-04261-04**	**Working**	**58,166,500 gallons**	**9/2006**
Well 2	**McCrometer**	**05-02-925-06**	**Working**	**188,107 gallons**	**9/2006**

8. Recording and reporting conditions

a. Is the water user required to report the water use to the Department? **YES**

b. Have the reports been submitted? **YES**

METHOD OF SUBMITTING REPORT (PAPER OR ELECTRONIC)	WATER USER REPORTING ID
Electronic	**30176**

If the reports have not been submitted, attach a copy of the reports if available.

9. Fish Screening

a. Are any points of diversion required to be screened to prevent fish from entering the point of diversion? **NO**

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10. By-pass Devices

a. Are any points of diversion required to have a by-pass device to prevent fish from entering the point of diversion? **NO**

11. Other conditions required by permit, permit amendment final order, extension final order, or transfer final order:

a. Were there special well construction standards? **NO**

b. Was submittal of a ground water monitoring plan required? **NO**

c. Was the water user required to restore the riparian area if it was disturbed? **NO**

d. Was a fishway required? **NO**

e. Was submittal of a letter from an engineer required prior to storage of water? **NO**

f. Was submittal of a water management and conservation plan required? **NO**

g. Other conditions? **NO**

If "YES" to any of the above, identify the condition and describe the water user's actions to comply with the condition(s):

NA.

SECTION 6

ATTACHMENTS

Provide a list of any additional documents you are attaching to this report:

ATTACHMENT NAME	DESCRIPTION
Claim of Beneficial Use Map	**Claim of Beneficial Use Map**
Water Supply Well Report CLAC 12700	**Well Log for Well 1 (CLAC 12700)**
Water Supply Well Report CLAC 51287	**Well Log for Well 2 (CLAC 51287/L-02078)**
Pump Test Form Cover Sheet and Pump Test Data Sheet	**Pump test results for Well 2 (CLAC 51287/L-02078)**
Appendix A	
Clackamas County Assessor Map for Lot 1000, Tax Map 04 1E 32	**Identifies hatchured area on application as tax lot not owned by original applicant**
Land Use Information Form submitted and reviewed with original application	**Shows TL 4 1E 32 1000 was not reviewed or approved by Clackamas County. Shows Oregon Water Resources Department authorized the hatchered area on the application map in error.**
Original application	**Identifies original applicant as the only landowner associated with the proposed place of use.**
Letter	**Provides narrative for the proposed place of use according to the application map and the place of use claimed under this Claim of Beneficial Use report.**

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SECTION 7

CLAIM OF BENEFICIAL USE MAP

The Claim of Beneficial Use Map must be submitted with this claim. Claims submitted without the Claim of Beneficial Use map will be returned. The map shall be submitted on poly film at a scale of 1" = 1320 feet, 1" = 400 feet, or the original full-size scale of the county assessor map for the location.

Provide a general description of the survey method used to prepare the map. Examples of possible methods include, but are not limited to, a traverse survey, GPS, or the use of aerial photos. If the basis of the survey is an aerial photo, provide the source, date, series and the aerial photo identification number.

The COBU map was prepared using tax assessor's map 4 1E 32, overlain by a 2014 aerial photo titled USDA-FSA-APFO NAIP County Mosaic and obtained online from the Natural Resource Conservation Service. Image metadata: http://datagateway.nrcs.usda.gov/Catalog/ProductDescription/NAIPM.html

Map Checklist

Please be sure that the map you submit includes ALL the items listed below.
(Reminder: Incomplete maps and/or claims may be returned.)

- ☒ Map on polyester film
- ☒ Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-size scale of the county assessor map)
- ☒ Township, Range, Section, Donation Land Claims, and Government Lots
- ☒ If irrigation, number of acres irrigated within each projected Donation Land Claims, Government Lots, Quarter-Quarters
- ☐ Locations of fish screens and/or fish by-pass devices in relationship to point of diversion
- ☒ Locations of meters and/or measuring devices in relationship to point of diversion or appropriation
- ☒ Conveyance structures illustrated (pumps, reservoirs, pipelines, ditches, etc.)
- ☒ Point(s) of diversion or appropriation (illustrated and coordinates)
- ☒ Tax lot boundaries and numbers
- ☐ Source illustrated if surface water
- ☒ Disclaimer ("This map is not intended to provide legal dimensions or locations of property ownership lines")
- ☒ Application and permit number or transfer number
- ☒ North arrow
- ☒ Legend
- ☒ CWRE stamp and signature

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Permit G-15646
Claim of Beneficial Use
Appendix A

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WATER RESOURCES DEPT.
SALEM, OREGON

CLK 012700

START CARD 530

4S/1E-32A

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

Well Number

(1) OWNER:
Name JOEL NEUSCHWANDER
Address 60059 S WHISKEY HILL RD
City HUBBARD State OR Zip

(2) TYPE OF WORK:
☑ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☐ Rotary Air ☐ Rotary Mud ☑ Cable
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☑ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☑ Depth of Completed Well 154 ft.
Explosives used Yes ☐ No ☐ Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
12	1	20	GRANULAR BENTONITE	1	20	11
8	20	154				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☑ Other GRANULAR BENTONITE METHOD
Backfill placed from ____ ft. to ____ ft. Material ____
Gravel placed from 25 ft. to 90 ft. Size of gravel PEA

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	154	.250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Location of shoe(s) 154

(7) PERFORATIONS/SCREENS:
☑ Perforations Method DRIVE DOWN
☐ Screens Type ____ Material ____

Slom	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
88	150	3/16 X 1 1/4	400			☑	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
500	46	Pump	1 hr.
300	21	AIR LIFT	3

Temperature of water ____ Depth Artesian Flow Found ____
Was a water analysis done? ☐ Yes By whom ____
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____
Depth of strata: ____

(9) LOCATION OF WELL by legal description:
County CLACKAMAS Latitude ____ Longitude ____
Township 4S N or S, Range 1E E or W, WM.
Section 32 ¼ ¼ SE ¼
Tax Lot ____ Lot ____ Block ____ Subdivision ____
Street Address of Well (or nearest address) S. NEEDY RD, CANBY

(10) STATIC WATER LEVEL:
29 ft. below land surface. Date 5/25/88
Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:
Depth at which water was first found 31

From	To	Estimated Flow Rate	SWL
82	102	800 GPM ≈	30
115	132	500 GPM ≈	30

(12) WELL LOG:
Ground elevation ____

Material	From	To	SWL
SOIL	1	3	
CLAY BROWN	3	31	
SAND BROWN	31	31	
CLAY GREY	31	42	
CEMENTED GRAVEL	42	63	
CLAY DK GREY	63	70	
SILT BLACK	70	82	
SAND BLACK FINE	82	92	
CEMENTED GRAVEL	92	105	
CLAY BLUE STICKEY	105	115	
CLAY GREY W/ GREY SAND LAYERS	115	132	
CLAY GREEN	132	144	
SILT DARK BROWN.	144	147	
CLAY BLUE GREEN	147	154	
INITIALLY PERFORATED 115 to 150 1 AND PRODUCED 150 GPM, total. Then GRAVEL PACKED 75-102 & 115-132, perforated 88' to 115'. Then PRODUCED 300 GPM WITH 21' DRAWDOWN.			

Date started 5/13/88 Completed 5/25/88

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

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WWC Number ____
Signed ____ Date ____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 243
Signed Richard Beck Date 5/25/88

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9809C 10/86

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WATER RESOURCES DEPT.
SALEM, OREGON

CLAC 51287

TAG # L02078

62424

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

(START CARD) # _____

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number _____

Name Neuschwander's Nursery

Address 6097 S. Whiskey Hill Rd

City Hubbard State Or Zip 97032

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[ ] Rotary Air [ ] Rotary Mud [X] Cable [ ] Auger

[ ] Other _____

(4) PROPOSED USE:

[ ] Domestic [ ] Community [ ] Industrial [X] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other _____

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [ ] No Depth of Completed Well 140 ft.

Explosives used [ ] Yes [ ] No Type _____ Amount _____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12	1	50	Bentonite	1	50	35 sacks
8	50	140				

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E

[X] Other Granular Bentonite method

Backfill placed from _____ ft. to _____ ft. Material _____

Gravel placed from 60 ft. to 120 ft. Size of gravel pea

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	140	.25	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s) 140

(7) PERFORATIONS/SCREENS: Drive Down

[X] Perforations Method _____

[ ] Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
76	119	.188	600			[X]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

(8) WELL TESTS: Minimum testing time is 1 hour

[ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
		air line @	1 hr.
220		105	4 hr

Temperature of water 53 Depth Artesian Flow Found _____

Was a water analysis done? [ ] Yes By whom _____

Did any strata contain water not suitable for intended use? [ ] Too little

[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other _____

Depth of strata: _____

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude _____ Longitude _____

Township 4s N or S Range 1e E or W. WM.

Section 32 Se 1/4 Nw 1/4

Tax Lot 900 Lot _____ Block _____ Subdivision _____

Street Address of Well (or nearest address) _____

29435 S Needy Rd

(10) STATIC WATER LEVEL:

47 ft. below land surface. Date Sep 10, 1996

Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 40

From	To	Estimated Flow Rate	SWL
40	140		47

(12) WELL LOG:

Ground Elevation _____

Material	From	To	SWL
Soil	1	3	
Clay, Brown	3	38	
Cemented gravel, brown	38	54	
Clay, grey	54	58	
Clay, grey, sandy	58	60	
Sand, black, fine	60	69	
Sand and gravel, black	69	71	
Cemented gravel, sand	71	74	
Sand & gravel	74	95	
Clay, blue	95	98	
clay, grey, silty	98	101	
Silt, dark grey	101	108	
Clay w/black coarse sand	108	116	
Clay, grey w/some cemented gravel	116	136	
Clay, blue	136	140	
Note: 6 inch gravel feed each side of			
8 inch well			

Date started August 8, 1996 Completed Dec 10, 1996

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

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WWC Number _____

Signed _____ Date _____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 243

Signed Richard Burke Date 1/4/97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

Oregon Water Resources Department

PUMP TEST FORM COVER SHEET

Well Owner:
Name: Neuschwanders Nursery
Address: 6097 S Whiskey Hill Rd
County: Clackamas
City: Hubbard OR State: ___ Zip: 97032
Original owner (from well log): ___

Well Location:
Township: ___ ☐ (N/S) Range: ___ ☐ (E/W)
Section: ___ ¼ : ___ 1/16 : ___ 1/64 : ___.
Well depth: ___ Date drilled: ___
Owners well no. (if any): ___
POD ID: ___

Water Right Information:
Application: G-15567 Permit: G-15646 Certificate: ___
Is this well listed on more than one water right? ☐ Yes If yes, list additional water rights below:
Application: ___ Permit: ___ Certificate: ___
Application: ___ Permit: ___ Certificate: ___

Pump Test:
Test Conducted by: Rich Gerig Well Owner? ☐ Yes
Company: Fisher's Supply Inc
Address: 659 SW 1st Ave Date of Test: 02-17-16
City: Canby State: OR Zip: 97013
Daytime phone: 503-263-8557

Method of discharge measurement (see our brochure for acceptable methods): Flow meter McCrometer
Method of water-level measurement (pick one or enter other method used): E-tape
Length of air line (if used): ___.

Pump type (pick one or enter other method used): submersible
Was the pump test conducted during normal use of the well? ☐ Yes Note: No

Are you aware of any wells, other than domestic or stock wells, pumping within 1000 feet of the tested well during the test or within 24 hours prior to the test? ☐ Yes Note: No
If yes, give approximate distances to each and approximate pumping rate of each. If possible, indicate if they were turned on or off during the test: ___

Is there a lake, stream or other surface water body within ¼ mile of the tested well? ☐ Yes If yes, give approximate distance from the well and approximate elevation difference between the surface water and the well head. Approx. distance: ___ ft Approx. elevation difference: ___ ft

Well elevation is below surface water body.

Description of measuring point (e.g. top port of 1 inch port pipe, west side) vent hole well seal

Measuring point distance below land surface 1 feet.

Static water level measurements: (A minimum of three measurements are required in the hour before pumping begins at no less than 20 minutes apart):

Time	Depth to water below meas. point	Depth to water below land surface
9:00	24' 6"	23' 6"
9:30	24' 6"	23' 6"
10:00	24' 6"	23' 6"

Discharge measurements: (A discharge measurement is required at the start of pumping and at least once an hour during the test; additional measurements should be noted on the Pump Test Data Sheet):

Time	Discharge Rate	Discharge Units (e.g. gpm, cfs, etc)
10:00	400	gpm
11:00	400	gpm
12:00	400	gpm
1:00	400	gpm
2:00	400	gpm

Time pump turned on: Date 2-17-16 Time 10:00 am
Time pump turned off: Date 2-17-16 Time 2:00 pm
Total pumping time: 4 hours ___ minutes

Note: Well must be idle for at least 16 hours prior to the test.
Additional forms can be obtained from our web site at: http://www.wrd.state.or.us OWRD 2/9/2009

Required Signature: [signature]

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04/07/2016 11:50 5032638369 FISHERS SUPPLY INC PAGE 02/03

Oregon Water Resources Department

PUMP TEST DATA SHEET

Application: G-15567 Permit: G-15646 Certificate: _____ Pod_Id: _____

All water-level measurements must either be in feet and inches, or feet and decimal fractions.

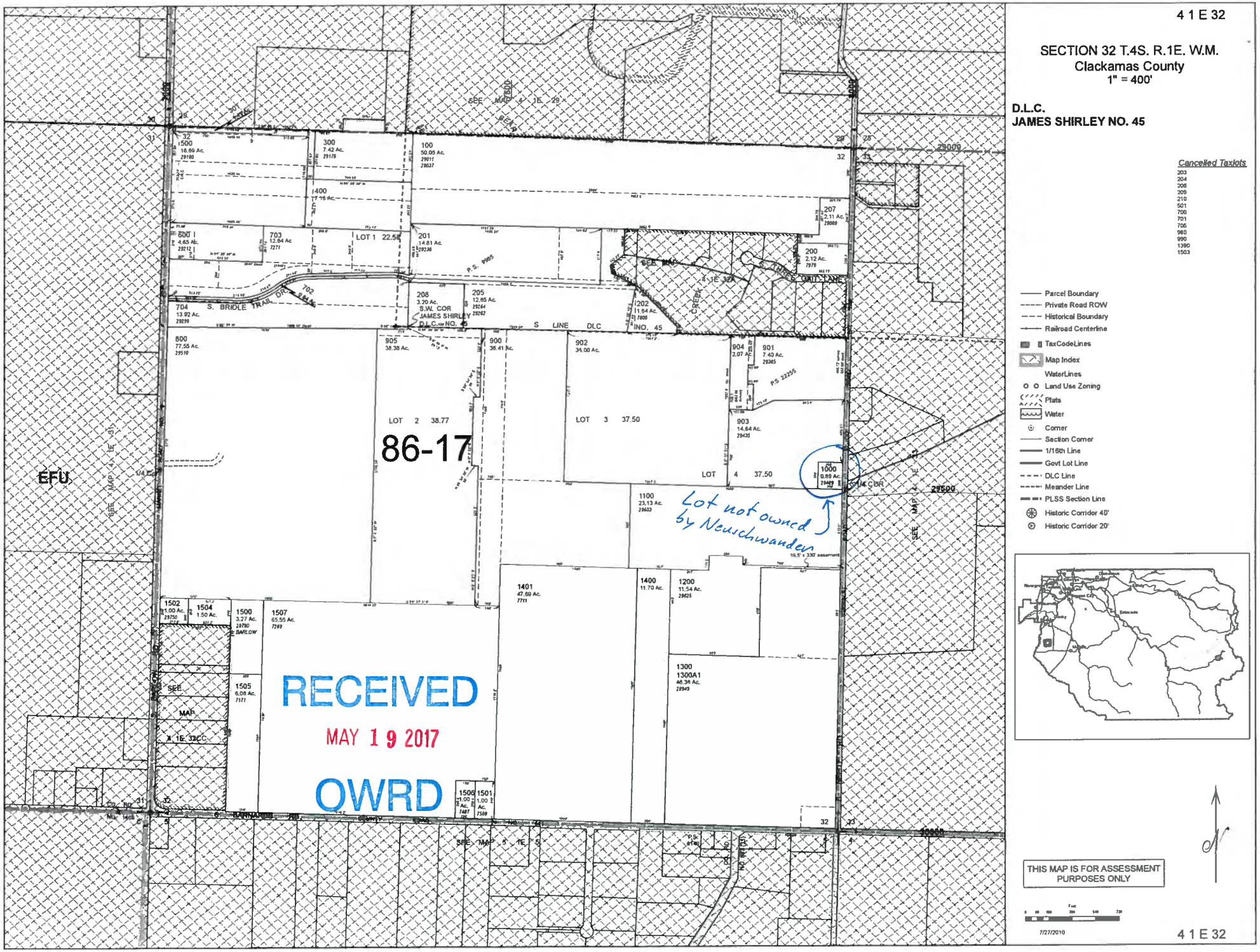
Drawdown Data

Recovery Data

Date	Time	Time Since Pump Started (minutes)	Depth to Water Below Measuring Pt	Depth to Water Below Land Surface	Comments	Date	Time	Time Since Pump Stopped (minutes)	Depth to Water Below Measuring Pt	Depth to Water Below Land Surface	Comments
2-17-18	9:00		24' 6"	23' 6"		2-17-18					
	10:00		43'	42'	400 GPM		2:02		35' 6"	34' 6"	
	10:02		43'	42'			2:04		33' 11"	32' 11"	
	10:04		43'	42'			2:06		32' 11"	31' 11"	
	10:06		43' 3"	42' 3"			2:08		32'	31'	
	10:08		43' 6"	42' 6"			2:10		31' 6"	30' 6"	
	10:10		43' 10"	42' 10"			2:15		30' 3"	29' 3"	
	10:15		44' 1"	43' 1"			2:20		29' 8"	28' 8"	
	10:20		44' 6"	43' 6"			2:25		29' 1"	28' 1"	
	10:25		45'	44'	400 gpm		2:30		28' 8"	27' 8"	
	10:30		45' 11"	44' 11"			2:45		27' 7"	26' 7"	
	10:45		47'	46'			3:00		26' 8"	25' 8"	
	11:00		46'	47'			3:15		26' 1"	25' 1"	
	11:15		48'	48'							
	11:30		48'	46'	400 gpm						
	11:45		49'	48'							
	12:00		49'	48'							
	12:15		49'	48'							
	12:30		49'	46'							
	12:45		49'	46'							
	1:00		49'	48'	400 gpm						
	1:15		49'	48'							
	1:30		49	46'							
	1:45		49'	46'							
	2:00		49'	46'	400 gpm						

Additional forms can be obtained from our web site at: http://www.wrd.state.or.us

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04/07/2016 11:50 5032638369 FISHERS SUPPLY INC PAGE 03/03


4 1 E 32
SECTION 32 T.4S. R.1E. W.M.
Clackamas County
1" = 400'
D.L.C.
JAMES SHIRLEY NO. 45
Cancelled Taxlots
203
204
205
209
210
501
700
701
705
980
990
1390
1503
Parcel Boundary
Private Road ROW
Historical Boundary
Railroad Centerline
TaxCodeLines
Map Index
WaterLines
Land Use Zoning
Plats
Water
Corner
Section Corner
1/16th Line
Govt Lot Line
DLC Line
Meander Line
PLSS Section Line
Historic Corridor 40'
Historic Corridor 20'
86-17
EFU
LOT 2 38.77
LOT 3 37.50
LOT 4 37.50
LOT 1 22.56
S. BRIDLE TRAIL DR.
SW GAIT LANE
S LINE DLC
JAMES SHIRLEY D.L.C. NO. 45
S.W. COR
Lot not owned by Neuschwander
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THIS MAP IS FOR ASSESSMENT PURPOSES ONLY
7/27/2010
4 1 E 32

Oregon Water Resources Department
Land Use Information Form

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WATER RESOURCES DEPT
SALEM, OR

This information is needed to determine compatibility with local comprehensive plans as required by ORS 197.180. The Water Resources Department will use this and other information to evaluate the water use application. DO NOT fill out this form if water is to be diverted, conveyed, or used only on federal lands.

To Be Completed By Applicant

The following section includes information about proposed water use. This section must be completed by the individual or group that is filing an application for a water right with the Water Resources Department.

A. Applicant

Name: JOEL NEUSCHWANDER

Address: 6097 S. WHISKEY HILL ROAD

City: HUBBARD State: OR Zip: 97032 Day Phone: (503) 651-3253

B. Land and Location

Please provide information as requested below for all tax lots on or through which water will be diverted, conveyed, or used. Check "diverted" if water is diverted (taken) from its source on tax lot, "conveyed" if water is conveyed (transported) on tax lot, and "used" if water will be put to beneficial use on tax lot. More than one box may be checked. (Attach extra sheets as necessary.) Applicants for municipal use, or irrigation uses within irrigation districts, may substitute existing and proposed service area boundaries for the tax lot information requested below.

Tax Lot I.D.	Plan Designation (e.g. Rural Residential/RR-5)	Water to be: *(check all that apply)*		
900 – 905		☑ Diverted	☑ Conveyed	☑ Used
1401		☑ Diverted	☑ Conveyed	☑ Used
4-1E-32		☐ Diverted	☐ Conveyed	☐ Used

List counties and cities where water is proposed to be diverted, conveyed, or used. CLACKAMAS COUNTY

C. Description of Water Use

Indicate what the water will be used for. Include the beneficial use (found in the instruction booklet for your water right application) and use the space below to describe the key characteristics of the project.

Beneficial Use(s): IRRIGATION (NURSERY USE)

Briefly describe: COMMERCIAL NURSERY USE WITH CONTAINERIZED NURSERY STOCK AND IN-GROUND NURSERY STOCK

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SALEM, OR

Application No. 81567
Permit No.

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SALEM, OR
MAY 19 2017
OWRD

D. Source

Indicate the source for the proposed use:

☐ Reservoir/Pond ☑ Ground Water ☐ Surface Water _____ (source)

E. Quantity

Indicate the estimated quantity of water the use will require:

647.95 ☐ CFS ☐ GPM ☑ Acre-Feet

For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless your project will be located entirely within the city limits. In this case, only the city planning agency must complete this form. Please request additional forms as needed or feel free to copy.

A. Allowed Use

Check the appropriate box below and provide requested information.

☑ Land uses to be served by proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): 401. Go to section B "Approval" below

☐ Land uses to be served by proposed water uses (including proposed construction) involve discretionary land use approvals as listed in the table below.

Type of Land Use Approval Needed (e.g. plan amendments, rezones, conditional use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	*Check the item that applies:* Land Use Approval:	
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued

Note: *Please attach documentation of applicable local land use approvals which have already been obtained. (Record of Action plus accompanying findings is sufficient.)*

B. Approval

Please provide printed name and written signature.

Name: Terry Curry Date: 12 JULY 01

Title: SR Planner Phone: (503) 353 4500

Signature:

C. Additional Comments

Local governments are invited to express special land use concerns or make recommendations to the Department regarding this proposed use of water below, or on a separate sheet.

N/A

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SALEM, OR

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Note: *If this form cannot be completed while the applicant waits, sign and detach the receipt stub as instructed below. You will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD will presume the land use associated with the proposed water right is compatible with local comprehensive plans. (See attached letter.)*

State of Oregon
Water Resources Department
158 12th Street NE, Salem, OR 97310
(503)378-8455 • (800)624-3199
www.wrd.state.or.us

Application for a Permit to Use Ground Water

Please type or print in dark ink. If your application is found to be incomplete or inaccurate, we will return it to you. If any requested information does not apply to your application, insert "n/a." Please read and refer to the instructions when completing your application. Thank you.

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WATER RESOURCES DEPT
SALEM, OR

1. APPLICANT INFORMATION

A. Individuals

Applicant: JOEL NEUSCHWANDER
First Last

Co-applicant: _____
First Last

Mailing address: 6097 S. WHISKEY HILL ROAD

HUBBARD OR 97032
City State Zip

Phone: (503) 651-3253
Home Work Other

*Fax: _____ *E-Mail address: _____

B. Organizations

(Corporations, associations, firms, partnerships, joint stock companies, cooperatives, public and municipal corporations)

Name of organization: _____

Name and title of person applying: _____

Mailing address of organization: _____

_____
City State Zip

Phone: _____
Day Evening

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*Fax: _____ *E-Mail address: _____

**Optional information*

For Department Use

App. No. G-15567 Permit No. _____ Date 7-25-01

Pacific Hydro-Geology Inc.
18487 S. Valley Vista Rd.
Mulino, OR 97042
(503) 632-5016

January 28, 2017

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301

Re: Proposed Place of Use vs. Claimed Place of use

OWRD Staff:

On July 7, 2011 Joel Neuschwander submitted Application G-15567. The map submitted with the application shows hatching on TL 4 1E 32 1000. But as confirmed by the original Land Use Information Form and identified landowner (my father, Joel Neuschwander) on the original application, the applicant never intended to propose use of water on this tax lot.

Additionally, the original applicant (my father, Joel Neuschwander) has:

1. Never owned any portion of TL 4 1E 32 1000;
2. Never had any type of formal or informal agreement with the landowners of TL 4 1E 32 1000 allowing them access to the authorized wells; and
3. Never made beneficial use of water on any portion of TL 4 1E 32 1000.

Furthermore, I have:

1. Never owned any portion of TL 4 1E 32 1000;
2. Never had any type of formal or informal agreement with the landowners of TL 4 1E 32 1000 allowing them access to the authorized wells; and
3. Never made beneficial use of water on any portion of TL 4 1E 32 1000.

Accordingly, the submitted Claim of Beneficial Use does not claim use of water on this tax lot.

Signature of legal owner as listed on deed

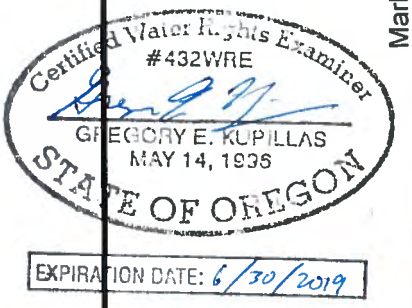
3-1-17
Date

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MAR 10 2017
SALEM, OR

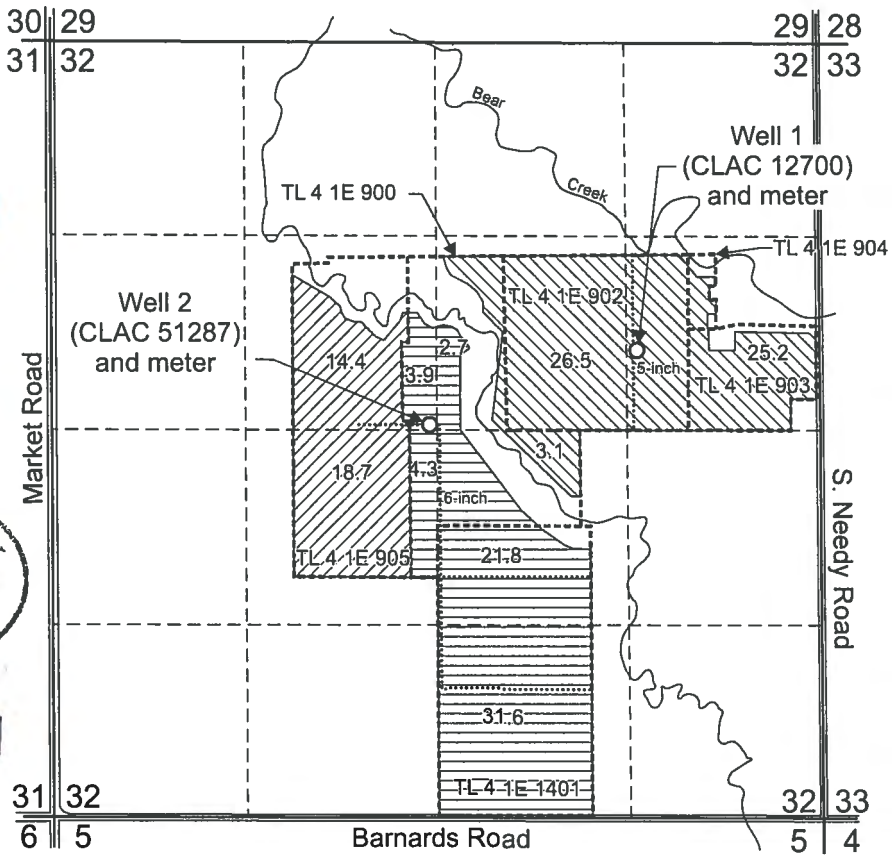
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T.4S. R.1E. Section 32, W.M.

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EXPIRATION DATE: 6/30/2019



Well 1 (CLAC 12700) and meter are located 550 feet north and 1,250 feet west from the east 1/4 corner, Section 32.

Well 2 (CLAC 51287) and meter are located 50 feet north and 50 feet west from the center 1/4 corner, Section 32.

Area (54.8 acres) irrigated with Well 1 (CLAC 12700) under application G-15567, Permit G-15646 and assigned to Ray Neuschwander.

Area (64.3 acres) irrigated with Well 2 (CLAC 51287) under application G-15567, Permit G-15646 and assigned to Ray Neuschwander.

Area (33.1 acres) irrigated with Well 2 (CLAC 51287) under application G-15567, Permit G-15646 and assigned to Ray Gannon.

-------- Tax lot boundary

..... 5-inch and 6-inch Mainline

N

Scale: 1" = 1,320'

0 1,320 Feet

This map was prepared for the purpose of identifying the location of a water right only and is not intended to provide legal dimensions or location of property ownership lines.

Pacific Hydro-Geology Inc.

Claim of Beneficial Use Map
Application G-15567, Permit G-15646

Ray Neuschwander and Ray Gannon
T4.S. R.1E. Section 32, W.M.

bgp - 2016

Neuschwander_Gannon.cdr

KAVANAGH Kerry L * WRD

From: HAGE Trisha * WRD
Sent: Monday, June 05, 2017 3:54 PM
To: COOK Nirvana * WRD; SNYDER Lisa J * WRD
Cc: OPEIFA Salem B * WRD; SUMPTION Mishelle K * WRD; WUETHRICH Courtney A * WRD; ZIELINSKI Vicki J * WRD; KAVANAGH Kerry L * WRD
Subject: RE: **customer waiting** CERTIFICATE REQUEST

Hi Nirvana,
Please use R12489-17 and PCA 47126.
Thanks,
Trisha

From: COOK Nirvana * WRD
Sent: Monday, June 05, 2017 3:49 PM
To: SNYDER Lisa J * WRD
Cc: OPEIFA Salem B * WRD; HAGE Trisha * WRD; SUMPTION Mishelle K * WRD; WUETHRICH Courtney A * WRD; ZIELINSKI Vicki J * WRD; KAVANAGH Kerry L * WRD
Subject: **customer waiting** CERTIFICATE REQUEST

Hello....we have a customer waiting at the counter for this to be receipted..thank you so much!

APPLICANT: RAY NEUSCHWANDER AND RAY GANNON

RELATED TO APPLICATION #: G-15567

INVOICE #: 123614

Thank you,

Nirvana

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To: SNYDER Lisa J * WRD
Cc: OPEIFA Salem B * WRD; HAGE Trisha * WRD; SUMPTION Mishelle K * WRD; WUETHRICH Courtney A * WRD; ZIELINSKI Vicki J * WRD; KAVANAGH Kerry L * WRD
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APPLICANT: RAY NEUSCHWANDER AND RAY GANNON

RELATED TO APPLICATION #: G-15567

INVOICE #: 123614

Thank you,

Nirvana

OREGON WATER RESOURCES DEPARTMENT
CERTIFICATE REIMBURSEMENT AUTHORITY ESTIMATE APPLICATION

ORS 536.055 authorizes the Oregon Water Resources Department to expedite or enhance regulatory processes voluntarily requested under the agreement.

The purpose of this application is to obtain estimates of the cost and time required to process a Certificate Request. ***A separate estimate application is required for each application and/or transfer number. There is a non-refundable application fee of $125.00 per request.***

REQUEST	TYPE	FILE NUMBER	
☒	Certificate Request	Application Number	G-15567
		Permit Number	G-15646
		Transfer Number/Permit Amendment (if applicable)	_____

	Applicant Information	Applicant's Representative/Contact
Name:	Ray Neuschwander and Ray Gannon	Pacific Hydro-Geology Inc./Greg Kupillas
Address:	6097 S Whiskey Hill Rd/2591 Brook Lake Rd NE	18487 S Valley Vista Rd
	Hubbard, OR 97032/Salem, OR 97303	Mulino, OR 97042
Phone:	503.320.7502/503.390.2512	503.939.3167
Fax:	_____	_____
E-Mail Address:	ray.nnlc@gmail.com/ray@willamettetree.com	phggek@bctonline.com

I certify that I *(check one)*:

- ◉ have previously filed a Claim of Beneficial Use
- ○ am attaching the Claim of Beneficial Use with this request and have included the appropriate claim fee.

I understand the following:

- That upon receipt of my non-refundable application fee in the amount of **$ 125.00**, OWRD will, within fourteen (14) days, notify me in writing of the estimates of cost and time frame for the expedited service.
- That this fee covers the reimbursement authority staff to evaluate and provide the estimate for processing of the request.
- That upon receiving the estimate I may agree or decline to enter into a formal contract to pay the estimated cost in advance to initiate the expedited service.
- An incomplete or inaccurate Claim of Beneficial Use may delay the process and increase the cost to process my request.
- Expedited processing does not guarantee a favorable review of my request.
- Send completed Application and payment to:

  Oregon Water Resources Department
  Certificate Reimbursement Authority Program
  725 Summer St. NE, Suite A
  Salem, OR 97301-1271

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I certify that I am the *(check one)*:

○ Applicant ◉ Applicant's Representative ○ Other *(Please specify)* _____

Name: Gregory E. Kupillas

Signature: Gregory E. Kupillas

OWRD USE ONLY: Reimbursement Authority Number: R12 489 **17** 47124

REIMBURSEMENT AUTHORITY PERMIT APPLICATION G-15567 PERMIT G-15646

Certificate 93512 issued 12-22-17

Willamette Tree Wholesale

Providing our customers with prompt service and high-quality products at competitive prices.

View Availability

ABOUT US

Our company specializes in container, field grown B&B, and bare root shade, flowering, and coniferous evergreen trees. We have a large selection of products to chose from; which can be viewed in our availability list or if you come in to our Brooks, OR location. Proudly serving the landscape and re-wholesale trade for more than 30 years growing, harvesting, and shipping

WHAT WE OFFER

CONTACT INFORMATION

LOCATIONS

Office: 3491 Brooklake Road, NE Salem, OR 97303
Shipping Address: 3270 Brooklake Road, NE Salem, OR 97303
Directions: Take Exit 263 off I-5 and head 1 mile West. We're on the right side of the road.

CALL US

Phone: 503-390-2512
Fax: 503-393-3817

EMAIL

Info@willamettetree.co
Ray@willamettetree.co
Jorge@willamettetree.c

Theme: Sensible by modernthemes.net



Business Name Search

New Search Printer Friendly

Business Entity Data

03-14-2018
16:52

Registry Nbr	Entity Type	Entity Status	Jurisdiction	Registry Date	Next Renewal Date	Renewal Due?
163266-88	DBC	ACT	OREGON	07-24-1989	07-24-2018	
Entity Name	WILLAMETTE TREE WHOLESALE, INC.					
Foreign Name						

New Search Printer Friendly

Associated Names

Type	PPB	PRINCIPAL PLACE OF BUSINESS				
Addr 1	3491 BROOKLAKE RD NE					
Addr 2						
CSZ	SALEM	OR	97303		**Country**	UNITED STATES OF AMERICA

Please click here for general information about registered agents and service of process.

Type	AGT	REGISTERED AGENT			**Start Date**	06-28-1991	**Resign Date**	
Name	RAY		L	GANNON				
Addr 1	5244 SE CASTLE ROCK CT							
Addr 2								
CSZ	MILWAUKIE	OR	97267		**Country**	UNITED STATES OF AMERICA		

Type	MAL	MAILING ADDRESS				
Addr 1	3491 BROOKLAKE RD NE					
Addr 2						
CSZ	SALEM	OR	97303		**Country**	UNITED STATES OF AMERICA

Type	PRE	PRESIDENT					**Resign Date**	
Name	RAY			GANNON				
Addr 1	3491 BROOKLAKE RD NE							
Addr 2								
CSZ	SALEM	OR	97303		**Country**	UNITED STATES OF AMERICA		

Type	SEC	SECRETARY				Resign Date	
Name	MAGGIE		GANNON				
Addr 1	3491 BROOKLAKE RD NE						
Addr 2							
CSZ	SALEM	OR	97303		Country	UNITED STATES OF AMERICA	

New Search Printer Friendly

Name History

Business Entity Name	Name Type	Name Status	Start Date	End Date
WILLAMETTE TREE WHOLESALE, INC.	EN	CUR	07-24-1989	

Please read before ordering Copies.

New Search Printer Friendly

Summary History

Image Available	Action	Transaction Date	Effective Date	Status	Name/Agent Change	Dissolved By
	AMNDMT TO ANNUAL RPT/INFO STATEMENT	02-26-2018		FI		
	AMENDED ANNUAL REPORT	07-05-2017		FI		
	AMENDED ANNUAL REPORT	06-15-2016		FI		
	AMENDED ANNUAL REPORT	06-12-2015		FI		
	AMENDED ANNUAL REPORT	07-07-2014		FI		
	ANNUAL REPORT PAYMENT	07-03-2013		SYS		
	ANNUAL REPORT PAYMENT	07-13-2012		SYS		
	ANNUAL REPORT PAYMENT	07-20-2011		SYS		
	ANNUAL REPORT PAYMENT	08-18-2010		SYS		
	NOTICE LATE ANNUAL	07-30-2010		SYS		
	ANNUAL REPORT PAYMENT	07-23-2009		SYS		
	ANNUAL REPORT PAYMENT	07-21-2008		SYS		

NEUSCHWANDER & GRAVES

Completion Checklist for Claims of Beneficial Use for
POST JULY 1, 2004 Claims

Application # G-15567 / G-15646 (Permit)	WRD Reviewer Kerry Kavanagh
Transfer #	Claim Logged
Date Received 5-19-2017	Oversized Map # N/A
CWRE Name Greg Kapillas PR:	Jessica Joyce 11/14/17

Need revised map to show Lots 9

Map Review:

Permit G-15646 issued 1-5-2005
C date = 10-1-2008
Ex Extended to 10-1-2015
1.604 CFS, being 1.114 CFS from well 1 & 0.490 CFS from well 2 for NL on 174.09 acres
YR

- ✓ Map on polyester film (OAR 690-014-0170(1) & 310-0050(1)(b))
- ✓ Application & permit #; or transfer # (OAR 690-014-0100(1))
- ✓ Disclaimer (OAR 690-014-0170(5))
- ✓ North arrow (OAR 690-310-0050(2)(c))
- ✓ CWRE stamp and signature (OAR 690-014 & 310-0050)
- ✓ Appropriate scale (1" = 1320', 1" = 400', or the original full-size scale of the county assessor map) (014 & 310)
- ✓ Township, range, section, and tax lot numbers (OAR 690-310-0050(4))
- N/A Source illustrated if surface water (OAR 690-014-0170(3)) GW
- ✓ Point(s) of diversion or appropriation (illustrated) (OAR 690–014(4) & 690-310-0050)
- ✓ Point(s) of diversion or appropriation (coordinates)(OAR 690–014(4) & 690-310-0050)
- ✓ Conveyance structures illustrated (pump, pipelines, ditches, etc.) (OAR 690-310-0050)
- ✓ Description of the location, in relation to the point of diversion or appropriation, of any fish screens, by-pass devices, and measuring devices required (OAR 690–014-0170(4))
- ✓ Place of use (1/4 1/4, or projected 1/4 1/4 lines within DLCs, or Gov Lots; if irrigation, # of acres in each subdivision; if for domestic or human consumption, location of dwelling or spigot) (OAR 690-310-0050, 690-014, 690-380-6010)

NEED revised map & show Gov Lots

CoBL — Well 1 (CLAC 12700) — 0.7 CFS
Well 2 (CLAC 51287) — 1.11 CFS
1.8 CFS

for YR NURSERY

AUTH.
1.114 CFS
0.490 CFS ±
1.604 CFS

54.8 ac from well 1
97.4 ac from well 2

Report Review:

- ✓ On form or format provided by the Department (OAR 690-014-0100(1))
- ✓ Application & permit #; or transfer # (OAR 690-014)
- ✓ Ownership information (OAR 690-014)
- ✓ Date of survey (OAR 690-014)
- ✓ Person interviewed (OAR 690-014)
- ✓ County (OAR 690-014) CLACKAMAS
- ✓ Description of conveyances system (from POD to POU) (OAR 690-014-0100)
- ✓ Source(s) of water (OAR 690-014-0100)
- ✓ Place of use location (OAR 690-014-0100)
- ✓ Type of use (OAR 690-014-0100)
- ✓ Extent of use (OAR 690-014-0100)
- ✓ Rate and Duty (OAR 690-014-0100)
- MA Diversion rate for each use (OAR 690-014-0100) one use – NL
- ✓ Diversion works description (pump make, serial model, capacity, and description) (OAR 690-014-0100)
- ✓ System capacity (OAR 690-014-0100)
  - ✓ Calculated capacity of system (required)
  - N/A Measured amount of use (optional)
- ✓ Permit/Transfer Final Order Conditions (OAR 690-014-0100)
  - ✓ Time limits
  - N/A Initial water level measurements
  - N/A Annual static water level measurements
  - Measurement, recording, and reporting
    - ✓ Meter/measuring device install meter or OSMD
    - ✓ Water use reporting – record & report – 2014 water year → within time window
  - MA Fish screening and/or by-pass
  - ✓ Pump test (ground water) – submitted CoBL 11-1-17 Pump test of multi well exempt reg. approved by Dennis as suitable for multi well exemption
    CoBL references previously submitted for Well 2 → assume pump test on Well 1 (not labeled)
  - ____ Other
    - ____
    - ____
- ✓ Conditions from Extension Final Order and/or Water Management Conservation Plan FO approved ext on 5-11-2010
  - C date extended to 10-1-2015
  - okay submit Progress Report Form to Dept by 10-1-2013
    by per Corey Conviance – CoBL will serve as ultimate Progress Report (even though CoBL submitted after 10-1-2013)
- ✓ CWRE stamp and signature (OAR 690-014-0100)
- ✓ Signature(s) of permittee of transfer holder (OAR 690-014-0100)

DEF = deficient
N/A = Not Applicable

Certificate Issuance Processing Checklist

NEED → Clients on map
___ Map and COBU reviewed
___ Conflict check Any Conflicts? NO
___ Check for ownership

Check Area of Interest ❒ **YES** ❒ **NO**
Identified Party _____

Staff Recommendations:

_____ Proof to the Satisfaction has been established to the full extent as described in the permit or transfer order.

_____ Proof to the Satisfaction has been not been established to the full extent as described in the permit or transfer order and the right should be limited as follows: fewer acres developed
Limit Q from each well as described in Permit - based on capacity of system

_____ Proof to the Satisfaction has not been established for the following reasons: _____
Proposed Actions:
Send letter requesting the following items/information:_____
_____ Send letter recommending extension to cure deficiencies:_____

Can certificate be processed further?
_____Yes

If "Yes":
_____Proposed
_____Final Certificate #_____

Mailing list:

Proposed:

Final:

	Claimed Rate	by Permit Amt Rate	→ prop. cert Allowed Rate	# acres claimed by well
Well 1 CLAC 12700	0.70 cfs	1.114 cfs	0.70 cfs	54.8 ac
Well 2 CLAC 51287	1.11 cfs	0.490 cfs	0.490 cfs	97.4 ac
TOTAL:	1.81 cfs	1.604 cfs	1.190 cfs	152.2 ac [Permit auth NOL on 174.09 ac]

→ Less than authorized by Permit

→ Less acreage

renewed by GC.

STATE OF OREGON

COUNTY OF CLACKAMAS

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

RAYMON NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD OR 97032

RAY GANNON
2591 BROOKLAKE RD NE
SALEM OR 97303

confirms the right to the use of water perfected under the terms of Permit G-15646. The amount of water used to which this right is entitled is limited to the amount used beneficially, and shall not exceed the amount specified, or its equivalent in the case of rotation, measured at the point of diversion from the source. The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15567

SOURCE OF WATER: TWO WELLS IN BEAR CREEK BASIN

PURPOSE OR USE: NURSERY USE ON 152.2 ACRES, BEING 54.8 ACRES FROM WELL 1 AND 97.4 ACRES FROM WELL 2

MAXIMUM RATE: 1.19 CUBIC FEET PER SECOND (CFS), BEING FURTHER LIMITED TO 0.70 CFS FROM WELL 1 AND 0.49 CFS FROM WELL 2, NOT TO EXCEED MAXIMUM CUMULATIVE TOATL OF 1.19 CFS

PERIOD OF USE: YEAR-ROUND

DATE OF PRIORITY: JULY 25, 2001

The wells are located as follows:

Twp	Rng	Mer	Sec	Q-Q	GLot	Measured Distances
4 S	1 E	WM	32	SE NE	4	WELL 1 - 550 FEET NORTH AND 1250 FEET WEST FROM E1/4 CORNER, SECTION 32
4 S	1 E	WM	32	SE NW	2	WELL 2 - 50 FEET NORTH AND 50 FEET WEST FROM C1/4 CORNER, SECTION 32

The amount of water used for nursery use is limited to a maximum of 5.0 acre feet per acre and a diversion of 0.15 cubic foot per second per acre. For irrigation of containerized nursery plants, the amount of water diverted is limited to one fortieth of one cubic foot per second and 5.0 acre feet per acre per year. For irrigation of in-ground nursery plants the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre per year. The use of water for nursery use may be made any time, during the period of allowed use specified above, that the use is beneficial. For irrigation of any other crop, the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre during the irrigation season of each year.

NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW

This is an order in other than a contested case. This order is subject to judicial review under ORS 183.484 and ORS 536.075. Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.484(2). Pursuant to ORS 183.484, ORS 536.075 and OAR 137-004-0080, you may petition for judicial review and petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied. In addition, under ORS 537.260 any person with an application, permit or water right certificate subsequent in priority may jointly or severally contest the issuance of the certificate within three months after issuance of the certificate.

A description of the place of use is as follows:

Twp	Rng	Mer	Sec	Q-Q	GLot	Acres	Well	Supplemental Information Owner	Map No.	Tax Lot No.
4 S	1 E	WM	32	SW NE	3	26.5	1	Ray Neuschwander	4 1E 32	900 & 902
4 S	1 E	WM	32	SW NE	3	2.7	2	Ray Neuschwander	4 1E 32	900
4 S	1 E	WM	32	SE NE	4	25.2	1	Ray Neuschwander	4 1E 32	902, 903, & 904
4 S	1 E	WM	32	SE NW	2	3.9	2	Ray Neuschwander	4 1E 32	900
4 S	1 E	WM	32	SE NW	2	14.4	2	Ray Gannon	4 1E 32	905
4 S	1 E	WM	32	NE SW		4.3	2	Ray Neuschwander	4 1E 32	900
4 S	1 E	WM	32	NE SW		18.7	2	Ray Gannon	4 1E 32	905
4 S	1 E	WM	32	NW SE		3.1	1	Ray Neuschwander	4 1E 32	900
4 S	1 E	WM	32	NW SE		21.8	2	Ray Neuschwander	4 1E 32	900 & 1401
4 S	1 E	WM	32	SW SE		31.6	2	Ray Neuschwander	4 1E 32	1401
					TOTAL	152.2				

Measurement, recording and reporting conditions:

A. The water user shall maintain the meter or other suitable measuring device approved by the Director in good working order, shall keep a complete record of the amount of water used each month, and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the water user to report general water-use information, including the place and nature of use of water under the right.

B. The water user shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this right, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interference.

The well(s) shall be maintained in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine the water level elevation in the well at all times.

The Director may require water level or pump test results every ten years.

Failure to comply with any of the provisions of this right may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the right.

This right is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

① Ray Neuschwander well #1

② Ray Neu well #2

③ Ray Gannon well #2

Peer reviewed by Jessica Jones

Looks good!

STATE OF OREGON

COUNTY OF CLACKAMAS

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

RAYMON NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD OR 97032

RAY GANNON
2591 BROOKLAKE RD NE
SALEM OR 97303

confirms the right to the use of water perfected under the terms of Permit G-15646. The amount of water used to which this right is entitled is limited to the amount used beneficially, and shall not exceed the amount specified, or its equivalent in the case of rotation, measured at the point of diversion from the source. The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15567

SOURCE OF WATER: TWO WELLS IN BEAR CREEK BASIN

PURPOSE OR USE: NURSERY USE ON 152.2 ACRES, BEING 54.8 ACRES FROM WELL 1 AND 97.4 ACRES FROM WELL 2

MAXIMUM RATE: 1.19 CUBIC FEET PER SECOND (CFS), BEING FURTHER LIMITED TO 0.70 CFS FROM WELL 1 AND 0.490 CFS FROM WELL 2, NOT TO EXCEED MAXIMUM CUMULATIVE TOTAL OF 1.19 CFS

PERIOD OF USE: YEAR-ROUND

DATE OF PRIORITY: JULY 25, 2001

The wells are located as follows:

Twp	Rng	Mer	Sec	Q-Q	GLot	Measured Distances
4 S	1 E	WM	32	SE NE	4	WELL 1 - 550 FEET NORTH AND 1250 FEET WEST FROM E1/4 CORNER, SECTION 32
4 S	1 E	WM	32	SE NW	2	WELL 2 - 50 FEET NORTH AND 50 FEET WEST FROM C1/4 CORNER, SECTION 32

center cell align ?

The amount of water used for nursery use is limited to a maximum of 5.0 acre-feet per acre and a diversion of 0.15 cubic foot per second per acre. For irrigation of containerized nursery plants, the amount of water diverted is limited to one-fortieth of one cubic foot per second and 5.0 acre-feet per acre per year. For irrigation of in-ground nursery plants the amount of water diverted is limited to one-eightieth of one cubic foot per second and 2.5 acre-feet per acre per year. The use of water for nursery use may be made any time, during the period of allowed use specified above, that the use is beneficial. For irrigation of any other crop, the amount of water diverted is limited to one-eightieth of one cubic foot per second and 2.5 acre-feet per acre during the irrigation season of each year.

usage not on permit (irrigation)

NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW

This is an order in other than a contested case. This order is subject to judicial review under ORS 183.484 and ORS 536.075. Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.484(2). Pursuant to ORS 183.484, ORS 536.075 and OAR 137-004-0080, you may petition for judicial review and petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied. In addition, under ORS 537.260 any person with an application, permit or water right certificate subsequent in priority may jointly or severally contest the issuance of the certificate within three months after issuance of the certificate.

A description of the place of use is as follows:

Twp	Rng	Mer	Sec	Q-Q	GLot	Acres	Well	Owner
4 S	1 E	WM	32	SW NE	3	26.5	1	RAY NEUSCHWANDER
4 S	1 E	WM	32	SW NE	3	2.7	2	RAY NEUSCHWANDER
4 S	1 E	WM	32	SE NE	4	25.2	1	RAY NEUSCHWANDER
4 S	1 E	WM	32	SE NW	2	3.9	2	RAY NEUSCHWANDER
4 S	1 E	WM	32	SE NW	2	14.4	2	RAY GANNON
4 S	1 E	WM	32	NE SW		4.3	2	RAY NEUSCHWANDER
4 S	1 E	WM	32	NE SW		18.7	2	RAY GANNON
4 S	1 E	WM	32	NW SE		3.1	1	RAY NEUSCHWANDER
4 S	1 E	WM	32	NW SE		21.8	2	RAY NEUSCHWANDER
4 S	1 E	WM	32	SW SE		31.6	2	RAY NEUSCHWANDER
					TOTAL	152.2		

tax lot
902
maybe designate tax lots?
owners change more frequently than tax lots
acreage covers more than one tax lot
remove boarder

Measurement, recording and reporting conditions:

A. The water user shall maintain the meter or other suitable measuring device approved by the Director in good working order, shall keep a complete record of the amount of water used each month, and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the water user to report general water-use information, including the place and nature of use of water under the right.

B. The water user shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this right, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interference.

The well(s) shall be maintained in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine the water level elevation in the well at all times.

Where two or more water users agree among themselves as to the manner of rotation in the use of water and such agreement is placed in writing and filed by such water users with the watermaster, and such rotation system does not infringe upon such prior rights of any water user not a party to such rotation plan, the watermaster shall distribute the water according to the agreement.

The Director may require water level or pump test results every ten years.

Failure to comply with any of the provisions of this right may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the right.

This right is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The right to the use of the water for the above purpose is restricted to beneficial use on the place of use described.

Issued _____.

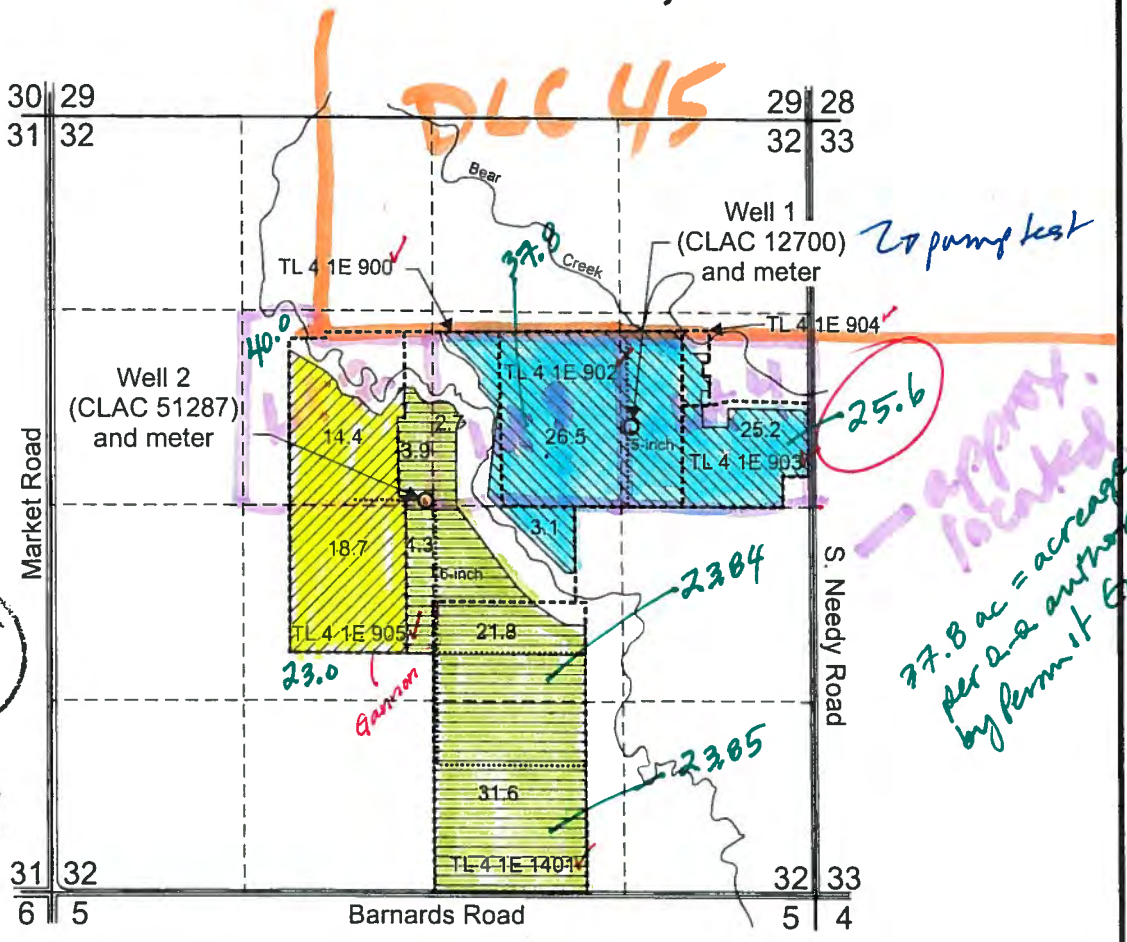
_____
Dwight French
Water Right Services Division Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

DRAFT

CLACKAMAS COUNTY

WORK COPY

T.4S. R.1E. Section 32, W.M.



MAY 19 201

Certified Water Rights Examiner
#432WRE
GREGORY E. KUPILLAS
MAY 14, 1995
STATE OF OREGON

EXPIRATION DATE: 6/30/2017

37.8 ac = acreage per D-R authorized by Permit G-15646

Well 1 (CLAC 12700) and meter are located 550 feet north and 1,250 feet west from the east 1/4 corner, Section 32.

Well 2 (CLAC 51287) and meter are located 50 feet north and 50 feet west from the center 1/4 corner, Section 32.

nursery use?

- Area (54.8 acres) irrigated with Well 1 (CLAC 12700) under application G-15567, Permit G-15646 and assigned to Ray Neuschwander.
- Area (64.3 acres) irrigated with Well 2 (CLAC 51287) under application G-15567, Permit G-15646 and assigned to Ray Neuschwander.
- Area (33.1 acres) irrigated with Well 2 (CLAC 51287) under application G-15567, Permit G-15646 and assigned to Ray Gannon.
- Tax lot boundary
- 5-inch and 6-inch Mainline

N

Scale: 1" = 1,320'

0 1,320 Feet

This map was prepared for the purpose of identifying the location of a water right only and is not intended to provide legal dimensions or location of property ownership lines.

Neuschwander_Gannon.cdr

Pacific Hydro-Geology Inc.

Claim of Beneficial Use Map
Application G-15567, Permit G-15646

Ray Neuschwander and Ray Gannon
T4.S. R.1E. Section 32, W.M.

bgp - 2016

STATE OF OREGON

COUNTY OF CLACKAMAS

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

JOEL NEUSCHWANDER & LEO GENTRY
6097 S WHISKEY HILL RD
HUBBARD, OREGON 97032

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15567

SOURCE OF WATER: TWO WELLS IN BEAR CREEK BASIN

PURPOSE OR USE: NURSERY USE OF 174.09 ACRES.

MAXIMUM RATE: 1.604 CUBIC FEET PER SECOND, BEING 1.114 CFS FROM WELL 1 AND 0.490 CFS FROM WELL 2

PERIOD OF USE: YEAR-ROUND

DATE OF PRIORITY: July 25, 2001

WELL LOCATIONS:

Well 1: SENE, SECTION 32, T 4S, R1E, W.M.;
550 FEET NORTH & 1250 FEET WEST FROM E1/4 CORNER, SECTION 32

Well 2: SENW, SECTION 32, T 4S, R1E, W.M.;
50 FEET NORTH & 50 FEET WEST FROM C1/4 CORNER, SECTION 32

The amount of water used for nursery use is limited to a maximum of 5.0 acre feet per acre and a diversion of 0.15 cubic foot per second per acre. For irrigation of containerized nursery plants, the amount of water diverted is limited to one fortieth of one cubic foot per second and 5.0 acre feet per acre per year. For irrigation of in-ground nursery plants the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre per year. The use of water for nursery use may be made at any time, during the period of allowed use specified above, that the use is beneficial. For irrigation of any other crop, the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SW ¼ NE ¼	37.8 ACRES
SE ¼ NE ¼	25.6 ACRES
SE ¼ NW ¼	40.0 ACRES
NE ¼ SW ¼	23.0 ACRES
NW ¼ SE ¼	23.84 ACRES
SW ¼ SE ¼	23.85 ACRES

SECTION 32
TOWNSHIP 4 SOUTH, RANGE 1 EAST, W.M.

Measurement, recording and reporting conditions:

A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

STANDARD CONDITIONS

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water

level or pump test results every ten years thereafter.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Complete application of the water to the use shall be made on or before October 1, 2008. If the water is not completely applied before this date, and the permittee wishes to continue development under the permit, the permittee must submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE).

Issued January 5th, 2005

Phillip C. Ward, Acting Director
Water Resources Department

Application Map

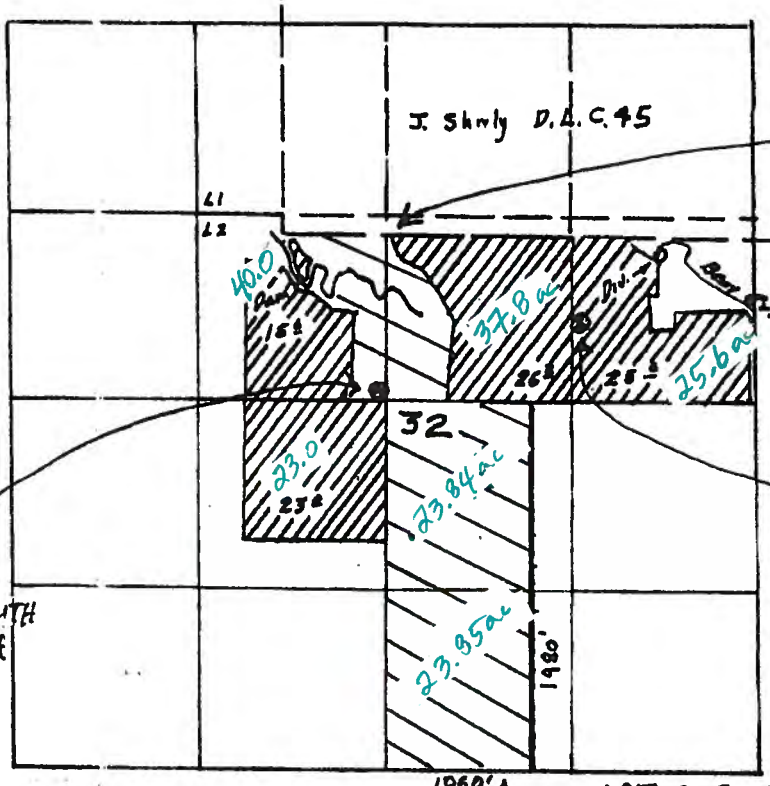
APPLICANT:
JOEL NEUSCHWANDER
6097 S. WHISKEY HILL Rd.
HUBBARD, OR 97032
(503) 651-3253

T. 4 S., R. 1 E., W.M.
SECTION 32

N

1" = 1320'

37.8 ac per Permit



AREA TO BE IRRIGATED IN TAX LOT 900:
13.8 acres in SW¼ NE¼
Plus 24.4 acres in SE¼ NW¼.
TOTAL: 37.4 acres

WELL No. 1 is 1,250' from the EAST LINE of the SECTION (32), AND 550' from the SOUTH LINE of the SE¼ NE¼ Sec. 32.

WELL No. 2 is 50' WEST & 50' SOUTH of the SE CORNER of the NW¼ of SECTION 32.

AREA TO BE IRRIGATED IN TAX LOT 1401:
47.69 acres → 23.845 ac in NW¼ SE¼; AND 23.845 ac. in SW¼ SE¼

Application No. G 15567
Permit No. G 15646

= 89 acres: LANDS IRRIGATED UNDER CERTIFICATE 20401 (PERMIT No. 16827) (APP. No. 21449)

= LANDS TO BE IRRIGATED UNDER PERMIT G-15567 WITH THIS APPLICATION.
85.89 ACRES.

[redacted]

INCLUDING: App. No 21449 Permit No. 16827
IN NAME OF
I. R. Hanson

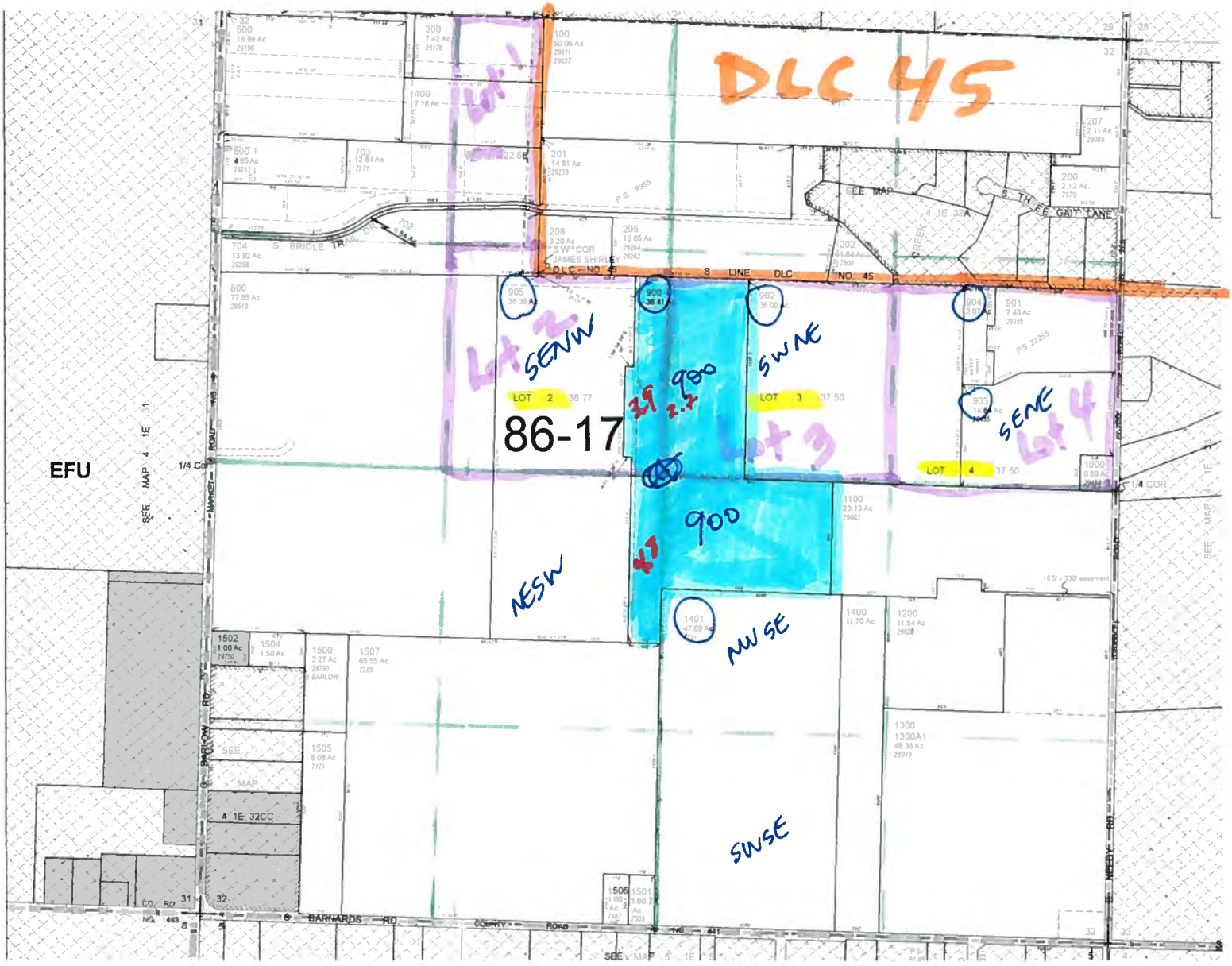
Surveyed July 8 1963 by H. L. Coffman

AND NEW LANDS.

[redacted]

RECEIVED
JUL 25 2001
WATER RESOURCES DEPT
SALEM, OR

copied by LL


DLC 45
86-17
EFU
SENW
SWNE
SENE
NESW
NWSE
SWSE
900
39
2.7
41
LOT 2 38 77
LOT 3 37 50
LOT 4 37 50
S LINE DLC NO 45
S BRIDLE TRAIL DR
S THREE GAIT LANE
BARNARDS RD
PARLOW RD
MARKET RD
SEE MAP 4 1E 32CC
SEE MAP 4 1E 31
1/4 COR

KAVANAGH Kerry L * WRD

From: Property Tax Information <propertytaxinfo@co.clackamas.or.us>
Sent: Monday, November 06, 2017 4:37 PM
To: KAVANAGH Kerry L * WRD
Subject: Re: property in Clackamas County - Section 32, T4S, R1E, W.M.

Map #	Owner	Owner #2	Mailing address
4 1E 32 00900 ✓	NEUSCHWANDER CAROLYN R	NEUSCHWANDER A JOEL	A JOEL NEUSCHWANDER, 6097 S WHISKE 97032
4 1E 32 00902 ✓	NEUSCHWANDER CAROLYN R	NEUSCHWANDER A JOEL	A JOEL NEUSCHWANDER, 6097 S WHISKE 97032
4 1E 32 00903 ✓	NEUSCHWANDER RAYMON J		29385 S NEEDY RD, CANBY, OR 97013
4 1E 32 00904 ✓	NEUSCHWANDER CAROLYN R	NEUSCHWANDER A JOEL	A JOEL NEUSCHWANDER, 6097 S WHISKE 97032
4 1E 32 00905 ✓	GANNON RAYMOND & MARGUERITE		13989 SE 139TH AVE, CLACKAMAS, OR 9
4 1E 32 01401 ✓	NEUSCHWANDER CAROLYN R	NEUSCHWANDER A JOEL	A JOEL NEUSCHWANDER, 6097 S WHISKE 97032

Clackamas County Dept. of Assessment & Taxation/SB
Phone: 503.655.8671 Fax: 503.655.8313
propertytaxinfo@co.clackamas.or.us
150 Beavercreek Road
Oregon City, OR 97045

In keeping with the County's sustainability goals, the County Assessor and Tax Collector's office is open Monday thru Thursday, from 7:00 am to 6:00 pm, and is closed on Friday.

From: KAVANAGH Kerry L * WRD <Kerry.L.Kavanagh@oregon.gov>
Sent: Monday, November 6, 2017 1:13 PM
To: Property Tax Information
Cc: KAVANAGH Kerry L
Subject: property in Clackamas County - Section 32, T4S, R1E, W.M.

Hello,

I am preparing a certificate of water right. I need to confirm the current ownership of lands involved in the water right.

Please provide the name and mailing address for the following parcels:

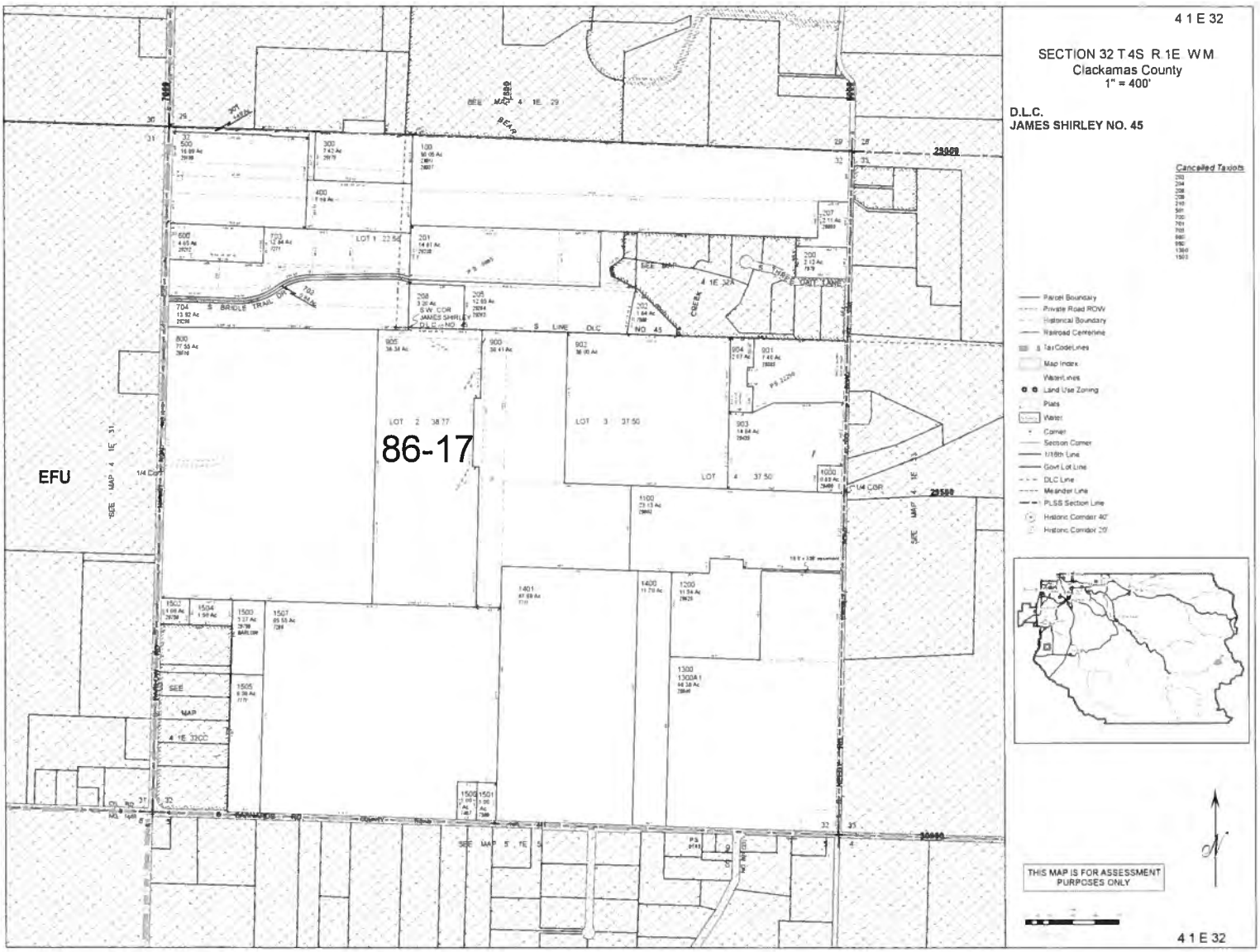
4 1E 32 00900
4 1E 32 00902
4 1E 32 00903
4 1E 32 00904
4 1E 32 00905
4 1E 32 01401

Thanks in advance for your assistance!

Kerry

Kerry Kavanagh | Reimbursement Authority, Certificates, Water Right Services Division

Oregon Water Resources Department | 725 Summer St. NE, Suite A, Salem, Oregon 97301
Voice 503.986.0927 | Fax 503.986.0901
Email: Kerry.L.Kavanagh@oregon.gov Web: http://oregon.gov/ORWD


41E32
SECTION 32 T4S R1E WM
Clackamas County
1" = 400'
D.L.C.
JAMES SHIRLEY NO. 45
Cancelled Taxlots
86-17
EFU
LOT 2 38.77
LOT 3 37.50
LOT 4 37.50
S LINE DLC NO 45
S BRIDLE TRAIL DR
CREEK
SEE MAP 4 1E 31
SEE MAP 4 1E 32A
SEE MAP 4 1E 32C
SEE MAP 5 1E 5
1/4 COR
Parcel Boundary
Private Road ROW
Historical Boundary
Railroad Centerline
Tax Code Lines
Map Index
Water Lines
Land Use Zoning
Plats
Water
Corner
Section Corner
1/16th Line
Govt Lot Line
DLC Line
Meander Line
PLSS Section Line
Historic Corridor 40'
Historic Corridor 20'
THIS MAP IS FOR ASSESSMENT PURPOSES ONLY
41E32

KAVANAGH Kerry L * WRD

From: KAVANAGH Kerry L * WRD <Kerry.L.Kavanagh@oregon.gov>
Sent: Monday, November 06, 2017 1:13 PM
To: propertytaxinfo@clackamas.us
Cc: KAVANAGH Kerry L
Subject: property in Clackamas County - Section 32, T4S, R1E, W.M.

Hello,

I am preparing a certificate of water right. I need to confirm the current ownership of lands involved in the water right.

Please provide the name and mailing address for the following parcels:

4 1E 32 00900
4 1E 32 00902
4 1E 32 00903
4 1E 32 00904
4 1E 32 00905
4 1E 32 01401

Thanks in advance for your assistance!

Kerry

Kerry Kavanagh | Reimbursement Authority, Certificates, Water Right Services Division
Oregon Water Resources Department | 725 Summer St. NE, Suite A, Salem, Oregon 97301
Voice 503.986.0927 | Fax 503.986.0901
Email: Kerry.L.Kavanagh@oregon.gov Web: http://oregon.gov/ORWD

RA Mailing List for Certificate

Scheduled Mailing Date:

Copies Mailed

by: _____
(STAFF)

on: _____
(DATE)

Application: G-15567

Permit: G-15646

Certificate: PROPOSED

Water Right Holders:

RAYMON NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD OR 97032

RAY GANNON
2591 BROOKLAKE RD NE
SALEM OR 97303

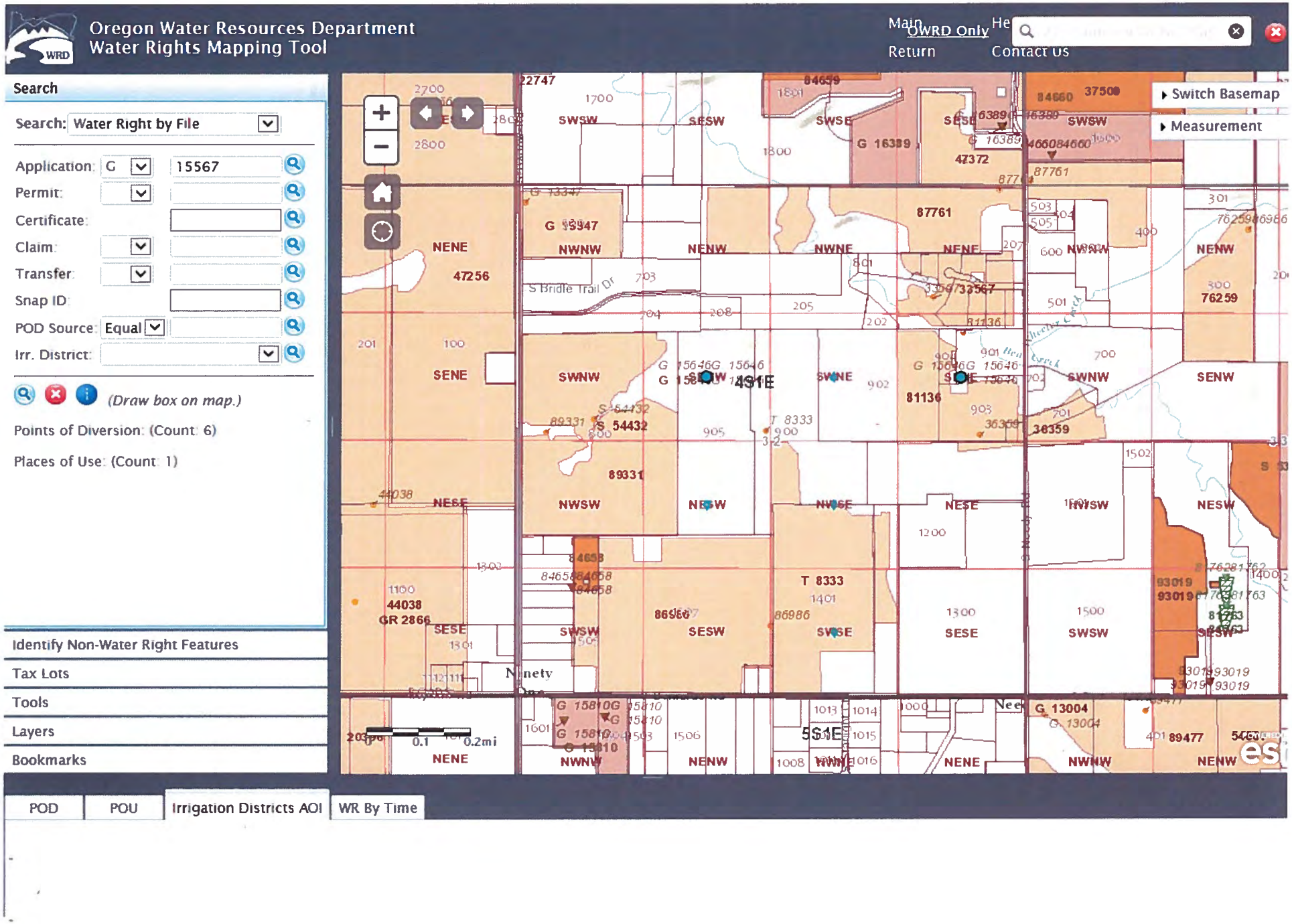
Copies of Final Certificate to be sent to:

1. Watermaster District 16 (include copy of map)
2. Water Availability
3. Vault
4. File

Other persons to receive copies: (include map):

1. Greg Kupillas, CWRE

DRAFT


Oregon Water Resources Department
Water Rights Mapping Tool
Main
OWRD Only
He
Return
Contact Us
Search
Search: Water Right by File
Application: G 15567
Permit:
Certificate:
Claim:
Transfer:
Snap ID:
POD Source: Equal
Irr. District:
(Draw box on map.)
Points of Diversion: (Count: 6)
Places of Use: (Count: 1)
Identify Non-Water Right Features
Tax Lots
Tools
Layers
Bookmarks
Switch Basemap
Measurement
POD
POU
Irrigation Districts AOI
WR By Time
4S1E
5S1E
T 8333
S 54432
G 16389
47372
87761
81136
36359
47256
44038
GR 2866
89331
86986
93019
76259
G 13004
89477
SWSW
SESW
SWSE
SESE
NWSW
NESW
NWSE
NESE
SWNW
SENW
NWNW
NENW
NENE
NENE
0.1
0.2mi

Oregon Water Resources Department
Water Rights Information Query

Permit: G 15646 *

Main Help
Return Contact Us

Contact Information (Click to Collapse...)

Current contact information

OWNER:
LEO GENTRY
6097 S WHISKEY HILL RD
HUBBARD, OR 97032

OWNER:
RAY GANNON
2591 BROOKLAKE RD NE
SALEM, OR 97303

OWNER:
RAYMOND NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD, 97032

Prior contact information

OWNER:
JOEL NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD, OR 97032

Water Right Information (Click to Collapse...)

Status: Non-Cancelled
County: Clackamas
File Folder Location: Salem
Watermaster District: 16

Workflow (Click to Collapse...)

Application: G 15567

Received: 7/25/2001

Application Workflow

Action	Date	Result	Completed By
Application Filed	7/25/2001		JERRY GAINEY
Initial Review	2/1/2002	Propose to Deny	JERRY GAINEY
IR Comment Period	2/19/2002		JERRY GAINEY
Proposed Final Order	4/9/2002	Propose to Deny	JERRY GAINEY
PFO Protest Period	5/24/2002		
Final Order	3/6/2003	Denied	JERRY GAINEY
Final Order	1/5/2005	Issued	JERRY GAINEY
Permit Issued	1/5/2005	Issued	JERRY GAINEY

Permit: G 15646 document , paper map

Signature: 1/5/2005

Permit Workflow

Action	Date	Result	Completed By
Completion Date [C Date]	10/1/2008		
Extension Application Received	6/30/2009		SCOTT KUDLEMYER
Extension Comment Period Ends	7/7/2009		SCOTT KUDLEMYER
Extension PFO 315 Issued	3/23/2010	Propose to Approve	SCOTT KUDLEMYER
Extension PFO Protest Period Ends	5/7/2010		SCOTT KUDLEMYER
Extension FO Issued	5/11/2010	Extended	SCOTT KUDLEMYER
Extended Completion Date [Extension C Date]	10/1/2015		SCOTT KUDLEMYER
CBU Received	5/19/2017		GREGORY KUPILLAS

View right with Web Mapping
View Places of Use from Water Rights in the Same Area
View Reported Water Use

Scanned Documents (Click to Collapse...)

Records per page: 8

Document Type	Document Title	Date	Remarks
Review - Watermaster/Application	WM 16 REVIEW	2/26/2002	
Permit	Permit G15646 Map Image	1/5/2005	
Permit	Permit G15646 Image	1/5/2005	
Order - Extension of Time	Extension of Time	5/11/2010	
Request for Assignment	Request for Assignment	10/3/2016	
Assignment Confirmation	Assignment Confirmation	10/6/2016	
Request for Assignment	Request for Assignment	5/11/2017	
Assignment Confirmation	Assignment Confirmation	5/16/2017	

Point(s) of Diversion (Click to Collapse...)

POD 1 - A WELL > BEAR CREEK

Description
Name: WELL 1
T-R-S-QQ: 4.00S-1.00E-32-SE NE
Location Description: 550 FEET NORTH AND 1250 FEET WEST FROM E1/4 CORNER, SECTION 32

POD Rate

Max Rate (cfs)	Rate (cfs)	Max Volume (af)	Volume (af)
1.114	1.114		

NURSERY USES (Primary)

Priority Date	Max Rate (cfs)	Rate (cfs)	Max Volume (af)	Volume (af)	Elevation (ft)	Rate/Acre	Duty	Start Date	End Date	Remarks
7/25/2001	1.114	0.371(est)				1/40	5.00000	1/1	12/31	CONTAINERIZED
7/25/2001	1.114	0.371(est)				1/80	2.50000	1/1	12/31	IN GROUND
7/25/2001	1.114	0.371(est)				1/80	2.50000	1/1	12/31	ANY OTHER CROP

POD 2 - A WELL > BEAR CREEK

Description
Name: WELL 2
T-R-S-QQ: 4.00S-1.00E-32-SE NW
Location Description: 50 FEET NORTH AND 50 FEET WEST FROM C1/4 CORNER, SECTION 32

POD Rate

Max Rate (cfs)	Rate (cfs)	Max Volume (af)	Volume (af)
0.49	0.49		

NURSERY USES (Primary)

Priority Date	Max Rate (cfs)	Rate (cfs)	Max Volume (af)	Volume (af)	Elevation (ft)	Rate/Acre	Duty	Start Date	End Date	Remarks
7/25/2001	0.49	0.163(est)				1/40	5.00000	1/1	12/31	CONTAINERIZED
7/25/2001	0.49	0.163(est)				1/80	2.50000	1/1	12/31	IN GROUND
7/25/2001	0.49	0.163(est)				1/80	2.50000	1/1	12/31	ANY OHTER CROP

Place(s) of Use (Click to Collapse...)

Add TRS grouping

Use - NURSERY USES

(Primary) - 174.09 acres; Priority Date: 7/25/2001

T-R-S	QQ	DLC	Gov't Lot	Taxlot	Acres	Status	Linked PODs	Inchoate Info	Remarks
4.00S-1.00E-32	SW NE				37.8	NC			
4.00S-1.00E-32	SE NE				25.6	NC			
4.00S-1.00E-32	SE NW				40.0	NC			
4.00S-1.00E-32	NE SW				23.0	NC			
4.00S-1.00E-32	NW SE				23.84	NC			
4.00S-1.00E-32	SW SE				23.85	NC			

Sum of Acres: 174.09

Water Right Genealogy (Click to Collapse...)

App: G 15567
└Permit: G 15646 *

View Water Rights in same Family Report Errors with Water Right Data

Pump Capacity Calculation Sheet

App G-15567, Permit G-15646

using Department designed formula:

2 wells

(hp)(efficiency) / (lift + psi head) = capacity in cfs

Efficiency:

Centrifugal = 6.61
Turbine = 7.04

Data Entry (fill in underlined blanks)

Well 1 (CLAC 12700)

HP =	30
Efficiency =	7.04
Lift =	75
PSI =	90

Results Calculated

(hp)(efficiency) =	211.2
Head based on psi =	228.6
Total dynamic head = (head + lift)	303.6

Pump Capacity = 0.70 feet per second

Pump Capacity Calculation Sheet
using Department designed formula:

App G-15567, Permit G-15646

2 wells

(hp)(efficiency) / (lift + psi head) = capacity in cfs

Efficiency:

Centrifugal = 6.61
Turbine = 7.04

Data Entry (fill in underlined blanks)

Well 2 (CLAC 51287)

HP =	40
Efficiency =	7.04
Lift =	48
PSI =	80

Results Calculated

(hp)(efficiency) =	281.6
Head based on psi =	203.2
Total dynamic head = (head + lift)	251.2

Pump Capacity = 1.12 feet per second

Well 1 & Well 2

Big Gun Sprinkler Capacity Calculator

Data Entry (fill in underlined blanks)

Nozzle size = 1.1 inch in decimals (e.g., 0.5, not 1/2)
Pressure = 80 PSI

Results calculated

Big gun capacity = 316 gpm, or 0.705 cfs

Note: For pressures of 100 psi or higher, this calculator will tend to yield results lower than the tables found in the CWRE manual. If this is the limiting factor when determining proof, refer to the CWRE manual tables.

at well 1
78 heads
1/8"
@ 70 psi

at well 2
125 heads
1/8"
@ 70 psi

Sprinkler Capacity Calculator

Data Entry (fill in underlined blanks)

Sprinkler group 1	Nozzle size =	1/8	inch	(type an apostrophe before the size)
	Pressure =	50	PSI	
	Number of heads =	78		
Sprinkler group 2 (if applicable)	Nozzle size =		inch	(type an apostrophe before the size)
	Pressure =	0	PSI	
	Number of heads =			
Sprinkler group 3 (if applicable)	Nozzle size =		inch	(type an apostrophe before the size)
	Pressure =		PSI	
	Number of heads =			

Results calculated

Sprinkler group 1 capacity =	249.6	gpm, or	0.556 cfs
Sprinkler group 2 capacity =	0	gpm, or	0.000 cfs
Sprinkler group 3 capacity =	0	gpm, or	0.000 cfs
Total sprinkler capacity =	249.6	gpm, or	0.556 cfs

Note: If entered values return a result of 0 gpm or "#N/A", then the sprinkler capacity chart does not contain a rate for that nozzle size and PSI.
A rough alternate calculation can be made using this formula:
28.93 × (orifice size in decimal, squared) × (square root of pressure)
(Source: rainbird.com)

Rainbird Nozzle Size Reference

Nozzle #	Size (in)
4	1/16
5	5/64
6	3/32
7	7/64
8	1/8
9	9/64
10	5/32
11	11/64
12	3/16
13	13/64
14	7/32
15	15/64
16	1/4
17	17/64
18	9/32
20	5/16
22	11/32
24	3/8
26	13/32
28	7/16
30	15/32
32	1/2
34	17/32
36	9/16
40	5/8
44	11/16

at well 1

Sprinkler Capacity Calculator

Data Entry (fill in underlined blanks)

Sprinkler group 1	Nozzle size =	1/8" 0-Jan	inch	(type an apostrophe before the size)
	Pressure =	70 0	PSI	
	Number of heads =	78 0		
Sprinkler group 2 (if applicable)	Nozzle size =		inch	(type an apostrophe before the size)
	Pressure =	0	PSI	
	Number of heads =			
Sprinkler group 3 (if applicable)	Nozzle size =		inch	(type an apostrophe before the size)
	Pressure =		PSI	
	Number of heads =			

Results calculated

Sprinkler group 1 capacity =	0 gpm, or	0.000 cfs
Sprinkler group 2 capacity =	0 gpm, or	0.000 cfs
Sprinkler group 3 capacity =	0 gpm, or	0.000 cfs
Total sprinkler capacity =	0 gpm, or	0.000 cfs

Note: If entered values return a result of 0 gpm or "#N/A", then the sprinkler capacity chart does not contain a rate for that nozzle size and PSI.
A rough alternate calculation can be made using this formula:
28.93 × (orifice size in decimal, squared) × (square root of pressure)
(Source: rainbird.com)

1/8" = 0.125

$28.93 (0.125")^2 \times \sqrt{70}$

$28.93 * 0.015625 \times 8.3666 = 3.78$

Rainbird Nozzle Size Reference

Nozzle #	Size (in)
4	1/16
5	5/64
6	3/32
7	7/64
8	1/8
9	9/64
10	5/32
11	11/64
12	3/16
13	13/64
14	7/32
15	15/64
16	1/4
17	17/64
18	9/32
20	5/16
22	11/32
24	3/8
26	13/32
28	7/16
30	15/32
32	1/2
34	17/32
36	9/16
40	5/8
44	11/16

Sprinkler Capacity Calculator

Data Entry (fill in underlined blanks)

Sprinkler group 1	Nozzle size =	1/8	inch	(type an apostrophe before the size)
	Pressure =	45	PSI	
	Number of heads =	78		
Sprinkler group 2 (if applicable)	Nozzle size =		inch	(type an apostrophe before the size)
	Pressure =	0	PSI	
	Number of heads =			
Sprinkler group 3 (if applicable)	Nozzle size =		inch	(type an apostrophe before the size)
	Pressure =		PSI	
	Number of heads =			

Results calculated

Sprinkler group 1 capacity =	234 gpm, or	0.521 cfs
Sprinkler group 2 capacity =	0 gpm, or	0.000 cfs
Sprinkler group 3 capacity =	0 gpm, or	0.000 cfs
Total sprinkler capacity =	234 gpm, or	0.521 cfs

Note: If entered values return a result of 0 gpm or "#N/A", then the sprinkler capacity chart does not contain a rate for that nozzle size and PSI.
A rough alternate calculation can be made using this formula:
28.93 × (orifice size in decimal, squared) × (square root of pressure)
(Source: rainbird.com)

Rainbird Nozzle Size Reference

Nozzle #	Size (in)
4	1/16
5	5/64
6	3/32
7	7/64
8	1/8
9	9/64
10	5/32
11	11/64
12	3/16
13	13/64
14	7/32
15	15/64
16	1/4
17	17/64
18	9/32
20	5/16
22	11/32
24	3/8
26	13/32
28	7/16
30	15/32
32	1/2
34	17/32
36	9/16
40	5/8
44	11/16

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-15567

Final Order
Extension of Time for Permit Number G-15646

Appeal Rights

This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. A request for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either file for judicial review, or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

Application History

Permit G-15646 was issued by the Department on January 5, 2005. The permit called for complete application of water to beneficial use by October 1, 2008. On June 30, 2009 Joel Neuschwander and Leo Gentry submitted to the Department an Application for Extension of Time for Permit G-15646. In accordance with OAR 690-315-0050(2), on March 23, 2010 the Department issued a Proposed Final Order proposing to extend the time to fully apply water to beneficial use to October 1, 2015. The protest period closed May 7, 2010 in accordance with OAR 690-315-0060(1). No protest was filed.

At time of issuance of the Proposed Final Order the Department concluded that, based on the factors demonstrated by the applicant, the permit may be extended subject to the following conditions:

CONDITIONS

1. **Checkpoint Condition**

The permit holder must submit a completed Progress Report Form to the Department by **October 1, 2013.** ***A form will be enclosed with your Final Order.***

(a) At each checkpoint, the permit holder shall submit and the Department shall review evidence of the permit holder's diligence towards completion of the project and compliance with terms and conditions of the permit and extension. If, after this review, the Department determines the permit holder has not been diligent in developing and perfecting the water use permit, or complied with all terms and conditions, the Department shall modify or further condition the permit or extension to ensure future compliance, or begin cancellation proceedings on the undeveloped portion of the permit pursuant to ORS 537.260 or 537.410, or require submission of a final proof survey pursuant to ORS 537.250;

(b) The Department shall provide notice of receipt of progress reports in its weekly notice and shall allow a 30 day comment period for each report. The Department shall provide notice of its determination to anyone who submitted comments.

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.630, 539.010(5) and OAR 690-315-0040(2).

Order

The extension of time for Application G-15567, Permit G-15646, therefore, is approved subject to conditions contained herein. The deadline for applying water to full beneficial use is extended to October 1, 2015.

DATED: May 11, 2010

Dwight French, Administrator of
Water Rights and Adjudications
for
Phillip C. Ward, Director

- If you have any questions about statements contained in this document, please contact Scott Kudlemyer at (503) 986-0813.

- If you have other questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at (503) 986-0900

Oregon Water Resources Department
Water Rights in the Same Area

NCR

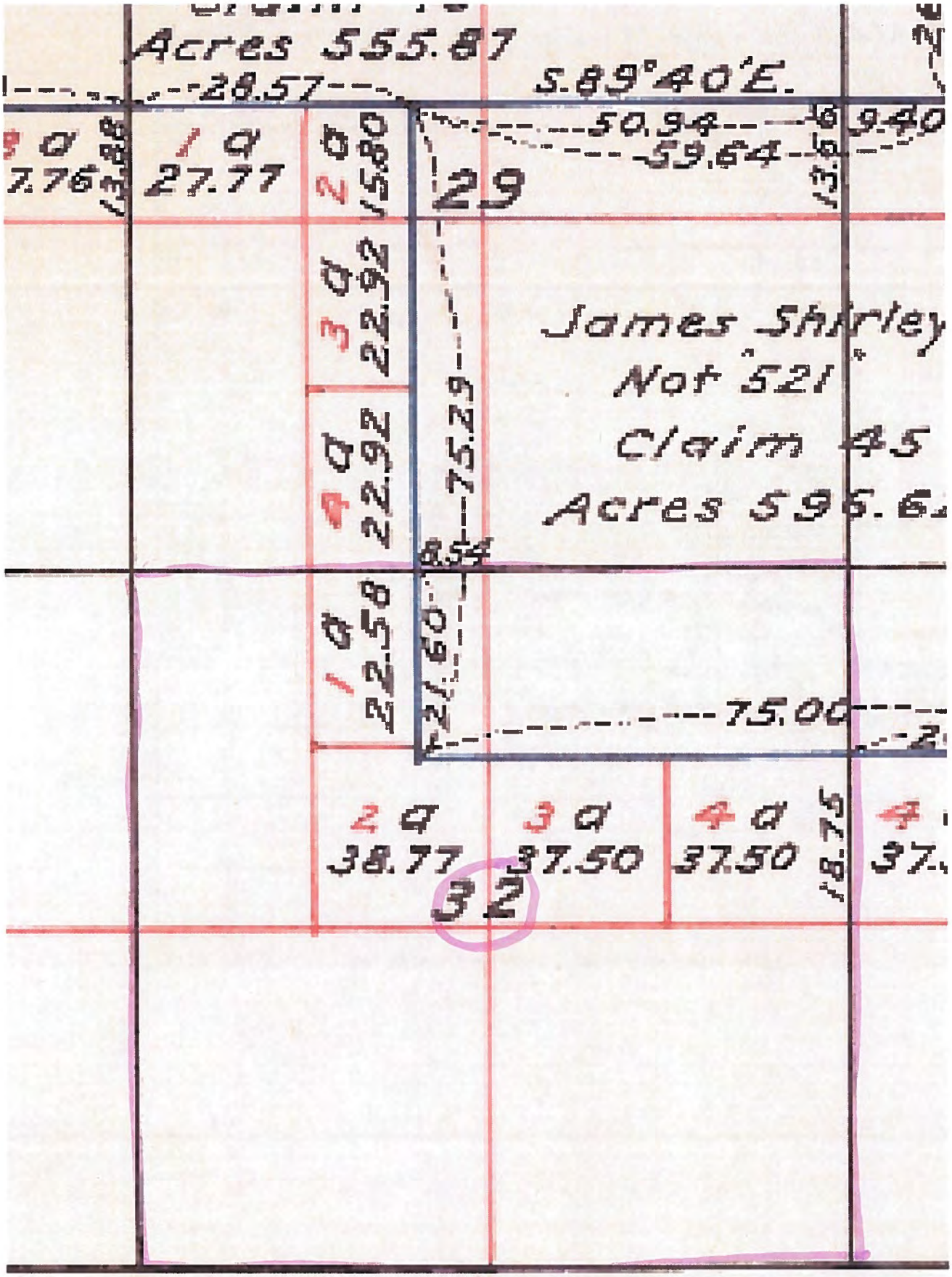
Main Help
Return Contact Us

Places of Use from Water Rights in the Same Area

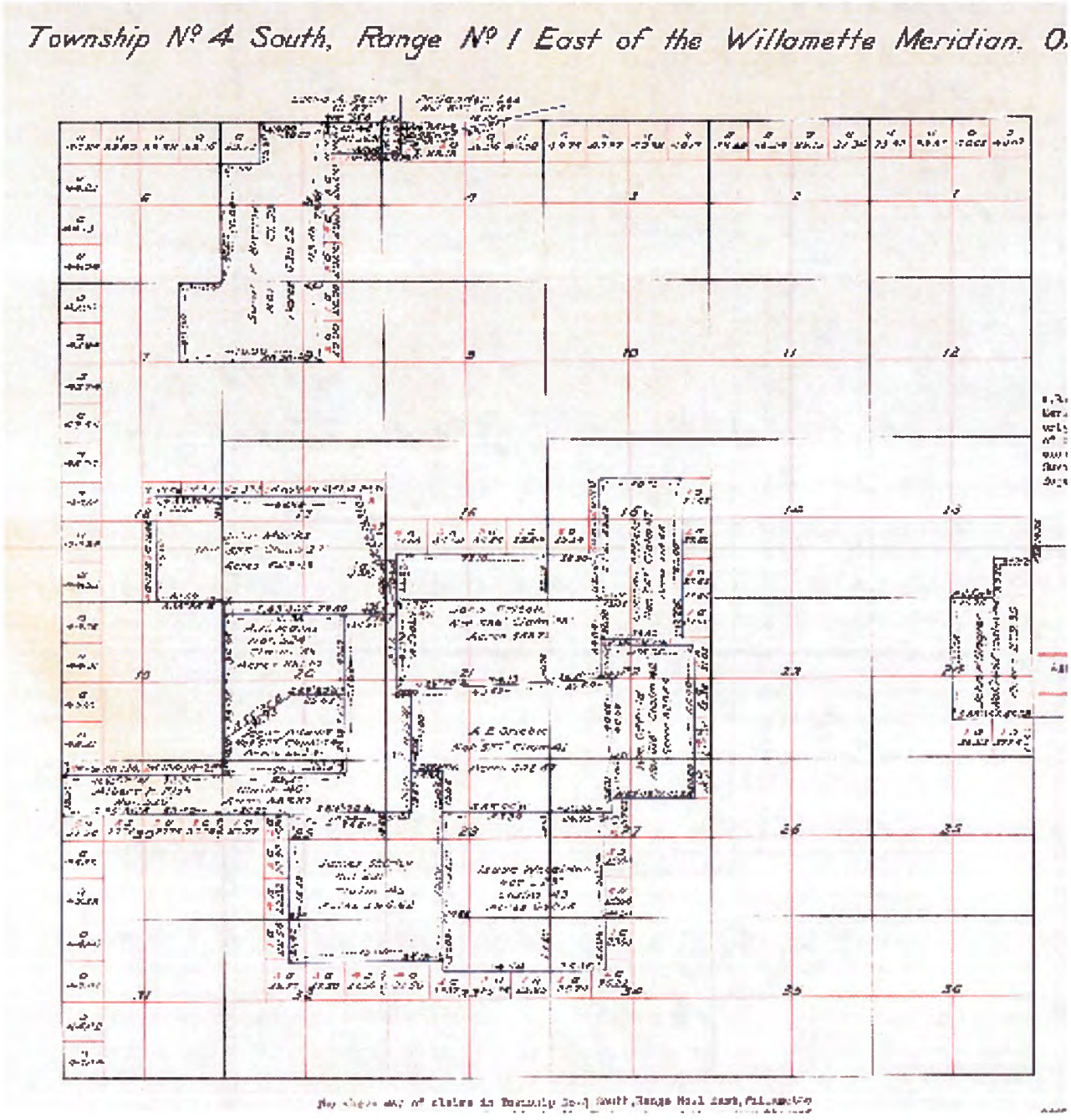
The following rights have acreage in the same quarter-quarter as Permit: G 15646 *

Right	Name	Decree	App	Permit	Cert	Priority	Status	Use	T-R-S-QQ	DLC	Gov't Lot	Acres
INCHOATE: T 8333 CF (REG) *	RAYMON NEUSCHWANDER		G-5629	G-4921		9/23/1971	NC	IR	04.00S-01.00E-32-SWSE			25.4000
								IR	04.00S-01.00E-32-NWSE			19.0000
CERT:86986 RR CR *	TWIN CREEK FARMS		G-5629	G-4921	86986	9/23/1971	NC	IR	04.00S-01.00E-32-NWSE			2.2000
								IR	04.00S-01.00E-32-SWSE			2.4000
								IR	04.00S-01.00E-32-NESW			8.2000
CERT:89331 OR *	GARY POSTLEWAIT		G-13951	G-13012	89331	1/26/1995	NC	IR	04.00S-01.00E-32-NESW			7.8000
								IR	04.00S-01.00E-32-SENW		2	4.3000
APP: P 78128 *	A JOEL NEUSCHWANDER		P-78128			12/20/1994	NC	LV	04.00S-01.00E-32-NWSE			
PERMIT: R 14661 *	RAYMON NEUSCHWANDER		R-87242	R-14661		7/25/2008	NC	MP	04.00S-01.00E-32-SENW			
								MP	04.00S-01.00E-32-SWSE			
CERT:81136 RR *	I HANSON		S-21449	S-16827	81136	3/4/1946	NC	IR	04.00S-01.00E-32-SENE		4	0.8900
CERT:33567 CF *	JOHN & EVELYN PATTERSON		S-25757	S-20153	33567	3/26/1951	NC	IR	04.00S-01.00E-32-SENE	45		1.5000

Portion of Cadastral Survey T4S, R1E, W.M. – 9-30-1924:



Cadastral Survey T4S, R1E, W.M. – 9-30-1924:



Water Use Report Based on Water Right

excel
text

Permit: G 15646 *

GENTRY, LEO 6097 S WHISKEY HILL RD HUBBARD, OR 97032

Records per page: 10

Acre-feet (AF) of Water Used

Water Year*	Report ID	Facility	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Water Used	Irrigated Acres
2014	63378	WELL 1 (PROPOSED)							6.75	10.13	17.49	8.29	17.49	8.59	68.74	
2014	63379	WELL 2 (PROPOSED)							2.46	4.60	5.22	5.22	2.46		19.95	

*The water year is named for the calendar year in which it ends. Example: the 2014 water year begins Oct. 1, 2013 and ends Sep. 30, 2014.

- Water use is reported by point of diversion (POD), rather than by water right.
- If a POD is shared with multiple water rights, it is not feasible to separate out the amount used under the water right being queried from water used by other rights using this same POD.
- Monthly amounts indicate:
  - For diverted rights, the total amount diverted during the month;
  - For storage rights, the amount generally stored in the reservoir/pond during the month, as represented by the volume of water impounded on approximately the same day each month.
- Water Use amounts have all been converted to "acre-feet" (AF), regardless of the original measurement unit reported. One AF is the volume of water that will cover an acre of ground one foot deep = 325,850 gallons.
- Zeroes indicate that a report was received, stating that no water was used during those months; if a year is not listed, no report of water use was received for that year.

Facility Water Use Report


excel
text

WELL 1 (PROPOSED)
Report ID 63378

WELL 1;
550 FEET NORTH AND 1250 FEET WEST FROM E1/4 CORNER, SECTION 32
(4S-1E-32-SE NE)
Permit: G 15646 *
JOEL NEUSCHWANDER

Records per page: 10

Acre-feet (AF) of Water Used

Water Year*	Method of Measurement	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Water Used	Irrigated Acres
2014	FMT							6.75	10.13	17.49	8.29	17.49	8.59	68.74	

*The water year is named for the calendar year in which it ends. Example: the 2014 water year begins Oct. 1, 2013 and ends Sep. 30, 2014.

Method(s) of Measurement:

FMT	Flowmeter (recording monthly readings and then reporting the difference between one month's reading and the next)

- Monthly amounts indicate:
  - For diverted rights, the total amount diverted during the month;
  - For storage rights, the amount generally stored in the reservoir/pond during the month, as represented by the volume of water impounded on approximately the same day each month.
- Water Use amounts have all been converted to "acre-feet" (AF), regardless of the original measurement unit reported. One AF is the volume of water that will cover an acre of ground one foot deep = 325,850 gallons.
- Zeroes indicate that a report was received, stating that no water was used during those months; if a year is not listed, no report of water use was received for that year.

Facility Water Use Report

excel
text

WELL 2 (PROPOSED)
Report ID 63379

WELL 2;
50 FEET NORTH AND 50 FEET WEST FROM C1/4 CORNER, SECTION 32
(4S-1E-32-SE NW)
Permit: G 15646 *
JOEL NEUSCHWANDER

Records per page: 10

Acre-feet (AF) of Water Used

Water Year*	Method of Measurement	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Water Used	Irrigated Acres
2014	FMT							2.46	4.60	5.22	5.22	2.46		19.95	

*The water year is named for the calendar year in which it ends. Example: the 2014 water year begins Oct. 1, 2013 and ends Sep. 30, 2014.

Method(s) of Measurement:

FMT	Flowmeter (recording monthly readings and then reporting the difference between one month's reading and the next)

- Monthly amounts indicate:
  - For diverted rights, the total amount diverted during the month;
  - For storage rights, the amount generally stored in the reservoir/pond during the month, as represented by the volume of water impounded on approximately the same day each month.
- Water Use amounts have all been converted to "acre-feet" (AF), regardless of the original measurement unit reported. One AF is the volume of water that will cover an acre of ground one foot deep = 325,850 gallons.
- Zeroes indicate that a report was received, stating that no water was used during those months; if a year is not listed, no report of water use was received for that year.

Application # G-15567 **Permit # G-15646** **Transfer #**

Ray Neuschwander & Ray Gannon **RA# R12489-17**

Reimbursement Authority Process
Itemized Estimate Sheet
for
Certificates

	Est. Time (hr)	Individual	Hourly Rate	Est. Cost	Date	Act. Time (hr)
1. Review Claim of Beneficial Use report and map	2.00	Kerry	$95	$189	11-6 11-15 1.5 0.25	189
2. Conflict Check	0.50	Kerry	$95	$47	11-6 11-15 0.25 0.25	48
3. Prep of def. letter	0.50	Kerry	$95	$47	11-15 0.5	48
4. Preparation of proposed certificate -	2.00	Kerry	$95	$189	11-7 11-15 1.5 0.75	214
5a. Peer review	0.50	Gerry	$95	$48	11-15 0.25	24
5b. Peer review	0.20	Dwight	$120	$24	12-22 0.2	24
5c. Peer review	0.75	Jessica	$87	$65	11-14 0.5	44
6. Project Management	3.00	Kerry	$95	$284	9-11 11-15 12-6 12-18 12-22 1-8 3-14 0.5 0.5 0.25 0.75 0.75 0.25 0.5 0.75	444
7a. Water right data record update - ownership unknown	0.60	~~Connie~~ support	$60	$35	12-22 0.6	35
7b. Water right data record update	2.25	Data Tech	$58	$131	12-18 1.0	60
Well 2	4.00	GW Staff	$98	$392	10-16 11-1 1.5 1.0	245 ±
Total	**16.30**			**$1,450**		$1375

1450

$75 under
→ REFUND $75

Permit G-15646 issued 1-05-2005 - 1.604 CFS, being 1.114 CFS from Well 1 and 0.490 CFS from Well 2 for NU on
--- C date = 10-1-2008 -- extended until 10-1-2015
--- install & maintain meter, or osmd, keep RECORD, and REPORT
--- no SWL measurements required by permit

WRD received COBU on 5-19-2017 by Greg Kupillas, CWRE
--- COBU shows fewer acres for NU than authorized by Permit G-15646 -- contact agent = Greg Kupillas
--- COBU shows capacity of system at Well 1 (CLAC 12700) is limited to 0.70 CFS - describes 54.8 acres served
--- COBU shows capacity of system at Well 2 (CLAC 51287) exceeds auth rate -and describes 97.4 acres served
---------- COBU shows total acres for NU as 152.2 acres

Certificate 93512 issued 12-22-2017

KAVANAGH Kerry L * WRD

From: Greg Kupillas <phggek@bctonline.com>
Sent: Friday, December 15, 2017 10:36 AM
To: KAVANAGH Kerry L * WRD
Subject: RE: RA Project R12489-17 for Ray Neuschwander & Ray Gannon involving Application G-15567 -- please review draft proposed certificate - also NEED revised map showing Gov't Lots

Kerry,

I have reviewed the proposed certificate and found it to be consistent with the findings in our COBU. I have also received responses from Ray and Ray, and they have both indicated that the draft certificate appears to be correct. Also, I delivered the revised map over the counter last Friday, December 8, so I think we've got the mapping issue addressed.

Please let me know if you need anything else.

Regards,

Greg

From: KAVANAGH Kerry L * WRD [mailto:Kerry.L.Kavanagh@oregon.gov]
Sent: Wednesday, November 15, 2017 4:16 PM
To: Greg Kupillas
Subject: RA Project R12489-17 for Ray Neuschwander & Ray Gannon involving Application G-15567 -- please review draft proposed certificate - also NEED revised map showing Gov't Lots

Hello Greg,

Please find attached to this email the draft proposed certificate for Application G-15567.

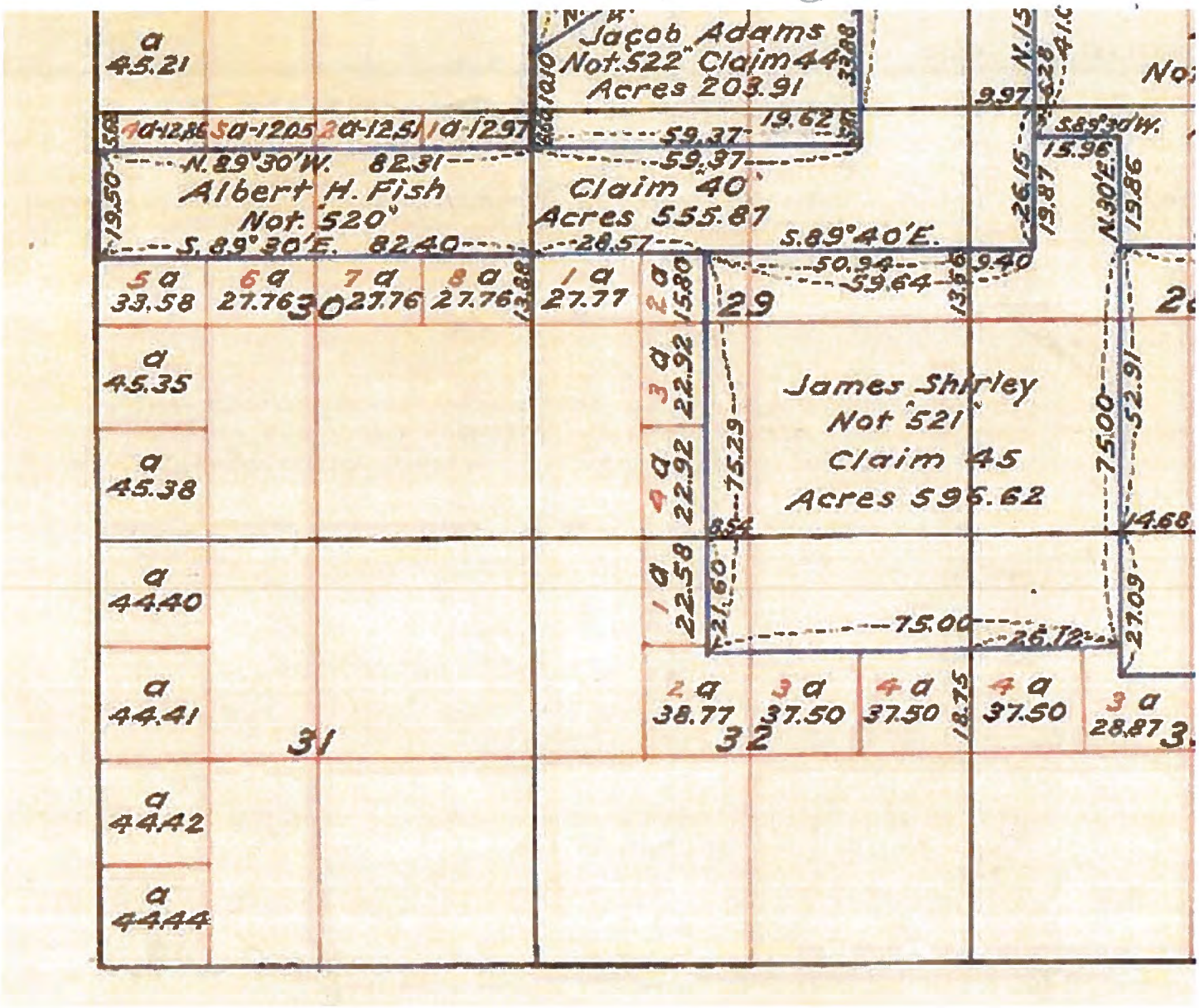
Please review and compare the draft proposed certificate to Permit G-15646 for accuracy and completeness.

For your convenience, here is a link to information regarding Application G-15567 in the Department's Water Rights Information System (WRIS) database:
http://apps.wrd.state.or.us/apps/wr/wrinfo/wr_details.aspx?snp_id=142227
Click on "document" to the right of "Permit G-15646 " to view the permit.

Please provide me your comments or edits, should you have any. If you and the water users agree with the draft proposed certificate and let me know this, then I can proceed to issue the certificate without waiting the standard 60-day notice period.

Also, before I can issue the final certificate, I need a revised map that show the Gov't Lots.

Here is a snapshot of a portion of the Cadastral Survey map dated 1924-09-30 for T4S R1E, W.M.:



Thank you.

Kerry

Kerry Kavanagh | Reimbursement Authority, Certificates, Water Right Services Division

Oregon Water Resources Department | 725 Summer St. NE, Suite A, Salem, Oregon 97301
Voice 503.986.0927 | Fax 503.986.0901
Email: Kerry.L.Kavanagh@oregon.gov Web: http://oregon.gov/OWRD

KAVANAGH Kerry L * WRD

From: Greg Kupillas <phggek@bctonline.com>
Sent: Wednesday, December 06, 2017 12:09 PM
To: KAVANAGH Kerry L * WRD
Subject: FW: RA Project R12489-17 for Ray Neuschwander & Ray Gannon involving Application G-15567 -- please review draft proposed certificate - also NEED revised map showing Gov't Lots

Kerry,

Just to get you up to date: I have still not gotten any feedback from the two Rays, but I just sent them a reminder, so hopefully I will be getting some response soon. I have given them until the 13th to reply, after which I will proceed under the assumption that they have no comments or concerns.

Having looked at the draft certificate myself, I find it to be consistent with our findings in the COBU. I have made the necessary revisions to the COBU map, and am currently planning on bringing it in this Friday.

Regards,

Greg

From: Greg Kupillas [mailto:phggek@bctonline.com]
Sent: Monday, November 20, 2017 11:25 AM
To: 'KAVANAGH Kerry L * WRD'
Subject: RE: RA Project R12489-17 for Ray Neuschwander & Ray Gannon involving Application G-15567 -- please review draft proposed certificate - also NEED revised map showing Gov't Lots

Kerry,

I have forwarded this to the two Rays and asked them for their feedback. In the meantime, I will prepare a revised map and will likely bring that with me when I make my next trip to the Department.

Thanks,

Greg

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Sent: Wednesday, November 15, 2017 4:16 PM
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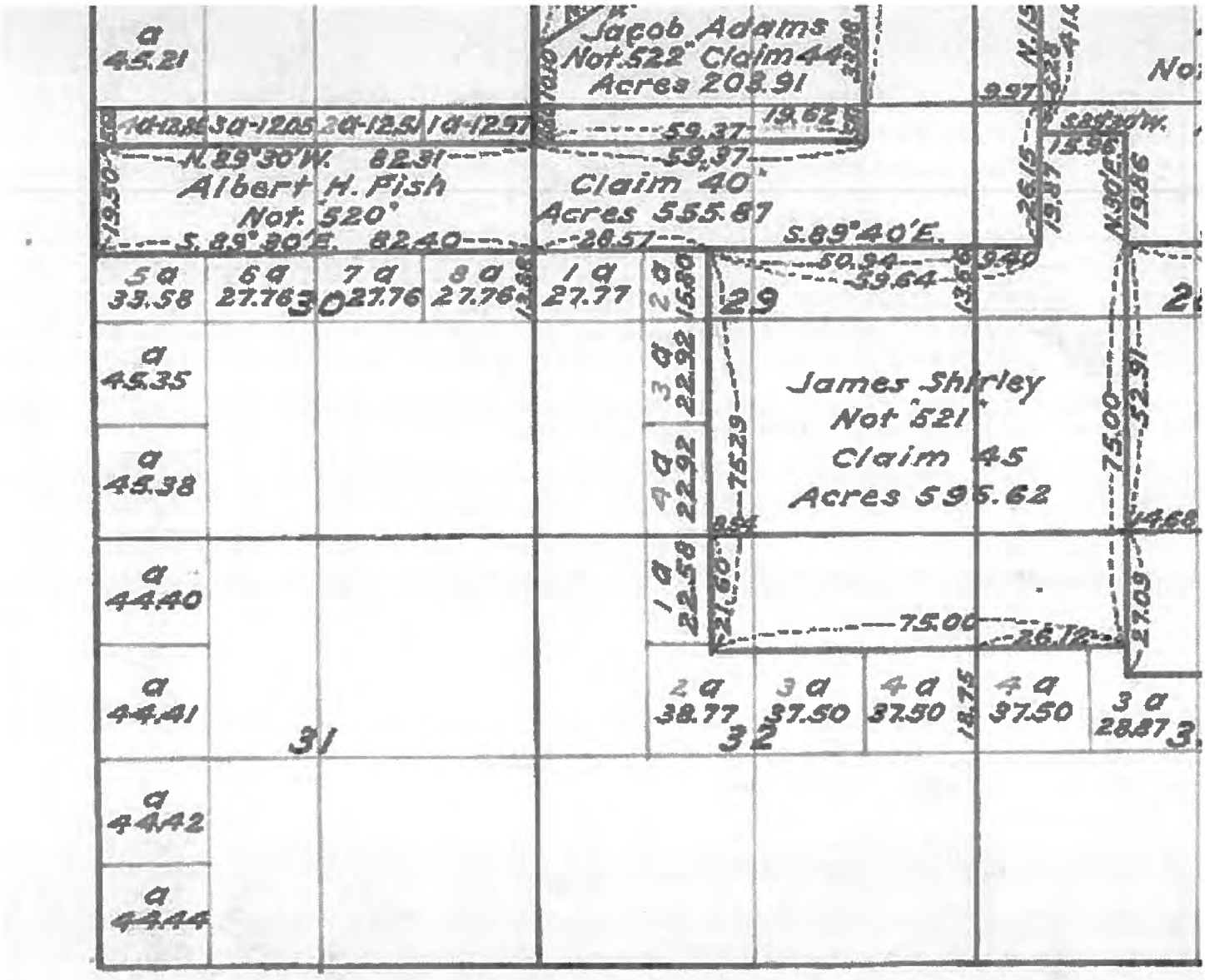
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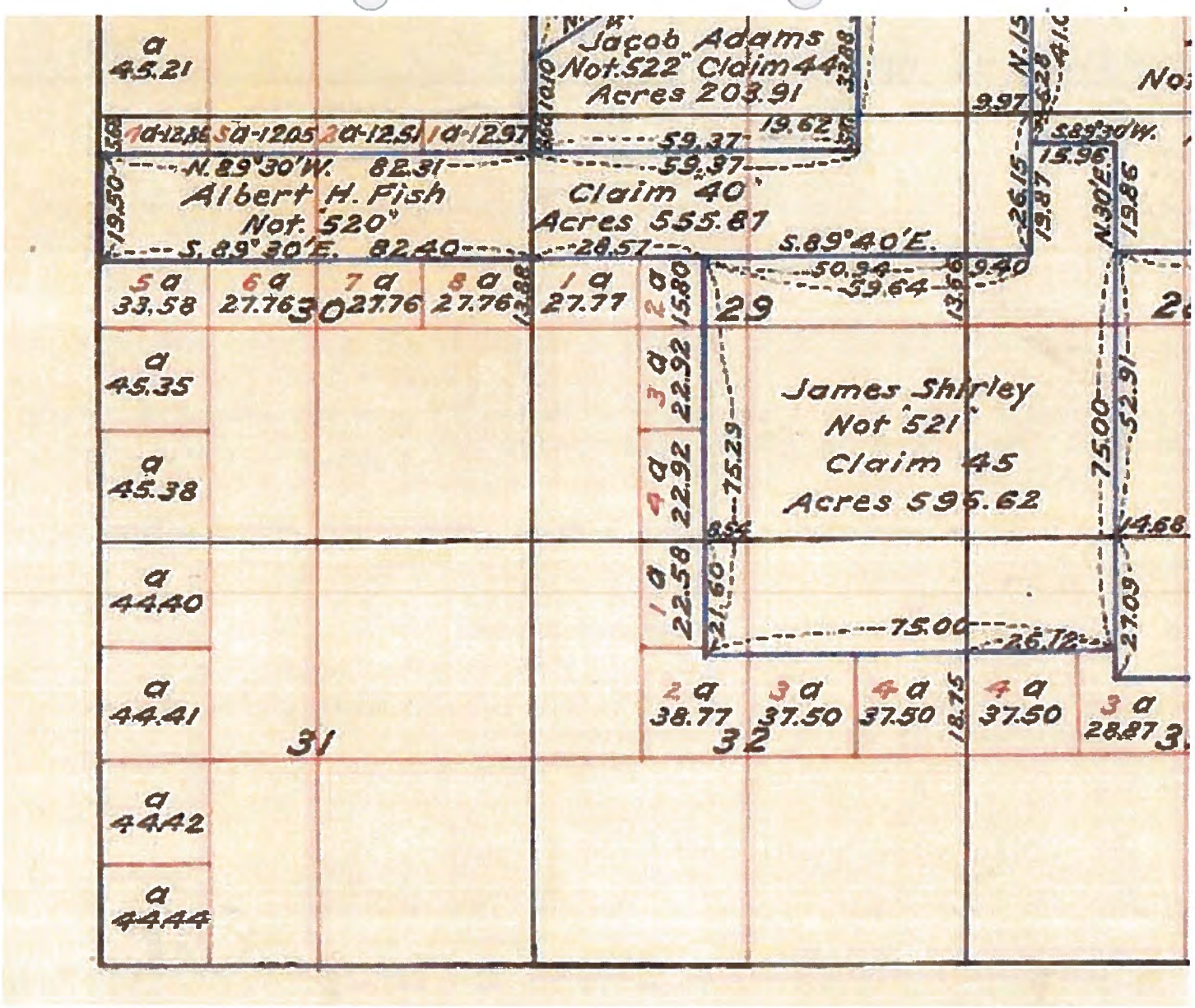
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Thank you.

Kerry

Kerry Kavanagh | Reimbursement Authority, Certificates, Water Right Services Division

Oregon Water Resources Department | 725 Summer St. NE, Suite A, Salem, Oregon 97301
Voice 503.986.0927 | Fax 503.986.0901
Email: Kerry.L.Kavanagh@oregon.gov Web: http://oregon.gov/ORWD

KAVANAGH Kerry L * WRD

From: KAVANAGH Kerry L * WRD
Sent: Wednesday, November 15, 2017 4:16 PM
To: 'Greg Kupillas'
Subject: RA Project R12489-17 for Ray Neuschwander & Ray Gannon involving Application G-15567 -- please review draft proposed certificate - also NEED revised map showing Gov't Lots
Attachments: G-15567-or-prop_DRAFT-2017-11-15.pdf

Hello Greg,

Please find attached to this email the draft proposed certificate for Application G-15567.

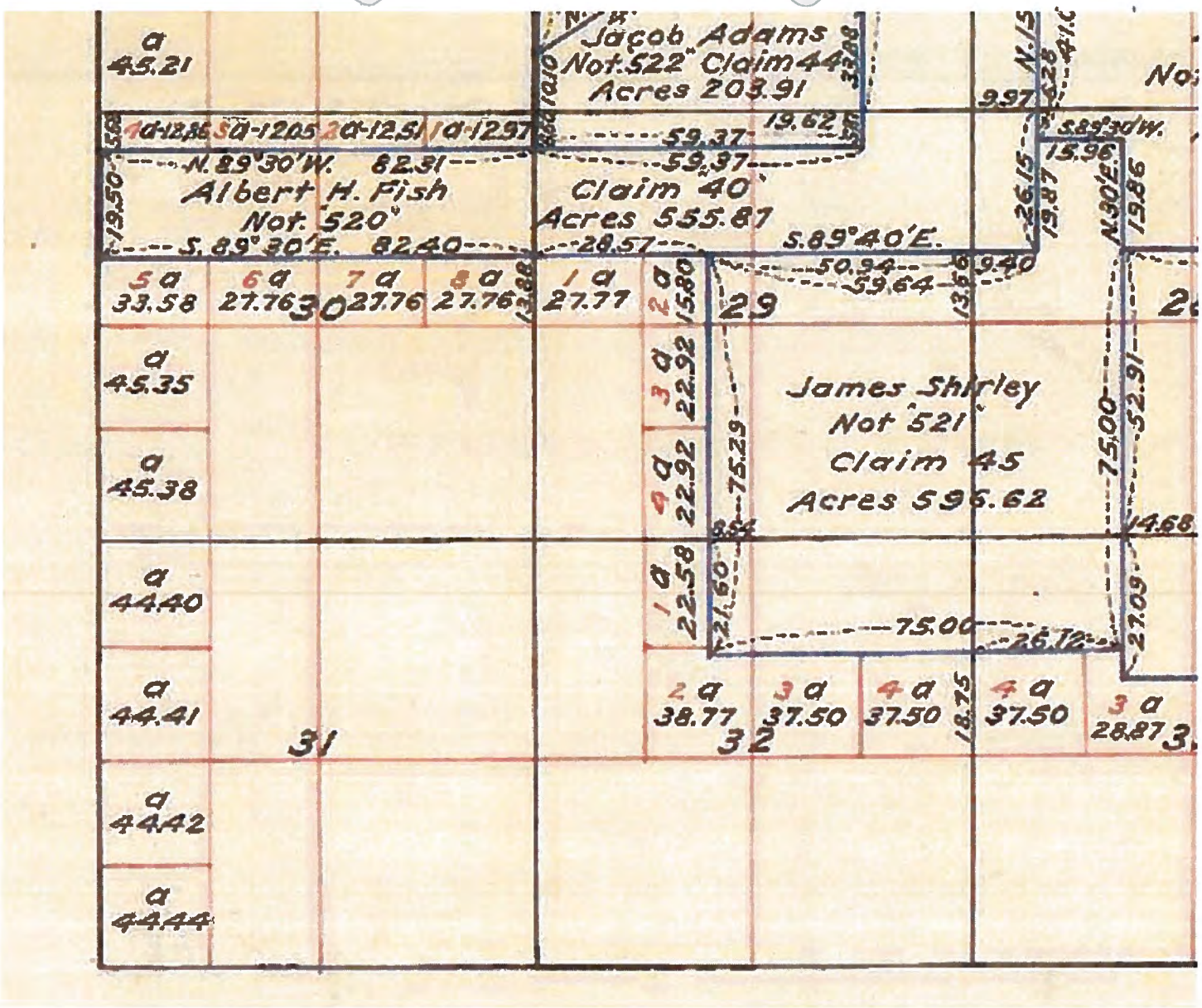
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Oregon Water Resources Department | 725 Summer St. NE, Suite A, Salem, Oregon 97301
Voice 503.986.0927 | Fax 503.986.0901
Email: Kerry.L.Kavanagh@oregon.gov Web: http://oregon.gov/ORWD

STATE OF OREGON

COUNTY OF CLACKAMAS

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

RAY NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD OR 97032

RAY GANNON
2591 BROOKLAKE RD NE
SALEM OR 97303

confirms the right to the use of water perfected under the terms of Permit G-15646. The amount of water used to which this right is entitled is limited to the amount used beneficially, and shall not exceed the amount specified, or its equivalent in the case of rotation, measured at the point of diversion from the source. The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15567

SOURCE OF WATER: TWO WELLS IN BEAR CREEK BASIN

PURPOSE OR USE: NURSERY USE ON 152.2 ACRES, BEING 54.8 ACRES FROM WELL 1 AND 97.4 ACRES FROM WELL 2

MAXIMUM RATE: 1.19 CUBIC FEET PER SECOND (CFS), BEING FURTHER LIMITED TO 0.70 CFS FROM WELL 1 AND 0.49 CFS FROM WELL 2, NOT TO EXCEED MAXIMUM CUMULATIVE TOTAL OF 1.19 CFS

PERIOD OF USE: YEAR-ROUND

DATE OF PRIORITY: JULY 25, 2001

The wells are located as follows:

Twp	Rng	Mer	Sec	Q-Q	GLot	Measured Distances
4 S	1 E	WM	32	SE NE	4	WELL 1 - 550 FEET NORTH AND 1250 FEET WEST FROM E1/4 CORNER, SECTION 32
4 S	1 E	WM	32	SE NW	2	WELL 2 - 50 FEET NORTH AND 50 FEET WEST FROM C1/4 CORNER, SECTION 32

The amount of water used for nursery use is limited to a maximum of 5.0 acre feet per acre and a diversion of 0.15 cubic foot per second per acre. For irrigation of containerized nursery plants, the amount of water diverted is limited to one fortieth of one cubic foot per second and 5.0 acre feet per acre per year. For irrigation of in-ground nursery plants the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre per year. The use of water for nursery use may be made any time, during the period of allowed use specified above, that the use is beneficial. For irrigation of any other crop, the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre during the irrigation season of each year.

NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW

This is an order in other than a contested case. This order is subject to judicial review under ORS 183.484 and ORS 536.075. Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.484(2). Pursuant to ORS 183.484, ORS 536.075 and OAR 137-004-0080, you may petition for judicial review and petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied. In addition, under ORS 537.260 any person with an application, permit or water right certificate subsequent in priority may jointly or severally contest the issuance of the certificate within three months after issuance of the certificate.

Descriptions of the place of use are as follows:

Ray Neuschwander – Well 1						
Twp	Rng	Mer	Sec	Q-Q	GLot	Acres
4 S	1 E	WM	32	SW NE	3	26.5
4 S	1 E	WM	32	SE NE	4	25.2
4 S	1 E	WM	32	NW SE		3.1

Ray Neuschwander – Well 2						
Twp	Rng	Mer	Sec	Q-Q	GLot	Acres
4 S	1 E	WM	32	SW NE	3	2.7
4 S	1 E	WM	32	SE NW	2	3.9
4 S	1 E	WM	32	NE SW		4.3
4 S	1 E	WM	32	NW SE		21.8
4 S	1 E	WM	32	SW SE		31.6

Ray Gannon – Well 2						
Twp	Rng	Mer	Sec	Q-Q	GLot	Acres
4 S	1 E	WM	32	SE NW	2	14.4
4 S	1 E	WM	32	NE SW		18.7

Measurement, recording and reporting conditions:

A. The water user shall maintain the meter or other suitable measuring device approved by the Director in good working order, shall keep a complete record of the amount of water used each month, and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the water user to report general water-use information, including the place and nature of use of water under the right.

B. The water user shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this right, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interference.

The well(s) shall be maintained in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine the water level elevation in the well at all times.

The Director may require water level or pump test results every ten years.

Failure to comply with any of the provisions of this right may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the right.

This right is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The right to the use of the water for the above purpose is restricted to beneficial use on the place of use described.

Issued _____.

_____
Dwight French
Water Right Services Division Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

DRAFT

KAVANAGH Kerry L * WRD

From: KAVANAGH Kerry L * WRD
Sent: Tuesday, July 11, 2017 12:12 PM
To: ray.nnllc@gmail.com; ray@willamettetree.com
Cc: 'Greg Kupillas'
Subject: RA Agreement R12489-17 for Ray Neuschwander and Ray Gannon involving Application G-15567
Attachments: RA contract receipt_G-15567.pdf; RA contract_executed_G-15567.pdf

Hello Mr. Neuschwander and Mr. Gannon,

Attached are copies of the fully executed Applicant's Agreement signed by the required parties and a receipt for the monies paid for these expedited services. The agreement details the terms and conditions that a work order was issued for the expedited services you requested.

If you have any questions, please contact me.

Thanks,
Kerry

Kerry Kavanagh | Reimbursement Authority, Certificates, Water Right Services Division
Oregon Water Resources Department | 725 Summer St. NE, Suite A, Salem, Oregon 97301
Voice 503.986.0927 | Fax 503.986.0901
Email: Kerry.L.Kavanagh@oregon.gov Web: http://oregon.gov/ORWD

OREGON WATER RESOURCES DEPARTMENT

CERTIFICATE REIMBURSEMENT AUTHORITY APPLICANT'S AGREEMENT

Contract Number: **R12489-17**

This Agreement is between the **Oregon Water Resources Department**, hereafter OWRD, and **Ray Neuschwander and Ray Gannon,** hereafter Applicants, hereafter known together as the parties.

OWRD Information
Project Contact: Kerry Kavanagh
Reimbursement Authority

Oregon Water Resources Department
725 Summer Street NE
Salem, OR 97301-1271
Phone: 503-986-0927
Email: Kerry.L.Kavanagh@state.or.us

Applicant's Information
Name: Ray Neuschwander
Address: 6097 S Whiskey Hill Rd
Hubbard, OR 97032
Phone: 503-320-7502
Email: ray.nnlc@gmail.com
Name: Ray Gannon
Address: 2591 Brook Lake Rd NE
Salem, OR 97303
Phone: 503-390-2512
Email: ray@willamettetree.com

Applicant's Representative
Name: Greg Kupillas
Title: Representative

Company: Pacific Hydro-Geology Inc
Address: 18487 S Valley Vista Rd
Mulino, OR 97042
Phone: 503-939-3167
Email: phggek@bctonline.com

1. **Purpose.** The purpose of this Agreement is to expedite the processing of the **Claim of Beneficial Use. (Application Number: G-15567)**

2. **Authority.** ORS 536.055 authorizes the OWRD to enter into a voluntary agreement with any applicant, permittee or regulated entity (collectively Applicant) for expediting or enhancing a regulatory process. In making this agreement, OWRD shall require the applicant to pay the full cost of expedited process.

3. **Restrictions.** Ray Neuschwander and Ray Gannon and OWRD agree that this Agreement shall not be construed to restrict in any way the decisions and actions by OWRD. OWRD shall be free to exercise independent judgment consistent with existing laws and regulations.

4. **Effective Date and Duration.** Unless otherwise terminated by non-deposit of funds by the Applicant, this Agreement shall become effective on the date on which both parties have signed the Agreement and the full deposit of the estimated cost of the proposed service has been received by OWRD.

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6. **Confidentiality.** Ray Neuschwander and Ray Gannon agree that any information provided to or acquired by OWRD under this Agreement will be subject to the Oregon Public Records Law and shall be considered public records.

7. **Indemnity.** Applicants shall defend, save, hold harmless, and indemnify the State of Oregon, OWRD, and their officers, employees, and agents from and against all claims, suits, actions, losses, damages, liabilities, costs and expenses of any nature resulting from or arising out of, or relating to the activities of Applicant or its representatives, officers, employees, contractors, or agents under this Agreement or with respect to the expedited service. The Applicant acknowledges that the Oregon Water Resources Department cannot and does not guarantee a favorable review under the subject regulatory process.

PCA 47126

8. **Termination.** Applicants may request to terminate this agreement only in writing at any time during the process. The Applicants agree to pay for the work done by the Reimbursement Authority personnel up until the time of the written termination request. OWRD, upon receiving such written termination request from the Applicant, will refund any unspent balance after paying the Reimbursement Authority personnel for the work done.

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14. **Signatures.** All parties, by the authorized representative's signature below, hereby acknowledge that they have read this Agreement, understand it and agree to be bound by its terms and conditions.

Applicant: _____
Name: Ray Neuschwander
Title: Owner
Date: _____

Applicant: Ray L. Gannon
Name: Ray Gannon
Title: Owner
Date: 7/6/17

For OWRD: K Kavanagh
Name: Kerry Kavanagh
Water Right Services Division
Date: 7-10-17

Mail signed Agreement to:

Kerry Kavanagh
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271

PCA 47126

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Name: Ray Neuschwander
Title: Owner
Date: 7-6-17

Applicant:
Name: Ray Gannon
Title: Owner
Date:

For OWRD: K Kavanagh
Name: Kerry Kavanagh
Water Right Services Division
Date: 7-10-17

Mail signed Agreement to:

Kerry Kavanagh
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271

RECEIVED BY OWRD

JUL 10 2017

SALEM, OR

From: Ray Neuschwander ray.nnlic@gmail.com
Subject: water rights doc
Date: Jul 6, 2017, 7:26:29 AM
To: tremans157@aol.com

STATE OF OREGON
WATER RESOURCES DEPARTMENT
725 Summer St. N.E. Ste. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

RECEIPT # 123921 INVOICE # _____

RECEIVED FROM: WILLAMETTE TREE WHOLESALE, INC.
BY:

APPLICATION	G-15567
PERMIT	
TRANSFER	

CASH: ☐ CHECK:# ☒ 19588 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D $ 1450.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES 47126 R12489-17 $
0408 OTHER: (IDENTIFY) REIMBURSEMENT AUTHORITY $ 1450.00

0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

4270 WRD OPERATING ACCT

MISCELLANEOUS

0407	COPY & TAPE FEES	$
0410	RESEARCH FEES	$
0408	MISC REVENUE: (IDENTIFY) _____	$
TC162	DEPOSIT LIAB. (IDENTIFY) _____	$
0240	EXTENSION OF TIME	$

WATER RIGHTS:

		EXAM FEE		RECORD FEE
0201	SURFACE WATER	$	0202	$
0203	GROUND WATER	$	0204	$
0205	TRANSFER	$		

WELL CONSTRUCTION

		EXAM FEE		LICENSE FEE
0218	WELL DRILL CONSTRUCTOR	$	0219	$
	LANDOWNER'S PERMIT		0220	$

_____ OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

0211	WELL CONST START FEE	$	CARD #
0210	MONITORING WELLS	$	CARD #

_____ OTHER (IDENTIFY) _____

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

0233	POWER LICENSE FEE (FW/WRD)		$
0231	HYDRO LICENSE FEE (FW/WRD)		$
_____	HYDRO APPLICATION		$

_____ TREASURY OTHER / RDX

FUND _____ TITLE _____
OBJ. CODE _____ VENDOR # _____
DESCRIPTION _____ $

RECEIPT: 123921 DATED: 7-10-17 BY: N Cook

Distribution – White Copy - Customer, Yellow Copy - Fiscal, Blue Copy - File, Buff Copy - Fiscal

OREGON WATER RESOURCES DEPARTMENT

CERTIFICATE REIMBURSEMENT AUTHORITY APPLICANT'S AGREEMENT

Contract Number: **R12489-17**

This Agreement is between the **Oregon Water Resources Department**, hereafter OWRD, and **Ray Neuschwander and Ray Gannon,** hereafter Applicants, hereafter known together as the parties.

OWRD Information
Project Contact: Kerry Kavanagh
Reimbursement Authority

Oregon Water Resources Department
725 Summer Street NE
Salem, OR 97301-1271
Phone: 503-986-0927
Email: Kerry.L.Kavanagh@state.or.us

Applicant's Information
Name: Ray Neuschwander
Address: 6097 S Whiskey Hill Rd
Hubbard, OR 97032
Phone: 503-320-7502
Email: ray.nnlc@gmail.com
Name: Ray Gannon
Address: 2591 Brook Lake Rd NE
Salem, OR 97303
Phone: 503-390-2512
Email: ray@willamettetree.com

Applicant's Representative
Name: Greg Kupillas
Title: Representative

Company: Pacific Hydro-Geology Inc
Address: 18487 S Valley Vista Rd
Mulino, OR 97042
Phone: 503-939-3167
Email: phggek@bctonline.com

1. **Purpose.** The purpose of this Agreement is to expedite the processing of the **Claim of Beneficial Use. (Application Number: G-15567)**

2. **Authority.** ORS 536.055 authorizes the OWRD to enter into a voluntary agreement with any applicant, permittee or regulated entity (collectively Applicant) for expediting or enhancing a regulatory process. In making this agreement, OWRD shall require the applicant to pay the full cost of expedited process.

3. **Restrictions.** Ray Neuschwander and Ray Gannon and OWRD agree that this Agreement shall not be construed to restrict in any way the decisions and actions by OWRD. OWRD shall be free to exercise independent judgment consistent with existing laws and regulations.

4. **Effective Date and Duration.** Unless otherwise terminated by non-deposit of funds by the Applicant, this Agreement shall become effective on the date on which both parties have signed the Agreement and the full deposit of the estimated cost of the proposed service has been received by OWRD.

5. **Consideration.** Ray Neuschwander and Ray Gannon shall pay OWRD in advance for actual costs incurred by OWRD. Ray Neuschwander and Ray Gannon agree to pay the full amount of **$1450** to OWRD prior to commencement of any work stated in this Agreement. This payment will be placed in an account administered by OWRD and drawn upon as costs are actually incurred. If the actual cost of performing the work is less than payments received, OWRD will refund the unspent balance. If the actual cost of processing exceeds the estimate, the Applicant can either elect to terminate this Agreement or amend the Agreement to reflect the increase in cost. The costs stated in this Agreement do not include the statutory application processing and filing fees.

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7. **Indemnity.** Applicants shall defend, save, hold harmless, and indemnify the State of Oregon, OWRD, and their officers, employees, and agents from and against all claims, suits, actions, losses, damages, liabilities, costs and expenses of any nature resulting from or arising out of, or relating to the activities of Applicant or its representatives, officers, employees, contractors, or agents under this Agreement or with respect to the expedited service. The Applicant acknowledges that the Oregon Water Resources Department cannot and does not guarantee a favorable review under the subject regulatory process.

PCA 47126

8. **Termination.** Applicants may request to terminate this agreement only in writing at any time during the process. The Applicants agree to pay for the work done by the Reimbursement Authority personnel up until the time of the written termination request. OWRD, upon receiving such written termination request from the Applicant, will refund any unspent balance after paying the Reimbursement Authority personnel for the work done.

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14. **Signatures.** All parties, by the authorized representative's signature below, hereby acknowledge that they have read this Agreement, understand it and agree to be bound by its terms and conditions.

Applicant: _____
Name: Ray Neuschwander
Title: Owner
Date: _____

Applicant: Ray Gannon
Name: Ray Gannon
Title: Owner
Date: 7/6/17

For OWRD: K Kavanagh
Name: Kerry Kavanagh
Water Right Services Division
Date: 7-10-17

Mail signed Agreement to:

Kerry Kavanagh
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271

PCA 47126

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Date: 7-6-17

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Title: Owner
Date: _____

For OWRD: K Kavanagh
Name: Kerry Kavanagh
Water Right Services Division
Date: 7-10-17

Mail signed Agreement to:

Kerry Kavanagh
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271

RECEIVED BY OWRD

JUL 10 2017

SALEM, OR

From: Ray Neuschwander ray.nnlic@gmail.com
Subject: water rights doc
Date: Jul 6, 2017, 7:26:29 AM
To: tremans157@aol.com

OREGON WATER RESOURCES DEPARTMENT

CERTIFICATE REIMBURSEMENT AUTHORITY ESTIMATE APPLICATION

ORS 536.055 authorizes the Oregon Water Resources Department to expedite or enhance regulatory processes voluntarily requested under the agreement.

The purpose of this application is to obtain estimates of the cost and time required to process a Certificate Request. ***A separate estimate application is required for each application and/or transfer number. There is a non-refundable application fee of $125.00 per request.***

REQUEST	TYPE	FILE NUMBER	
☒	Certificate Request	Application Number	G-15567
		Permit Number	G-15646
		Transfer Number/Permit Amendment (if applicable)	____

	Applicant Information	Applicant's Representative/Contact
Name:	Ray Neuschwander and Ray Gannon	Pacific Hydro-Geology Inc./Greg Kupillas
Address:	6097 S Whiskey Hill Rd/2591 Brook Lake Rd NE	18487 S Valley Vista Rd
	Hubbard, OR 97032/Salem, OR 97303	Mulino, OR 97042
Phone:	503.320.7502/503.390.2512	503.939.3167
Fax:	____	____
E-Mail Address:	ray.nnlc@gmail.com/ray@willamettetree.com	phggek@bctonline.com

I certify that I *(check one)*:

- ○ have previously filed a Claim of Beneficial Use
- ○ am attaching the Claim of Beneficial Use with this request and have included the appropriate claim fee.

I understand the following:

- That upon receipt of my non-refundable application fee in the amount of $ 125.00, OWRD will, within fourteen (14) days, notify me in writing of the estimates of cost and time frame for the expedited service.
- That this fee covers the reimbursement authority staff to evaluate and provide the estimate for processing of the request.
- That upon receiving the estimate I may agree or decline to enter into a formal contract to pay the estimated cost in advance to initiate the expedited service.
- An incomplete or inaccurate Claim of Beneficial Use may delay the process and increase the cost to process my request.
- Expedited processing does not guarantee a favorable review of my request.
- Send completed Application and payment to:

  Oregon Water Resources Department
  Certificate Reimbursement Authority Program
  725 Summer St. NE, Suite A
  Salem, OR 97301-1271

RECEIVED

I certify that I am the *(check one)*:

○ Applicant ● Applicant's Representative ○ Other *(Please Specify)* ____

RECEIVED BY OWRD JUN 05 2017

Name: Gregory E. Kupillas

JUL 10 2017 OWRD

Signature: _____ SALEM, OR

OWRD USE ONLY: Reimbursement Authority Number: R12 489 17 47124

STATE OF OREGON

WATER RESOURCES DEPARTMENT

725 Summer St. N[illegible]e. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

RECEIPT # 123614 INVOICE # _____

RECEIVED FROM: PACIFIC NORTHWEST GEOLOGY, INC

APPLICATION	G15567
PERMIT	
TRANSFER	
TOTAL REC'D	$ 125.00

CASH: ☐ CHECK:# ☑ 5023 OTHER: (IDENTIFY) ☐ _____

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES	47126 R124817	$
0406	OTHER:	(IDENTIFY) REIMBURSEMENT AUTHORITY	$ 125.00

0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

4270 WRD OPERATING ACCT

	MISCELLANEOUS				
0407	COPY & TAPE FEES				$
0410	RESEARCH FEES				$
0408	MISC REVENUE: (IDENTIFY)	_____			$
TC162	DEPOSIT LIAB. (IDENTIFY)	_____			$
0240	EXTENSION OF TIME				$
	WATER RIGHTS:	**EXAM FEE**		**RECORD FEE**	
0201	SURFACE WATER	$	0202	$	
0203	GROUND WATER	$	0204	$	
0205	TRANSFER	$			
	WELL CONSTRUCTION	**EXAM FEE**		**LICENSE FEE**	
0218	WELL DRILL CONSTRUCTOR	$	0219	$	
	LANDOWNER'S PERMIT		0220	$	

_____ OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

0211	WELL CONST START FEE	$	CARD #	
0210	MONITORING WELLS	$	CARD #	

_____ OTHER (IDENTIFY) _____

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

0233	POWER LICENSE FEE (FW/WRD)		$
0231	HYDRO LICENSE FEE (FW/WRD)		$
_____	HYDRO APPLICATION		$

_____ TREASURY OTHER / RDX

FUND _____ TITLE _____
OBJ. CODE _____ VENDOR # _____
DESCRIPTION _____ $ _____

RECEIVED OVER THE COUNTER

RECEIPT: 123614 DATED: 6-5-17 BY: [signature]

Distribution – White Copy - Customer, Yellow Copy - Fiscal, Blue Copy - File, Buff Copy - Fiscal

RECEIVED BY OWRD
JUL 10 2017
SALEM, OR

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RECEIVED BY OWRD

JUL 10 2017

SALEM, OR

STATE OF OREGON

WATER RESOURCES DEPARTMENT

Summer St. N.E. Ste. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

RECEIPT # 123921

INVOICE # _____

RECEIVED FROM: WILLAMETTE TREE WHOLESALE, INC.

BY:

APPLICATION	G-15567
PERMIT	
TRANSFER	

CASH: ☐ CHECK:# ☒ 19588 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D $ 1450.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES 47126 R12489-17 $

0408 OTHER: (IDENTIFY) REIMBURSEMENT AUTHORITY $ 1450.00

0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

4270 WRD OPERATING ACCT

MISCELLANEOUS

0407	COPY & TAPE FEES	$
0410	RESEARCH FEES	$
0408	MISC REVENUE: (IDENTIFY) _____	$
TC162	DEPOSIT LIAB. (IDENTIFY) _____	$
0240	EXTENSION OF TIME	$

WATER RIGHTS:

		EXAM FEE		RECORD FEE
0201	SURFACE WATER	$	0202	$
0203	GROUND WATER	$	0204	$
0205	TRANSFER	$		

WELL CONSTRUCTION

		EXAM FEE		LICENSE FEE
0218	WELL DRILL CONSTRUCTOR	$	0219	$
	LANDOWNER'S PERMIT		0220	$

_____ OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

0211	WELL CONST START FEE	$	CARD #	
0210	MONITORING WELLS	$	CARD #	

_____ OTHER (IDENTIFY) _____

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

0233	POWER LICENSE FEE (FW/WRD)		$
0231	HYDRO LICENSE FEE (FW/WRD)		$
_____	HYDRO APPLICATION		$

_____ TREASURY OTHER / RDX

FUND _____ TITLE _____

OBJ. CODE _____ VENDOR # _____

DESCRIPTION _____ $

RECEIPT: 123921 DATED: 7-10-17 BY: N Cook

Distribution – White Copy - Customer, Yellow Copy - Fiscal, Blue Copy - File, Buff Copy - Fiscal

KAVANAGH Kerry L * WRD

From: Ray <ray@willamettetree.com>
Sent: Wednesday, July 05, 2017 3:47 PM
To: KAVANAGH Kerry L * WRD
Cc: ray.nnllc@gmail.com; Greg Kupillas
Subject: Re: RA Certificate Estimate R12489-17 for Ray Neuschwander and Ray Gannon involving Application G-15567

Kerry, I have printed the documents and will hand carry to Mr Neushwander for his signature. I will forward the document and review fee before the end of the week. Thanks

Ray Gannon / Willamette Tree Wholesale Cell 5037816304. Office 5033902512.
Fax 5033933817
Email treman3157@aol.com

On Jun 28, 2017, at 1:57 PM, KAVANAGH Kerry L * WRD <Kerry.L.Kavanagh@oregon.gov> wrote:

> Hello Mr. Neuschwander and Mr. Gannon,
>
> I was wondering if you have had the opportunity to review the agreement for expedited review of the claim of beneficial use for Application G-15567. Generally, the estimated cost is only valid for 30 days.
>
> Please let me know if you have any questions.
>
> Thank you for your consideration,
> Kerry

From: KAVANAGH Kerry L * WRD
Sent: Wednesday, June 14, 2017 7:38 AM
To: 'ray.nnllc@gmail.com'
Cc: 'Greg Kupillas'
Subject: FW: RA Certificate Estimate R12489-17 for Ray Neuschwander and Ray Gannon involving Application G-15567

Hello Mr. Neuschwander,

Please review the attached agreement for expedited review of the claim of beneficial use for Application G-15567.

Kerry

Kerry Kavanagh | Reimbursement Authority, Certificates, Water Right Services Division
Oregon Water Resources Department | 725 Summer St. NE, Suite A, Salem, Oregon 97301
Voice 503.986.0927 | Fax 503.986.0901
Email: Kerry.L.Kavanagh@oregon.gov Web: http://oregon.gov/ORWD

From: phggek@bctonline.com [mailto:phggek@bctonline.com]
Sent: Tuesday, June 13, 2017 7:09 PM
To: KAVANAGH Kerry L * WRD; ray@willamettetree.com

Subject: Re: RA Certificate Estimate R12489-17 for Ray Neuschwander and Ray Gannon involving Application G-15567

Ray and Ray.

The contract is for processing the certificate for the permit on an expedited basis. This is so we can go forward sooner than later on the transfer to change the well so Ray Gannon can irrigate his portion of this permit with the well located on his property.

Please contact me if you have any questions.

Greg Kupillas

Sent from my Verizon 4G LTE Smartphone

----- Reply message -----
From: "KAVANAGH Kerry L * WRD" <Kerry.L.Kavanagh@oregon.gov>
To: "joel.nnllc@gmail.com" <joel.nnllc@gmail.com>, "ray@willamettetree.com" <ray@willamettetree.com>
Cc: "Greg Kupillas" <phggek@bctonline.com>
Subject: RA Certificate Estimate R12489-17 for Ray Neuschwander and Ray Gannon involving Application G-15567
Date: Mon, Jun 12, 2017 4:00 PM

Sorry, I forgot the attachments....here you go.

Kerry

From: KAVANAGH Kerry L * WRD
Sent: Monday, June 12, 2017 1:50 PM
To: 'joel.nnllc@gmail.com'; 'ray@willamettetree.com'
Cc: 'Greg Kupillas'
Subject: RA Certificate Estimate R12489-17 for Ray Neuschwander and Ray Gannon involving Application G-15567

Hello Mr. Neuschwander and Mr. Gannon,

Please find the attached estimate and agreement to review the claim of beneficial use. If the proposed agreement is acceptable to both of you, please return a copy with both of your signatures to our office along with the payment of the estimated cost to review the claim of beneficial use.

If you have any questions, please call me.

Thanks,
Kerry

Kerry Kavanagh | Reimbursement Authority, Certificates, Water Right Services Division
Oregon Water Resources Department | 725 Summer St. NE, Suite A, Salem, Oregon 97301

Voice 503.986.0927 | Fax 503..986.0901
Email: Kerry.L.Kavanagh@oregon.gov Web: http://oregon.gov/ORWD

KAVANAGH Kerry L * WRD

From: KAVANAGH Kerry L * WRD
Sent: Wednesday, June 28, 2017 1:57 PM
To: 'ray.nnllc@gmail.com'; ray@willamettetree.com
Cc: 'Greg Kupillas'
Subject: RE: RA Certificate Estimate R12489-17 for Ray Neuschwander and Ray Gannon involving Application G-15567

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Please let me know if you have any questions.

Thank you for your consideration,
Kerry

From: KAVANAGH Kerry L * WRD
Sent: Wednesday, June 14, 2017 7:38 AM
To: 'ray.nnllc@gmail.com'
Cc: 'Greg Kupillas'
Subject: FW: RA Certificate Estimate R12489-17 for Ray Neuschwander and Ray Gannon involving Application G-15567

Hello Mr. Neuschwander,

Please review the attached agreement for expedited review of the claim of beneficial use for Application G-15567.

Kerry

Kerry Kavanagh | Reimbursement Authority, Certificates, Water Right Services Division
Oregon Water Resources Department | 725 Summer St. NE, Suite A, Salem, Oregon 97301
Voice 503.986.0927 | Fax 503.986.0901
Email: Kerry.L.Kavanagh@oregon.gov Web: http://oregon.gov/OWRD

From: phggek@bctonline.com [mailto:phggek@bctonline.com]
Sent: Tuesday, June 13, 2017 7:09 PM
To: KAVANAGH Kerry L * WRD; ray@willamettetree.com
Subject: Re: RA Certificate Estimate R12489-17 for Ray Neuschwander and Ray Gannon involving Application G-15567

Ray and Ray.

The contract is for processing the certificate for the permit on an expedited basis. This is so we can go forward sooner than later on the transfer to change the well so Ray Gannon can irrigate his portion of this permit with the well located on his property.

Please contact me if you have any questions.

Greg Kupillas

Sent from my Verizon 4G LTE Smartphone

----- Reply message -----
From: "KAVANAGH Kerry L * WRD" <Kerry.L.Kavanagh@oregon.gov>
To: "joel.nnllc@gmail.com" <joel.nnllc@gmail.com>, "ray@willamettetree.com" <ray@willamettetree.com>
Cc: "Greg Kupillas" <phggek@bctonline.com>
Subject: RA Certificate Estimate R12489-17 for Ray Neuschwander and Ray Gannon involving Application G-15567
Date: Mon, Jun 12, 2017 4:00 PM

Sorry, I forgot the attachments....here you go.

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Sent: Monday, June 12, 2017 1:50 PM
To: 'joel.nnllc@gmail.com'; 'ray@willamettetree.com'
Cc: 'Greg Kupillas'
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From: phggek@bctonline.com
Sent: Tuesday, June 13, 2017 7:34 PM
To: KAVANAGH Kerry L * WRD
Cc: joel nnllc; ray@willamettetree.com
Subject: Re: RA Certificate Estimate R12489-17 for Ray Neuschwander and Ray Gannon involving Application G-15567

Kerry,

As it turns out, Ray Neuschwander no longer uses the joel.nnllc@gmail.com email address. That was his Dad's email address. Ray Neuschwander's current email address is ray.nnllc@gmail.com.

Please re-send the message to Ray Neuschwander at his current email address.

Thanks,

Greg Kupillas

From: "KAVANAGH Kerry L * WRD" <Kerry.L.Kavanagh@oregon.gov>
To: "joel nnllc" <joel.nnllc@gmail.com>, ray@willamettetree.com
Cc: "Greg Kupillas" <phggek@bctonline.com>
Sent: Monday, June 12, 2017 2:00:16 PM
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Email: Kerry.L.Kavanagh@oregon.gov Web: http://oregon.gov/ORWD

OREGON WATER RESOURCES DEPARTMENT

CERTIFICATE REIMBURSEMENT AUTHORITY ESTIMATE APPLICATION

ORS 536.055 authorizes the Oregon Water Resources Department to expedite or enhance regulatory processes voluntarily requested under the agreement.

The purpose of this application is to obtain estimates of the cost and time required to process a Certificate Request. ***A separate estimate application is required for each application and/or transfer number. There is a non-refundable application fee of $125.00 per request.***

REQUEST	TYPE	FILE NUMBER	
☒	Certificate Request	Application Number	G-15567
		Permit Number	G-15646
		Transfer Number/Permit Amendment (if applicable)	____

	Applicant Information	Applicant's Representative/Contact
Name:	Ray Neuschwander and Ray Gannon	Pacific Hydro-Geology Inc./Greg Kupillas
Address:	6097 S Whiskey Hill Rd/2591 Brook Lake Rd NE	18487 S Valley Vista Rd
	Hubbard, OR 97032/Salem, OR 97303	Mulino, OR 97042
Phone:	503.320.7502/503.390.2512	503.939.3167
Fax:	____	____
E-Mail Address:	ray.nnlc@gmail.com/ray@willamettetree.com	phggek@bctonline.com

I certify that I *(check one):*

- ◉ have previously filed a Claim of Beneficial Use
- ○ am attaching the Claim of Beneficial Use with this request and have included the appropriate claim fee.

I understand the following:

- That upon receipt of my non-refundable application fee in the amount of $ 125.00, OWRD will, within fourteen (14) days, notify me in writing of the estimates of cost and time frame for the expedited service.
- That this fee covers the reimbursement authority staff to evaluate and provide the estimate for processing of the request.
- That upon receiving the estimate I may agree or decline to enter into a formal contract to pay the estimated cost in advance to initiate the expedited service.
- An incomplete or inaccurate Claim of Beneficial Use may delay the process and increase the cost to process my request.
- Expedited processing does not guarantee a favorable review of my request.
- Send completed Application and payment to:

  Oregon Water Resources Department
  Certificate Reimbursement Authority Program
  725 Summer St. NE, Suite A
  Salem, OR 97301-1271

RECEIVED
JUN 05 2017
OWRD

I certify that I am the *(check one):*

○ Applicant ◉ Applicant's Representative ○ Other *(Please specify)* ____

Name: Gregory E. Kupillas

Signature: Gregory E. Kupillas

OWRD USE ONLY: Reimbursement Authority Number: R12 489 17 47124

STATE OF OR N

WATER RESOURCES DEPARTMENT

RECEIPT # 123614

725 Summer St. N.E. Ste. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

INVOICE # _____

RECEIVED FROM: PACIFIC HYDRO-GEOLOGY, INC.

BY: _____

APPLICATION	G15567
PERMIT	
TRANSFER	

CASH: ☐ CHECK:# ☒ 5023 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D $ 125.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES	47126 R1248917	$
0406	OTHER:	(IDENTIFY) REIMBURSEMENT AUTHORITY	$ 125.00

0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

4270 WRD OPERATING ACCT

	MISCELLANEOUS				
0407	COPY & TAPE FEES				$
0410	RESEARCH FEES				$
0408	MISC REVENUE: (IDENTIFY)	_____			$
TC162	DEPOSIT LIAB. (IDENTIFY)	_____			$
0240	EXTENSION OF TIME				$
	WATER RIGHTS:	**EXAM FEE**		**RECORD FEE**	
0201	SURFACE WATER	$	0202	$	
0203	GROUND WATER	$	0204	$	
0205	TRANSFER	$			
	WELL CONSTRUCTION	**EXAM FEE**		**LICENSE FEE**	
0218	WELL DRILL CONSTRUCTOR	$	0219	$	
	LANDOWNER'S PERMIT		0220	$	

_____ OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

0211	WELL CONST START FEE	$	CARD #	
0210	MONITORING WELLS	$	CARD #	

_____ OTHER (IDENTIFY) _____

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

0233	POWER LICENSE FEE (FW/WRD)		$
0231	HYDRO LICENSE FEE (FW/WRD)		$
_____	HYDRO APPLICATION		$

____ TREASURY OTHER / RDX

FUND _____ TITLE _____

OBJ. CODE _____ VENDOR # _____

DESCRIPTION _____ $ _____

RECEIVED
OVER THE COUNTER

RECEIPT: 123614 DATED: 6-5-17 BY: _____

Distribution – White Copy - Customer, Yellow Copy - Fiscal, Blue Copy - File, Buff Copy - Fiscal

OREGON WATER RESOURCES DEPARTMENT

CERTIFICATE REIMBURSEMENT AUTHORITY APPLICANT'S AGREEMENT

Contract Number: **R12489-17**

This Agreement is between the **Oregon Water Resources Department,** hereafter OWRD, and **Ray Neuschwander and Ray Gannon,** hereafter Applicants, hereafter known together as the parties.

OWRD Information
Project Contact: Kerry Kavanagh
Reimbursement Authority

Oregon Water Resources Department
725 Summer Street NE
Salem, OR 97301-1271
Phone: 503-986-0927
Email: Kerry.L.Kavanagh@state.or.us

Applicant's Information
Name: Ray Neuschwander
Address: 6097 S Whiskey Hill Rd
Hubbard, OR 97032
Phone: 503-320-7502
Email: ray.nnlc@gmail.com
Name: Ray Gannon
Address: 2591 Brook Lake Rd NE
Salem, OR 97303
Phone: 503-390-2512
Email: ray@willamettetree.com

Applicant's Representative
Name: Greg Kupillas
Title: Representative

Company: Pacific Hydro-Geology Inc
Address: 18487 S Valley Vista Rd
Mulino, OR 97042
Phone: 503-939-3167
Email: phggek@bctonline.com

1. **Purpose.** The purpose of this Agreement is to expedite the processing of the **Claim of Beneficial Use. (Application Number: G-15567)**

2. **Authority.** ORS 536.055 authorizes the OWRD to enter into a voluntary agreement with any applicant, permittee or regulated entity (collectively Applicant) for expediting or enhancing a regulatory process. In making this agreement, OWRD shall require the applicant to pay the full cost of expedited process.

3. **Restrictions.** Ray Neuschwander and Ray Gannon and OWRD agree that this Agreement shall not be construed to restrict in any way the decisions and actions by OWRD. OWRD shall be free to exercise independent judgment consistent with existing laws and regulations.

4. **Effective Date and Duration.** Unless otherwise terminated by non-deposit of funds by the Applicant, this Agreement shall become effective on the date on which both parties have signed the Agreement and the full deposit of the estimated cost of the proposed service has been received by OWRD.

5. **Consideration.** Ray Neuschwander and Ray Gannon shall pay OWRD in advance for actual costs incurred by OWRD. Ray Neuschwander and Ray Gannon agree to pay the full amount of **$1450** to OWRD prior to commencement of any work stated in this Agreement. This payment will be placed in an account administered by OWRD and drawn upon as costs are actually incurred. If the actual cost of performing the work is less than payments received, OWRD will refund the unspent balance. If the actual cost of processing exceeds the estimate, the Applicant can either elect to terminate this Agreement or amend the Agreement to reflect the increase in cost. The costs stated in this Agreement do not include the statutory application processing and filing fees.

6. **Confidentiality.** Ray Neuschwander and Ray Gannon agree that any information provided to or acquired by OWRD under this Agreement will be subject to the Oregon Public Records Law and shall be considered public records.

7. **Indemnity.** Applicants shall defend, save, hold harmless, and indemnify the State of Oregon, OWRD, and their officers, employees, and agents from and against all claims, suits, actions, losses, damages, liabilities, costs and expenses of any nature resulting from or arising out of, or relating to the activities of Applicant or its representatives, officers, employees, contractors, or agents under this Agreement or with respect to the expedited service. The Applicant acknowledges that the Oregon Water Resources Department cannot and does not guarantee a favorable review under the subject regulatory process.

PCA 47126

8. **Termination.** Applicants may request to terminate this agreement only in writing at any time during the process. The Applicants agree to pay for the work done by the Reimbursement Authority personnel up until the time of the written termination request. OWRD, upon receiving such written termination request from the Applicant, will refund any unspent balance after paying the Reimbursement Authority personnel for the work done.

9. **Funds Authorized and Available.** By its execution of this Agreement, Applicants certifies that sufficient funds are authorized and available to cover the expenditures contemplated by this Agreement.

10. **Duration of Estimate.** The Estimate of Time to complete the work is no later than one hundred and twenty days (120) days once this Agreement has been fully executed and payment of the estimated cost deposited. However, this estimate is contingent on the Applicant's expeditious resolution of any deficiency and may be affected by the Department's work load. This Estimate of Time may become null and void after thirty (30) days from the date the Applicant's Agreement is mailed. If the Applicant's Agreement is not received by the Department within thirty (30) days of mailing the Agreement, the Applicant may need to re-apply for a new estimate.

11. **Completion Date.** OWRD, by the execution of this Agreement does not guarantee the completion date indicated in this Agreement. Completion date is only an estimate and may be affected by the Department's workload, issues arising from the processing of the requested services and Applicant's timely response to requests for additional information.

12. **Captions.** The captions or headings in this Agreement are for the convenience only and in no way define limit or describe the scope or intent of any provision of this Agreement.

13. **Amendment and Merger.** The terms of this Agreement shall not be waived, altered, modified, supplemented or amended in any manner whatsoever, except by written instrument signed by both parties. Such waiver, consent, modification or change, if made, shall be effective only in the specific instance and for the specific purpose given. There are no understandings, agreements or representations, oral or written, not specified herein regarding this Agreement.

14. **Signatures.** All parties, by the authorized representative's signature below, hereby acknowledge that they have read this Agreement, understand it and agree to be bound by its terms and conditions.

Applicant: _____
Name: Ray Neuschwander
Title: Owner
Date: _____

Applicant: _____
Name: Ray Gannon
Title: Owner
Date: _____

For OWRD: _____
Name: Kerry Kavanagh
Water Right Services Division
Date: _____

Mail signed Agreement to:

Kerry Kavanagh
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271

PCA 47126

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Title: Owner
Date: _____

For OWRD: _____
Name: Kerry Kavanagh
Water Right Services Division
Date: _____

Mail signed Agreement to:

Kerry Kavanagh
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271

PCA 47126

OREGON WATER RESOURCES DEPARTMENT

CERTIFICATE REIMBURSEMENT AUTHORITY ESTIMATE APPLICATION

ORS 536.055 authorizes the Oregon Water Resources Department to expedite or enhance regulatory processes voluntarily requested under the agreement.

The purpose of this application is to obtain estimates of the cost and time required to process a Certificate Request. ***A separate estimate application is required for each application and/or transfer number. There is a non-refundable application fee of $125.00 per request.***

REQUEST	TYPE	FILE NUMBER	
☒	Certificate Request	Application Number	G-15567
		Permit Number	G-15646
		Transfer Number/Permit Amendment (if applicable)	____

	Applicant Information	Applicant's Representative/Contact
Name:	Ray Neuschwander and Ray Gannon	Pacific Hydro-Geology Inc./Greg Kupillas
Address:	6097 S Whiskey Hill Rd/2591 Brook Lake Rd NE	18487 S Valley Vista Rd
	Hubbard, OR 97032/Salem, OR 97303	Mulino, OR 97042
Phone:	503.320.7502/503.390.2512	503.939.3167
Fax:	____	____
E-Mail Address:	ray.nnlc@gmail.com/ray@willamettetree.com	phggek@bctonline.com

I certify that I *(check one)*:

- ◉ have previously filed a Claim of Beneficial Use
- ○ am attaching the Claim of Beneficial Use with this request and have included the appropriate claim fee.

I understand the following:

- That upon receipt of my non-refundable application fee in the amount of $ 125.00, OWRD will, within fourteen (14) days, notify me in writing of the estimates of cost and time frame for the expedited service.
- That this fee covers the reimbursement authority staff to evaluate and provide the estimate for processing of the request.
- That upon receiving the estimate I may agree or decline to enter into a formal contract to pay the estimated cost in advance to initiate the expedited service.
- An incomplete or inaccurate Claim of Beneficial Use may delay the process and increase the cost to process my request.
- Expedited processing does not guarantee a favorable review of my request.
- Send completed Application and payment to:

  Oregon Water Resources Department
  Certificate Reimbursement Authority Program
  725 Summer St. NE, Suite A
  Salem, OR 97301-1271

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JUN 05 2017
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I certify that I am the *(check one)*:

○ Applicant ◉ Applicant's Representative ○ Other *(Please specify)* ____

Name: Gregory E. Kupillas

Signature: Greg E. Kupillas

OWRD USE ONLY: Reimbursement Authority Number: R12 489 17 47124

STATE OF OREGON

WATER RESOURCES DEPARTMENT

RECEIPT # 123614

725 Summer St. N.E. Ste. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

INVOICE # _____

RECEIVED FROM: PACIFIC HYDRO-GEOLOGY, INC

BY: _____

APPLICATION	G15567
PERMIT	
TRANSFER	
TOTAL REC'D	$ 125.00

CASH: ☐ CHECK:# ☒ 5023 OTHER: (IDENTIFY) ☐ _____

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES	47126 R1248917	$
0408	OTHER:	(IDENTIFY) REIMBURSEMENT AUTHORITY	$ 125.00

0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

4270 WRD OPERATING ACCT

	MISCELLANEOUS				
0407	COPY & TAPE FEES				$
0410	RESEARCH FEES				$
0408	MISC REVENUE: (IDENTIFY)	_____			$
TC162	DEPOSIT LIAB. (IDENTIFY)	_____			$
0240	EXTENSION OF TIME				$
	WATER RIGHTS:	**EXAM FEE**		**RECORD FEE**	
0201	SURFACE WATER	$	0202	$	
0203	GROUND WATER	$	0204	$	
0205	TRANSFER	$			
	WELL CONSTRUCTION	**EXAM FEE**		**LICENSE FEE**	
0218	WELL DRILL CONSTRUCTOR	$	0219	$	
	LANDOWNER'S PERMIT		0220	$	

_____ OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

0211	WELL CONST START FEE	$	CARD #	
0210	MONITORING WELLS	$	CARD #	

_____ OTHER (IDENTIFY) _____

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

0233	POWER LICENSE FEE (FW/WRD)		$
0231	HYDRO LICENSE FEE (FW/WRD)		$
_____	HYDRO APPLICATION		$

____ TREASURY OTHER / RDX

FUND _____ TITLE _____

OBJ. CODE _____ VENDOR # _____

DESCRIPTION _____ $ _____

RECEIVED
OVER THE COUNTER

RECEIPT: 123614 DATED: 6-5-17 BY: JCast

Distribution – White Copy - Customer, Yellow Copy - Fiscal, Blue Copy - File, Buff Copy - Fiscal

Oregon
Kate Brown, Governor

Water Resources Department
North Mall Office Building
725 Summer St NE, Suite A
Salem, OR 97301
Phone (503) 986-0900
Fax (503) 986-0904
www.wrd.state.or.us

May 16, 2017

Raymon J. Neuschwander
6097 Whiskey Hill Rd.
Hubbard, Oregon 97032

Reference: Application G-15567, Permit G-15646

The partial assignment from Joel Neuschwander to Raymon J. Neuschwander has been recorded in the records of the Water Resources Department.

The Departments records will now show Raymon J. Neuschwander and Ray Gannon as the permit holders of record.

Our records have been changed accordingly and the original request is enclosed. Receipt number 123377 covering the recording fee is also enclosed.

A permit is not a perfected water right, and has conditions and timelines that must be satisfied prior to a Certificate of Water Right being issued. Please review the permit to be familiar with the conditions and timelines contained in the permit.

Please note that this permit required complete application of water to the proposed use by October 1, 2015, and within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE). As of this date, the claim of beneficial use has not been received by the Department.

Sincerely,

Jerry Sauter
Water Rights Program Analyst
Water Right Services Division

Enclosure: Receipt 123377

cc: Watermaster 20
Ray Gannon
Data Center, OWRD (cover letter & request)
File

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301
(503) 986-0900
www.wrd.state.or.us

Request for Assignment

If for multiple rights, a separate form and fee for each right will be required.

I. Raymon J. Neuschwander as Agent and attorney-in-fact for A. Joel Neuschander
(Name of Applicant / Permit / Transfer Holder / License Holder/GR Certificate of Registration)

6097 S Whiskey Hill Road	Hubbard	Or	97032	503-320-7502
(Mailing Address)	*(City)*	*(State)*	*(Zip)*	*(Phone #)*

☐ hereby assign ***all my interest*** in and to application/permit/transfer/license/GR Certificate of Registration:

☑ hereby assign ***all my interest*** in and to a portion of application/permit/transfer/license/GR Certificate of Registration; *(You must include a map showing the portion of the application/permit/transfer/license/GR Certificate of Registration to be assigned.)*

☐ hereby assign ***a portion of my interest*** in and to the ***entire*** application/permit/transfer/license/GR Certificate of Registration:

Application # G-15567 ; Permit # G-15646 ; Transfer # _____
-OR-
License # _____ ; GR Statement # _____ ; GR Certificate of Registration # _____

As filed in the office of the Water Resources Director, to:

Raymon J. Neuschwander
(Name of New Owner)

6097 S Whiskey Hill Road	Hubbard	OR	97032	503-320-7502
(Mailing Address)	*(City)*	*(State)*	*(Zip)*	*(Phone #)*

Note: If there are other owners of the property described in the Application, Permit, Transfer, License, or GR Certificate of Registration, *you must provide a list of all other owners' names and mailing addresses and attach it to this form.*

I hereby certify that I have notified all other owners of the property described in this Application, Permit, Transfer, License, or GR Certificate of Registration of this Request for Assignment

Witness my hand this 20 day of April, 2017.

Applicant/Permit Holder _____

Applicant/Permit Holder _____

ASSIGN ARRIVAL
KP 5/16/2017

DO NOT WRITE IN THIS BOX

This certifies assignment and record change at Oregon Water Resources Department effective 8:00 a.m. on date of receipt at Salem, Oregon.
Fee receipt # 123177
For Director by Jerry Sauter, Program Analyst in Water Rights Division

The completed "Request for Assignment" form *must* be submitted to the Department along with the recording fee of $85.

RECEIVED
MAY 11 2017
WR
OWRD

Oregon
Kate Brown, Governor

Water Resources Department
North Mall Office Building
725 Summer St NE, Suite A
Salem, OR 97301
Phone (503) 986-0900
Fax (503) 986-0904
www.wrd.state.or.us

October 6, 2016

Willamette Tree Wholesale, Inc.
5244 SE Castle Rock Ct.
Milwaukie, Oregon 97267

Reference: Application G-15567, Permit G-15646

The partial assignment by proof from Joel Neuschwander to Ray Gannon has been recorded in the records of the Water Resources Department.

The Departments records will now show Joel Neuschwander and Ray Gannon as the permit holder of record.

Our records have been changed accordingly and the original request is enclosed. Receipt number 121502 covering the recording fee is also enclosed.

A permit is not a perfected water right, and has conditions and timelines that must be satisfied prior to a Certificate of Water Right being issued. Please review the permit to be familiar with the conditions and timelines contained in the permit.

Sincerely,

Jerry Sauter
Water Rights Program Analyst
Water Right Services Division

Enclosure: Receipt 121502

cc: Watermaster 20
Joel Neuschwander
[redacted]
Hydrographics
File

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301
(503) 986-0900
www.wrd.state.or.us

Request for Assignment

By Proof of Ownership
(If Water Right Holder is Not Available)

RECEIVED BY OW
OCT 03 2016
SALEM, OR

If for multiple rights, a separate form and fee for each right will be required.

I, Ray Gannon
(Name of Party Requesting Assignment)

5244 SE Castle Rock ct. Milwaukie Or 97267 5037816304
(Mailing Address) (City) (State) (Zip) (Phone #)

☐ hereby request assignment of application/permit/transfer/license/GR Certificate of Registration;

☑ hereby request assignment of a ***portion*** of application/permit/transfer/license/GR Certificate of Registration; *(You must include a map showing the portion of the application/permit/transfer/license/GR Certificate of Registration to be assigned.)*

I have attached proof of ownership that may include but not be limited to: a copy of the deed to the land, a copy of a land sales contract, a court order or decree, documentation of survivorship of property held jointly. The Department cannot accept a copy of a tax statement.

Application # G-15567 ; Permit # G-15646 ; Transfer# _____
-OR-
License # _____ GR Statement # _____ ; GR Certificate of Registration # _____

Leo E Gentry Wholesale Nursery Inc.
(Name of Holder of Record)

11251 SE 232nd ave Gresham OR 97086 5036555161
(Mailing Address) (City) (State) (Zip) (Phone #)

Note: You are required to furnish proof acceptable to the Department that notice of the assignment has been given or attempted for each identified property owner not a party to the assignment. ORS 537.220(2) *Failure to submit this proof will result in the return of your request. (Proof may include but not be limited to: a copy of returned certified mailing, copy of a Death Certificate, or a court order.)*

1) I certify that I am the current owner of the property described in this application, Permit, transfer, license or GR Certificate of Registration.
2) I have the legal right to request assignment under OAR 690-310-0280 and 690-320-0060.
3) I have not been able to contact the owner(s) of record for the above referenced application or water right.
4) I further certify that the information provided herein is true and correct to the best of my knowledge.

Witness my hand this 10 day of Sept, 2016.

Party Requesting Assignment Ray Gan

Party Requesting Assignment _____

ASSIGN AMOUNT BY ACRES 9/14/16 JF

DO NOT WRITE IN THIS BOX

This certifies assignment and record change at Oregon Water Resources Department effective 8.00 a.m. on date of receipt at Salem, Oregon. Fee receipt # 131502
For Director by Jerry Sauter, Program Analyst in Water Rights Division

The completed "Request for Assignment" form *must* be submitted to the Department along with the recording fee of **$85.**

RECEIVED BY OWRD
SEP 15 2016
SALEM, OR

Oregon
Kate Brown, Governor

Water Resources Department
725 Summer St NE, Suite A
Salem, OR 97301
(503) 986-0900
Fax (503) 986-0904

June 1, 2017

Ray Neuschwander
6097 Whiskey Hill Rd
Hubbard OR 97032

On May 19, 2017 the Water Resources Department received the Claim of Beneficial Use (COBU) for the following file(s):

Application G-15567 Permit G-15646

The COBU included a report and map. In the future the Department will review your submittal. At that time we will review these items and provide a final certificate, proposed certificate, or a request for additional information.

If you are interested in having your COBU reviewed sooner, you may pay to have your file processed immediately, using the Reimbursement Authority program, which is described at:
http://www.wrd.state.or.us/OWRD/mgmt_reimbursement_authority.shtml

Customer Service phone: (503) 986-0801

If you sell the property, please contact the Department, or have the new owners contact the Department about the need to file an assignment.

Cc: file
Ray Gannon

Oregon Water Resources Department

PUMP TEST FORM COVER SHEET

Well Owner:
Name: Neuschwanders Nursery
Address: 6097 S Whiskey Hill Rd
County: Clackamas
City: Hubbard OR State: ___ Zip: 97032
Original owner (from well log): _____

Well Location:
Township: ___ ☐ (N/S) Range: ___ ☐ (E/W)
Section: ___ ¼ : ___ 1/16 : ___ 1/64 : ___.
Well depth: _____ Date drilled: _____
Owners well no. (if any): _____
POD ID: _____

Water Right Information:
Application: G-15567 Permit: G-15646 Certificate: _____
Is this well listed on more than one water right? ☐ Yes If yes, list additional water rights below:
Application: _____ Permit: _____ Certificate: _____
Application: _____ Permit: _____ Certificate: _____

Pump Test:
Test Conducted by: Rich Gerig Well Owner? ☐ Yes
Company: Fisher's Supply Inc
Address: 659 SW 1st Ave Date of Test: 02-17-16
City: Canby State: OR Zip: 97013
Daytime phone: 503-263-8557

Method of discharge measurement (see our brochure for acceptable methods): Flow meter McCrometer
Method of water-level measurement (pick one or enter other method used): E-tape
Length of air line (if used): _____.

Pump type (pick one or enter other method used): submersible
Was the pump test conducted during normal use of the well? ☐ Yes Note: No

Are you aware of any wells, other than domestic or stock wells, pumping within 1000 feet of the tested well during the test or within 24 hours prior to the test? ☐ Yes Note: No
If yes, give approximate distances to each and approximate pumping rate of each. If possible, indicate if they were turned on or off during the test: _____

Is there a lake, stream or other surface water body within ¼ mile of the tested well? ☐ Yes If yes, give approximate distance from the well and approximate elevation difference between the surface water and the well head. Approx. distance: _____ ft Approx. elevation difference: _____ ft

Well elevation is below surface water body.

Description of measuring point (e.g. top port of 1 inch port pipe, west side) vent hole well seal

Measuring point distance below land surface 1 feet.

Static water level measurements: (A minimum of three measurements are required in the hour before pumping begins at no less than 20 minutes apart):

Time	Depth to water below meas. point	Depth to water below land surface
9:00	24' 6"	23' 6"
9:30	24' 6"	23' 6"
10:00	24' 6"	23' 6"

Discharge measurements: (A discharge measurement is required at the start of pumping and at least once an hour during the test; additional measurements should be noted on the Pump Test Data Sheet):

Time	Discharge Rate	Discharge Units (e.g. gpm, cfs, etc)
10:00	400	gpm
11:00	400	gpm
12:00	400	gpm
1:00	400	gpm
2:00	400	gpm

Time pump turned on: Date 2-17-16 Time 10:00 am
Time pump turned off: Date 2-17-16 Time 2:00 pm
Total pumping time: 4 hours _____ minutes

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Note: Well must be idle for at least 16 hours prior to the test.
Additional forms can be obtained from our web site at: http://www.wrd.state.or.us OWRD 2/9/2009

Required Signature: _____

04/07/2016 11:50 5032638369 FISHERS SUPPLY INC PAGE 02/03

Oregon Water Resources Department

PUMP TEST DATA SHEET

Application: G-15567 Permit: G-15646 Certificate: _____ Pod_Id: _____

All water-level measurements must either be in feet and inches, or feet and decimal fractions.

Drawdown Data

Recovery Data

Date	Time	Time Since Pump Started (minutes)	Depth to Water Below Measuring Pt	Depth to Water Below Land Surface	Comments	Date	Time	Time Since Pump Stopped (minutes)	Depth to Water Below Measuring Pt	Depth to Water Below Land Surface	Comments
2-17-16	9:00		24' 6"	23' 6"		2-17-16					
	10:00		43'	42'	400 GPM		2:02		35' 6"	34' 6"	
	10:02		43'	42'			2:04		33' 11"	32' 11"	
	10:04		43'	42'			2:06		32' 11"	31' 11"	
	10:06		43' 3"	42' 3"			2:08		32'	31'	
	10:08		43' 6"	42' 6"			2:10		31' 6"	30' 6"	
	10:10		43' 10"	42' 10"			2:15		30' 3"	29' 3"	
	10:15		44' 1"	43' 1"			2:20		29' 8"	28' 8"	
	10:20		44' 6"	43' 6"			2:25		29' 1"	28' 1"	
	10:25		45'	44'	400 gpm		2:30		28' 8"	27' 8"	
	10:30		45' 11"	44' 11"			2:45		27' 7"	26' 7"	
	10:45		47'	46'			3:00		26' 8"	25' 8"	
	11:00		46'	47'			3:15		26' 1"	25' 1"	
	11:15		49'	48'							
	11:30		49'	48'	400 gpm						
	11:45		49'	48'							
	12:00		49'	48'							
	12:15		49'	48'							
	12:30		49'	48'							
	12:45		49'	48'							
	1:00		49'	48'	400 gpm						
	1:15		49'	48'							
	1:30		49'	48'							
	1:45		49'	48'							
	2:00		49'	48'	400 gpm						

Additional forms can be obtained from our web site at: http://www.wrd.state.or.us

OWRD 2/9/2000

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04/07/2016 11:50 5032638369 FISHERS SUPPLY INC PAGE 03/03

Oregon
Kate Brown, Governor

Water Resources Department
North Mall Office Building
725 Summer St NE, Suite A
Salem, OR 97301
Phone (503) 986-0900
Fax (503) 986-0904
www.wrd.state.or.us

May 16, 2017

Raymon J. Neuschwander
6097 Whiskey Hill Rd.
Hubbard, Oregon 97032

Reference: Application G-15567, Permit G-15646

The partial assignment from Joel Neuschwander to Raymon J. Neuschwander has been recorded in the records of the Water Resources Department.

The Departments records will now show Raymon J. Neuschwander and Ray Gannon as the permit holders of record.

Our records have been changed accordingly and the original request is enclosed. Receipt number 123377 covering the recording fee is also enclosed.

A permit is not a perfected water right, and has conditions and timelines that must be satisfied prior to a Certificate of Water Right being issued. Please review the permit to be familiar with the conditions and timelines contained in the permit.

Please note that this permit required complete application of water to the proposed use by October 1, 2015, and within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE). As of this date, the claim of beneficial use has not been received by the Department.

Sincerely,

Jerry Sauter
Water Rights Program Analyst
Water Right Services Division

Enclosure: Receipt 123377

cc: Watermaster 20
Ray Gannon
Data Center, OWRD (cover letter & request)
File

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301
(503) 986-0900
www.wrd.state.or.us

Request for Assignment

If for multiple rights, a separate form and fee for each right will be required.

I, Raymon J. Neuschwander as Agent and attorney-in-fact for A. Joel Neuschander
(Name of Applicant / Permit / Transfer Holder / License Holder/GR Certificate of Registration)

6097 S Whiskey Hill Road | Hubbard | Or | 97032 | 503-320-7502
(Mailing Address) | *(City)* | *(State)* | *(Zip)* | *(Phone #)*

☐ hereby assign ***all my interest*** in and to application/permit/transfer/license/GR Certificate of Registration:

☑ hereby assign ***all my interest*** in and to a portion of application/permit/transfer/license/GR Certificate of Registration; *(You must include a map showing the portion of the application/permit/transfer/license/GR Certificate of Registration to be assigned.)*

☐ hereby assign ***a portion of my interest*** in and to the ***entire*** application/permit/transfer/license/GR Certificate of Registration:

Application # G-15567 ; Permit # G-15646 ; Transfer # _____
-OR-
License # _____ ; GR Statement # _____ ; GR Certificate of Registration # _____

As filed in the office of the Water Resources Director, to:

Raymon J. Neuschwander
(Name of New Owner)

6097 S Whiskey Hill Road | Hubbard | OR | 97032 | 503-320-7502
(Mailing Address) | *(City)* | *(State)* | *(Zip)* | *(Phone #)*

Note: If there are other owners of the property described in the Application, Permit, Transfer, License, or GR Certificate of Registration, *you must provide a list of all other owners' names and mailing addresses and attach it to this form.*

I hereby certify that I have notified all other owners of the property described in this Application, Permit, Transfer, License, or GR Certificate of Registration of this Request for Assignment

Witness my hand this 20 day of April, 2017.

Applicant/Permit Holder _____

Applicant/Permit Holder _____

Assign Agreement 5 of 18 / 2017

DO NOT WRITE IN THIS BOX

This certifies assignment and record change at Oregon Water Resources Department effective 8:00 a.m. on date of receipt at Salem, Oregon.
Fee receipt # 123377
For Director by Jerry Sauter, Program Analyst in Water Rights Division _____

The completed "Request for Assignment" form *must* be submitted to the Department along with the recording fee of **$85.**

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OWRD

Assignment Checklist

Remember, if a certificate has been issued, an ownership update is what is needed.

(Y) N Is the request on the proper form?

(Y) N Is the form completely filled out, name, full or partial assignment. app and permit #'s

(Y) N Does the name of the permit holder match the file ?

(Y) N Form Dated and Signed in ink ?

(Y) N For Simple Assignment is the signature the same as in the file ? if the right is in multiple names, we will need all signatures.

Y (N) If for assignment in Absence of Permit Holder (by Proof) has acceptable proof of ownership been provided ?

(Y) N If for Partial Assignment, is there a map that clearly shows the part to be assigned ?

(Y) N Have the proper fees been included ?

For all assignments that will be returned, please note reason(s) in note section below

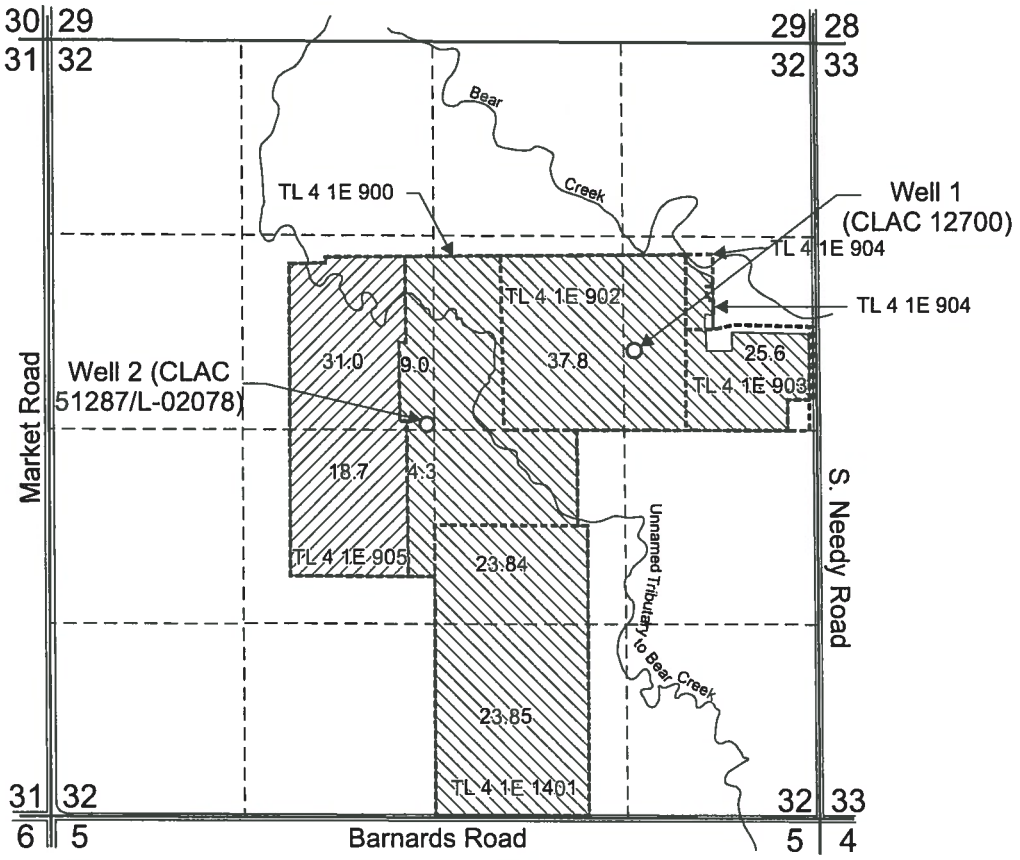
Acceptable Proof of Ownership may include but not be limited to: a copy of the deed to the land, a copy of a land sales contract, a court order or decree, documentation of survivorship of property held jointly. The Department cannot accept a copy of a tax statement.

Notes:

THIS IS NOT HELPFUL WITHOUT INITIALS ☺

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OWRD

T.4S. R.1E. Section 32, W.M.



Well 1 (CLAC 12700) is located 550 feet north and 1,250 feet west from the east 1/4 corner, Section 32.

Well 2 (CLAC 51287/L02078) is located 50 feet north and 50 feet west from the center 1/4 corner, Section 32.

Area (124.39 acres) to be assigned to Ray Neuschwander.

Area (49.7 acres) to be assigned to Ray Gannon.

-------- Tax lot boundary

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N

Scale: 1" = 1,320'

0 1,320 Feet

This map was prepared for the purpose of identifying the location of a water right only and is not intended to provide legal dimensions or location of property ownership lines.

Map to Accompany Request for Assignment
Application G-15567, Permit G-15646

Pacific Hydro-Geology Inc.

T4.S. R.1E. Section 32, W.M.

2016 - bgp

Neuschwander_Gannon.cdr

FINANCIAL POWER OF ATTORNEY

I, A. JOEL NEUSCHWANDER, of Hubbard, Oregon, appoint RAYMON J. NEUSCHWANDER as my Agent and attorney-in-fact ("my Agent"), with power and authority to:

1. Support. Make expenditures for my care, health, education, support, maintenance, and general welfare.

2. Managing and Disposing of Assets. Take possession of, retain, change the form of, manage, maintain, improve, lease, grant options on, encumber, sell, exchange, or otherwise dispose of any of my real or personal property or any interest in property, in any manner and on any terms my Agent considers to be in my best interests.

3. Checks and Notes. Receive, endorse, sign, sell, discount, deliver, and deposit checks, drafts, notes, and negotiable or nonnegotiable instruments, including any drawn on the Treasury of the United States or the state of Oregon or any other state or governmental entity.

4. Financial Institutions. Enter into any transaction with and contract for any services rendered by a financial institution, including continuing, modifying, or terminating existing accounts; opening new accounts; drawing, endorsing, or depositing checks, drafts, and other negotiable instruments; acquiring and transferring certificates of deposit; withdrawing funds deposited in my name alone or in my name and the name of any other person or persons; and providing or receiving financial statements. "Financial institutions" means banks, trust companies, savings banks, commercial banks, savings and loan associations, credit unions, loan companies, thrift institutions, mutual fund companies, investment advisors, brokerage firms, and other similar institutions.

5. Investments and Securities Transactions. Invest and reinvest in common or preferred stocks, bonds, mutual funds, common trust funds, money market accounts, secured and unsecured obligations, mortgages, and other real or personal property; engage in investment transactions with any financial institution; and hold my securities in the name of my Agent's nominee or in unregistered form.

6. Insurance and Annuity Contracts. Purchase, maintain, modify, renew, convert, exchange, borrow against, surrender, cancel, and collect or select payment options under any insurance or annuity contract. Any receipt, release, or other instrument executed by my Agent in connection with any insurance or annuity contract shall be binding and conclusive upon all persons.

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MAY 11 2017
RECEIVED
JAN 22 2015
OWRD
WATER RESOURCES DEPT
SALEM, OREGON

7. Business Interests. Continue, participate in, sell, reorganize, or liquidate any business or other enterprise owned by me, either alone or with any other person or persons.

8. Voting. Appear and vote for me in person or by proxy at any corporate or other meeting.

9. Flower Bonds. Purchase U.S. Treasury bonds redeemable at par in payment of federal estate tax, and borrow funds and pledge the bonds as collateral to make the purchase.

10. Retirement Plans. Establish, modify, contribute to, borrow from, select payment options under, make elections under, receive payments from, make rollovers to, and take any other steps I might take with respect to IRA accounts and other retirement plans.

11. Credit Cards. Cancel or continue my credit cards and charge accounts, use my credit cards to make purchases, and sign charge slips on my behalf.

12. Collections. Demand and collect any money or property owed to me and give a receipt or discharge for the money or property collected.

13. Debts. Pay my debts and other obligations.

14. Litigation. Sue upon, defend, compromise, or submit to arbitration any controversies in which I may be interested; and act in my name in connection with any complaint, proceeding, or suit.

15. Borrowing. Borrow in any manner and on any terms my Agent considers to be in my best interests (including borrowing from my Agent's own funds), and give security for repayment.

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MAY 11 2017
OWRD

16. Lending. Lend funds to any person, provided that the loan is adequately secured and bears a reasonable rate of interest.

17. Taxes and Assessments. Do the following with respect to any tax years: pay any tax or assessment; appear for and represent me, in person or by attorney, in all tax matters; execute any power of attorney forms required by the Internal Revenue Service, the Oregon Department of Revenue, or any other taxing authority; receive confidential information from any taxing authority; prepare, sign, and file federal, state, and local tax returns and reports for all tax matters, including income, gift, estate, inheritance, generation-skipping, sales, business, FICA, payroll, and property tax matters; execute waivers, including waivers of restrictions on assessment or collection of tax deficiencies and waivers of notice of disallowance of a claim for

credit or refund; execute consents, closing agreements, and other documents related to my tax liability; make any elections available under federal or state tax law; and delegate authority or substitute another representative with respect to all matters described in this paragraph.

18. Government Benefits. Perform any act necessary or desirable in order for me to qualify for and receive all types of government benefits, including Medicare, Medicaid, Social Security, veterans', and workers' compensation benefits. The power granted under this paragraph shall include the power to dispose of any property or interest in property by any means (including making gifts or establishing and funding trusts) and the power to name or change beneficiaries under insurance policies, pay-on-death arrangements, retirement plans and accounts, and any other assets, provided that any disposition or designation shall be consistent with my existing estate plan to the extent reasonably possible.

19. Disclaimer. Disclaim any property, interest in property, or power to which I may be entitled; and take all steps required to make the disclaimer effective under state and federal laws, including Section 2518 of the Internal Revenue Code or any successor statute. In deciding whether to disclaim, my Agent shall consider the effect of disclaimer on taxes that may be payable, on qualification for government benefits, and on my existing estate plan.

20. Elective Share Rights. Exercise any right to claim an elective share in any estate or under any Will.

21. Fiduciary Positions. Resign from or renounce on my behalf fiduciary positions, including personal representative, trustee, conservator, guardian, attorney-in-fact, and officer or director of a corporation; and discharge me from further responsibility by filing accountings with a court or settling by formal or informal methods.

22. Safe Deposit Box. Have access to and make deposits to or withdrawals from any safe deposit box rented in my name alone or in my name and the name of any other person or persons.

23. Mail. Redirect my mail.

24. Custody of Documents. Take custody of important documents, including any Will, trust agreements, deeds, life insurance policies, and contracts.

25. Employees and Advisors. Employ, compensate, and discharge attorneys, accountants, investment advisors, property managers, custodians, physicians, dentists, nurses, household help, and others to render services to me or for my benefit.

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OWRD

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JAN 22 2015
WATER RESOURCES DEPT
SALEM, OREGON

26. Gifts. Make gifts and consent to split gifts on my behalf, whether outright, in trust, or in custodianship, to or for the benefit of my lineal descendants and any charitable organizations to which I have contributed.

26.1 Gifts made under this paragraph need not be limited to the amount eligible for exclusion from taxable gifts under Section 2503 of the Internal Revenue Code or any successor statute.

26.2 The power granted under this paragraph shall include the unlimited power to make gifts to or for the benefit of my Agent, my Agent's estate, my Agent's creditors, the creditors of my Agent's estate, or any person whom my Agent has a legal duty to support.

26.3 Gifts made under this paragraph shall be consistent with my existing estate plan to the extent reasonably possible and with the reduction or elimination of estate and inheritance taxes payable by reason of my death.

27. Trusts. Establish a revocable or irrevocable trust, amend or terminate an existing trust, and transfer any of my real or personal property to a trust.

28. Beneficiary Designations. Designate or change beneficiaries under insurance policies, pay-on-death arrangements, retirement plans and accounts, and any other assets, provided that any beneficiary designation shall be consistent with my existing estate plan to the extent reasonably possible. This power includes the power to designate my Agent as a beneficiary.

29. Perform Other Acts to Carry Out the Powers Granted. Execute and deliver any written instrument and perform any other act necessary or desirable to carry out any of the powers granted to my Agent under this power of attorney, as fully as I might do personally. I ratify and confirm all acts performed by my Agent pursuant to this power of attorney.

30. Third Party Reliance. Third parties who rely in good faith on the authority of my Agent under this power of attorney shall not be liable to me, to my estate, or to my heirs, successors, or assigns. Third parties without actual notice of revocation may conclusively rely on the continued validity of this power of attorney. If requested, my Agent shall furnish, and a third party may conclusively rely on, an affidavit or certificate stating that (1) I was competent at the time this power of attorney was executed, (2) the power of attorney has not been revoked, (3) my Agent continues to serve as attorney-in-fact under the power of attorney, and (4) my Agent is acting within the scope of authority granted under the power of attorney. My Agent may sue or pursue other action against any third party who refuses to honor this power of attorney after such an affidavit or certificate has been provided.

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OWRD
RECEIVED
JAN 22 2015
WATER RESOURCES DEPT
SALEM, OREGON

31. Durability. The powers granted to my Agent under this power of attorney shall continue to be exercisable even though I have become disabled or incompetent.

32. Governing Law. The validity and construction of this power of attorney shall be determined under Oregon law.

I have signed this power of attorney this 18 day of March, 2009.

A. JOEL NEUSCHWANDER

STATE OF OREGON)
) ss.
County of Multnomah)

On this 18 day of March, 2009 before me personally appeared A JOEL NEUSCHWANDER and acknowledged to me that he executed this power of attorney freely and voluntarily.

OFFICIAL SEAL
STEVEN R BENNETT
NOTARY PUBLIC-OREGON
COMMISSION NO. 408600
MY COMMISSION EXPIRES OCTOBER 14, 2010

NOTARY PUBLIC for Oregon
My Commission Expires: 10/14/10

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OWRD

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JAN 22 2015
WATER RESOURCES DEPT
SALEM, OREGON

SIGNATURE OF AGENT

Agent acknowledges that the following is Agent's signature:

RAYMON J. NEUSCHWANDER

STATE OF OREGON)
) ss.
County of Multnomah)

SUBSCRIBED AND SWORN to before me on December 17, 2014, by RAYMON J. NEUSCHWANDER.

NOTARY PUBLIC for Oregon
My Commission Expires: 7/14/16

OFFICIAL SEAL
JAQUELYNN M H MORAN
NOTARY PUBLIC-OREGON
COMMISSION NO. 469360
MY COMMISSION EXPIRES JULY 14, 2016

RECEIVED
MAY 11 2017
OWRD

RECEIVED
JAN 22 2015
WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON

WATER RESOURCES DEPARTMENT

RECEIPT # 123377

725 Summer St. N.E. Ste. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

INVOICE # _____

RECEIVED FROM: Neuschwander's Nursery, L.L.C.

BY:

APPLICATION	G-15567
PERMIT	
TRANSFER	

CASH: ☐ CHECK:# ☒ 1266 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D $ 85.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES		$
_____	OTHER:	(IDENTIFY) _____	$

0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

4270 WRD OPERATING ACCT

46111

MISCELLANEOUS

0407	COPY & TAPE FEES		$
0410	RESEARCH FEES		$
0408	MISC REVENUE: (IDENTIFY)	Assignment	$ 85.00
TC162	DEPOSIT LIAB. (IDENTIFY)	_____	$
0240	EXTENSION OF TIME		$

WATER RIGHTS:

		EXAM FEE		RECORD FEE
0201	SURFACE WATER	$	0202	$
0203	GROUND WATER	$	0204	$
0205	TRANSFER	$		

WELL CONSTRUCTION

		EXAM FEE		LICENSE FEE
0218	WELL DRILL CONSTRUCTOR	$	0219	$
	LANDOWNER'S PERMIT		0220	$

_____ OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

0211	WELL CONST START FEE	$	CARD #	
0210	MONITORING WELLS	$	CARD #	

_____ OTHER (IDENTIFY) _____

0607 TREASURY 0467 HYDRO ACTIVITY

LIC NUMBER

0233	POWER LICENSE FEE (FW/WRD)		$
0231	HYDRO LICENSE FEE (FW/WRD)		$
_____	HYDRO APPLICATION		$

_____ TREASURY _____ OTHER / RDX

RECEIVED
OVER THE COUNTER

FUND _____ TITLE _____

OBJ. CODE _____ VENDOR # _____

DESCRIPTION _____ $ _____

RECEIPT: 123377 DATED: 5/11/17 BY: [signature]

Distribution – White Copy - Customer, Yellow Copy - Fiscal, Blue Copy - File, Buff Copy - Fiscal

CLARK Gerald E * WRD

From: CLARK Gerald E * WRD
Sent: Thursday, April 06, 2017 11:19 AM
To: 'Brook geffen-prett'
Subject: RE: Submitted Doc for App. G-15567, Permit G-15646, Neuschwander/Gannon
Attachments: scan_170406102140.PDF

Brook,

I pulled the file and found a signed copy of the letter. I have attached a copy for your reference.

Gerry

Gerry Clark
Water Right Services Division
Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301

Phone: 503-986-0811

From: Brook geffen-prett [mailto:geffenprettphg@gmail.com]
Sent: Wednesday, April 05, 2017 1:36 PM
To: CLARK Gerald E * WRD
Subject: Submitted Doc for App. G-15567, Permit G-15646, Neuschwander/Gannon

Hi, Gerry -
Hope this finds you doing well!

In the process of pulling together last items to submit the COBU for this one. PHG prepared a letter for Ray Neuschwander to sign and submit with the COBU. However it appears he sent it straight to OWRD.

Any chance you can confirm the attached latter was signed, submitted and added to the file? If not you let me know if there's a better person to contact.

Thank you!
Brook

--

Brook Geffen-Prett
Pacific Hydro-Geology Inc.
18487 S Valley Vista Road
Mulino, OR 97042
phone: (503) 810-6780

Pacific Hydro-Geology Inc.
18487 S. Valley Vista Rd.
Mulino, OR 97042
(503) 632-5016

January 28, 2017

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301

Re: Proposed Place of Use vs. Claimed Place of use

OWRD Staff:

On July 7, 2011 Joel Neuschwander submitted Application G-15567. The map submitted with the application shows hatching on TL 4 1E 32 1000. But as confirmed by the original Land Use Information Form and identified landowner (my father, Joel Neuschwander) on the original application, the applicant never intended to propose use of water on this tax lot.

Additionally, the original applicant (my father, Joel Neuschwander) has:

1. Never owned any portion of TL 4 1E 32 1000;
2. Never had any type of formal or informal agreement with the landowners of TL 4 1E 32 1000 allowing them access to the authorized wells; and
3. Never made beneficial use of water on any portion of TL 4 1E 32 1000.

Furthermore, I have:

1. Never owned any portion of TL 4 1E 32 1000;
2. Never had any type of formal or informal agreement with the landowners of TL 4 1E 32 1000 allowing them access to the authorized wells; and
3. Never made beneficial use of water on any portion of TL 4 1E 32 1000.

Accordingly, the submitted Claim of Beneficial Use does not claim use of water on this tax lot.

Signature of legal owner as listed on deed

3-1-17
Date

RECEIVED BY OWRD

MAR 10 2017

SALEM, OR

CLARK Gerald E * WRD

From: Brook geffen-prett <geffenprettphg@gmail.com>
Sent: Wednesday, April 05, 2017 1:36 PM
To: CLARK Gerald E * WRD
Subject: Submitted Doc for App. G-15567, Permit G-15646, Neuschwander/Gannon
Attachments: Ownership_Letter_2017_01_30_bgp.doc

Hi, Gerry -
Hope this finds you doing well!

In the process of pulling together last items to submit the COBU for this one. PHG prepared a letter for Ray Neuschwander to sign and submit with the COBU. However it appears he sent it straight to OWRD.

Any chance you can confirm the attached latter was signed, submitted and added to the file? If not you let me know if there's a better person to contact.

Thank you!
Brook

--

Brook Geffen-Prett
Pacific Hydro-Geology Inc.
18487 S Valley Vista Road
Mulino, OR 97042
phone: (503) 810-6780
fax: 503-632-5983

Pacific Hydro-Geology Inc.
18487 S. Valley Vista Rd.
Mulino, OR 97042
(503) 632-5016

January 28, 2017

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301

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2. Never had any type of formal or informal agreement with the landowners of TL 4 1E 32 1000 allowing them access to the authorized wells; and
3. Never made beneficial use of water on any portion of TL 4 1E 32 1000.

Furthermore, I have:

1. Never owned any portion of TL 4 1E 32 1000;
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3. Never made beneficial use of water on any portion of TL 4 1E 32 1000.

Accordingly, the submitted Claim of Beneficial Use does not claim use of water on this tax lot.

_____ _____

Signature of legal owner as listed on deed Date

Pacific Hydro-Geology Inc.
18487 S. Valley Vista Rd.
Mulino, OR 97042
(503) 632-5016

January 28, 2017

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301

Re: Proposed Place of Use vs. Claimed Place of use

OWRD Staff:

On July 7, 2011 Joel Neuschwander submitted Application G-15567. The map submitted with the application shows hatching on TL 4 1E 32 1000. But as confirmed by the original Land Use Information Form and identified landowner (my father, Joel Neuschwander) on the original application, the applicant never intended to propose use of water on this tax lot.

Additionally, the original applicant (my father, Joel Neuschwander) has:

1. Never owned any portion of TL 4 1E 32 1000;
2. Never had any type of formal or informal agreement with the landowners of TL 4 1E 32 1000 allowing them access to the authorized wells; and
3. Never made beneficial use of water on any portion of TL 4 1E 32 1000.

Furthermore, I have:

1. Never owned any portion of TL 4 1E 32 1000;
2. Never had any type of formal or informal agreement with the landowners of TL 4 1E 32 1000 allowing them access to the authorized wells; and
3. Never made beneficial use of water on any portion of TL 4 1E 32 1000.

Accordingly, the submitted Claim of Beneficial Use does not claim use of water on this tax lot.

Signature of legal owner as listed on deed

3-1-17
Date

RECEIVED BY OWRD
MAR 10 2017
SALEM, OR

CLARK Gerald E * WRD

From: CLARK Gerald E * WRD
Sent: Thursday, January 26, 2017 5:00 PM
To: 'Brook geffen-prett'
Subject: RE: Following Up on App. G-15567, Permit G-15646, Gannon & Neuschwander

Brook,

I agree with your summary.

Have a great evening!

Gerry

Gerry Clark
Water Right Services Division
Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301

Phone: 503-986-0811

From: Brook geffen-prett [mailto:geffenprettphg@gmail.com]
Sent: Thursday, January 26, 2017 2:34 PM
To: CLARK Gerald E * WRD
Subject: Following Up on App. G-15567, Permit G-15646, Gannon & Neuschwander

Gerry:
Following up on conversation I just wanted to capture my understanding of your guidance for the COBU.

As we discussed TL 4 1E 32 1000 was erroneously included in the original application due to hatchering on the map that covered the tax lot. In order to address this within the COBU your recommendation is include:

- Narrative under "Variations" of the COBU;
- Statement within "Variations" this portion is not being claimed within the COBU;
- Orignal application showing ownership is excludes TL 4 1E 32 1000;
- Original LUIF showing TL 4 1E 32 1000 was never approved by county or reviewed by OWRD;
- Letter signed by Ray Neuschwander that captures the following:

    1. The original landowner and holder of Permit G-_____ (my father, Joel Neuschwander) has:
    2. Never owned any portion of TL 4 1E 32 1000;
    3. Never had any type of formal or informal agreement with the landowners of TL 4 1E 32 1000 allowing them access to the authorized wells; and
    4. Never made beneficial use of water on any portion of TL 4 1E 32 1000.

    - Furthermore, as the current landowner and holder of Permit G-_____, I have:
        1. Never owned any portion of TL 4 1E 32 1000;

2. Never had any type of formal or informal agreement with the landowners of TL 4 1E 32 1000 allowing them access to the authorized wells; and
3. Never made beneficial use of water on any portion of TL 4 1E 32 1000

Based on our conversation it is my understanding that a formal affidavit and notary are not required to effectively communicate the above information

Let me know if I missed anything or and/or incorrectly captured anything.

Thanks for your help and feedback on this Gerry. Very appreciated!
All best.
Brook

--

Brook Geffen-Prett
Pacific Hydro-Geology Inc.
18487 S Valley Vista Road
Mulino, OR 97042
phone: (503) 810-6780
fax: 503-632-5983

Oregon
Kate Brown, Governor

Water Resources Department
North Mall Office Building
725 Summer St NE, Suite A
Salem, OR 97301
Phone (503) 986-0900
Fax (503) 986-0904
www.wrd.state.or.us

October 6, 2016

Willamette Tree Wholesale, Inc.
5244 SE Castle Rock Ct.
Milwaukie, Oregon 97267

Reference: Application G-15567, Permit G-15646

The partial assignment by proof from Joel Neuschwander to Ray Gannon has been recorded in the records of the Water Resources Department.

The Departments records will now show Joel Neuschwander and Ray Gannon as the permit holder of record.

Our records have been changed accordingly and the original request is enclosed. Receipt number 121502 covering the recording fee is also enclosed.

A permit is not a perfected water right, and has conditions and timelines that must be satisfied prior to a Certificate of Water Right being issued. Please review the permit to be familiar with the conditions and timelines contained in the permit.

Sincerely,

Jerry Sauter
Water Rights Program Analyst
Water Right Services Division

Enclosure: Receipt 121502

cc: Watermaster 20
Joel Neuschwander
Data Center, OWRD (cover letter & request)
Hydrographics
File

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301
(503) 986-0900
www.wrd.state.or.us

Request for Assignment

By Proof of Ownership
(If Water Right Holder is Not Available)

RECEIVED BY OWI
OCT 03 2016
SALEM, OR

If for multiple rights, a separate form and fee for each right will be required.

I, Ray Gannon
(Name of Party Requesting Assignment)

5244 SE Castle Rock ct. Milwaukie Or 97267 5039816304
(Mailing Address) *(City)* *(State)* *(Zip)* *(Phone #)*

☐ hereby request assignment of application/permit/transfer/license/GR Certificate of Registration;

☑ hereby request assignment of a ***portion*** of application/permit/transfer/license/GR Certificate of Registration; *(You must include a map showing the portion of the application/permit/transfer/license/GR Certificate of Registration to be assigned.)*

I have attached proof of ownership that may include but not be limited to: a copy of the deed to the land, a copy of a land sales contract, a court order or decree, documentation of survivorship of property held jointly. The Department cannot accept a copy of a tax statement.

Application # G-15567 ; Permit # G-15646 ; Transfer# _____
-OR-
License #_____ GR Statement # _____; GR Certificate of Registration #_____

Leo E Gentry Wholesale Nursery Inc.
(Name of Holder of Record)

11251 SE 232nd ave Gresham OR 97080 5036585781
(Mailing Address) *(City)* *(State)* *(Zip)* *(Phone #)*

Note: You are required to furnish proof acceptable to the Department that notice of the assignment has been given or attempted for each identified property owner not a party to the assignment. ORS 537.220(2) *Failure to submit this proof will result in the return of your request. (Proof may include but not be limited to: a copy of returned certified mailing, copy of a Death Certificate, or a court order.)*

1) I certify that I am the current owner of the property described in this application, Permit, transfer, license or GR Certificate of Registration.
2) I have the legal right to request assignment under OAR 690-310-0280 and 690-320-0060.
3) I have not been able to contact the owner(s) of record for the above referenced application or water right.
4) I further certify that the information provided herein is true and correct to the best of my knowledge.

Witness my hand this 10 day of Sept, 2016.

Party Requesting Assignment Ray Gan

Party Requesting Assignment _____

ASSIGN ANCILLARY TO Deeds 9/14/10, JTL

DO NOT WRITE IN THIS BOX

This certifies assignment and record change at Oregon Water Resources Department effective 8:00 a.m. on date of receipt at Salem, Oregon.
Fee receipt # 124502
For Director by Jerry Sauter, Program Analyst in Water Rights Division

The completed "Request for Assignment" form *must* be submitted to the Department along with the recording fee of **$85**.

RECEIVED BY OWRD
SEP 15 2016
SALEM, OR

From: **Brook geffen-prett** geffenprettphg@gmail.com
Subject: Assignment for Water Right Permit G-15646
Date: Today at 1:46 PM
To: Ray Gannon treman3157@aol.com

Ray:

Attached are two documents you'll need to print, sign and mail to OWRD in order to complete the assignment from Joel to you. You'll need to include a check to OWRD for $85.

Let me know if you have any questions.

--

RECEIVED BY OWRD
OCT 03 2016
SALEM, OR

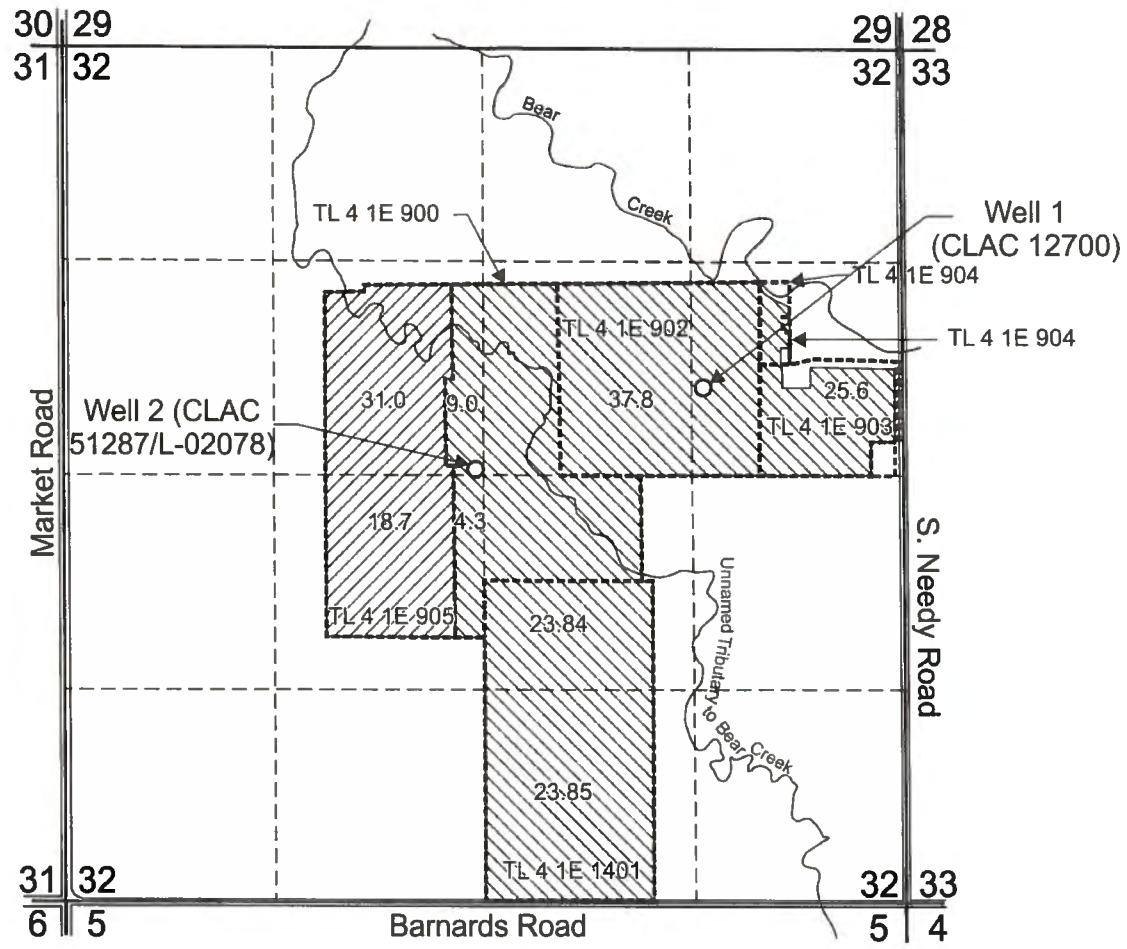
Brook Geffen-Prett
Pacific Hydro-Geology Inc.
18487 S Valley Vista Road
Mulino, OR 97042
phone: (503) 810-6780
fax: 503-632-5983

RECEIVED BY OWRD
SEP 15 2016
SALEM, OR

T.4S. R.1E. Section 32, W.M.



T.4S. R.1E. Section 32, W.M.



Well 1 (CLAC 12700) is located 550 feet north and 1,250 feet west from the east 1/4 corner, Section 32.

Well 2 (CLAC 51287/L02078) is located 50 feet north and 50 feet west from the center 1/4 corner, Section 32.

Area (124.39 acres) to be assigned to Ray Neuschwander.

Area (49.7 acres) to be assigned to Ray Gannon.

-------- Tax lot boundary

RECEIVED BY OWRD

SEP 16 2016

SALEM, OR

RECEIVED BY OWRD

OCT 03 2016

SALEM, OR

N

Scale: 1" = 1,320'

0 1,320 Feet

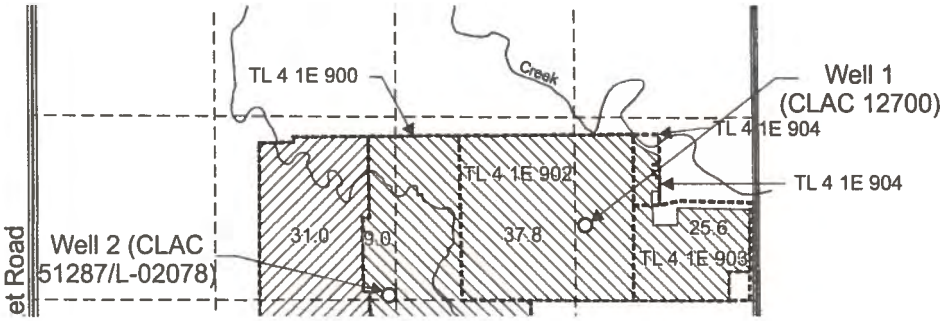
This map was prepared for the purpose of identifying the location of a water right only and is not intended to provide legal dimensions or location of property ownership lines.

Map to Accompany Request for Assignment
Application G-15567, Permit G-15646

Pacific Hydro-Geology Inc.

T4.S. R.1E. Section 32, W.M.

ıschwander_Gannon.cdr



RECEIVED BY OWRD
SEP 15 2016
SALEM, OR

BERNARDS RD

Fidelity National Title # FT140048622

1.000000 1.000000

Clackamas County Official Records
Sherry Hall, County Clerk

2015-014901

03/19/2015 01:00:40 PM

D-D Cnt=1 Stn=6 KARLYN
$10.00 $16.00 $10.00 $20.00 $22.00

$78.00

RECORDING REQUESTED BY:
Fidelity National Title Company of Oregon

GRANTOR:
Northwest Farm Credit Services, FLCA, who acquired title as Northwest Farm Credit Services, PCA
12 SW Nye Avenue
Pendleton, OR 97801

ORIGINAL

GRANTEE:
Raymond Gannon and Marguerite Gannon, as tenants by the entirety
7289 S Barnards Road
Canby, OR 97013

SEND TAX STATEMENTS TO:
Raymond Gannon and Marguerite Gannon
13989 SE 139th Avenue
Clackamas, OR 97015

RECEIVED BY ...
OCT 03 2013
SALEM, OR

AFTER RECORDING RETURN TO:
Raymond Gannon and Marguerite Gannon
13989 SE 139th Avenue
Clackamas, OR 97015

Escrow No: FT140048622-FTMWV01

7289 S Barnards Road
Canby, OR 97013

SPACE ABOVE THIS LINE FOR RECORDER'S USE

BARGAIN AND SALE DEED – STATUTORY FORM
(INDIVIDUAL or CORPORATION)

Northwest Farm Credit Services, FLCA, who acquired title as Northwest Farm Credit Services, PCA, Grantor, conveys to

Raymond Gannon and Marguerite Gannon, as tenants by the entirety , Grantee, the following described real property, situated in the County of Clackamas, State of Oregon,

SEE LEGAL DESCRIPTION ATTACHED HERETO

The true consideration for this conveyance is $1,800,000.00. (See ORS 93.030).

BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON TRANSFERRING FEE TITLE SHOULD INQUIRE ABOUT THE PERSON'S RIGHTS, IF ANY, UNDER ORS 195.300, 195.301 AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010. THIS INSTRUMENT DOES NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY THAT THE UNIT OF LAND BEING TRANSFERRED IS A LAWFULLY ESTABLISHED LOT OR PARCEL, AS DEFINED IN ORS 92.010 OR 215.010, TO VERIFY THE APPROVED USES OF THE LOT OR PARCEL, TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES, AS DEFINED IN ORS 30.930, AND TO INQUIRE ABOUT THE RIGHTS OF NEIGHBORING PROPERTY OWNERS, IF ANY, UNDER ORS 195.300, 195.301 AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010.

Oregon
Kate Brown, Governor

Water Resources Department
North Mall Office Building
725 Summer St NE, Suite A
Salem, OR 97301
Phone (503) 986-0900
Fax (503) 986-0904
www.wrd.state.or.us

September 16, 2016

Willamette Tree Wholesale, Inc.
13989 SE 139th. Ave.
Clackamas, Oregon 97015

Reference: Application G-15567, Permit G-15646

The requested assignment could not be performed as proof of ownership to the property involved was not included.

Please return the request, fees and proof of ownership so that the Department may assign this water right. The Department cannot accept a tax bill as proof.

Sincerely,

Jerry Sauter
Water Rights Program Analyst
Water Right Services Division

Enclosure: Request, check

cc: file

RECEIVED BY OWRD
OCT 03 2016
SALEM, OR

STATE OF OREGON

WATER RESOURCES DEPARTMENT

725 Summer St. N.E. Ste. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

RECEIPT # 121502

INVOICE # _____

RECEIVED FROM: Willamette Tree Wholesale, Inc

BY: _____

APPLICATION	G-15567
PERMIT	
TRANSFER	

CASH: ☐ CHECK# ☒ 35379 ☐ OTHER: (IDENTIFY) _____

TOTAL REC'D $ 85.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES		$
_____	OTHER: (IDENTIFY)	_____	$

0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

4270 WRD OPERATING ACCT

46111

	MISCELLANEOUS				
0407	COPY & TAPE FEES				$
0410	RESEARCH FEES				$
0408	MISC REVENUE: (IDENTIFY)	Assignment			$ 85.00
TC162	DEPOSIT LIAB. (IDENTIFY)				$
0240	EXTENSION OF TIME				$
	WATER RIGHTS:		EXAM FEE		RECORD FEE
0201	SURFACE WATER		$	0202	$
0203	GROUND WATER		$	0204	$
0205	TRANSFER		$		
	WELL CONSTRUCTION		EXAM FEE		LICENSE FEE
0218	WELL DRILL CONSTRUCTOR		$	0219	$
	LANDOWNER'S PERMIT			0220	$
_____	OTHER	(IDENTIFY) _____			

0536 TREASURY 0437 WELL CONST. START FEE

0211	WELL CONST START FEE	$	CARD #	
0210	MONITORING WELLS	$	CARD #	
_____	OTHER (IDENTIFY) _____			

0607 TREASURY 0467 HYDRO ACTIVITY

		LIC NUMBER	
0233	POWER LICENSE FEE (FW/WRD)		$
0231	HYDRO LICENSE FEE (FW/WRD)		$
_____	HYDRO APPLICATION		$

_____ TREASURY OTHER / RDX

FUND _____ TITLE _____

OBJ. CODE _____ VENDOR # _____ $

DESCRIPTION _____

RECEIPT: 121502 DATED: 10-3-16 BY: _____

Distribution – White Copy - Customer, Yellow Copy - Fiscal, Blue Copy - File, Buff Copy - Fiscal

Oregon
Kate Brown, Governor

Water Resources Department
North Mall Office Building
725 Summer St NE, Suite A
Salem, OR 97301
Phone (503) 986-0900
Fax (503) 986-0904
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September 16, 2016

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Sincerely,

Jerry Sauter
Water Rights Program Analyst
Water Right Services Division

Enclosure: Request, check

cc: file

G-15567

CLARK Gerry E

From: CLARK Gerry E
Sent: Tuesday, March 08, 2016 10:17 AM
To: 'Brook geffen-prett'
Subject: RE: COBU Question for Permit G-15646

Brook,

Unless the current owner of Tax Lot 1000 is willing to sign a request for partial diminution, or a letter stating that they do not intend to develop the use on the lot, I think you are stuck with the partial Claim.

Gerry

Gerry Clark
Water Right Services Division
Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301

Phone: 503-986-0811

From: Brook geffen-prett [mailto:geffenprettphg@gmail.com]
Sent: Monday, March 07, 2016 9:56 AM
To: CLARK Gerry E
Subject: COBU Question for Permit G-15646

Hi, Gerry!
PHG is working on a COBU and as you can see by the attached map, there is a tiny tax lot in the SW portion of the right (4S 1E 32 1000) that was erroneously included in the application in 2001.

The permit holder and PHG have requested the tax lot holder complete a Partial Diminution of the permit for this portion but things have stalled out on their end because they are exceedingly confused.

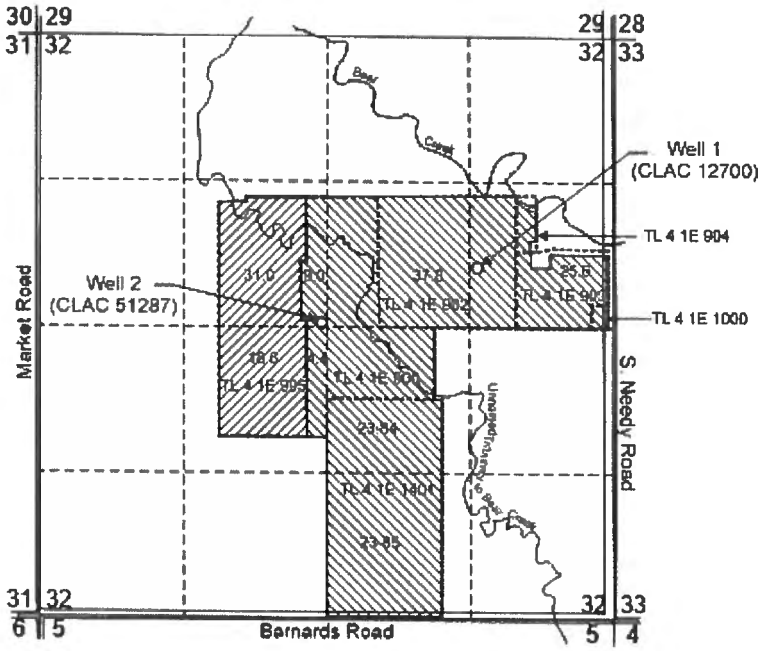
All that to say, PHG is trying to identify alternative solutions so that they can keep the COBU process moving forward. Submitting a partial COBU is one option. However, the permit holder is hoping for an option that would be more expeditious. Any thoughts?

Thanks, Gerry and all best!
Brook

--
PLEASE NOTE: My phone number has changed. The new and current phone number is: 503-810-6780

Brook Geffen-Prett
Pacific Hydro-Geology Inc.
18487 S Valley Vista Road
Mulino, OR 97042
phone: (503) 810-6780
fax: 503-632-5983

T.4S. R.1E. Section 32, W.M.



T.4S. R.1E. Section 32, W.M.



CLARK Gerry E

From: Brook geffen-prett <geffenprettphg@gmail.com>
Sent: Tuesday, March 08, 2016 1:42 PM
To: CLARK Gerry E
Subject: Re: COBU Question for Permit G-15646
Attachments: both_girls.jpg

Gerry -
That's what I was afraid of! ;) Thanks for letting me know.

All best!
Brook

ps - my days with Loch Ness Monster of late...

On Tue, Mar 8, 2016 at 10:17 AM, CLARK Gerry E <gerald.e.clark@state.or.us> wrote:

Brook,

Unless the current owner of Tax Lot 1000 is willing to sign a request for partial diminution, or a letter stating that they do not intend to develop the use on the lot, I think you are stuck with the partial Claim.

Gerry

Gerry Clark

Water Right Services Division

Water Resources Department

725 Summer Street NE, Suite A

Salem, Oregon 97301

Phone: 503-986-0811

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Brook Geffen-Prett

Pacific Hydro-Geology Inc.

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Mulino, OR 97042

phone: (503) 810-6780

fax: 503-632-5983

--

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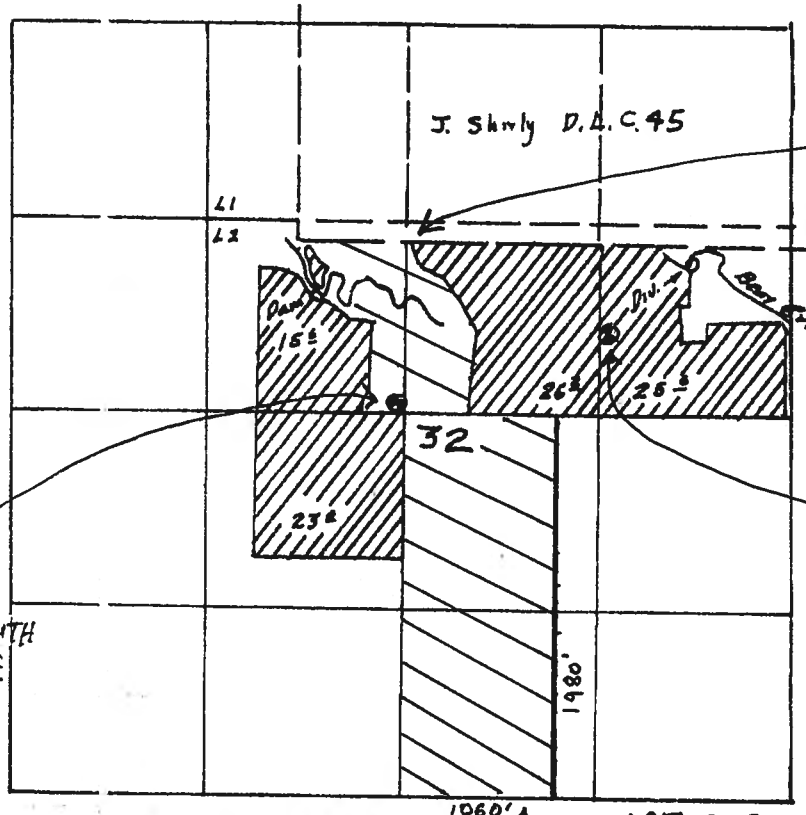
Brook Geffen-Prett
Pacific Hydro-Geology Inc.
18487 S Valley Vista Road
Mulino, OR 97042
phone: (503) 810-6780
fax: 503-632-5983

APPLICANT:
JOEL NEUSCHWANDER
6097 S. WHISKEY HILL Rd.
HUBBARD, OR 97032
(503) 651-3253

T. 4 S., R. 1 E., W.M.
SECTION 32

N

(1" = 1320')



AREA TO BE IRRIGATED IN TAX LOT 900:
13.8 acres in SW1/4 NE1/4
Plus 24.4 acres in SE1/4 NW1/4.
TOTAL: 37.4 acres

WELL No. 1 is 1,250' from the EAST LINE of the SECTION (32), AND 550' from the SOUTH LINE of the SE1/4 NE1/4 Sec. 32.

WELL No. 2 is 50' WEST & 50' SOUTH of the SE CORNER of the NW1/4 of SECTION 32.

AREA TO BE IRRIGATED IN TAX LOT 1401:
47.69 acres ⇒ 23.845 ac in NW1/4 SE1/4, AND 23.845 ac. in ~~NW1/4 SW1/4~~ SE1/4

Application No. G 15567
Permit No. G 15646

= 89 acres: LANDS IRRIGATED UNDER CERTIFICATE 20401 (PERMIT No. 16827) (APP. No. 21449)

= LANDS TO BE IRRIGATED UNDER PERMIT G-15567 WITH THIS APPLICATION. 85.29 ACRES.

[redacted]

INCLUDING: App. No 21449 Permit No. 16827
IN NAME OF
I. R. Hanson

Surveyed July 8 1963 by H. L. Coffman

AND NEW LANDS.

[redacted]

RECEIVED
JUL 25 2001
WATER RESOURCES DEPT
SALEM, OR

copied by LL

BEFORE THE WATER RESOURCES DIRECTOR OF OREGON

CLACKAMAS COUNTY

IN THE MATTER OF CANCELLATION OF A PORTION OF A PERFECTED AND DEVELOPED WATER RIGHT IN THE NAME OF I. R. HANSON	))))	FINAL O R D E R

ORS 540.621 directs the Commission to enter an order canceling a water right whenever the owner of a perfected and developed water right certifies under oath to the Commission that the water right has been abandoned and the owner desires to cancel the right.

Findings of Fact

1. On November 30, 2004, the Department received an affidavit from Joel and Carolyn Neuschwander, 6097 S. Whiskey Hilll Rd., Hubbard, Oregon, stating they are the owners of land and the water right appurtenant as evidenced by Certificate 20401, State Record of Water Right Certificates. The affidavit further states a portion of the water right appurtenant to the property has been abandoned and requests the certificate be canceled.

2. On November 30, 2004, the Department received an affidavit from Leo Gentry, 24160 SE Highway 212, Boring, Oregon, stating he is the owner of land and the water right appurtenant as evidenced by Certificate 20401, State Record of Water Right Certificates. The affidavit further states a portion of the water right appurtenant to the property has been abandoned and requests the certificate be canceled.

3. Pursuant to OAR 690-017-002(a), the Department has determined that Joel and Carolyn Neuschwander and Leo Gentry are the record owners, as established by county deed records, of property to which a portion of the water right evidenced by Certificate 20401 is appurtenant.

4. Certificate 20401 allows for the use of 1.07 cubic feet per second (cfs) of water; being 0.65 cfs from Bear Creek for irrigation of 51.8 acres and 0.42 cfs from an unnamed stream for irrigation of 37.2 acres, both tributary to the Pudding River. The date of priority is March 4, 1946.

5. The portion of Certificate 20401 which has been abandoned is for the use of 0.64 cfs from Bear Creek for irrigation of 50.91 acres and 0.42 cfs from an unnamed stream for irrigation of 37.2 acres, both tributary to the Pudding River, located as follows:

NOTICE OF RIGHT TO PETITION FOR JUDICIAL REVIEW OR RECONSIDERATION

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

TWP		RNG		MER	SEC	1/4	1/4	DLC	LOT	ACRES
4	S	1	E	W.M.	32	SW	NE		3	26.20
4	S	1	E	W.M.	32	SE	NE		4	24.71
4	S	1	E	W.M.	32	SE	NW		2	14.20
4	S	1	E	W.M.	32	NE	SW			23.00

Conclusions of Law

The Director of the Water Resources Department concludes that a portion of the right evidenced by Water Right Certificate 20401 has been abandoned in accordance with the provisions of ORS 540.621 and shall be canceled.

Now, therefore, it is ORDERED:

1. Certificate 20401 is canceled.

2. The Department shall issue Certificate 81136, a new and superseding certificate, to describe the remaining portion of the perfected and developed water right NOT canceled by the provisions of this order.

Dated at Salem, Oregon this 20 day of January, 2005.

Phillip C. Ward, Director

STATE OF OREGON

COUNTY OF CLACKAMAS

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

I. R. HANSON
ROUTE 2, BOX 340
CANBY, OREGON

confirms the right to use the waters of BEAR CREEK, a tributary of PUDDING RIVER, for IRRIGATION OF 0.89 ACRE.

This right was perfected under Permit 16827. The date of priority is March 4, 1946. The amount of water to which this right is entitled is limited to an amount actually beneficially used and shall not exceed 0.01 cubic foot per second (cfs), or its equivalent in case of rotation, measured at the point of diversion from the source.

The point of diversion is located as follows:

TWP	RNG	MER	SEC	LOT	¼ - ¼	LOCATION
4 S	1 E	W.M.	32	4	SE NE	

The amount of water used for irrigation together with the amount secured under any other right existing for the same lands shall be limited to ONE-EIGHTIETH of one cubic foot per second per acre, or its equivalent for each acre irrigated and shall be further limited to a diversion not to exceed 2.5 acre feet per acre for each acre irrigated during the irrigation season of each year.

A description of the place of use to which this right is appurtenant is as follows:

TWP	RNG	MER	SEC	LOT	¼ - ¼	ACRES
4 S	1 E	W.M.	32	4	SE NE	0.89

This certificate describes that portion of the water right confirmed by Certificate 20401, State Record of Water Right Certificates, NOT canceled by the provisions of an order of the Water Resources Director entered Jan. 20, 2005, and recorded in Special Order Volume 63, Page 22, canceling a portion of the water right. This certificate supersedes Certificate 820401.

The issuance of this superseding certificate does not confirm the status of the water right in regard to the provisions of ORS 540.610 pertaining to forfeiture or abandonment.

The right to the use of water for the above purpose is restricted to beneficial use on the lands or place of use described.

Issued: Jan. 20, 2005

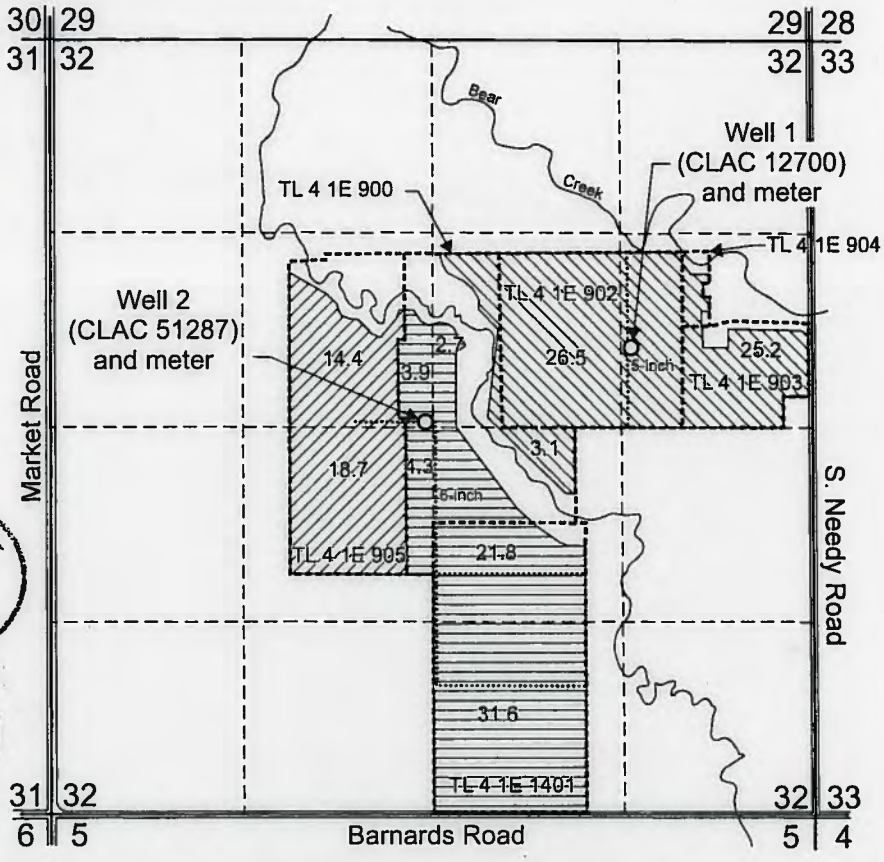
Dwight Hurd for

Phillip C. Ward, Director
Water Resources Department

Recorded in State Record of Water Right Certificates numbered 81136.

Superseded

T.4S. R.1E. Section 32, W.M.



RECEIVED
MAY 19 2017
OWRD

Certified Water Rights Examiner
#432WRE
GREGORY E. KUPILLAS
MAY 14, 1996
STATE OF OREGON
EXPIRATION DATE: 6/30/2019

Well 1 (CLAC 12700) and meter are located 550 feet north and 1,250 feet west from the east 1/4 corner, Section 32.

Well 2 (CLAC 51287) and meter are located 50 feet north and 50 feet west from the center 1/4 corner, Section 32.

Area (54.8 acres) irrigated with Well 1 (CLAC 12700) under application G-15567, Permit G-15646 and assigned to Ray Neuschwander.

Area (64.3 acres) irrigated with Well 2 (CLAC 51287) under application G-15567, Permit G-15646 and assigned to Ray Neuschwander.

Area (33.1 acres) irrigated with Well 2 (CLAC 51287) under application G-15567, Permit G-15646 and assigned to Ray Gannon.

-------- Tax lot boundary

..... 5-inch and 6-inch Mainline

N

Scale: 1" = 1,320'

0 1,320 Feet

This map was prepared for the purpose of identifying the location of a water right only and is not intended to provide legal dimensions or location of property ownership lines.

Neuschwander_Gannon.cdr

Pacific Hydro-Geology Inc.

bgp - 2016

Claim of Beneficial Use Map
Application G-15567, Permit G-15646

Ray Neuschwander and Ray Gannon
T4.S. R.1E. Section 32, W.M.

BEFORE THE OREGON WATER RESOURCES DEPARTMENT

In the Matter of Water Right Application G-15567 in the Names of Joel Neuschwander & Leo Gentry, *Applicant*	)))))	SETTLEMENT AGREEMENT

The Oregon Water Resources Department, Joel Neuschwander and Leo Gentry do hereby agree and stipulate as follows:

Stipulated Facts:

1. On July 25, 2001, Joel Neuschwander (Applicant) submitted an application to the Oregon Water Resources Department (Department) for the use of 1.604 cubic feet per second (cfs) of water for nursery use on 174.09 acres from two wells in the Bear Creek Basin in Clackamas County.

2. The Department issued a Proposed Final Order on April 9, 2002, proposing to deny the application because the proposed groundwater use would have the potential for substantial interference with the nearest surface water source, namely Bear Creek and surface water in Bear Creek is not available for appropriation at any time of the year. The protest period closed May 24, 2002, and no protest was timely filed.

3. On March 6, 2003, the Department issued a Final Order to deny the application.

4. On April 2, 2003, the Department, on its own initiative stayed its March 6, 2003, Final Order pending reconsideration, pursuant to OAR 137-004-0080(5).

5. Certificate 20401 is a surface water right for 0.65 cfs from Bear Creek and 0.42 cfs from an unnamed tributary of Bear Creek for irrigation.

6. On or about June 17, 2004, the application was amended to include Leo Gentry as co-applicant. Leo Gentry is the owner of tax lot 905 in Section 32, Township 4 South, Range 1 East, W.M.

Terms of Agreement

1. The parties to this Agreement waive the opportunity to protest the Superceding Final Order Incorporating Stipulated Agreement and any right to judicial review of this agreement.

2. The Applicants will submit payment of $150 in outstanding permit recording fees, an affidavit attesting to use of the water under Certificate 20401, and an affidavit

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SALEM, OREGON

voluntarily canceling water right Certificate 20401. Upon receipt of these materials, the Department will issue a Superceding Final Order with the attached draft permit, which is incorporated herein.

3. The parties agree to entry of the Superceding Final Order Incorporating Stipulated Agreement.

4. This Agreement may be executed simultaneously or with separate signature pages and in more than one counterpart, each of which will be deemed an original, and all of which together shall constitute one and the same Agreement.

Joel Neuschwander — Date: 10/18/04

Leo Gentry — Date: 10/19/04

On Behalf of the Oregon Water Resources Department — Date: 12-1-04

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SALEM, OREGON

STATE OF OREGON

COUNTY OF CLACKAMAS

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

JOEL NEUSCHWANDER & LEO GENTRY
6097 S WHISKEY HILL RD
HUBBARD, OREGON 97032

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15567

SOURCE OF WATER: TWO WELLS IN BEAR CREEK BASIN

PURPOSE OR USE: NURSERY USE OF 174.09 ACRES.

MAXIMUM RATE: 1.604 CUBIC FEET PER SECOND, BEING 1.114 CFS FROM WELL 1 AND 0.490 CFS FROM WELL 2

PERIOD OF USE: YEAR-ROUND

DATE OF PRIORITY: July 25, 2001

WELL LOCATIONS:

Well 1: SENE, SECTION 32, T 4S, R1E, W.M.;
550 FEET NORTH & 1250 FEET WEST FROM E1/4 CORNER, SECTION 32

Well 2: SENW, SECTION 32, T 4S, R1E, W.M.;
50 FEET NORTH & 50 FEET WEST FROM C1/4 CORNER, SECTION 32

The amount of water used for nursery use is limited to a maximum of 5.0 acre feet per acre and a diversion of 0.15 cubic foot per second per acre. For irrigation of containerized nursery plants, the amount of water diverted is limited to one fortieth of one cubic foot per second and 5.0 acre feet per acre per year. For irrigation of in-ground nursery plants the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre per year. The use of water for nursery use may be made at any time, during the period of allowed use specified above, that the use is beneficial. For irrigation of any other crop, the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SW ¼ NE ¼	37.8 ACRES
SE ¼ NE ¼	25.6 ACRES
SE ¼ NW ¼	40.0 ACRES
NE ¼ SW ¼	23.0 ACRES
NW ¼ SE ¼	23.84 ACRES
SW ¼ SE ¼	23.85 ACRES

SECTION 32
TOWNSHIP 4 SOUTH, RANGE 1 EAST, W.M.

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SALEM, OREGON

Measurement, recording and reporting conditions:

A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

STANDARD CONDITIONS

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water

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SALEM, OREGON

level or pump test results every ten years thereafter.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Complete application of the water to the use shall be made on or before October 1, 2008. If the water is not completely applied before this date, and the permittee wishes to continue development under the permit, the permittee must submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE).

Issued June , 2004

Phillip C. Ward, Acting Director
Water Resources Department

REAL ESTATE TRANSACTIONS: Pursuant to ORS 537.330, in any transaction for the conveyance of real estate that includes any portion of the lands described in this permit, the seller of the real estate shall, upon accepting an offer to purchase that real estate, also inform the purchaser in writing whether any permit, transfer approval order, or certificate evidencing the water right is available and that the seller will deliver any permit, transfer approval order or certificate to the purchaser at closing, if the permit, transfer approval order or certificate is available.

CULTURAL RESOURCES PROTECTION LAWS: Permittees involved in ground-disturbing activities should be aware of federal and state cultural resources protection laws. ORS 358.920 prohibits the excavation, injury, destruction or alteration of an archeological site or object, or removal of archeological objects from public and private lands without an archeological permit issued by the State Historic Preservation Office. 16 USC 470, Section 106, National Historic Preservation Act of 1966 requires a federal agency, prior to any undertaking to take into account the effect of the undertaking that is included on or eligible for inclusion in the National Register. For further information, contact the State Historic Preservation Office at 503-378-4168, extension 232.

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NOV 30 2004
WATER RESOURCES DEPT
SALEM, OREGON

Date: 11/30/04

Dwight French
OWRD
725 Summer ST NE
Salem OR 97301

RE: Application for water right permit # G-15567

Dear Dwight,

Please include Leo Gentry as a co-applicant on my application as he is the owner of TL 905.

Sincerely,

Joel Neuschwander

Joel Neuschwander

Leo Gentry

Leo E Gentry

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NOV 30 2004
WATER RESOURCES DEPT
SALEM, OREGON

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DEC 0 3 2004
WATER RESOURCES DEPT
SALEM, OREGON

~~(WATER RIGHT TRANSFER)~~

AFFIDAVIT ATTESTING TO THE USE OF WATER DURING THE PREVIOUS FIVE YEARS

State of Oregon)
) ss
County of CLACKAMAS)

I CAROLYN NEUSCHWANDER JOEL NEUSCHWANDER, in my capacity as OWNER,
mailing address 6097 S. WHISKEY HILL Rd. / HUBBARD, OR 97032,
telephone number (503)651-3253, being first duly sworn depose and say:

1. I attest that water was used during the previous five years on the entire authorized place of use of the water right subject to transfer, ~~as described by the accompanying transfer application.~~ My knowledge of the exercise of the water right is based on (check one):

☑ Personal observation

☑ Professional expertise

2. My knowledge is specific to the use of water at the following location(s):

26.2 ac SW ¼ NE ¼ 23 ac NE ¼ SW ¼
25.6 ac SE ¼ NE ¼
14.2 ac SE ¼ NW ¼
Section 32
Township 4 (S) Range 1 (E) (W)

3. The water right was exercised for the authorized purposes and is described as follows:

IRRIGATION of NURSERY STOCK

4. The water delivery system used to apply water as authorized by the water right is described as follows:

PORTABLE PUMP FROM BEAR CR. & UN-NAMED TRIB. INTO PORTABLE MAINLINE, TO MAINLINE, INTO HANDLINES, THEN INTO 18" RISERS.

(continues on reverse side)

PLEASE PRINT LEGIBLY OR TYPE. PLEASE BE AS SPECIFIC AS POSSIBLE. ATTACH ADDITIONAL PAGES IF YOU NEED MORE SPACE. SUPPORTING DOCUMENTATION MUST BE ATTACHED.
June 2003

5. One or more of the following documentation supporting the above statements is attached:

- ☐ Copy of a water right certificate which has been issued within the last five years (not a remaining right certificate),
- ☐ Copies of receipts from sales of irrigated crops or for expenditures relating to use of water,
- ☐ Records such as Farm Service Agency crop reports, irrigation district records, an NRCS farm management plan, or records of other water suppliers,
- ☐ Dated aerial photographs of the lands or other photographs containing sufficient detail to establish the location and date of the photograph,
- ☐ Dedicated power usage records or receipts,
- ☐ If the right has not been used during the past five years, documentation that the presumption of forfeiture would be rebutted under ORS 540.610(2), or
- ☑ Other: CERTIFICATE, VOL. 15, PAGE 20401

Carolyn R Neuschwander
A. Joel Neuschwander
Signature of Affiant

12/2/04
Date

Subscribed and Sworn to Before Me this 2nd day of December, 2004.

OFFICIAL SEAL
KAREN L. MORGAN
NOTARY PUBLIC-OREGON
COMMISSION NO. 351703
MY COMMISSION EXPIRES NOVEMBER 8, 2005

Karen L. Morgan
Notary Public for Oregon

My Commission Expires 11-8-2005

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DEC 03 2004
WATER RESOURCES DEPT
SALEM, OREGON

PLEASE PRINT LEGIBLY OR TYPE. PLEASE BE AS SPECIFIC AS POSSIBLE. ATTACH ADDITIONAL PAGES IF YOU NEED MORE SPACE. SUPPORTING DOCUMENTATION MUST BE ATTACHED.
June 2003

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-15567

Final Order
Extension of Time for Permit Number G-15646

Appeal Rights

This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. A request for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either file for judicial review, or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

Application History

Permit G-15646 was issued by the Department on January 5, 2005. The permit called for complete application of water to beneficial use by October 1, 2008. On June 30, 2009 Joel Neuschwander and Leo Gentry submitted to the Department an Application for Extension of Time for Permit G-15646. In accordance with OAR 690-315-0050(2), on March 23, 2010 the Department issued a Proposed Final Order proposing to extend the time to fully apply water to beneficial use to October 1, 2015. The protest period closed May 7, 2010 in accordance with OAR 690-315-0060(1). No protest was filed.

At time of issuance of the Proposed Final Order the Department concluded that, based on the factors demonstrated by the applicant, the permit may be extended subject to the following conditions:

CONDITIONS

1. **Checkpoint Condition**

The permit holder must submit a completed Progress Report Form to the Department by **October 1, 2013.** ***A form will be enclosed with your Final Order.***

(a) At each checkpoint, the permit holder shall submit and the Department shall review evidence of the permit holder's diligence towards completion of the project and compliance with terms and conditions of the permit and extension. If, after this review, the Department determines the permit holder has not been diligent in developing and perfecting the water use permit, or complied with all terms and conditions, the Department shall modify or further condition the permit or extension to ensure future compliance, or begin cancellation proceedings on the undeveloped portion of the permit pursuant to ORS 537.260 or 537.410, or require submission of a final proof survey pursuant to ORS 537.250;

(b) The Department shall provide notice of receipt of progress reports in its weekly notice and shall allow a 30 day comment period for each report. The Department shall provide notice of its determination to anyone who submitted comments.

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.630, 539.010(5) and OAR 690-315-0040(2).

Order

The extension of time for Application G-15567, Permit G-15646, therefore, is approved subject to conditions contained herein. The deadline for applying water to full beneficial use is extended to October 1, 2015.

DATED: May 11, 2010

Dwight French, Administrator of
Water Rights and Adjudications
for
Phillip C. Ward, Director

- If you have any questions about statements contained in this document, please contact Scott Kudlemyer at (503) 986-0813.

- If you have other questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at (503) 986-0900

Mailing List for Extension FO Copies

Note: Include a copy of the "Important Notice" document along with the original copy of the Final Order being sent to the permit holder.

FO Date: May 11, 2010

Copies Mailed

Application G-15567
Permit G-15646

By: DS
On: 5/13/10

Original mailed to permit holder

Joel Neuschwander and Leo Gentry
6097 S. Whiskey Hill Rd
Hubbard, OR 97932

Copies sent to:

1. WRD - App. File G-15567/ Permit G-15646
2. ~~WRD - Support Staff, Salem~~

Fee paid as specified under ORS 536.050 to receive copy:

3. None

Receiving via e-mail (10 AM day of signature date)

4. WRD – Water Master District 16 – Mike McCord, Salem

Done by SK *Date* 5/11/10

If Progress Reports are included:

Add record to Progress Report tracking sheet.xls Done: by SK Date 5/10/10

CASEWORKER: SBK

Oregon Water Resources Department
Water Rights Division

Application for Extension of Time

In the Matter of the Application for an Extension of Time)
for Permit G-15646, Water Right Application G-15567) PROPOSED FINAL ORDER
in the name of Joel Neuschwander and Leo Gentry)

Permit Information

Application File G-15567 Permit G-15646
Basin: 2 – Willamette / Watermaster District 16
Date of Priority: July 25, 2001

Authorized Use of Water
Source of Water: Two wells within the Bear Creek Basin
Purpose of Use: Nursery Use of 174.09 Acres
Maximum Rate: 1.604 Cubic Feet per Second (cfs), being 1.114 cfs from Well 1 and 0.490 cfs from Well 2

This Extension of Time request is being processed in accordance with Oregon Administrative Rule Chapter 690, Division 315

Please read this Proposed Final Order in its entirety as it contains additional conditions not included in the original permit.

This Proposed Final Order applies only to Permit G-15646, water right Application G-15567.
A copy of Permit G-15646 is enclosed as Attachment 1.

Summary of Proposed Final Order for Extension of Time

The Department proposes to:

- Grant an extension of time to apply water to full beneficial use from October 1, 2008 to October 1, 2015.
- Make the extension subject to certain conditions set forth below.

ACRONYM QUICK REFERENCE

Department – Oregon Department of Water Resources
PFO – Proposed Final Order

Units of Measure
cfs – cubic feet per second
gpm – gallons per minute

AUTHORITY

Generally, see ORS 537.630 and OAR Chapter 690 Division 315.

ORS 537.630(1) provide in pertinent part that the Oregon Water Resources Department (Department) may, for good cause shown, order an extension of time within which: irrigation or other works shall be completed; the well or other means of developing and securing ground water shall be completed; or the right perfected. In determining the extension, the Department shall give due weight to the considerations described under ORS 539.010(5) and to whether other governmental requirements relating to the project have significantly delayed completion of construction or perfection of the right.

ORS 539.010(5) provides in pertinent part that the Water Resources Director, for good cause shown, may extend the time within which the full amount of the water appropriated shall be applied to a beneficial use. This statute instructs the Director to consider: the cost of the appropriation and application of the water to a beneficial purpose; the good faith of the appropriator; the market for water or power to be supplied; the present demands therefore; and the income or use that may be required to provide fair and reasonable returns upon the investment.

OAR 690-315-0040 provides in pertinent part that the Water Resources Department shall make findings to determine if an extension of time may be approved to complete construction and/or apply water to full beneficial use.

OAR 690-315-0050(6) requires the Department, for extensions exceeding five years, to establish checkpoints to determine if diligence is being exercised in the development and perfection of the water use permit. Intervals between checkpoints will not exceed five year periods.

FINDINGS OF FACT

Background

1. Permit G-15646 was granted by the Department on January 5, 2005. The permit authorizes the use of up to 1.604 cfs of water, being 1.114 cfs from Well 1 and 0.490 cfs from Well 2 cfs from two wells in Bear Creek Basin for Nursery Use of 174.09 acres. The permit specified complete application of water was to be made on or before October 1, 2008.

2. The permit holders submitted an "Application for Extension of Time" to the Department on June 30, 2009 requesting the time to apply water to full beneficial use under the terms and conditions of Permit G-15646 be extended from October 1, 2008 to October 1, 2015. This is the first permit extension requested for Permit G-15646.

3. Notification of the Application for Extension of Time for Permit G-15646 was published in the Department's Public Notice dated July 7, 2009. No public comments were received regarding the extension application.

Review Criteria *[OAR 690-315-0040]*

The time limits to complete construction and/or apply water to full beneficial use may be extended if the Department finds that the permit holder has met the requirements set forth under OAR 690-315-0040. This determination shall consider the applicable requirements of ORS 537.230[1], 537.248[2], 537.630[3] and/or 539.010(5)[4].

Complete Extension of Time Application *[OAR 690-315-0040(1)(a)]*

4. On June 30, 2009 the Department received a completed Application for Extension of Time and the fee specified in ORS 536.050 from the permit holders.

Start of Construction *[OAR 690-315-0040(1)(b) and 690-315-0040(5)]*

5. Senate Bill 300 (1999 legislation) eliminates the requirement that holders of new surface water and ground water permits start construction on water projects within one year after the Department issues the permit. Senate Bill 300 applies to any application for a permit filed after October 23, 1999.

Duration of Extension *[OAR 690-315-0040(1)(c)]*

Under OAR 690-315-0040(1)(c), in order to approve an extension of time for water use permits the Department must find that the time requested is reasonable and the applicant can complete the project within the time requested.

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[1]ORS 537.230 applies to surface water permits only.

[2]ORS 537.248 applies to reservoir permits only.

[3]ORS 537.630 applies to ground water permits only.

[4]ORS 539.010(5) applies to surface water and ground water permits.

6. As of June 30, 2009 the remaining work to be completed consists of submitting water use reporting for 2009, developing remaining acreage, applying for a permit amendment and applying water to full beneficial use.

7. Given the amount of development left to occur, the Department has determined that the permit holders request to have until October 1, 2015 to accomplish the application of water to beneficial use under the terms and conditions of Permit G-15646 is both reasonable and necessary.

Good Cause *[OAR 690-315-0040(1)(d)]*

The Department's determination of good cause shall consider the requirements set forth under OAR 690-315-0040(2).

Reasonable Diligence of the Appropriator *[OAR 690-315-0040(2)(a)]*.
The Department's determination of reasonable diligence shall consider the requirements set forth under OAR 690-315-0040(3)(a-d). In accordance with OAR 690-315-0040(3), the Department shall consider, but is not limited to, the following factors when determining whether the applicant has demonstrated reasonable diligence in previous performance under the permit:

Amount of Construction *[OAR 690-315-0040(3)(a)]*

8. Work was accomplished within the time allowed in the permit or previous extension as follows:

   a. Construction of the well was completed prior to October 1, 2008.

   b. Work completed (specified in the Application for an Extension of Time) during the original development time frame under Permit G-15646 includes installing additional mainlines and hydrants.

Beneficial Use of Water *[OAR 690-315-0040(3)(b)]*

9. The following beneficial use of water was made during the permit or previous extension time limits:

   a. Since the issuance of Permit G-15646 on January 5, 2005 a maximum rate of 1.78 cfs of water has been appropriated from the wells for nursery use on 146.0 acres. **This exceeds the amount of water authorized under this permit. The authorized amount of water for nursery use under Permit G-15646 is 1.604 cfs, being 1.114 cfs from Well 1 and 0.490 cfs from Well 2 cfs.**

Compliance with Conditions *[OAR 690-315-0040(3)(c)]*

10. The water right permit holder's conformance with the permit or previous extension conditions.

    a. The Department has considered the permit holders compliance with conditions, and has identified the following concern: the record does not show that the

required March static water level measurements have been received by the Department.

b. Failure to comply with permit conditions constitutes illegal use of water. The use of water under this permit, therefore, has not yet been demonstrated. In order to legally perfect the use of water under this permit, the permit holder must demonstrate that all conditions of the permit have been satisfied.

Financial Investments *[OAR 690-315-0040(3)(d)]*

11. Financial investments made toward developing the beneficial water use.

a. As of June 30, 2009 the permit holders have invested approximately $115,000 which is approximately 32 percent of the total projected cost for complete development of this project. The permit holders anticipate an additional $250,000 investment is needed for the completion of this project.

Cost to Appropriate and Apply Water to a Beneficial Purpose *[OAR 690-315-0040(2)(b)]*

12. As of June 30, 2009 the permit holders have invested approximately $115,000 which is approximately 31 percent of the total projected cost for complete development of this project. The permit holders anticipate an additional $250,000 investment is needed for the completion of this project.

Good Faith of the Appropriator *[OAR 690-315-0040(2)(c)]*

13. The Department has found good faith of the appropriator under Permit G-15646.

The Market and Present Demands for Water *[OAR 690-315-0040(2)(d-e)]*

The Department's determinations of market and present demand for water or power to be supplied shall consider the requirements set forth under OAR 690-315-0040(4)(a-f). In accordance with OAR 690-315-0040(4), the Department shall consider, but is not limited to, the following factors when determining the market and the present demand for water or power to be supplied:

14. The amount of water available to satisfy other affected water rights and scenic waterway flows; special water use designations established since permit issuance, including but not limited to state scenic waterways, federal wild and scenic rivers, serious water management problem areas or water quality limited sources established under 33 U.S.C. 1313(d); or the habitat needs of sensitive, threatened or endangered species, in consultation with the Oregon Department of Fish and Wildlife *[OAR 690-315-0040(4)(a-c)]*.

a. The amount of water available to satisfy other affected water rights and scenic waterway flows was determined at the time of issuance of Permit G-15646; furthermore, water availability for other affected water rights and scenic waterway flows after the permit was issued is determined at such time that such application for a new water right is submitted. The points of appropriation for Permit G-15646, located within the Bear Creek Basin, are not located within a

limited or critical ground water area. Bear Creek is not located within or above any state or federal scenic waterway, is located within an area ranked "low" for stream flow restoration needs as determined by the Department in consultation with the Oregon Department of Fish and Wildlife, and is located within a Sensitive, Threatened or Endangered Fish Species Area as identified by the Department in consultation with Oregon Department of Fish and Wildlife. Bear Creek is listed by the Department of Environmental Quality as a water quality limited stream.

15. Economic investment in the project to date *[OAR 690-315-0040(4)(d)]*.

    a. As of June 30, 2009 the permit holder has invested approximately $115,000

16. Other economic interests dependent on completion of the project *[OAR 690-315-0040(4)(e)]*.

    a. None have been identified.

17. Other factors relevant to the determination of the market and present demand for water and power *[OAR 690-315-0040(4)(f)]*.

    a. None have been identified.

18. OAR 690-315-0050(6) requires the Department to place a checkpoint condition on this extension of time in order to ensure diligence is exercised in the development and perfection of the water use permit. A "Checkpoint Condition" is specified under Item 1 of the "Conditions" section of this PFO to meet this condition.

Fair Return Upon Investment *[OAR 690-315-0040(2)(f)]*

19. Use and income from the permitted water development results in reasonable returns upon the investment made to date.

Other Governmental Requirements *[OAR 690-315-0040(2)(g)]*

20. Delay in the development of this project was not caused by any other governmental requirements.

Unforeseen Events *[OAR 690-315-0040(2)(h)]*

21. Unforeseen events extended the length of time needed to fully develop and perfect Permit G-15646 in that there was miscommunication between the permit holders and their agent with regards to water use reporting. Additionally, financial limitations slowed the process of purchasing additional acreage.

CONCLUSIONS OF LAW

1. The applicant is entitled to apply for an extension of time to complete construction and/or

completely apply water to the full beneficial use pursuant to ORS 537.630(1).

2. The applicant has submitted a complete extension application form and the fee specified in ORS 536.050, as required by OAR 690-315-0040(1)(a).

3. The applicant complied with begin actual construction timeline requirements pursuant to ORS 537.630 as required by OAR 690-315-0040(1)(b) and OAR 690-315-0040(5).

4. Full application of water to beneficial use can be accomplished by October 1, 2015[5], as required by OAR 690-315-0040(1)(c).

5. The Department has considered the reasonable diligence and good faith of the appropriator, the cost to appropriate and apply water to a beneficial purpose, the market and present demands for water to be supplied, the financial investment made and fair and reasonable return upon the investment, the requirements of other governmental agencies, and unforeseen events over which the permit holder had no control, whether denial of the extension will result in undue hardship to the applicant and whether there are no other reasonable alternatives for meeting water use needs, any other factors relevant to a determination of good cause, and has determined that the applicant has shown that good cause exists for an extension of time to apply water to full beneficial use pursuant to OAR 690-315-0040(1)(d).

6. As required by OAR 690-315-0050(6) and as described in Finding 18 above, the Department has established, as specified in the "Conditions" section of this PFO (Item 1), progress checkpoints in order to ensure future diligence is exercised in the development and perfection of Permit G-15646.

Proposed Order

Based upon the foregoing Findings of Fact and Conclusions of Law, the Department proposes to issue an order to:

> Extend the time to apply water to beneficial use under Permit G-15646 from October 1, 2008 to October 1, 2015.

Subject to the following conditions:

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[5]Pursuant to ORS 537.630(4), upon the completion of beneficial use of water allowed under the permit, the permittee shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permittee shall submit a map of the survey and a new or revised claim of beneficial use as deemed appropriate by the Department.

CONDITIONS

1. **Checkpoint Condition**
The permit holder must submit a completed Progress Report Form to the Department by **October 1, 2013.** ***A form will be enclosed with your Final Order.***

(a) At each checkpoint, the permit holder shall submit and the Department shall review evidence of the permit holder's diligence towards completion of the project and compliance with terms and conditions of the permit and extension. If, after this review, the Department determines the permit holder has not been diligent in developing and perfecting the water use permit, or complied with all terms and conditions, the Department shall modify or further condition the permit or extension to ensure future compliance, or begin cancellation proceedings on the undeveloped portion of the permit pursuant to ORS 537.260 or 537.410, or require submission of a final proof survey pursuant to ORS 537.250;

(b) The Department shall provide notice of receipt of progress reports in its weekly notice and shall allow a 30 day comment period for each report. The Department shall provide notice of its determination to anyone who submitted comments.

DATED: March 23, 2010

Dwight French
Administrator
Water Rights & Adjudications Division

If you have any questions, please check the information box on the last page for the appropriate names and phone numbers.

Proposed Final Order Hearing Rights

1. Under the provisions of OAR 690-315-0100(1) and 690-315-0060, the applicant or any other person adversely affected or aggrieved by the proposed final order may submit a written protest to the proposed final order. The written protest must be received by the Water Resources Department no later than **May 7, 2010** being 45 days from the date of publication of the proposed final order in the Department's weekly notice.

2. A written protest shall include:
   a. The name, address and telephone number of the petitioner;

b. A description of the petitioner's interest in the proposed final order and if the protestant claims to represent the public interest, a precise statement of the public interest represented;
c. A detailed description of how the action proposed in the proposed final order would adversely affect or aggrieve the petitioner's interest;
d. A detailed description of how the proposed final order is in error or deficient and how to correct the alleged error or deficiency;
e. Any citation of legal authority supporting the petitioner, if known;
f. Proof of service of the protest upon the water right permit holder, if petitioner is other than the water right permit holder; and
g. The applicant or non-applicant protest fee required under ORS 536.050.

3. Within 60 days after the close of the period for requesting a contested case hearing, the Director shall:
   a. Issue a final order on the extension request; or
   b. Schedule a contested case hearing if a protest has been submitted, and:
      1) Upon review of the issues, the Director finds there are significant disputes related to the proposed agency action; or
      2) The applicant submits a written request for a contested case hearing within 30 days after the close of the period for submitting protests.

- If you have any questions about statements contained in this document, please contact Scott Kudlemyer at 503-986-0813.
- If you have questions about how to file a protest or if you have previously filed a protest and you want to know the status, please contact Patricia McCarty at 503-986-0819.
- If you have any questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at 503-986-0801.
- Address any correspondence to : Water Rights and Adjudications Division
  725 Summer St NE, Suite A
  Fax: 503-986-0901 Salem, OR 97301-1266

Mailing List for Extension PFO Copies

PFO Date: March 23, 2010

Application G-15567
Permit G-15646

Copies Mailed

By: QS
On: 3/23/10

Original mailed to Applicant:

Joel Neuschwander and Leo Gentry
6097 S. Whiskey Hill Rd
Hubbard, OR 97932

Copies sent to:

1. WRD - App. File G-15567/ Permit G-15646
2. WRD - Watermaster District 16, Mike McCord

Fee paid as specified under ORS 536.050 to receive copy:

3. None

Receiving via e-mail (10 AM Tuesday of signature date)

4. PFO: WRD – Watermaster District 16 – Mike McCord, Salem

Done by _____ *Date* 3/16/10

CASEWORKER: SBK

STATE OF OREGON

COUNTY OF CLACKAMAS

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

JOEL NEUSCHWANDER & LEO GENTRY
6097 S WHISKEY HILL RD
HUBBARD, OREGON 97032

The specific limits and conditions of the use are listed below.

RECEIVED
JUN 30 2009
WATER RESOURCES DEPT
SALEM, OREGON

APPLICATION FILE NUMBER: G-15567

SOURCE OF WATER: TWO WELLS IN BEAR CREEK BASIN

PURPOSE OR USE: NURSERY USE OF 174.09 ACRES. (3)

MAXIMUM RATE: 1.604 CUBIC FEET PER SECOND, BEING 1.114 CFS FROM WELL 1 AND 0.490 CFS FROM WELL 2

PERIOD OF USE: YEAR-ROUND

DATE OF PRIORITY: July 25, 2001

WELL LOCATIONS:

Well 1: SENE, SECTION 32, T 4S, R1E, W.M.;
550 FEET NORTH & 1250 FEET WEST FROM E1/4 CORNER, SECTION 32

Well 2: SENW, SECTION 32, T 4S, R1E, W.M.;
50 FEET NORTH & 50 FEET WEST FROM C1/4 CORNER, SECTION 32

The amount of water used for nursery use is limited to a maximum of 5.0 acre feet per acre and a diversion of 0.15 cubic foot per second per acre. For irrigation of containerized nursery plants, the amount of water diverted is limited to one fortieth of one cubic foot per second and 5.0 acre feet per acre per year. For irrigation of in-ground nursery plants the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre per year. The use of water for nursery use may be made at any time, during the period of allowed use specified above, that the use is beneficial. For irrigation of any other crop, the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SW ¼ NE ¼	37.8 ACRES
SE ¼ NE ¼	25.6 ACRES
SE ¼ NW ¼	40.0 ACRES
NE ¼ SW ¼	23.0 ACRES
NW ¼ SE ¼	23.84 ACRES
SW ¼ SE ¼	23.85 ACRES

SECTION 32
TOWNSHIP 4 SOUTH, RANGE 1 EAST, W.M.

RECEIVED
JUN 30 2009
WATER RESOURCES DEPT
SALEM, OREGON

Measurement, recording and reporting conditions:

A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit. (1) (2)

B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

STANDARD CONDITIONS

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water

level or pump test results every ten years thereafter.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Complete application of the water to the use shall be made on or before October 1, 2008. If the water is not completely applied before this date, and the permittee wishes to continue development under the permit, the permittee must submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE).

Issued January 5th, 2005

Phillip C. Ward, Acting Director
Water Resources Department

RECEIVED
JUN 30 2009
WATER RESOURCES DEPT
SALEM, OREGON

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem Oregon 97301
(503) 986-0900
www.wrd.state.or.us

Application for

Extension of Time for a Water Right Permit

(Non-Municipal/Non-Quasi-municipal Water Use)

TO THE DIRECTOR OF THE OREGON WATER RESOURCES DEPARTMENT

A separate extension application must be submitted for <u>each</u> permit as per OAR 690-315-0020(2).

This application and a summary of review criteria and procedures that are generally applicable to this application are available at http://www.wrd.state.or.us/OWRD/PUBS/forms.shtml.

I, Joel Neuschwander and Leo Gentry
FIRST NAME OF PERMIT HOLDER — LAST NAME OF PERMIT HOLDER *[OAR 690-315-0020(1) and (3)(a)]*

6097 S. Whiskey Hill Road
ADDRESS

Hubbard — CITY
OR — STATE
97032 — ZIP

(503) 651-3253 — PHONE
EMAIL ADDRESS

the permit holder of: **Application Number** G - 15567

Permit Number G - 15646

☐ **do hereby request that the time in which to:**

complete construction (of diversion/appropriation works and/or purchase and installation of the equipment necessary to the use of water), which time now expires on October 1, _____ , be extended to October 1, _____ ,

☒ **and/or the time in which to:**

apply water to full beneficial use under the terms and conditions of the permit, which time now expires on October 1, 2008 , be extended to October 1, 2015 .

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SALEM, OREGON

Before submitting your Application for Extension of Time, make sure the following items are included:

- This completed Application for Extension of Time.
- Statutory fee of $350.
- Signature page (last page of this Application for Extension of Time).
- All supporting documentation and/or evidence referenced in the Application for Extension of Time.

MAIL COMPLETED APPLICATION

along with the $350

STATUTORY FEE TO:

Water Resources Department
Attn: Water Right Permit Extensions
725 Summer Street NE, Suite A
Salem, Oregon 97301



GENERAL TIPS:

- Permit holders of municipal or quasi-municipal water use permits DO NOT use this form. The correct form is *Application for Extension of Time for Municipal and Quasi-Municipal Water Use Permits*, available at the following link: http://www1.wrd.state.or.us/pdfs/muni_quasi_ext_app_form_6_20_08.pdf
- Request the reasonable amount of time necessary to fully complete the water construction project and/or to fully use the permitted quantity of water under the terms and conditions of your permit. Should this request be approved, it will be OWRD's expectation that you will complete your project within the new time period allowed. Future extensions may not be granted.
- A separate Application for Extension of Time must be submitted for each permit. OAR 690-315-0020(2).
- An instruction sheet (Instructions for Filling Out Extension of Time Application for Permits) provides details that will help you answer each question on the application. Permit extensions are evaluated under OAR Chapter 690, Division 315. These rules may be viewed at: http://www.wrd.state.or.us/OWRD/LAW/index.shtml .

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- You may provide OWRD with any additional information or evidence that will aid us in making our decision. Please note that OWRD may require other information that is necessary to evaluate the application. OAR 315-0020(3)(n).

- After careful review of the Application for Extension of Time, you may contact OWRD at (503) 986-0900, to ask questions and request assistance from a Permit Extensions Specialist in the Water Rights and Adjudications Division.

- Once an Application for Extension of Time is received by OWRD, it will be reviewed for completeness. OWRD will return any incomplete or deficient applications to the applicant. OAR 690-315-0040(1)(a).

Reference Materials Needed to Complete this Application:

- The water right permit. If needed, a copy of the water right permit can be downloaded from the Department's Website at *http://www.wrd.state.or.us* (find the link to the Water Rights Information System (WRIS). Or, a copy of the permit (or other documents) may be requested by water right application number from the Water Rights Division at 503-986-0900 (copy fees will apply).

- Documentation which demonstrates compliance with permit conditions (for example, well construction logs; static water level measurement reports; annual water use reports; ODFW fish screen certification;, a plan to monitor the effect of water use on ground water aquifers utilized under the permit; etc.).

Answer the Following Questions to Complete this Application for Extension of Time

[OAR 690-315-0020(3)(d)]

1. **Did the actual construction of the water system/well drilling begin within the time specified in the permit?** ○ Yes ○ No



TIP: *Not all permits specify a date by which construction was to begin.*

Date construction began is: NA

Details of construction:

There is no date specified in the permit for beginning construction.

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[OAR 690-315-0020(3)(e)(A)]

2. **Permits typically contain standard or special conditions that must be satisfied to lawfully develop and use permitted water. In the development of this water right, have you satisfied the conditions contained in your permit? [yes/no]**

A) **Describe how you have complied with each condition contained in the original permit [and, if applicable, each condition contained in any order approving a permit amendment and/or a final order approving a prior extension of time]. Include the date when the condition was satisfied.**



TIP: *The instruction sheet for the Application for Extension of Time provides an explanation of the typical conditions that must be addressed in this question.*

CHART-A

Condition No.**	Date Satisfied	Describe How Permit Condition Has Been Satisfied
1	09/06	Flow meters installed on Wells 1 and 2 in September 2006.

** ***Condition No:*** *Hand-number each condition on a copy of your permit (and, if applicable, permit amendment and prior extension).*

B) **If you have NOT complied with all applicable conditions, explain the reasons why and indicate with a date certain (in the near future) when compliance will occur.**

CHART-B

Condition No.**	Date Will Comply	Explain Why Each Permit Condition Has NOT Been Satisfied
2	2009	Not aware of requirement for reporting.
3	2015	Not all of the authorized acreage has been developed. Please see answers to Question 9.

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** ***Condition No:*** *Hand-number each condition on a copy of your permit (and, if applicable, permit amendment and prior extension.*

[OAR 690-315-0020(3)(e)]

3. **Provide evidence of physical progress made toward completion of the water system, and of progress made toward making beneficial use of water within the permitted time period (CHART-C); and if applicable, within the time period of the most recent extension granted (CHART-D).**

   A) **CHART-C (below) must be completed for all Application for Extension of Time requests.** ***Use chronological order.***

CHART-C

DATE	WORK ACCOMPLISHED BEFORE PERMIT WAS ISSUED *List any work done before the permit was issued - eg. well drilled.*	COST*
5/88 to10/89	Well 1 drilled, pump installed, mainline installed, and additional hand lines purchased.	$33,500
12/96 to 10/01	Well 2 drilled, pump installed, mainline installed, additional hand lines and hard hose traveller purchased.	$74,000

DATE	WORK ACCOMPLISHED AFTER PERMIT WAS ISSUED *and* PRIOR TO DATE SPECIFIED IN PERMIT FOR COMPLETE APPLICATION OF WATER *List work/actions done during the permitted time period.*	COST*
1/5/05	The permit was signed - find date above signature on last page of permit.	
Not Applicable	The permit specified "Actual Construction Work" shall begin ("A-Date") - not all permits contain this date.	
2006	Additional mainlines and hydrants installed	$8,000
10/1/2008	The permit specified complete application of water to the use shall be made ("C-Date")- all permits contain this date.	

CHART-C (continued)

DATE	WORK ACCOMPLISHED AFTER "C-DATE" *COMPETE ONLY IF THIS IS YOUR 1st APPLICATION FOR EXTENSION OF TIME: List work done after the date specified in the permit for complete application of water up to the date of this Application for Extension of Time.*	COST*
	Total cost for Chart-C	$115,500

*** If exact cost is not known, you must provide your best estimate.**

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B) **If this is not your 1st Application for Extension of Time request, fill out CHART-D below (in addition to CHART-C above).** ***Use chronological order.***

CHART-D

DATE	WORK ACCOMPLISHED DURING THE LAST EXTENSION PERIOD *List all work done during the last authorized extension period.*	COST*
10/1/____	"Extended From" date for complete application of water used in the 1st (or the most recent) Application for Extension of Time.	
	Not Applicable	
10/1/____	"Extended To" date for complete application of water resulting from the 1st (or the most recent) Application for Extension of Time.	

CHART-D (Continued)

DATE	WORK ACCOMPLISHED AFTER THE LAST EXTENSION PERIOD EXPIRED *List all work done after the last authorized date for complete application of water up to the date of this Application for Extension of Time.*	COST*
	Not Applicable	
	Total Cost of Chart-D	

*** If exact cost is not known, you must provide your best estimate.**

[OAR 690-315-0020(3)(f)]

4. **Cost of project to date:** $115,500

(The total combined cost from CHART-C and CHART-D)

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[OAR 690-315-0020(3)(e)(B)]

5. Provide the maximum rate, or duty, of water diverted for beneficial use under this permit, made to date.

TIP: Report the rate in the same units of measurement as specified in the permit, being cfs (cubic feet per second), gpm (gallons per minute) or AF (acre-feet - usually only specified on a reservoir water right). Do not provide daily, monthly or annual water volume totals.

Maximum rate used to date = 1.78 **cfs (cubic feet per second)** *or,*

Maximum rate used to date = ~800 **gpm (gallons per minute)** *or,*

Acre-feet to date = _____ **AF**

[OAR 690-315-0020(3)(e)(C)]

6. Provide the total number of acres irrigated to date under this permit (if applicable).

Total acres irrigated to date: ~146

[OAR 690-315-0020(3)(j)]

7. Provide a summary of your future plans and schedule to complete the construction of the water system, and/or apply water to full beneficial use under the terms and conditions of the permit.

CHART-E

APPROXIMATE DATE RANGE (projected)	WORK OR ACTION TO BE ACCOMPLISHED (projected)	ESTIMATED COST (projected)
2009	Submit water use reporting for 2009 season.	$0.00
2009-2015	Acquire adjacent lands to move portion of permitted POU under a permit amendment.	$250,000
Year: 2015	Intend to apply water to full beneficial use under the terms and conditions of this permit.	
	Total Cost	$250,000

[OAR 690-315-0020(3)(g)]

8. Estimated remaining cost to complete the project: $250,000
(The total cost from CHART-E)

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[OAR 690-315-0020(3)(h)]

9. **List the reasons why the project was not constructed, and/or water was not beneficially used within permit time limits.** ***Provide supporting information for the reason(s) that best fits your circumstances (A, B, C or D).***

A) **The project is of a size and scope that was originally planned to be phased in over a time frame longer than the one allowed in the permit.**

Not Applicable

B) **The financial resources needed to develop the project precluded completion of the project within authorized time frames.**

Certain portions of the place of use authorized under Permit G-15646 could be more feasibly and efficiently irrigated if moved to adjacent property, which is what we hope to accomplish. Financial limitations, along with other factors, have prevented us from purchasing the adjacent property, which would be required in order to qualify for making a change in place of use under a permit amendment.

C) **Good faith attempts to comply with permit conditions and/or acquire permits from other agencies, or otherwise comply with government regulations, delayed completion of the project.**

Not Applicable.

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D) Acts of God or other unforeseen events delayed full development of the water system and use of water within the authorized time frames.

Our failure to complete the required water user reporting resulted from a misunderstanding based on communication we had with the individual who was acting as our agent throughout the process of applying for Permit G-15646.

In addition to the financial limitations described above in Section B, the adjacent property that we wish to acquire and transfer some of the permitted rights to, will not likely be available for purchase for several years.

[OAR 690-315-0020(3)(k)]

10. Justify the time requested to complete the project and/or apply the water to full beneficial use. Your justification should combine information from your answers from Questions 2, 3-A, 3-B, 7 and 9 of this Application for Extension of Time, and should also include any other information or evidence to establish that the requested amount of time is sufficient and that you will be able to complete the project within the amount of time requested.

We will perform the necessary water use recording for the 2009 season and will be prepared to submit the 2009 water use data at the end of the year.

We have been notified by the owner of the adjacent properties we wish to purchase that we have the first right of refusal when the property goes up for sale. However, it could be several years before the property becomes available to purchase. This is why we are requesting extension of the date to put water to beneficial use to 2015.

11. Provide any other information you wish OWRD to consider while evaluating your Extension of Time Application.

None.

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I am the permit holder, or have authorization from the permit holder, to apply for an extension of time under this permit. I understand that false or misleading statements in this extension application are grounds for OWRD to suspend processing of the request and/or reason to deny the extension.

Signature 6/29/09 Date

STATE OF OREGON

COUNTY OF CLACKAMAS

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

JOEL NEUSCHWANDER & LEO GENTRY
6097 S WHISKEY HILL RD
HUBBARD, OREGON 97032

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15567

SOURCE OF WATER: TWO WELLS IN BEAR CREEK BASIN

PURPOSE OR USE: NURSERY USE OF 174.09 ACRES.

MAXIMUM RATE: 1.604 CUBIC FEET PER SECOND, BEING 1.114 CFS FROM WELL 1 AND 0.490 CFS FROM WELL 2

PERIOD OF USE: YEAR-ROUND

DATE OF PRIORITY: July 25, 2001

WELL LOCATIONS:

Well 1: SENE, SECTION 32, T 4S, R1E, W.M.;
550 FEET NORTH & 1250 FEET WEST FROM E1/4 CORNER, SECTION 32

Well 2: SENW, SECTION 32, T 4S, R1E, W.M.;
50 FEET NORTH & 50 FEET WEST FROM C1/4 CORNER, SECTION 32

The amount of water used for nursery use is limited to a maximum of 5.0 acre feet per acre and a diversion of 0.15 cubic foot per second per acre. For irrigation of containerized nursery plants, the amount of water diverted is limited to one fortieth of one cubic foot per second and 5.0 acre feet per acre per year. For irrigation of in-ground nursery plants the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre per year. The use of water for nursery use may be made at any time, during the period of allowed use specified above, that the use is beneficial. For irrigation of any other crop, the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SW ¼ NE ¼	37.8 ACRES
SE ¼ NE ¼	25.6 ACRES
SE ¼ NW ¼	40.0 ACRES
NE ¼ SW ¼	23.0 ACRES
NW ¼ SE ¼	23.84 ACRES
SW ¼ SE ¼	23.85 ACRES

SECTION 32
TOWNSHIP 4 SOUTH, RANGE 1 EAST, W.M.

Measurement, recording and reporting conditions:

A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

STANDARD CONDITIONS

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water

level or pump test results every ten years thereafter.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Complete application of the water to the use shall be made on or before October 1, 2008. If the water is not completely applied before this date, and the permittee wishes to continue development under the permit, the permittee must submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE).

Issued January 5th, 2005

Dwight Stroh for

Phillip C. Ward, Acting Director
Water Resources Department

Extension PFO Checklist for

Other than Muni or Quasi-Municipal

Water Use Permits

(OAR 690-315-0010 through OAR 690-315-0060)

Application: G- 15567 Permit: G- 15646 Permit Amendment? No ☒ Yes ☐ T- _____ ☐ pending ☐ approved

Permit Holder's Name: Joel Neuschwander and Leo Gentry

Permit Holder's Mailing Address: 6097 South Whiskey HIll Rd Hubbard, OR 97032 email _____

Phone Number: 503-651-3252

POD Location: Township 4 SOUTH Range 2 EAST Section 32 ¼¼ SENE,SEWW

Drainage Basin: 2 County: Clackamas Watermaster District: 20 Watermaster: Sabrina White-Scarver

Date Permit was issued: 1/5/2005 **Priority Date:** 7/25/2001 **Date of PN:** 7/7/2009

Source: Two wells is Bear Creek Basin

Use: Nursery Use of 174.09 Acres

"Q": 1.604 cfs, being 1.114 cfs from Well 1 and 0.490 cfs from Well 2

Orig "A" Date: _____ **Orig "B" Date:** 10/1/_____ **Orig "C" Date:** 10/1/2008

Extension request rec'd: 6/30/2009 **Last Authorized "B" Date:** 10/1/_____ **Last Authorized "C" Date:** 10/1/2008

Request Number (1, 2, 3...): 1 **Proposed "B" Date:** 10/1/_____ **Proposed C Date:** 10/1/~~2008~~ 2015

Conditions of Permit:

Condition Met?	Condition Not Met?	Permit Condition
☒	☐	Install meter
☐	☒	Annual water use reporting
☐	☐	
☐	☐	
☐	☐	

Factors to consider in determining "Reasonable Diligence" [OAR 690-315-0040(3)]:

Yes No

- ☒ ☐ Work was accomplished within the time allowed in the permit or previous extension
- ☒ ☐ Water right permit holder conformed with the permit or previous extension conditions
- ☒ ☐ Financial investments were made toward developing the beneficial water use.
  - Amount Invested to date: **$115,500** Estimated Remaining Cost: **$250,000**
- ☒ ☐ Beneficial use made of the water during the permit or previous extension time limits
  - Permit holder has beneficially used **1.78** ☒cfs☐gpm☐af of the total permitted quantity of water on **146** acres

No GW review needed.
Dwight Smol 7/14/09

Has the applicant pursued perfection of the right in good faith and with reasonable diligence? Yes ☐ No ☐

exceeds

Application: _-_____ Permit: _-_____ Township _____ Range _____ Section _____

Determination of the market and the present demand for water or power to be supplied:

Identify the closest surface water or localized water basin. Bear Creek

Ground Water Permits: Is the POA located…

Surface Water Permits: Is the POD located…

Yes No

☐ ☒ above a state scenic waterway? Name Source: OWRD "Areas Above State Scenic Waterways" Map

☐ ☒ within a stream segment designated as a federal wild and scenic river? Source: www.rivers.gov/wildriverslist.html

☒ ☐ within a sensitive, threatened or endangered species area Source: "/gisdata/dev/projects/salmon/div33map.aml"

☐ ☒ within a critical or limited Ground Water Area? Name of area

☐ ☒ within a Withdrawn Area? Name of area

☒ ☐ in a waterbody listed on the DEQ Section 303(d) List of Water Quality Limited Areas? Date added to list 1998

☒ ☐ within an area ranking ☒low / ☐moderate / ☐high / ☐highest for stream flow restoration needs Source: OWRD "Streamflow Restoration Needs" Maps (by region)

Based on the written record, can the Department make a finding of "Good Cause" to approve the extension request?

Yes... "Good Cause" can be found. ☒ Approval of Extension Request

No ... "Good Cause" *cannot* be found. ☐ Denial of Extension Request

Conditions to be included in Extension PFO (if applicable)? Yes ☒ No ☐

*(**NOTE:** Check the file record for documentation to add a condition(s) at the extension stage.)*

☒ 5-year Progress Report Checkpoints (Years: **2013**)

☐ Other: _____

Footnote regarding Claim of Beneficial Use. Choose the appropriate language below and insert as a footnote in the PFO:

☐ **COBU Requirement - Surface/Ground Water - on or prior to July 9, 1987**

"For permits applied for or received on or before July 9, 1987, upon complete development of the permit, you must notify the Department that the work has been completed and either: (1) Hire a water right examiner certified under ORS 537.798 to conduct a survey, the original to be submitted as required by the Water Resources Department, for issuance of a water right certificate; or (2) Continue to appropriate water under the water right permit until the Water Resources Department conducts a survey and issues a water right certificate under ORS 537.250 or 537.625."

☐ **COBU Requirement - Surface Water - post July 9, 1987**

"Pursuant to ORS 537.230(4), upon the completion of beneficial use of water allowed under the permit, the permit holder shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permit holder shall submit a map of the survey and the claim of beneficial use."

☒ **COBU Requirement - Ground Water - post July 9, 1987**

"Pursuant to ORS 537.630(4), upon the completion of beneficial use of water allowed under the permit, the permit holder shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permit holder shall submit a map of the survey and the claim of beneficial use."

NOTES:

Extension "PFO" Dates

Mailing / Issuance Date: _____ **Protest Deadline Date:** _____

Reviewer's Name: _____ **Date:** _____

Application # G1-13361 Permit # G-13676

Public Notice Route Slip ... New Application Extension of Time

per Division 315 Rules... (Extensions received on July 1, 2001 or after)

- **WRIG...**
  Money Receipted on: 6/30/09
- **Extension Specialist...**
  - ☑ Added to tracking spreadsheet

After fee is receipted and app is added to spreadsheet, route to...

- **Jonnine Skaug...**
  - ☑ Publish on Public Notice (initial 30-day comment): Date of notice 7/7/09
  - ☑ Update WRIS Database
  - ☑ In the "PNotice Date" field... Enter the date the Extension Application was published on the Public Notice.
  - ☑ In the "Ext Filed" field... Enter the date the Extension Application was received.

GW review

Yes or No: Return file to Extension Specialist after PN

RECEIPT # 96995

SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

INVOICE # _____

RECEIVED FROM: Newschwander's Nursery LLC

BY:

APPLICATION	G-15567
PERMIT	
TRANSFER	

CASH: ☐ CHECK:# ☒ 3936 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D $350.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES	$
_____	OTHER: (IDENTIFY) _____	$

0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

4270 WRD OPERATING ACCT

MISCELLANEOUS 46111

0407	COPY & TAPE FEES	$
0410	RESEARCH FEES	$
0408	MISC REVENUE: (IDENTIFY)	$
TC162	DEPOSIT LIAB: (IDENTIFY)	$
0240	EXTENSION OF TIME	$350.00

RECEIVED OVER THE COUNTER

WATER RIGHTS:

		EXAM FEE		RECORD FEE
0201	SURFACE WATER	$	0202	$
0203	GROUND WATER	$	0204	$
0205	TRANSFER	$		

WELL CONSTRUCTION

		EXAM FEE		LICENSE FEE
0218	WELL DRILL CONSTRUCTOR	$	0219	$
	LANDOWNER'S PERMIT		0220	$
_____	OTHER (IDENTIFY) _____			

0536 TREASURY 0437 WELL CONST. START FEE

0211	WELL CONST START FEE	$	CARD #
0210	MONITORING WELLS	$	CARD #
_____	OTHER (IDENTIFY) _____		

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

0233	POWER LICENSE FEE (FW/WRD)		$
0231	HYDRO LICENSE FEE (FW/WRD)		$
_____	HYDRO APPLICATION		$

____ TREASURY OTHER / RDX

FUND _____ TITLE _____

OBJ. CODE _____ VENDOR # _____

DESCRIPTION _____ $

RECEIPT: 96995 DATED: 6-30-09 BY: L. Bell

Distribution – White Copy - Customer, Yellow Copy - Fiscal, Blue Copy - File, Buff Copy - Fiscal

Oregon
Theodore R. Kulongoski, Governor

Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1271
503-986-0900
FAX 503-986-0904

July 7, 2009

REFERENCE: Application for Extension of Time

Dear Extension of Time Applicant:

The Water Rights Section has received your application for an extension of time for **APPLICATION FILE#: G-15567 (PERMIT#:G-15646).** Your application will be reviewed in the near future. Following the review, you will receive a Proposed Final Order either approving or rejecting the extension of time request. A 45-day protest period begins upon issuance of the Proposed Final Order. After the protest period closes, a Final Order is issued.

If you have questions concerning your extension of time application, please contact Scott Kudlemyer at (503) 986-0813. For general information about the Water Resources Department, you may contact the Water Resources' Customer Service Group at (503) 986-0801 or you may access the Department's Internet home page at: "**www.wrd.state.or.us**".

Pacific Hydro-Geol
18477 S. Valley Vista
Mulino, OR 97042
(503) 632-5016

RECEIVED
JUN 02 2003
WATER RESOURCES DEPT
SALEM, OREGON

June 1, 2003

Oregon Water Resources
Mr. Donn Miller
158 12th Street NE
Salem, Oregon 97310-0210

RE: Water Right Application G-15567, Joel Neuschwander

Dear Mr. Miller:

I am enclosing maps, cross sections, and well logs with additional information we have developed since the November 27, 2002 meeting that you do not have in the file. I am also enclosing a copy of the report prepared for Northwoods Nursery, which is approximately 4 miles east of Neuschwander. Several of the maps show a 1 mile radius from each Neushwander well, which marks the outside boundary of OAR 690-009-0040(4)(d). I am also enclosing the Initial Review Determination for water right application G-15687 (Valley Growers, CLACK 02356, Zyrynoff well log), which has been determined to be an illegally constructed well due to commingling and must be repaired.

Listed below are well logs we have identified with static water level measurements that show multiple confined aquifers. These wells are highlighted in yellow on Map 2. The review of well logs did not include T.4S. R.1E. Sections 27 and 35 and T.5S. R1E. Sections 3, 4, and 6.

CLACK 2356, Zyrynoff (Valley Growers Water Right App. No. G-15687)
CLACK 55788, Kelly
CLACK 11940, Jenks
CLACK 18458, LIngel
CLACK 12752, Blackledge
CLACK 18219, Traverso
CLACK 9804, Peoples
CLACK 12667, Lamon
CLACK12610, Sparks
CLACK 51686, Sheamon
CLACK 12574, Wormdahl
CLACK 12774, Miller, land owner driller
CLACK 52842, Yu, Miller property with 200 ft surface seal for irrigation well
CLACK 9236, Parrack

Neushwander
Well Construct.

CLACK 12526, Miller (Figure 1, Northwoods Nursery Report)
CLACK 56596, Frolov (Figure 1, Northwoods Nursery Report)
CLACK 18557, Nofziger (Figure 1, Northwoods Nursery Report)
CLACK 18748, Novak (Figure 1, Northwoods Nursery Report)

Please call us at 503.632.5016 if you have any questions or need additional information.

Sincerely,

Malia R. Kupillas

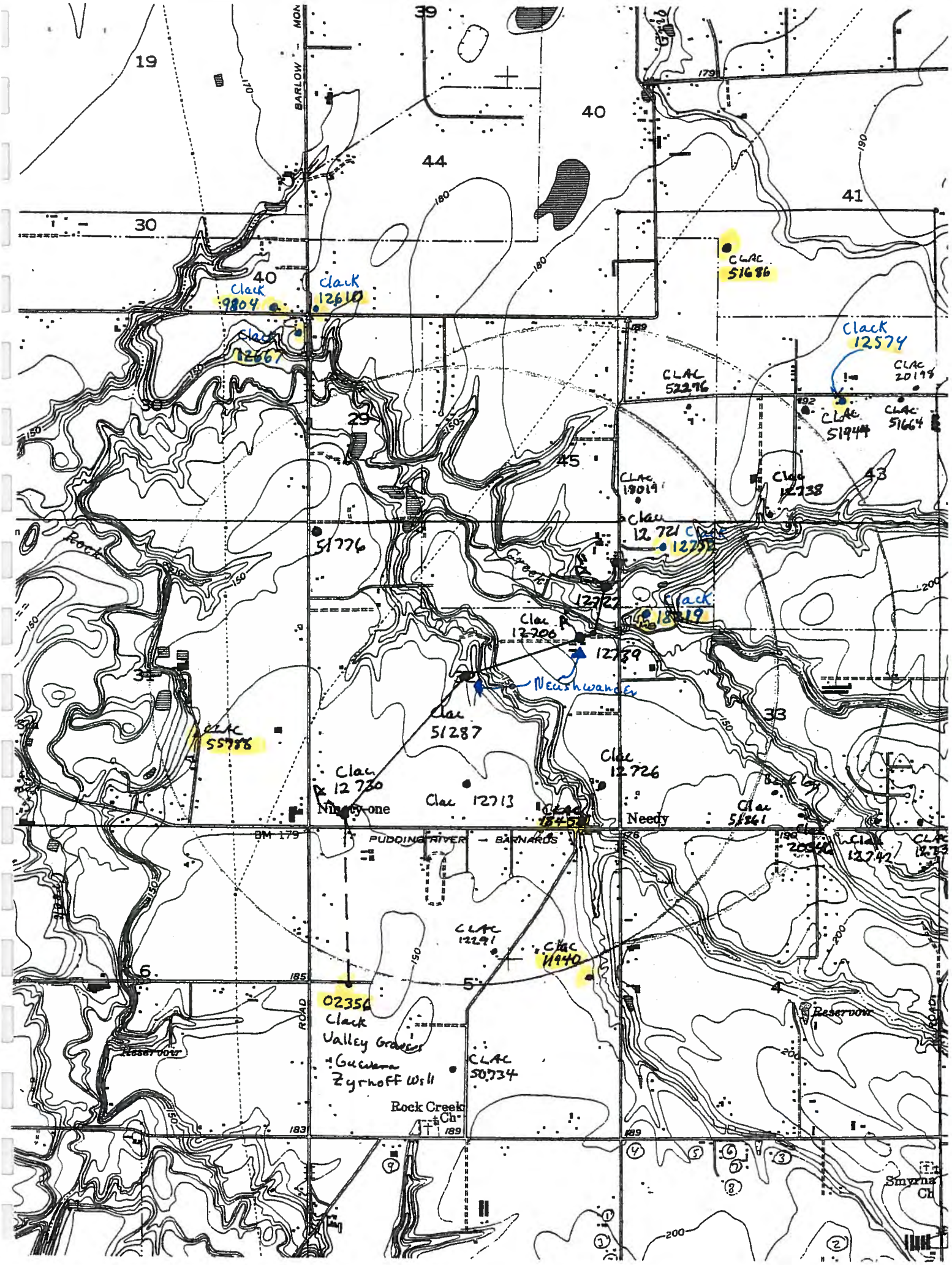
Malia R. Kupillas, R.G., C.W.R.E.

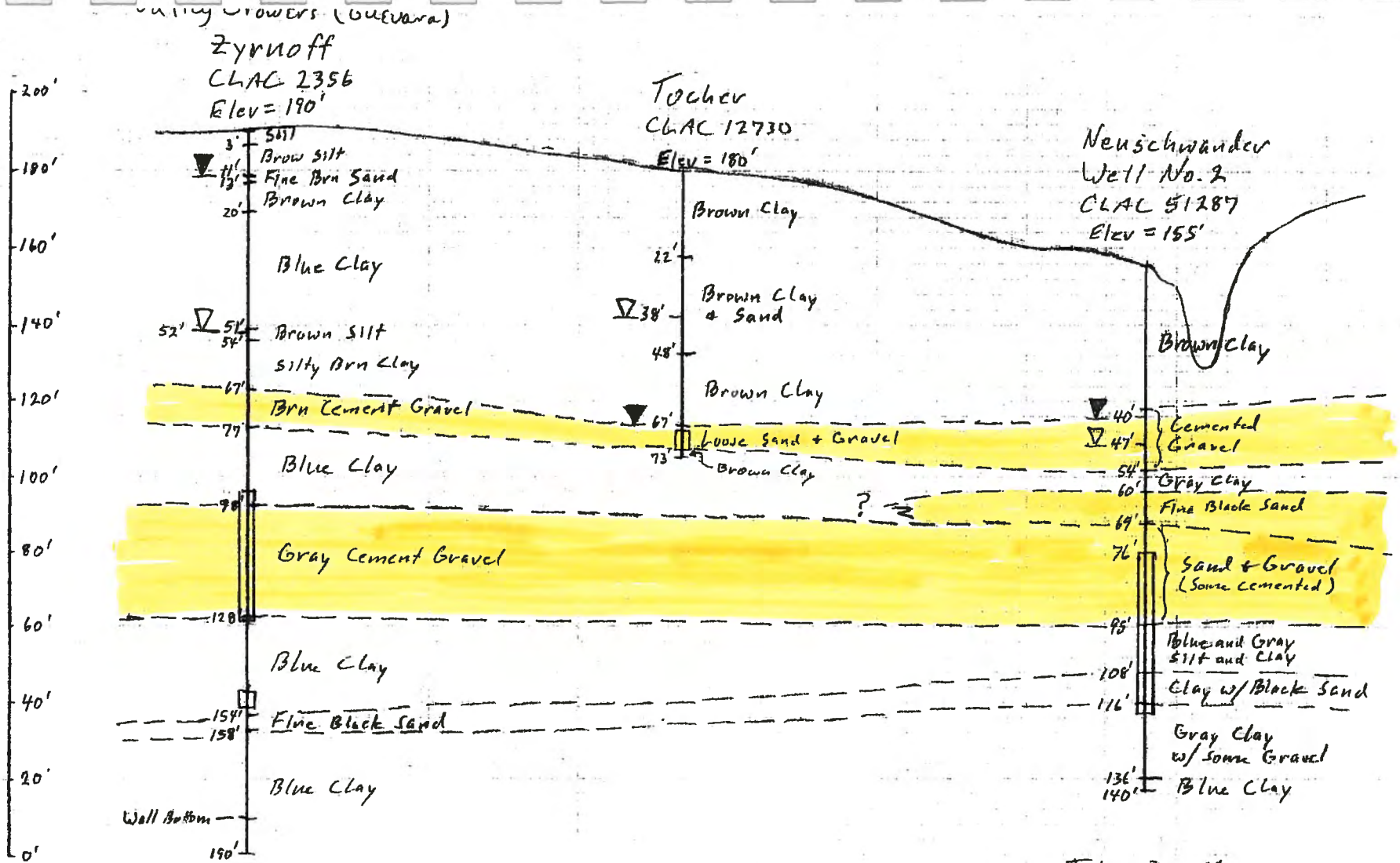
Gregory E. Kupillas, R.G., C.W.R.E.

Attachments: Well Logs Showing Multiple Static Water Levels
Additional Well Logs Not Showing Multiple Static Water Levels
Northwoods Nursery Information
Valley Growers Nursery Initial Review Determinations

REGISTERED PROFESSIONAL
OREGON
MALIA R. KUPILLAS
G1354
GEOLOGIST

REGISTERED PROFESSIONAL
OREGON
GREGORY E. KUPILLAS
G1384
GEOLOGIST


Clark 9804
Clark 12610
Clark 12667
CLAC 51686
Clark 12574
CLAC 52296
CLAC 51944
CLAC 51664
CLAC 19019
Clark 12738
Clark 12721
Clark 12751
51776
Clark 12706
12759
Neushwander
Clark 51287
CLAC 55788
Clark 12730
Ninety-one
Clark 12713
Clark 12726
Needy
Clark 51841
PUDDING RIVER — BARNARDS
BM 179
CLAC 12291
CLAC 11940
02350
Clark
Valley Grocer
Gucwa
Zyrnoff Well
CLAC 50734
Rock Creek Ch
Reservoir
Smyrna Ch
BARLOW — MON
ROAD



Total Depth of Well = 180'
Sealed to 18'
Cased/Screened to 170'

Total Depth = 73'
Sealed to 20'
Cased/Screened to 68'

Total Depth = 140'
Sealed to 50'
Cased/Screened to 140'

Cross Section CLAC 2356 - CLAC 51287

Horizontal Scale: 1" = 1,000'
Vertical Scale: 1" = 40'

▼ Depth at Which Water First Found
▽ Static Water Level For Completed Well

Perforated or Screened Interval

DATE SUBJECT SHEET NO. OF
HKD. BY DATE JOB NO.

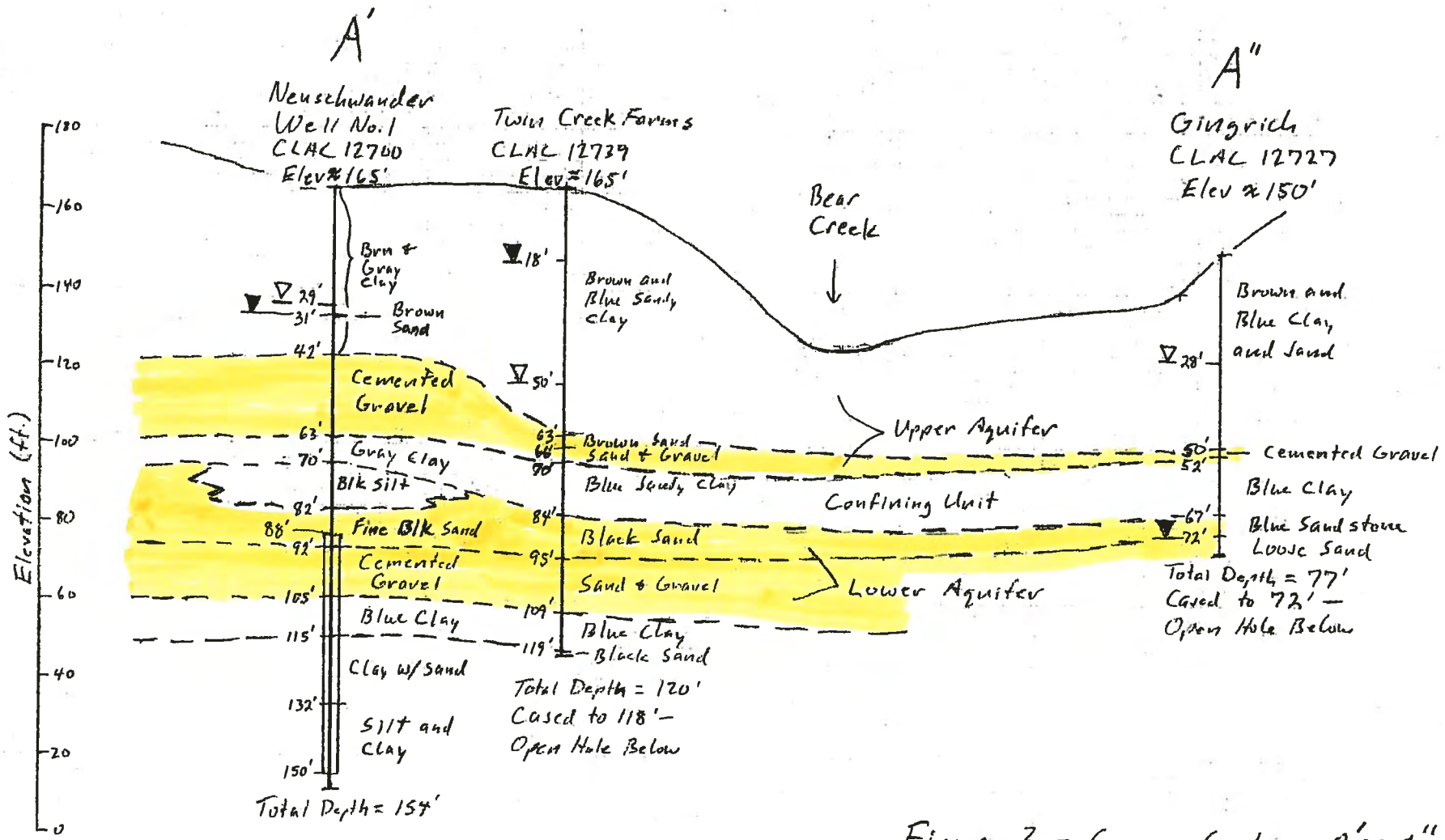


Figure 3 - Cross Section A'–A"

Horizontal Scale: 1" = 200'
Vertical Scale: 1" = 40'
▼ Depth at Which Water First Found
▽ Static Water Level
Perforated Interval

SHEET NO. ____ OF ____
JOB NO. ____
SUBJECT ____
DATE ____
HKD. BY ____ DATE ____

Well Logs Showing Multiple Static Water Levels

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the
WATER RESOURCES DEPARTMENT.
SALEM, OREGON 97310
within 30 days from the date of well completion.
6-29

WATER WELL REPORT

STATE OF OREGON
(Please type or print)
(Do not write above this line)

Valley Drilling Reg. No. G-15687

02356 CLAC

State Well No. 5S/1E-5

State Permit No. [illegible]

(1) OWNER:

Name Jim ZYRYNOFF
Address 887 NW 13th
CANBY, OR.

(2) TYPE OF WORK (check):

New Well ☑ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☑ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☑ Industrial ☐ Municipal ☐
Irrigation ☑ Test Well ☐ Other ☐

CASING INSTALLED:

Threaded ☐ Welded ☐

8" Diam. from 0 ft. to 170 ft. Gage 0.250
_____" Diam. from _____ ft. to _____ ft. Gage _____
_____" Diam. from _____ ft. to _____ ft. Gage _____

PERFORATIONS:

Perforated? ☑ Yes ☐ No
Type of perforator used SIAC
Size of perforations 1½ in. by 3/8 in.
510 perforations from 95 ft. to 129 ft.
60 perforations from 148 ft. to 152 ft.
_____ perforations from _____ ft. to _____ ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☑ No
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level
Was a pump test made? ☑ Yes ☐ No If yes, by whom?
Yield: 180 gal./min. with 64 ft. drawdown after 7 hrs.
" " " "
" " " "
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow _____ g.p.m.
Temperature of water 51 Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used CEMENT
Well sealed from land surface to 18 ft.
Diameter of well bore to bottom of seal 12 in.
Diameter of well bore below seal 8 in.
Number of sacks of cement used in well seal 14 sacks
How was cement grout placed? PUMPED

Was a drive shoe used? ☑ Yes ☐ No Plugs _____ Size: location _____ ft.
Did any strata contain unusable water? ☐ Yes ☑ No
Type of water? _____ depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☑ No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County CLACKAMAS Driller's well number
SW ¼ SW ¼ Section 25 T. 5S R. 1E E
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 11
Static level 52 ft. below land surface. Date 6/25/71
Artesian pressure _____ lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 8
Depth drilled 190 ft. Depth of completed well 180

Formation: Describe color, texture, grain size and structure of materials and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Top Soil	0	3	
Silt Brown	3	11	
Sand Fine Brown	11	13	8
Clay Brown	13	20	
Clay Blue	20	51	
Silt Brown	51	54	30
Clay Silty Brown	54	67	
Cement Gravel Brown	67	77	
Clay Blue	77	98	
Cement Gravel Grey	98	128	52
Clay Blue	128	154	
Fine Sand Black	154	158	52
Clay Blue	158	190	

Work started 11 Jun 19 71 Completed 25 Jun 19
Date well drilling machine moved off of well 25 Jun 19

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Richard J Beck (Drilling Machine Operator) Date 30 Jun, 19..

Drilling Machine Operator's License No. 1200

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name _____ (Person, firm or corporation) (Type or print)
Address J W Beck Well Drilling 1229 SW 3rd Ave Dr Canby, Ore
[Signed] John W Beck (Water Well Contractor)
Contractor's License No. 449 Date 6-25 19..

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)
Instructions for completing this report are on the last page of this form

SKYLES DICLAC, 55788
1169 Molalla Ave.
Oregon City, OR 97045
Ph. (503)-656-2683 Fax (503) 656-2684

WELL ID # **39122**
(START CARD) # **131501**

(1) OWNER: Well Number: **02**
Name **John Kelly**
Address **29817 S. Kenagy Ln.**
City **Hubbard** State **OR** Zip **97032**

(2) TYPE OF WORK:
X|New Well | |Deepening | |Alteration (repair/recondition) | |Abandonment

(3) DRILL METHOD:
X|Rotary Air | |Rotary Mud | |Cable | |Auger
| |Other

(4) PROPOSED USE:
X|Domestic | |Community | |Industrial | |Irrigation
| |Thermal | |Injection | |Livestock | |Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval | |Yes |X|No Depth of Completed Well **192** ft.
Explosives used | |Yes |X|No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
10	0	38	Bentonite	38	0	12 sacks
6	38	160				
8	160	175	Cement	175	160	5 sacks
6	175	192				

How was seal placed: Method | |A | |B | |C | |D | |E
X|Other **Poured bentonite, pumped cement**
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6	+1.5	178.5	.250	X		X	
Liner:	4	152	192	160#		X	X	

Final location of shoe(s) **178.5**

(7) PERFORATIONS/SCREENS:
X|Perforations Method **Saw**
|Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
173	191	1/8x3	80				X

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JUL 07 2000
WATER RESOURCES DEPT.
SALEM, OREGON

(8) WELL TESTS: Minimum testing time is 1 hour
Pump | |Bailer |X|Air | |Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
25		191	1 hr.
19		172	1/4 hr.

Temperature of Water **61.4** Depth Artesian Flow found
Was a water analysis done? |X|Yes By whom **Driller 0.8 PPM Iron**
Did any strata contain water not suitable for intended use? | |Too little
Salty | |Muddy | |Odor | |Colored |X|Other **4.5 ppm iron**
Depth of strata: **136-142**

(9) LOCATION OF WELL by legal description:
County **Clackamas** Latitude Longitude
Township **4SOUTH** N or S. Range **1EAST** E or W. of WM.
Section **31** **SE** 1/4 **SE** 1/4
Tax lot **01110** Lot Block Subdivision
Street Address of Well (or nearest address) **29817 S. Kenagy Ln., Hubbard, OR**

(10) STATIC WATER LEVEL:
85 ft. below land surface. Date **6/29/00**
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found **44'**

From	To	Estimated Flow Rate	SWL
44	64	10	32
93	123	15 (soupy to 120)	75
136	142	30(4.5PPM)	75
186	191	25	85

(12) WELL LOG:
Ground elevation

Material	From	To	SWL
Soil, brown	0	7	
Clay, brown	7	13	
Clay, brown, silty	13	31	
Clay, gray	31	44	
Gravel, medium to large, MC	44	64	
Clay, tan	64	67	
Sand, medium, multicolored	67	77	
Clay, tanish-gray	77	81	
Clay, gray, gritty	81	93	
Sand, semi-cemented, multicolored	93	101	
Sand, cemented, multicolored with fractures, with sand, medium	101	111	
Sand, black, soupy with gravel	111	120	
Gravel, medium to large, MC	120	123	
Clay, gray, semi-silty	123	136	
Sand, multicolored, fine	136	142	
Sand, black, semi-cemented	142	157	
Clay, brown-gray, sandy	157	162	
Clay, gray	162	181	
Clay, gray, gritty	181	186	
Sand, semi-cemented, MC	186	191	85
Clay, gray	191	192	

SKYLES DRILLING, INC.

Date started **6/27/00** Completed **6/29/00**

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to my best knowledge and belief.
Signed [signature] WWC Number **1601**
Date **7/6/2000**

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
Signed [signature] WWC Number **1592**
Date **7-6-2000**

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER

#14

JUL 24 1991

WATER RESOURCES DEPT.
SALEM, OREGON

CLAC 1940

5S/1E/5dc

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

(START CARD) # 26637

(1) OWNER: Well Number:
Name GARY JENKS
Address 1351 TROON DR
City WEST LINN State OR Zip 97068

(2) TYPE OF WORK:
☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☐ Rotary Air ☐ Rotary Mud ☒ Cable
☐ Other

(4) PROPOSED USE:
☒ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☐ Depth of Completed Well 146 ft.
Explosives used Yes ☐ No ☐ Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
12	1	23	GRAVELINE	BENTONITE		14
8	23	146				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☒ Other GRAVELINE BENTONITE MIXED
Backfill placed from ft. to ft. Material
Gravel placed from 80 ft. to 146 ft. Size of gravel PEA

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	146	.125	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) 146

(7) PERFORATIONS/SCREENS:
☒ Perforations Method DRIVE DOWN
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
87	137	7/16x1	250			☒	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Air Time	Time
25		136	1 hr.

Temperature of water 52 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County CLACKAMAS Latitude Longitude
Township 5S N or S, Range 1E E or W, WM.
Section 5 NE ¼ SE ¼
Tax Lot 3101 or ~~4101~~ Lot Block Subdivision
Street Address of Well (or nearest address) S. MEEKY RD

(10) STATIC WATER LEVEL:
40 ft. below land surface. Date 18 July
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found

From	To	Estimated Flow Rate	SWL
52	54	±	30
82	138		40

(12) WELL LOG: Ground elevation

Material	From	To	SWL
SOIL	1	3	
CLAY BROWN	3	23	
SAND, CLAY, BROWN	23	28	
CLAY GRAY	28	52	
CEMENTED GRAVEL GREY	52	54	
CEMENTED GRAVEL BROWN	54	82	
CLAY GREY SANDY	82	104	
GRAVEL LAYER, SANDY	104	106	
CLAY GREY SANDY	106		
OCCASIONAL ROCKS		140	
CLAY GREY	140	146	
6" GRAVEL FEED PIPE adjacent TO 8" CASING			

Date started July 8 Completed July 18, 1991

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number
Signed Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 743
Signed Richard Beck Date 22 July 91

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C 3/88

STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

APR 21 1993

WATER RESOURCES DEPT
SALEM OREGON

Clac 15458

5S/1E/5a

(START CARD) # 49086

(1) OWNER:

Well Number

Name Craig Lingel

Address 7828 S. Barnards Rd.

City Canby State OR Zip 97013

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD:

☐ Rotary Air ☐ Rotary Mud ☒ Cable

☐ Other

(4) PROPOSED USE:

☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation

☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval ☐ Yes ☒ No Depth of Completed Well 104 ft.

Explosives used ☐ Yes ☒ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
10	0	35	cement	0	22	15
6	35	104				

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E

☐ Other

Backfill placed from ft. to ft. Material N/A

Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6	+1	97	250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	4	77	104	60	☐	☒	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) 97

(7) PERFORATIONS/SCREENS:

☐ Perforations Method

X ☒ Screens Type PVC Material 10-20 sand

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
87	104	10		4		☐	☒
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☒ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
20	3		1 hr.

Temperature of Water 54 Depth Artesian Flow Found

Was a water analysis done? ☐ Yes By whom

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County Clack. Latitude Longitude

Township 5S N or S. Range 1E E or W. WM.

Section 5 A ¼ 116A ¼

Tax Lot 1000 Lot Block Subdivision

Street Address of Well (or nearest address)

(10) STATIC WATER LEVEL:

32 ft. below land surface. Date 4-14-93

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found

From	To	Estimated Flow Rate	SWL
60	61	unk	27'
90	104	40+	32

(12) WELL LOG:

Ground elevation unk

Material	From	To	SWL
Top Soil (silty)	0	2	
Silty grey clay	2	22	
blue sandy clay	22	48	
brown course sandy clay	48	60	
Clean 1" gravel	60	61	27
blue sandy clay	61	70	
brown sandy clay	70	90	
Black course sand w/ sm. gravel	90	104	32

Date started 4-12 Completed 4-15-93

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number

Signed Date

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 549

Signed Date 4-16-93

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NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
SEP 30 1970
STATE ENGINEER
SALEM, OREGON

CLAC

WATER WELL REPORT
STATE OF OREGON
(Please type or print) (Do not write above this line)

012752

State Well No. 4/1-33

State Permit No. TL502

(2)

(1) OWNER:
Name Bruce A Blackledge
Address 2955 N.E. 28th, Portland, Ore.

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:
Threaded ☐ Welded ☒
8" Diam. from 0 ft. to 116 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:
Perforated? ☐ Yes ☒ No.
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test 50 gal./min. with 35 ft. drawdown after 2 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite-Puddled Clay
Well sealed from land surface to 25 ft.
Diameter of well bore to bottom of seal 12 in.
Diameter of well bore below seal 8 in.
Number of sacks of cement used in well seal sacks
Number of sacks of bentonite used in well seal 3 sacks
Brand name of bentonite National
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plus Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number 70-13
¼ ¼ Section 33 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 42 ft.
Static level 45 ft. below land surface. Date 9-26-70
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 8
Depth drilled 117 ft. Depth of completed well 117 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Sandy Clay Topsoil	0	1	
Claystone Brown	1	7	
Sandstone Brown	7	42	
Sand Br. Water trace	42	55	40
Clay Yellow Sticky	55	64	
Clay Blue Sandy	64	73	
Sand Brown Water	73	77	52
Clay Brown	77	94	
Sand Black Fine	94	110	
Sand Gravel trace	110	116	
Gravel Sand Water	116		45

Work started 9-21 1970 Completed 9-26 1970
Date well drilling machine moved off of well 9-26 1970

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Walter Mace (Drilling Machine Operator) Date 9-28, 1970
Drilling Machine Operator's License No. 595

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name S & M Drilling & Supply (Person, firm or corporation) (Type or print)
Address Rt. 1 Box 31, Canby, Ore. 97013
[Signed] Walter Mace (Water Well Contractor)
Contractor's License No. 497 Date 9-28, 1970

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

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WATER RESOURCES DEPT
SALEM, OREGON

CLAC 18219

3 4S/1E/33b

35240 (START CARD) #

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

(1) OWNER: Well Number 419
Name Bob & Nancy Traverso
Address 29322 S Needy Rd
City Canby State Or Zip 97013

(2) TYPE OF WORK:
☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD:
☒ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 230 ft.
Explosives used ☐ Yes ☒ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
12"	0	19	cement	0	19	15 sacks
8"	19	230				

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E
☐ Other
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8"	+16"	180	.250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	6"PVC	170	230		☐	☒	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) 180

(7) PERFORATIONS/SCREENS:
☒ Perforations Method Saw
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
180	227	1/8	50			☐	☒
		X				☐	☐
		10"				☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
180		229	1 hr.

Temperature of Water 54 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Clack. Latitude Longitude
Township 4S N or S. Range 1E E or W. WM.
Section 33 SW ¼ NW ¼
Tax Lot 700 Lot Block Subdivision
Street Address of Well (or nearest address) 29322 S Needy Rd. Canby, Or. 97013

(10) STATIC WATER LEVEL:
45 ft. below land surface. Date 10/21/92
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 72

From	To	Estimated Flow Rate	SWL
72	77	6 GPM	38
112	120	100 GPM	41
180	227	180 GPM	45

(12) WELL LOG:
Ground elevation

Material	From	To	SWL
Top soil	0	2	
Clay, brown	2	22	
Clay, sand, brown, fine	22	48	
Clay, blue	48	61	
Clay, sand, blue, black, fine	61	72	
Sand, gravel, medium, brown	72	77	38
Clay, blue	77	91	
Sand, gravel, black, medium	91	112	
Gravel, medium	112	120	41
Clay, blue	120	180	
Sandstone, black, fractured	180	227	45
Clay, blue	227	230	

Date started 10/9/92 Completed 10/21/92

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number
Signed Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 637
Signed George J. Wanner Jr. Date 10/24/92

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C 10/97

4/12

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

CLAC 9804

JUN 24

45/1E/30 ab

(START CARD) # 22453 TL 600

(1) OWNER:
Well Number:
Name DAVE PEOPLES
Address 27307 S. MERIDIAN RD
City AURORA State OR Zip 97002

(2) TYPE OF WORK:
☑ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☐ Rotary Air ☐ Rotary Mud ☑ Cable
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☑ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☐ Depth of Completed Well 296 ft.
Explosives used Yes ☐ No ☐ Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks ~~or pounds~~
12	1	22	GRANULAR	BENTONITE		14
8	22	296				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☑ Other GRANULAR BENTONITE METHOD
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	284	125	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) 284

(7) PERFORATIONS/SCREENS:
☑ Perforations Method DRIVE DOWN
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
174	186	1/8 x 1½	100			☑	☐
208	228	1/8 x 1½	150			☑	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
180	120	147	1 hr.

Temperature of water 52 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description: 690
County CLACKAMAS Longitude
Township 4S N or S. Range 1E E or W. WM.
Section 30 NW ¼ NE ¼
Tax Lot 600 Lot Block Subdivision
Street Address of Well (or nearest address) ZIMMERMAN RD @ ELECTRIC TRANSMISSION LINE

(10) STATIC WATER LEVEL:
28 ft. below land surface. Date JUNE 4
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found

From	To	Estimated Flow Rate	SWL
61	103		60
174	186		30
208	228		36
284	289		30

(12) WELL LOG:
Ground elevation

Material	From	To	SWL
SOIL	1	6	
CLAY BROWN	6	30	
SILT BROWN	30	50	
CLAY GREY SANDY	50	61	
CEMENTED GRAVEL	61	70	
CLAY GREY SANDY	70	80	
CLAY TAN SILTY	80	95	
CLAY GREY	95	124	
CLAY TAN	124	135	
CLAY GREY	135	176	
GRAVEL CLAYEY	176	178	
CLAY DK GREY SANDY	178	212	
SAND BLACK	212	216	
CLAY GREY SOME SAND	216	228	
CLAY GREY	228	252	
CLAY BLUE STICKY	252	282	
SAND GREY	282	287	
CLAY SANDY	287	294	
CLAY BLUE STICKY	294	296	

Date started MARCH 21 Completed JUNE 4, 1991

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number
Signed Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 143
Signed Richard Beck Date JUNE 21, 1991

ORIGINAL & FIRST COPY

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

CLAC

WATER WELL REPORT

STATE OF OREGON

012687

(Please type or print)

(Do not write above this line)

State Well No. 4S/1E-30

State Permit No. TL 2600, 2601, 2602

(1) OWNER:

Name Mr. M. J. Lamon

Address Rt. 2 Box 117 Canby Oregon 97013

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:

Threaded ☐ Welded ☒

6 " Diam. from 0 ft. to 101 ft. Gage 250

5-9/16 Diam. from 95 ft. to 140 ft. Gage 10

" Diam. from ft. to ft. Gage

PERFORATIONS:

Perforated? ☒ Yes ☐ No.

Type of perforator used Torch

Size of perforations 1/2 in. by 8 in.

24 perforations from 110 ft. to 140 ft.

perforations from ft. to ft.

perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Diam. Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? driller

Yield: 20 gal./min. with 58 ft. drawdown after 1 hrs.

" " "

" " "

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water 55 Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Bentonite

Well sealed from land surface to 32 ft.

Diameter of well bore to bottom of seal 10 in.

Diameter of well bore below seal 6 in.

Number of sacks of cement used in well seal sacks

Number of sacks of bentonite used in well seal 2 sacks

Brand name of bentonite National

Number of pounds of bentonite per 100 gallons water 200 lbs./100 gals.

Was drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☒ No Size of gravel:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Clackamas Driller's well number

¼ ¼ Section 30 T. 4S R. 1E W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 75 ft.

Static level 42 ft. below land surface. Date 2-21-73

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 6 inch

Depth drilled 140 ft. Depth of completed well 138 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Soil brown	0	4	
Clay brown	4	65	
Sand with small gravel	65	82	37
Sand brown	82	88	
Clay blue	88	130	
Sand black	130	140	42

Work started 2-16-73 19 Completed 2-23 1973

Date well drilling machine moved off of well 2-25 19 73

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Robert Stites (Drilling Machine Operator) Date 3-24, 1973

Drilling Machine Operator's License No. 776

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name A C Stites (Person, firm or corporation) (Type or print)

Address Rt. 3 Box 139B Canby, Oregon

[Signed] A C Stites (Water Well Contractor)

Contractor's License No. 533 Date 3-24 19 73

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JUN 3 - 1987
WATER RESOURCES DEPT
SALEM, OREGON

CLAG 0126.0

(4)

4S/1E-29bc

STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

(1) OWNER:

Well Number 896

Name Steve Sparker

Address 12123 Arndt Rd

City Aurora State Or Zip 97002

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD

☒ Rotary Air ☐ Rotary Mud ☐ Cable

☐ Other

(4) PROPOSED USE:

☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation

☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes ☐ No ☒ Depth of Completed Well 185 ft.

Explosives used Yes ☐ No ☒ Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
10"	0	19'	cement	0	19'	13 sacks
6"	19'	185'				

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E

☐ Other

Backfill placed from ft. to ft. Material

Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6"	+18"	131	.250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	4" PVC	105'	185		☐	☒	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) 131'

(7) PERFORATIONS/SCREENS:

☒ Perforations Method Saw

☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
79'	184'	1/8"	10			☐	☒
		X				☐	☐
		8"				☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
20		180'	1 hr.

Temperature of water 54 Depth Artesian Flow Found

Was a water analysis done? ☐ Yes By whom

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County Clack Latitude Longitude

Township 4S N or S, Range 1E E or W, WM.

Section 29 SW ¼ NW ¼

Tax Lot 301 Lot Block Subdivision

Street Address of Well (or nearest address) 7051 S Zimmerman Canby, Or. 97013

(10) STATIC WATER LEVEL:

54' ft. below land surface. Date 5/21/87

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 64'

From	To	Estimated Flow Rate	SWL
64'	71'	4 GPM	41'
77'	81'	8 GPM	60'
179'	184'	20 GPM	54'

(12) WELL LOG:

Ground elevation

Material	From	To	SWL
Top soil	0	2	
Clay, brown	2	23	
Clay, sand, brown, fine	23	49	
Sand, brown, fine	49	58	
Clay, sand, blue, black, fi.	58	64	
Sand, gravel	64	71	41'
Clay, gravel	71	77	
Gravel, compact	77	81	60'
Sand, clay, brown, fine	81	97	
Sand, brown, fine	97	102	
Clay, blue	102	179	
Sandstone	179	184	54'
Clay, blue	184	185	

Date started 5/16/87 Completed 5/21/87

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number

Signed Date

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 637

Signed George J. Wainwright Date 5/21/87

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9809C.10/86

Clac 51684

RECEIVED

MAY 13 1997

WATER RESOURCES DEPT.
SALEM, OREGON

(1)

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

WELL I.D.# 10824

Instructions for completing this report are on the last page of this form.

(START CARD) # 88635

(1) OWNER:
Name Mark W. Shearer
Address 2294 S. Neely Rd.
City Canby State Oregon Zip 97013
Well Number

(2) TYPE OF WORK
☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:
☐ Rotary Air ☐ Rotary Mud ☒ Cable ☐ Auger
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 220 ft.
Explosives used ☐ Yes ☒ No Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12"	0	38	Cement	0	38	30 Sacks
8"	38	220				

How was seal placed: Method ☐ A ☐ B ☐ C ☒ D ☐ E
☐ Other
Backfill placed from ____ ft. to ____ ft. Material ____
Gravel placed from ____ ft. to ____ ft. Size of gravel ____

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8"	+1	151	250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	6"	140	220	250	☒	☐	☒	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:
☐ Perforations Method
☐ Screens Type Mills Knife & Torch Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
112	127	5/16	110	8"		☐	☐
140	220	5/16	100	6"		☐	☒
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☒ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
100 GPM	0	44	2 hrs.
106 GPM	0	44	1 hrs.

Temperature of water 53 Depth Artesian Flow Found ____
Was a water analysis done? ☐ Yes By whom ____
Did any strata contain water not suitable for intended use? ☒ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____
Depth of strata: 6 feet.

(9) LOCATION OF WELL by legal description:
County Clackamas Latitude ____ Longitude ____
Township 4 N or S Range 1 E or W. WM.
Section 28 SW 1/4 SW 1/4
Tax Lot 00400 Lot ____ Block ____ Subdivision ____
Street Address of Well (or nearest address) 2294 S. Neely Rd
Canby, Oregon 97013

(10) STATIC WATER LEVEL:
44 ft. below land surface. Date 4-24-97
Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:
Depth at which water was first found ____

From	To	Estimated Flow Rate	SWL
16	22	10 GPM	12
111	148	300 GPM	44
177	218	300 GPM	44

(12) WELL LOG:
Ground Elevation ____

Material	From	To	SWL
Soil Brown	0	4	
Clay - Brown	4	16	
Sand - Brown	16	22	12
Clay - Brown Sandy	22	31	
Clay - Blue	31	45	
Clay - Brown Gritty	45	79	
Clay - Gray Sandy	79	111	
Sand & Gravel Black	111	148	44
Clay - Grey	148	177	
Clay - Blue w stripes of Sand & Gravel	177	218	
Clay - Blue Sandy - W/B -	218	220	44

Date started 3-26-97 Completed 4-21-97

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
WWC Number ____
Signed ____ Date ____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
WWC Number 1593
Signed [signature] Date 5-10-97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

NOTICE TO WATER WELL CONTRACTOR: The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED APR 20 1972 STATE ENGINEER SALEM, OREGON

RECEIVED APR 28 1972 STATE ENGINEER SALEM, OREGON

WATER WELL REPORT

STATE OF OREGON (Please type or print) (Do not write above this line)

12594 CLAC 4/1-28 db (2)

State Well No. 4/1-28 db

State Permit No.

TL 1101

(1) OWNER:

Name Leonard Wermdahl

Address Rt. 2, Box 325

Canby, Oregon 97013

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐

Cable ☒ Jetted ☐

Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐

Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒

6 " Diam. from 0 ft. to 73 ft. Gage .250

" Diam. from ft. to ft. Gage

" Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Perforated? ☐ Yes ☒ No.

Type of perforator used

Size of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Diam. Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? Driller

Yield: 35 gal./min. with 14 ft. drawdown after 1 hrs.

" " "

" " "

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water 54 Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Bentonite

Well sealed from land surface to 26 ft.

Diameter of well bore to bottom of seal 10 in.

Diameter of well bore below seal 6 in.

Number of sacks of cement used in well seal sacks

Number of sacks of bentonite used in well seal 2 sacks

Brand name of bentonite National

Number of pounds of bentonite per 100 gallons of water 125 lbs./100 gals.

Was a drive shoe used? ☒ Yes ☐ No Plug Size; location ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☐ No Size of gravel:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Clackamas Driller's well number

NW ¼ SE ¼ Section 28 T. 4S R. 1E W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 57 ft.

Static level 26 ft. below land surface. Date 4/13/72

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 6

Depth drilled 83 ft. Depth of completed well 83 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Top soil	0	2	
Clay, tan	2	15	
Clay, blue	15	19	
Sandy clay, brown	19	39	
Gravel, med.	39	44	
Clay, tan	44	57	
Gravel	57	61	26
Clay, tan	61	79	
Sand, brown coarse	79	83	34

Work started 4/11 19 72 Completed 4/14 19 72

Date well drilling machine moved off of well 4/14 19 72

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] C. G. Westerberg (Drilling Machine Operator) Date 4/18, 19 72

Drilling Machine Operator's License No. 86

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name C. G. Westerberg (Person, firm or corporation) (Type or print)

Address Rt. 1, Box 151, Mulino, Oregon

[Signed] C. G. Westerberg (Water Well Contractor)

Contractor's License No. 86 Date 4/18, 19 72

(USE ADDITIONAL SHEETS IF NECESSARY)

SP-5656-119

For WWC - Date is moved off well 10/11/83 case 10/17/83

WATER WELL REPORT

STATE OF OREGON

CLAC 012774

RECEIVED
OCT 12 1983
WATER RESOURCES DEPT.
SALEM, OREGON

State Well No. 4S/1E-34

State Permit No.

PLEASE TYPE or PRINT T2 1000

(1) OWNER:

Name John T. Miller

Address 1780 Tomlin Ave.

City Woodburn State Oregon

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Air ☐ Driven ☐
Rotary Mud ☐ Dug ☐
[redacted] ☒ Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐
Thermal: ☐ Withdrawal ☐ Reinjection ☐

(5) CASING INSTALLED:

Steel ☒ Plastic ☐
Threaded ☐ Welded ☒

8 " Diam. from 0 ft. to 80 ft. Gauge standard

" Diam. from ft. to ft. Gauge

[redacted] LINER INSTALLED:

" Diam. from ft. to ft. Gauge

(6) PERFORATIONS:

Perforated? ☒ Yes ☐ No

Type of perforator used Millknife

Size of perforations ¼ in. by 3 in.

18 perforations from 74 ft. to 75 ft.

perforations from ft. to ft.

perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☐ No

Manufacturer's Name

Type Model No.

Diam. Slot Size Set from ft. to ft.

Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

[redacted] a pump test made? ☐ Yes ☒ No If yes, by whom?

[redacted]ld: gal./min. with ft. drawdown after hrs.

" " " "

Air test gal./min. with drill stem at ft. hrs.

Bailer test 50 gal./min. with 35 ft. drawdown after 1 hrs.

[redacted]esian flow g.p.m.

[redacted]mperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes ☐ No ☐

Well seal—Material used Cement

Well sealed from land surface to 20 ft.

Diameter of well bore to bottom of seal 12 in.

Diameter of well bore below seal 8 in.

Number of sacks of cement used in well seal 10 sacks

How was cement grout placed? Pumped

Was pump installed? Type HP Depth ft.

Was a drive shoe used? ☐ Yes ☒ No Plugs Size: location ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of Water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☒ No Size of gravel:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Clackamas Driller's well number

¼ ¼ Section 34 T. 4S R. 1E W.M.

Tax Lot # Lot Blk Subdivision

Address at well location:

(11) WATER LEVEL: Completed well.

Depth at which water was first found 53 ft.

Static level 41 ft. below land surface. Date 10/6/83

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing

Depth drilled 100 ft. Depth of completed well 100 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Soil	0	3	
Brown clay	3	23	
Brown sandy clay	23	28	
Cement Gravel	28	35	
Sandy clay with gravel	35	56	35'
Cement gravel	56	73	
Gravel with water	73	79	41'
Brown clay	79	83	
Sand	83	91	41'
Brown clay	91	100	

Work started Oct 3 1983 Completed Oct 6 1983

Date well drilling machine moved off of well 19

(unbonded) Water Well Constructor Certification (if applicable):

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Date , 19

Bonded Water Well Constructor Certification:

Bond 464537 (number) Issued by: Safeco Ins. Co. (Surety Company Name)

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name John T. Miller (Person, firm or corporation) (Type or print)

Address 1780 Tomlin Woodburn, Ore. 97071

[Signed] John T. Miller (Water Well Constructor)

Date Oct. 10, 19 83

NOTICE TO WATER WELL CONSTRUCTOR
The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

SP*45292-690

CLHC 52842

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

WELL I.D.# L15073

Page 1/2

(START CARD) # 104210

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number

Name JOHNATHAN YU

Address 29453 S. HWY 170

City CANBY State OR Zip 97013

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[ ] Rotary Air [ ] Rotary Mud [X] Cable [ ] Auger

[ ] Other

(4) PROPOSED USE:

[ ] Domestic [ ] Community [ ] Industrial [X] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [X] No Depth of Completed Well 378 ft.

Explosives used [ ] Yes [X] No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
16	0	35	BENT.	0	36	69 SACKS
12	35	378	CEMENT	36	55	20 SACKS
			CEMENT	180	200	8 SACKS

How was seal placed: Method [ ] A [ ] B [X] C [ ] D [ ] E

[X] Other BENTONITTE POURED IN DRY

Backfill placed from 55 ft. to 180 ft. Material BENT.

Gravel placed from 200 ft. to 378 ft. Size of gravel 10-20 & 8-12

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	+1.5	268	.250	[X]	[ ]	[X]	[ ]
	8	279	290½	.250	[X]	[ ]	[X]	[ ]
	8	295½	302	.250	[X]	[ ]	[X]	[ ]
	8	317	345	.250	[X]	[ ]	[X]	[ ]
[X] LINER	8	348½	357½	.250	[X]	[ ]	[X]	[ ]
	8	368	378	.250	[X]	[ ]	[X]	[ ]

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

[ ] Perforations Method

[X] Screens Type V-WIRE Material SS

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
268	279	.040		8	p/s	[ ]	[ ]
290½	295½	.040		8	p/s	[ ]	[ ]
302	317	.025		8	p/s	[ ]	[ ]
345	348½	.025		8	p/s	[ ]	[ ]
357½	368	.025		8	p/s	[ ]	[ ]

(8) WELL TESTS: Minimum testing time is 1 hour

[X] Pump [ ] Bailer [ ] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
150	67		½ [X] hr.
250	90		1½
280	107		7

Temperature of water 55 Depth Artesian Flow Found

Was a water analysis done? [ ] Yes By whom

Did any strata contain water not suitable for intended use? [ ] Too little

[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude Longitude

Township 4S N or S Range 1E E or W. WM.

Section 34 SW 1/4 NW 1/4

Tax Lot 1090 Lot Block Subdivision

Street Address of Well (or nearest address) SAME

(10) STATIC WATER LEVEL:

53 ft. below land surface. Date 10-25-97

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 17

From	To	Estimated Flow Rate	SWL
ALL SAND & GRAVEL FORMATIONS BELOW THE SWL			

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WATER RESOURCES DEPT.
SALEM, OREGON

(12) WELL LOG:

Ground Elevation

Material	From	To	SWL
TOP SOIL	0	2	
CLAY BROWN	2	17	
CLAY BROWN SANDY	17	32	
CLAY W/GRAVEL W/LAYERS OF STICKY BRN CLAY	32	55	
CLAY BRN SANDY	55	59	53
GRAVEL W/CLAY	59	76	
CLAY TAN	76	91	
CLAY GREY	91	103	
SANDY BRN CLAY	103	105	
GRAVEL WITH CLAY	105	109	
CLAY GREY	109	114	
GRAVEL W/CLAY GREY	114	157	
GRAVEL & SAND GREY	157	161	
CLAY GREY SANDY	161	166	
SAND GREY MED	166	170	
GRAVEL CEMENTED	170	179	
CLAY GREY STICKY	179	268	
SAND SMALL GRAVEL GREY	268	279	

Date started 8-22-97 Completed 10-25-97

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number

Signed Date

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 688

Signed Steven N. Stadeli Date 11-7-97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

CLHC 52842

4/1E/33

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

PAGE 2

WELL I.D.# L15073 1000

(START CARD) # 104210

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number

Name JOHNATHAN YU

Address 29453 S. HWY 170

City CANBY State OR Zip 97013

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[ ] Rotary Air [ ] Rotary Mud [X] Cable [ ] Auger

[ ] Other

(4) PROPOSED USE:

[ ] Domestic [ ] Community [ ] Industrial [X] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [ ] No Depth of Completed Well ____ ft.

Explosives used [ ] Yes [ ] No Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E

[ ] Other

Backfill placed from ____ ft. to ____ ft. Material ____

Gravel placed from ____ ft. to ____ ft. Size of gravel ____

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

[ ] Perforations Method

[ ] Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

(8) WELL TESTS: Minimum testing time is 1 hour

[ ] Pump [ ] Bailer [ ] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
			1 hr.

Temperature of water ____ Depth Artesian Flow Found ____

Was a water analysis done? [ ] Yes By whom ____

Did any strata contain water not suitable for intended use? [ ] Too little

[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other ____

Depth of strata: ____

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude ____ Longitude ____

Township 4S N or S Range 1E E or W. WM.

Section 34 1000 SW 1/4 NW 1/4

Tax Lot 1090 Lot ____ Block ____ Subdivision ____

Street Address of Well (or nearest address) SAME

(10) STATIC WATER LEVEL:

____ ft. below land surface. Date ____

Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:

Depth at which water was first found ____

From	To	Estimated Flow Rate	SWL

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WATER RESOURCES DEPT.
SALEM, OREGON

(12) WELL LOG:

Ground Elevation ____

Material	From	To	SWL
CONT.			
CLAY GREY STICKY	279	291	
SAND & GRAVEL CEMENTED	291	295	
CLAY GREY	295	302	
SAND W/SOME GRAVEL TIGHTLY	302		
CEMENTED GREY/BRN		306	
SAND GREY BRN FINE CEMENTED	306		
W/LAYERS OF CLAY		317	
CLAY STICKY BRN/GREY	317	346	
SAND GREY CEMENTED	346	348	
CLAY GREY BROWN	348	358	
SAND FINE GREY	358	367	
CLAY GREY BRN	367	378	

Date started 8-22-97 Completed 10-25-97

(unbonded) Water Well Contractor, Inc.

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

Signed ____ Date ____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 688

Signed Steven N. Strebin Date 11-7-97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

CLAC 9236

RECEIVED
AUG 13 1992
WATER RESOURCES DEPT.
SALEM, OREGON

4S/1E/34ac

(START CARD) # 42143

(1) OWNER: Well Number
Name Ronald Parrack
Address 29788 S. Jackson
City Canby State OR Zip 97013

(2) TYPE OF WORK:
☑ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD:
☐ Rotary Air ☐ Rotary Mud ☑ Cable
☐ Other

(4) PROPOSED USE:
☑ Domestic ☐ Community ☐ Industrial ☑ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☐ No Depth of Completed Well 230 ft.
Explosives used ☐ Yes ☐ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks ~~or pounds~~
10	1	25	GRANULAR	BENTONITE		14
6	25	230				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☑ Other GRANULAR BENTONITE METHOD
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6	0	229	.25	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) 229' LF

(7) PERFORATIONS/SCREENS:
☑ Perforations Method DRIVE DOWN STAR
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
221	226	3/16	X 1 1/4			☑	☐
175	191	3/16	X 1 1/4			☑	☐
132	152	3/16	X 1 1/4			☑	☐
101	110	3/16	X 1 1/4			☑	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☑ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
50	< 30		4 hr.

Temperature of Water 53 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description: TL 1600
County CLACKAMAS Latitude Longitude 41501
Township 4S N or S. Range 1E E or W. WM.
Section 34 SW ¼ NE ¼
Tax Lot 1600 & 1501 Block Subdivision
Street Address of Well (or nearest address) SAME

(10) STATIC WATER LEVEL:
25 ft. below land surface. Date AUG 6
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 33

From	To	Estimated Flow Rate	SWL
68	80	=	40
100	110	=	95
125	190	=	95
222	225	=	95

(12) WELL LOG:
Ground elevation

Material	From	To	SWL
SOIL	1	3	
CLAY BROWN	3	20	
CLAY GREY	20	33	
CEMENTED GRAVEL	33	114	
CLAY GREY	114	120	
SAND BLACK	120	128	
CEMENTED GRAVEL	128	152	
CLAY GREY	152	175	
CLAY GREY CEMENTED GVL	175	193	
CLAY GREY	193	202	
CEMENTED GRAVEL	202	204	
CLAY GREY	204	215	
SILT DK GREY	215	222	
SAND SMALL GRAVEL	222	224	
CLAY GREY	224	230	

Date started 29 AUG Completed 6 AUG 92

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number
Signed Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 743
Signed Richard Beck Date 8 AUG 92

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C 10/91

Additional Well Logs Not Showing Multiple Water Levels

CLAC 50734

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

RECEIVED
JUL 18 1996
WATER RESOURCES DEPT.
SALEM, OREGON

TAG 02073

92339 (START CARD) #

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number

Name: Vasily Ivanov

Address: 13395 Sunshine Ln

City: Woodburn State: Or Zip: 97071

(2) TYPE OF WORK

☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:

☐ Rotary Air ☐ Rotary Mud ☒ Cable ☐ Auger ☐ Other

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation ☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE-HOLE CONSTRUCTION:

Special Construction approval ☐ Yes ☐ No Depth of Completed Well 204ft.

Explosives used ☐ Yes ☐ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12	1	30	Bentonite	1	30	10 sacks
8	30	204				

How was seal placed: Method ☐A ☐B ☐C ☐D ☐E

☒ Other Granular Bentonite method

Backfill placed from ft. to ft. Material

Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	204		☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) 204

(7) PERFORATIONS/SCREENS Drive Down

☒ Perforations Method

☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
139	198	.188	350			☒	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
220		144	1 hr

Temperature of water 53 Depth Artesian Flow Found

Was a water analysis done? ☐ Yes By whom

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude Longitude

Township 3S N or S Range 1E E or W WM

Section 5 SE 1/4 SW 1/4

Tax Lot 2300 Lot Block Subdivision

Street Address of Well (or nearest address) Stuwe Rd 30799 S STUWE RD

(10) STATIC WATER LEVEL:

58 ft. below land surface. Date June 23

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 40

From	To	Estimated Flow Rate	SWL
40	204		58

(12) WELL LOG:

Ground Elevation

Material	From	To	SWL
Soil	1	3	
Clay, Brown	3	33	
Clay, Grey	33	44	
Cemented Gravel, Brown	44	58	
Clay, brown, sandy	58	65	
Gravel, black sand	65	76	
Clay, yellow	76	78	
Clay, blue	78	87	
Clay, grey, silty	87	93	
Sand and gravel	93	100	
Clay, blue	100	116	
Sand, black, fine	116	120	
Clay, grey	120	133	
Sand, Black w/ cemented gravel	133	151	
Clay, blue	151	169	
Clay, green, sandy	169	185	
Clay, grey	185	190	
Sand, small gravel	190	194	
Clay, blue	194	204	

Date started June 4 Completed June 25, 1996

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number

Signed Date

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 7683

Signed R Buck Date 17 July 1996

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

6

CLAC 12291

RECEIVED
SEP 17 1991

5S/1E/5 AC

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

(START CARD) # W28958

(1) OWNER:
Name Harry Prewitt Well Number:
Address 30413 S. Stuwe Rd
City Canby State Ore Zip 97013

(2) TYPE OF WORK:
☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☐ Rotary Air ☐ Rotary Mud ☒ Cable
☐ Other

(4) PROPOSED USE:
☒ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☐ Depth of Completed Well 190 ft.
Explosives used Yes ☐ No ☒ Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
10+	0	23	Cement	0	23	12 Sacks
6	23	190				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☐ Other Tremie
Backfill placed from 23 ft. to 0 ft. Material Cement
Gravel placed from 190 ft. to 160 ft. Size of gravel 3/8 to 1/4

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6	+1	160	250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	6 OD	158	189	.288	☒	☐	☒	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:
☒ Perforations Method Torch & Star Drivedown
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
128	138	1/4 x 3/4	100	6 TD		☐	☐
145	155	1/4 x 3/4	50	6 TD		☒	☐
165	185	1/8 x 6"	74	6 OD		☐	☒
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
250		155	1 hr.

Temperature of water 59° Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Clackamas Latitude Longitude
Township 5 S N or S. Range 1 E E or W. WM.
Section 5 SW ¼ NE ¼
Tax Lot 9101 Lot 1901 Block Subdivision
Street Address of Well (or nearest address) 30413 S Stuwe Rd. Canby Ore

(10) STATIC WATER LEVEL:
63 ft. below land surface. Date 9-7-91
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 126

From	To	Estimated Flow Rate	SWL
126	131	100	63
154	156	25	63
176	185	100 +	63

(12) WELL LOG: Ground elevation

Material	From	To	SWL
Top	0	3	
Brown Silty Clay	3	36	
Light Brown Clay (Sticky)	36	48	
Dark Brown Sandy Clay	48	74	
Brown Sand Course	74	88	
Brown Clay	88	96	
Gray Clay	96	104	
Black Silt	104	108	
Fine Black Sand	108	126	
Sand & Gravel (water)	126	131	63
Light Blue Clay Turning to Gray	131	154	
Black Sand Course	154	156	63
Gray Clay Stone with Streaks of Sand	156	178	
Course Sand & Small Gravel	178	180	63
Green Sandstone	180	185	
Light Blue Clay	185	190	

Date started 8-22-91 Completed 9-7-91

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number
Signed Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 444
Signed John W Beck Date 9-7-91

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 3009C 3/88

Northwoods Nursery Information

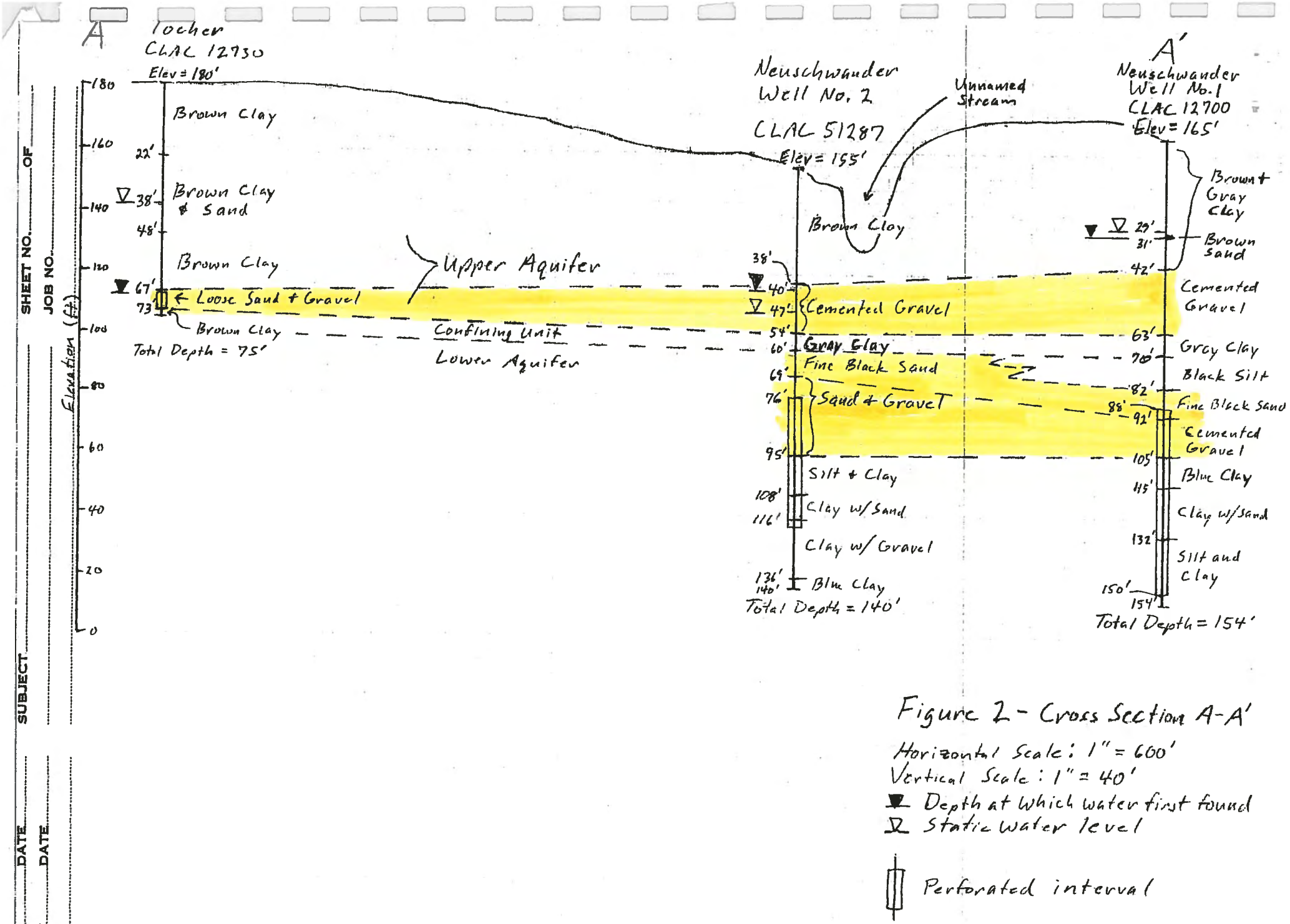
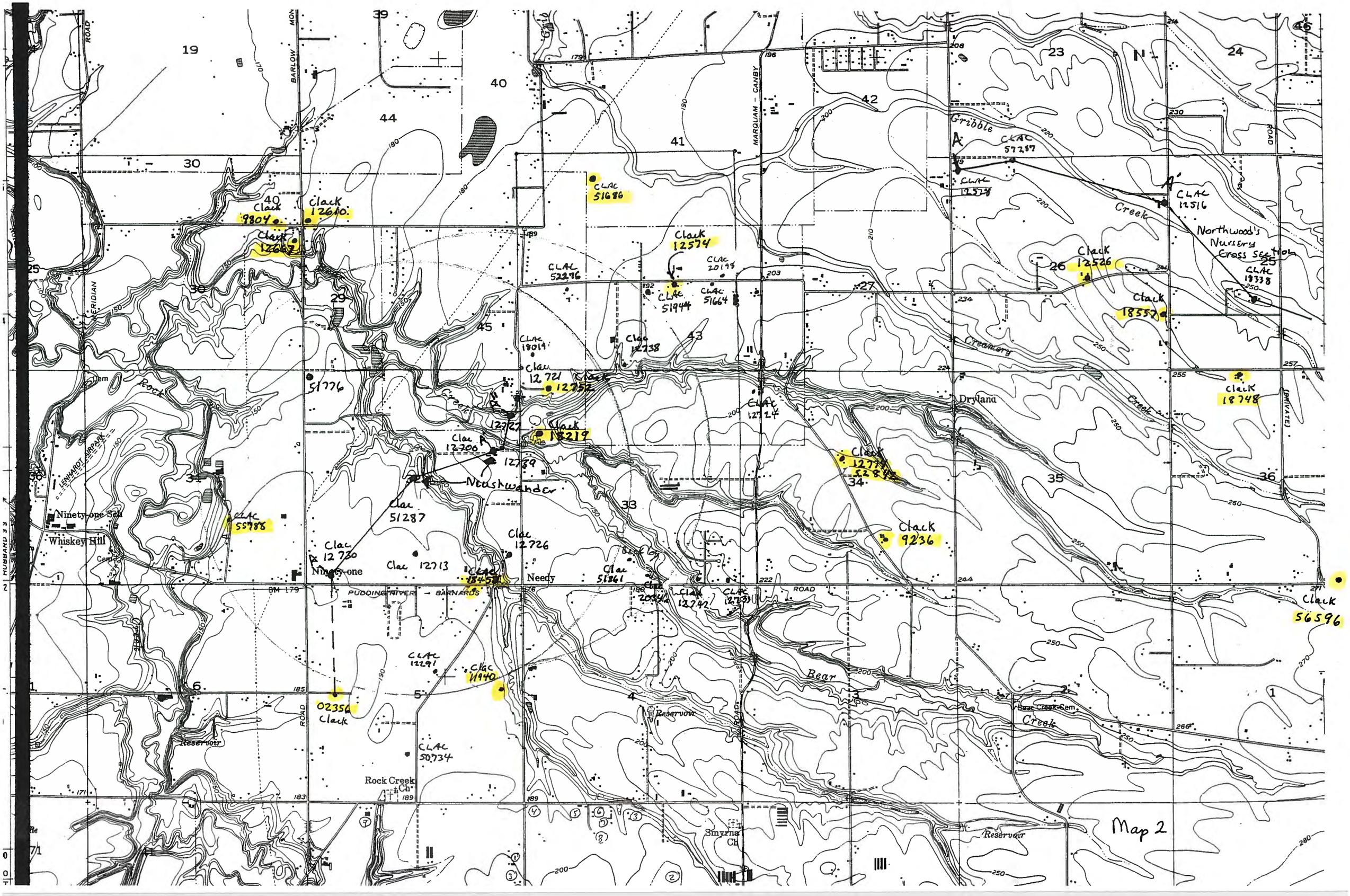


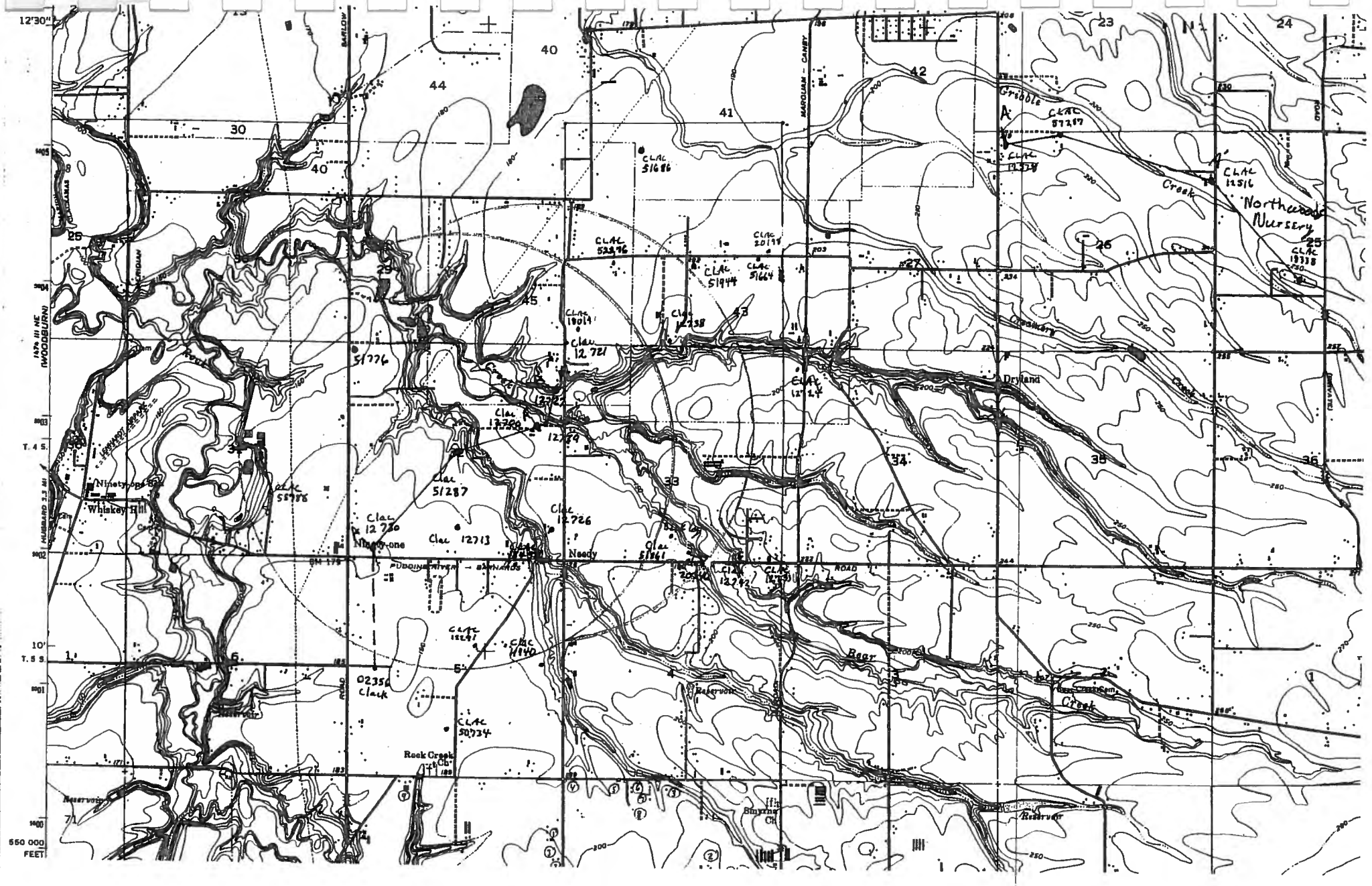
Figure 2 - Cross Section A-A'

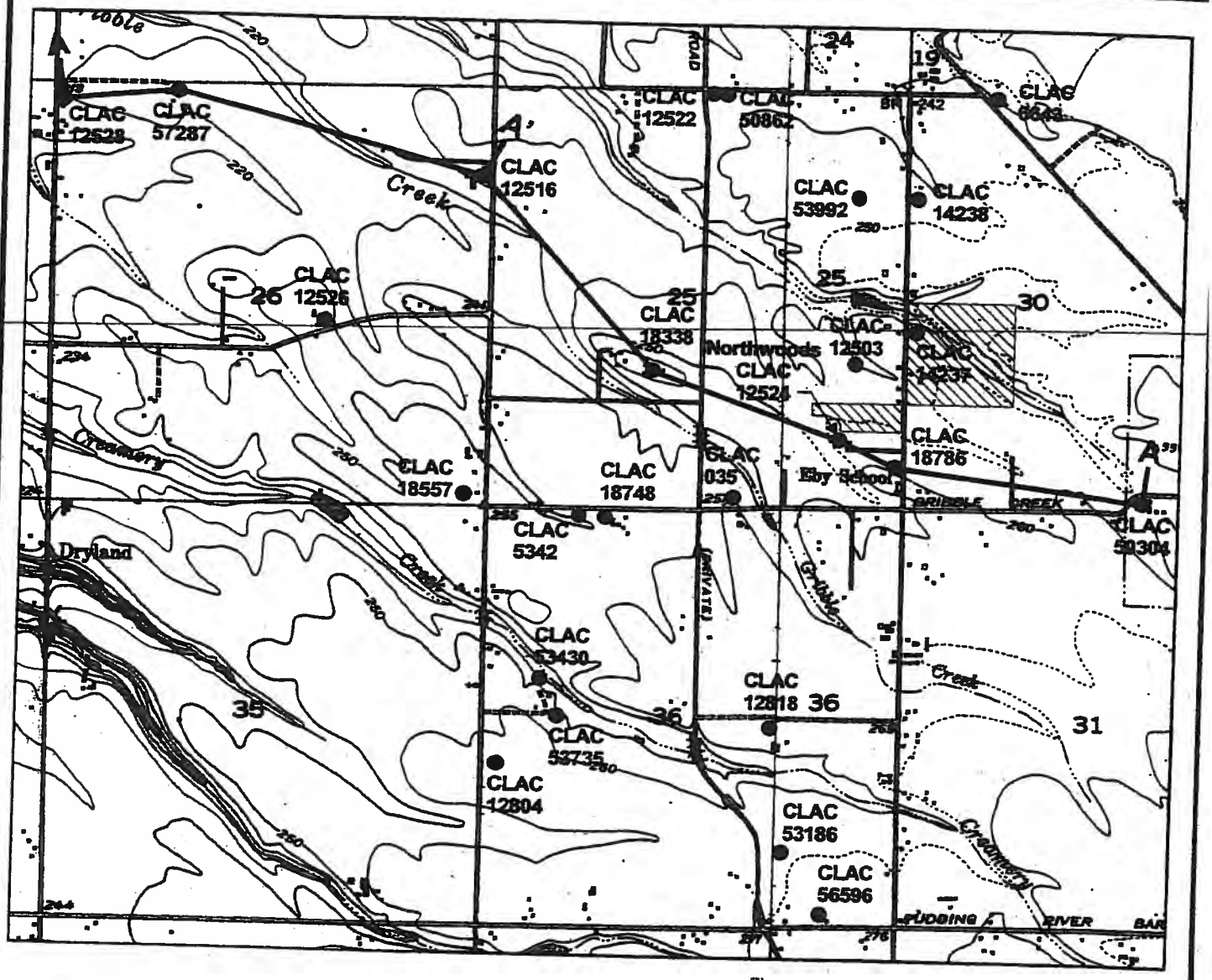
Horizontal Scale: 1" = 600'
Vertical Scale: 1" = 40'
▼ Depth at which water first found
▽ Static water level

Perforated interval

SHEET NO. ____ OF ____
JOB NO. ____
SUBJECT ____
DATE ____
CHKD. BY ____ DATE ____


Clack 9804
Clack 12640
Clack 12667
CLAC 51686
Clack 12574
CLAC 52296
CLAC 20198
CLAC 51944
CLAC 51664
CLAC 18014
Clac 12738
Clac 12721
Clack 12757
Clack 18219
Clac 12700
12739
Neuschwander
Clac 51287
Clac 12730
Ninety-one
Clac 12713
Clac 12726
Needy
Clac 51861
CLAC 12742
CLAC 12733
CLAC 12724
Clack 12774
Clack 9236
Clack 56596
CLAC 55788
CLAC 18452
CLAC 12291
Clac 11940
02350 Clack
CLAC 50,734
Rock Creek Ch
Smyrna Ch
Bear Creek Cem
Ninety-one Sch
Whiskey Hill Cem
Reservoir
Dryland
Creamery
Gribble
CLAC 57257
CLAC 12514
CLAC 12516
Northwood's Nursery Cross section
CLAC 19338
Clack 12526
Clack 18557
Clack 18748
Clack 51776
Clack 12722
Clack 12774
Clack 52845
Map 2


Grebble
Creek
Northwoods Nursery
Dryland
Creek
Creek
Bear
Creek
Rock Creek
Reservoir
Reservoir
Reservoir
Whiskey Hill
Ninety-one
Ninety
Road
Road
Road
Road
Creek
Creek
Creek



Key

CLAC 53992 ● Well Location and Log ID No.

A — A' Cross Section Location

Area to be Irrigated under Application G-15808

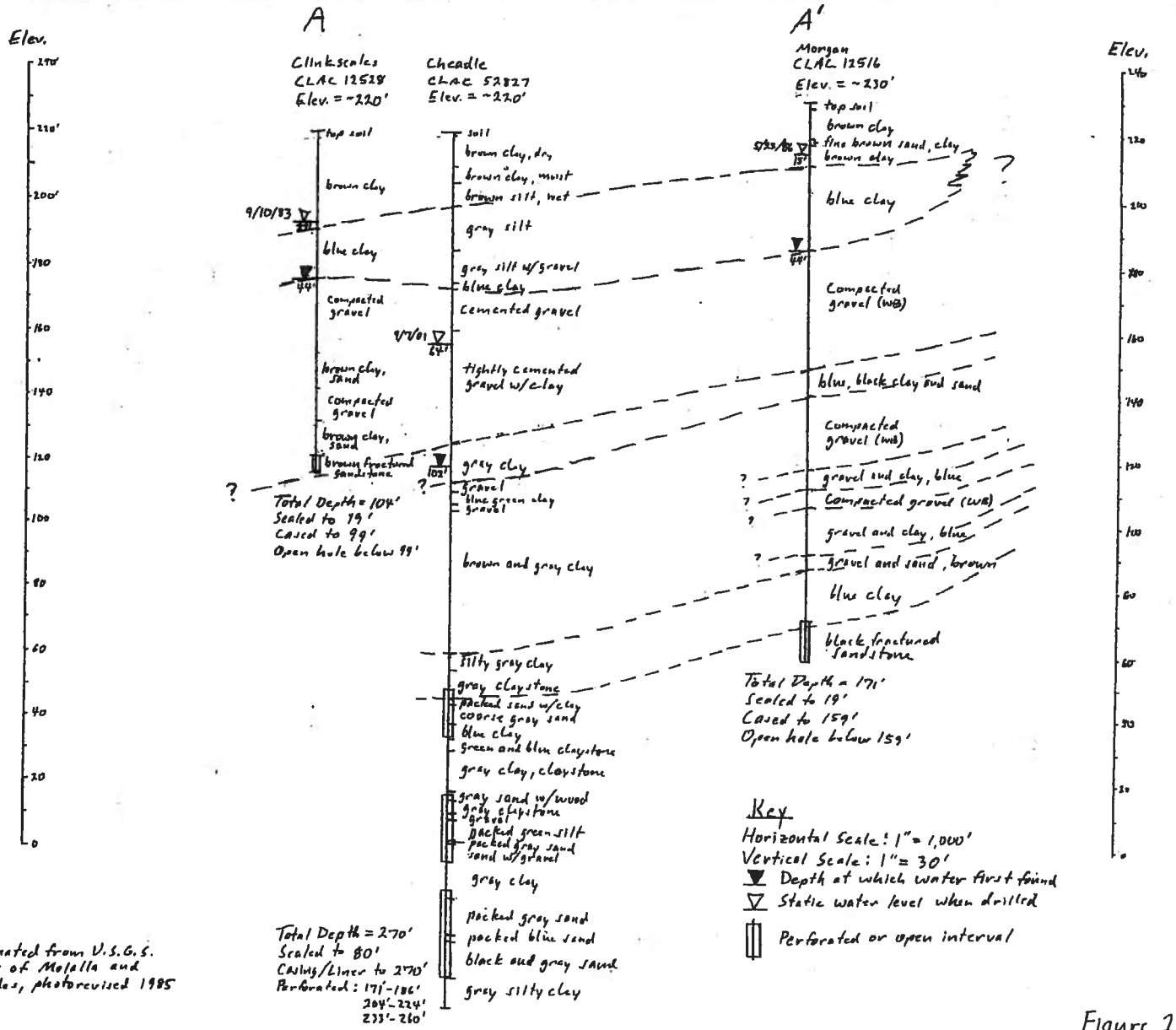
Source: USGS 7.5 Minute Topographic Survey Maps of Molalla and Yoder Quadrangles, Oregon, Photorevised 1985

NorthwoodsFig1.cdr

Figure 1. Well and Cross Section Locations

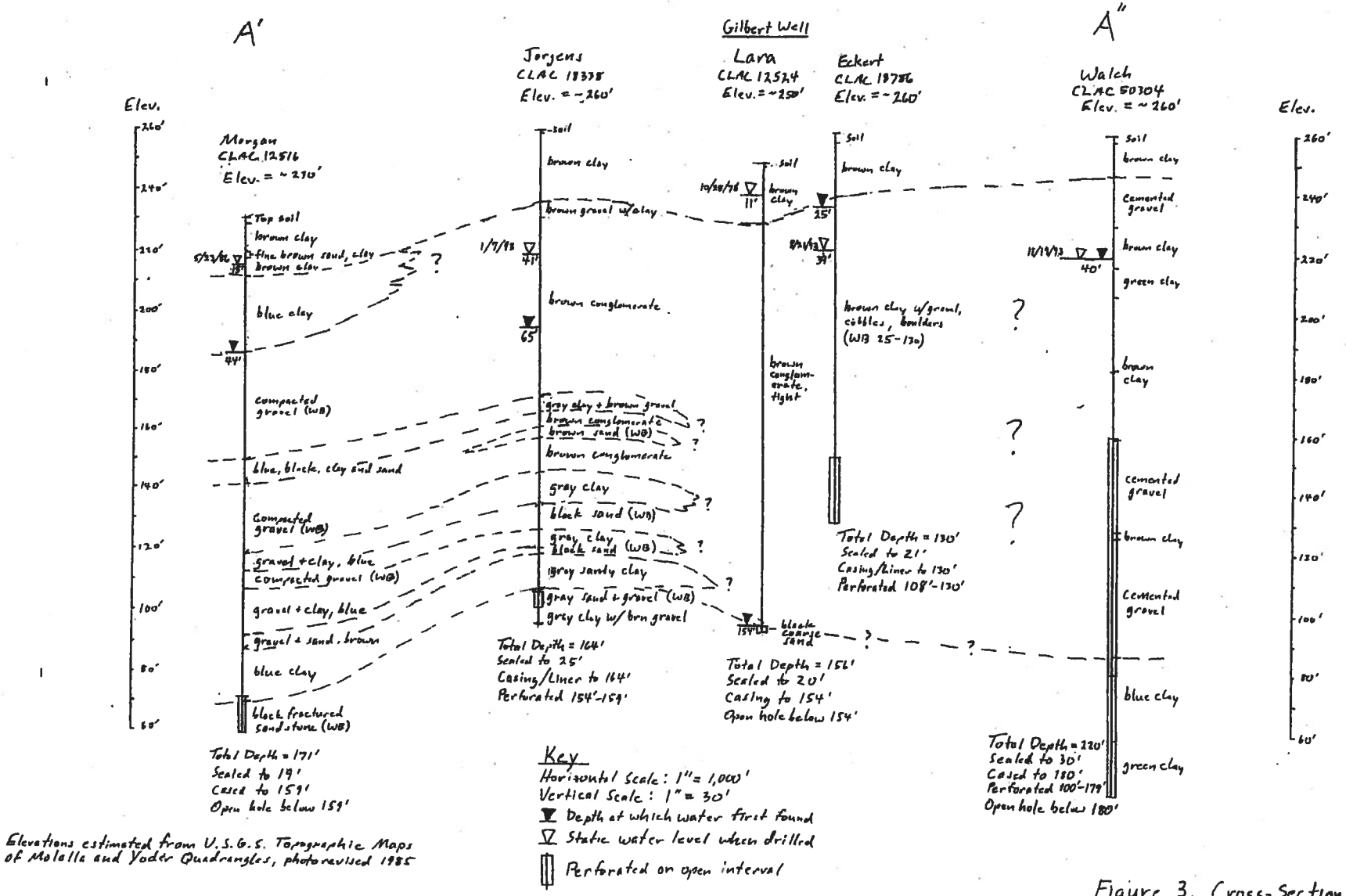
Northwoods Nursery
Application G-15808
T.4S. R.1E. Section 25 and
T.4S. R.2E. Section 30

Pacific Hydro-Geology Inc.



Elevations estimated from U.S.G.S. Topographic Maps of Molalla and Yoder Quadrangles, photorevised 1985

Figure 2. Cross-Section A-A'



Elevations estimated from U.S.G.S. Topographic Maps of Molalla and Yoder Quadrangles, photorevised 1985

Figure 3. Cross-Section A'-A"

Pacific Hydro-Geology Inc.
18477 S. Valley Vista Rd.
Mulino, OR 97042
(503) 632-5016

February 5, 2003

Jim Gilbert
Northwoods Nursery
~~28696 South Cramer Road~~
Molalla, Oregon 97038

Re: Water Right Application G-15808

Dear Mr. Gilbert:

On January 27, 2003, Pacific Hydro-Geology Inc. (PHG) was retained by Churchill, Leonard, Lodine and Hendrie, LLP, on behalf of Northwoods Nursery, to perform a hydrogeologic assessment related to an application for ground water rights (Application G-15808). The purpose of this assessment was to evaluate the potential hydraulic connection between the proposed point of appropriation for water right Application G-15808 (Northwoods Well, CLAC 12524) and nearby surface water sources. The application was given an unfavorable preliminary analysis by the Oregon Water Resources Department (OWRD) because of alleged hydraulic connection with nearby surface water sources (Molalla River and tributaries), and the determination of the potential for substantial interference with those surface water sources in accordance with OAR 690-09. However, as a result of recent policy changes within OWRD, this application and others are undergoing a re-review. The purpose of this letter is to provide additional information that the OWRD may use in their re-review of Application G-15808.

Scope of This Evaluation

Available water well reports filed with the OWRD and the most recently published report on the geology and/or hydrogeology of the area of concern were used for our evaluation of the hydrogeology in the vicinity of the subject property. The water right application is for irrigated land located in two adjacent sections: Township 4 South, Range 1 East, Section 25 and Township 4 South, Range 2 East, Section 30. The area included in this assessment, hereafter referred to as the Study Area, includes Sections 25, 26, and 36 of Township 4 South, Range 1 East, and Sections 30 and 31 of Township 4 South, Range 2 East. The general study area is shown on Figure 1.

All Water Well Reports on file on OWRD's web site (GRID web) for the sections included in the Study Area were reviewed to gain a general understanding of the geology in the Study Area. All Water Well Reports for wells that could be readily located (i.e., those that had specific addresses or tax lots recorded on the logs) were downloaded and located as accurately as possible on tax lot maps. In most cases, the locations of the wells within the corresponding tax lots could only be estimated. The locations of the wells were projected on the U.S.G.S. topographic maps for estimating ground surface elevations (Figure 1). Two geologic cross sections, A-A' and A'-A" were

prepared to illustrate the stratigraphy along a line extending approximately NW-SE through the Northwoods Well. The locations of these cross sections are also shown on Figure 1. Cross Section A-A' is shown on Figure 2. Cross Section A'-A" is shown on Figure 3. All of the logs used for the cross-sections are provided in Attachment A. All other logs for wells shown on Figure 1 are provided in Attachment B.

Geographic Setting

The land surface within the Study Area is relatively flat and slopes gently to the west-northwest. The Study Area is incised by several shallow streams which are tributary to the Molalla River. The nearest of these streams to the Northwoods Well are Gribble Creek and an unnamed stream. As shown on the U.S.G.S. topographic map (see Figure 1), these streams begin a short distance (less than a mile) east of the proposed point of appropriation, and flow west-northwestward several miles to their confluence with the Molalla River. These and other streams in the area are shown on the U.S.G.S. map to be intermittent for some distance along their headwaters, becoming perennial more than ½ mile west from the Northwoods Well. The applicant has reported that these streams typically go dry during the summer months. (Note: Historically, in cases where the potential for substantial interference with surface water has been established, the OWRD has granted ground water rights for the period when the affected surface water source was not flowing).

Geology and Hydrogeology in the Study Area

Regional Geology

The regional geology in the vicinity of the Study Area has been mapped and described in several reports. Probably the most recent and authoritative of these is U.S. Geological Survey Professional Paper 1620 (*Origin, Extent, and Thickness of Quaternary Geologic Units in the Willamette Valley, Oregon*, prepared by the U.S.G.S. Geological Survey in cooperation with the Oregon Water Resources Department, Reston Virginia, 2001). According to this report, the Quaternary alluvium underlying the Study Area is comprised primarily of alluvial deposits of the Troutdale Formation. Regionally, the Troutdale Formation consists of subhorizontal beds of sand, gravel, sandstone, conglomerate, siltstone, and mudstone. These deposits are known to reach thicknesses of up to 500 feet near the Study Area. The Troutdale Formation as mapped in the Study Area is considered to be equivalent to the weathered terrace gravels that are mapped to the southwest of the Study Area.

One distinctive characteristic of both the Troutdale Formation and the weathered terrace gravels is extensive weathering of the uppermost 10 to 20 feet, resulting in red, clay-rich soils. Regionally, the weathered terrace gravels are not considered to be an important regional source of ground water. However, in the area surrounding and southwest of the Study Area, aquifers within the Troutdale Formation are known to produce large quantities of water. To the west of the Study Area, the deposits of the Troutdale Formation are overlain by fine-grained (stratified silt and clay with minor sand) Missoula Flood Deposits. These deposits may reach over 100 feet in thickness in the central portion of the Willamette Valley but become thinner at the basin margins.

Geology of the Study Area

Most of the wells in the study area, including the Northwoods Well, are constructed to obtain water primarily from aquifers encountered at depths within 200 feet of the ground surface (Figures 2 and 3). Therefore, this discussion focuses mainly on the site geology encountered at depths up to about 200 feet. The general picture that emerges from a review of the well logs is that of a fairly consistent sequence of sedimentary deposits described as follows (from the ground surface downward):

- A layer of top soil and brown clay with thickness ranging from about 15 to 25 feet. This brown clay may either correspond to the weathered upper horizon of the terrace gravels, as described above, or a more easterly extent of the fine-grained Missoula Flood deposits than currently mapped for the area.
- A layer of blue clay ranging in thickness from less than 10 feet to more than 20 feet.
- A gravel zone with a thickness ranging from about 30 to 60 feet and described typically as "cemented gravel", "compacted gravel", or "conglomerate;"
- A layer of gray or blue clay and/or silt which us usually between 5 and 15 feet thick;
- A sequence of cemented or compacted gravel layers interbedded with thinner layers of clay, silt, and sand. This sequence typically extends to a depth of about 150 feet;
- A sequence of black or gray sand layers interbedded with layers of gray or blue silt, clay, or claystone that appears to extend to depths of 200 feet or more. Many of the wells drilled in the Study Area, including the Northwoods Well, obtain water from a productive black sand layer that lies at the top of this sequence (see Figures 2 and 3).

While not all of the logs in the Study Area reflect this pattern, the overall picture seems to be supported by the majority of the logs.

Hydrogeology of the Study Area

As reported in well logs from the Study Area, ground water has been encountered within all of the sand or gravel deposits described above. A small number of shallow wells obtain water from the cemented gravel deposits underlying the upper clay layers. However, most of the wells in the Study Area obtain water from productive sand deposits encountered beneath the clays and cemented at depths of 150 feet or more. This suggests that, in general, quantities of water considered usable for domestic or irrigation purposes are not encountered within the upper 150 feet of the alluvial deposits. In any case, it is expected that the direction of groundwater flow within continuous water bearing zones is to the northwest, consistent with the topography. As shown in the cross sections on Figures 2 and 3, the stratigraphy also appears to be dipping gently to the northwest.

Potential Hydraulic Connection Between Northwoods Well and Nearby Streams

Estimates of the down-gradient locations at which ground water encountered in the Northwoods Well may intercept the streams may be made considering elevation relationships between the water bearing units and the surface topography. Starting with the first cemented gravel unit that is confined by the overlying brown and blue clays (as shown in wells CLAC 12516, 57287, and 12528 located down-gradient from the Northwoods Well, Figure 3), ground water in this unit is estimated to intercept the shallow streams at a distance of about 3 miles west-northwest of the Northwoods Well (assuming the top of the confined aquifer is at an elevation of about 180 feet). This is likely a conservative estimate, because the stratigraphy is dipping slightly to the west-northwest, which would move the point of interception with the stream farther to the west-northwest. Ground water flowing in deeper, water-bearing units would intercept the stream at even greater distances from the Northwoods Well. Based on this evidence, it appears that even if there were continuous, water-bearing zones within the shallower, cemented gravels between the Northwoods Well and the nearby streams, the distance between the well and the point of interception on the streams should be so great that any potential hydraulic connection would be unimportant.

Furthermore, because of the way the Northwoods Well is constructed, there should be very little ground water, if any, entering the open bottom of the well from shallower, overlying deposits. This is because the casing in the Northwoods Well extends to within 2 feet of the well bottom, and for the entire depth below the well seal the casing is the same diameter as the borehole. We understand that the OWRD does not recognize natural clay seals, but it is not unreasonable to assume that the clay layers penetrated by the casing will at least serve to significantly restrict the downward flow of any ground water that may be present in overlying water-bearing deposits. This assumption, coupled with the evidence of very limited water supplies in the overlying cemented gravels, suggests that any contribution of ground water to the well from these overlying deposits should be negligible.

Conclusions

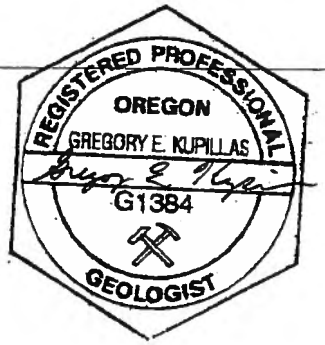
Our understanding of the hydrogeology of the Study Area is based on information provided in published literature and a study of site-specific conditions as reported in well logs. Based on this information, it appears that the geology of the Study Area is comprised of alluvial deposits consisting of alternating layers of clay and cemented gravel having limited water-bearing properties to depths of about 150 feet. Below these clay and cemented gravel layers are alternating layers of clay and productive sand from which most of the area wells obtain water. The shallower, cemented gravels are separated from each other and from the ground surface by apparent continuous layers of clay. These clay layers serve as confining, or semi-confining units which limit the vertical movement of ground water.

As with most wells in the area, ground water from the Northwoods Well is produced from a confined aquifer. The Northwoods Well is located more than ½ mile from the point where the nearby streams reportedly flow perennially. It appears unlikely that any significant amount of water enters the Northwoods Well from water bearing zones above the open well bottom. Furthermore, even if the well obtained water from the shallowest

cemented gravel deposits, the distance between the well and the point where that shallow ground water intercepts the nearby streams would be more than 3 miles. The findings from this evaluation indicate that there are several factors indicating that the potential for a hydraulic connection between the Northwoods Well and the nearby surface water sources is so low as to be negligible.

Please call me at (503) 632-5016 if there are any questions, or additional information is required.

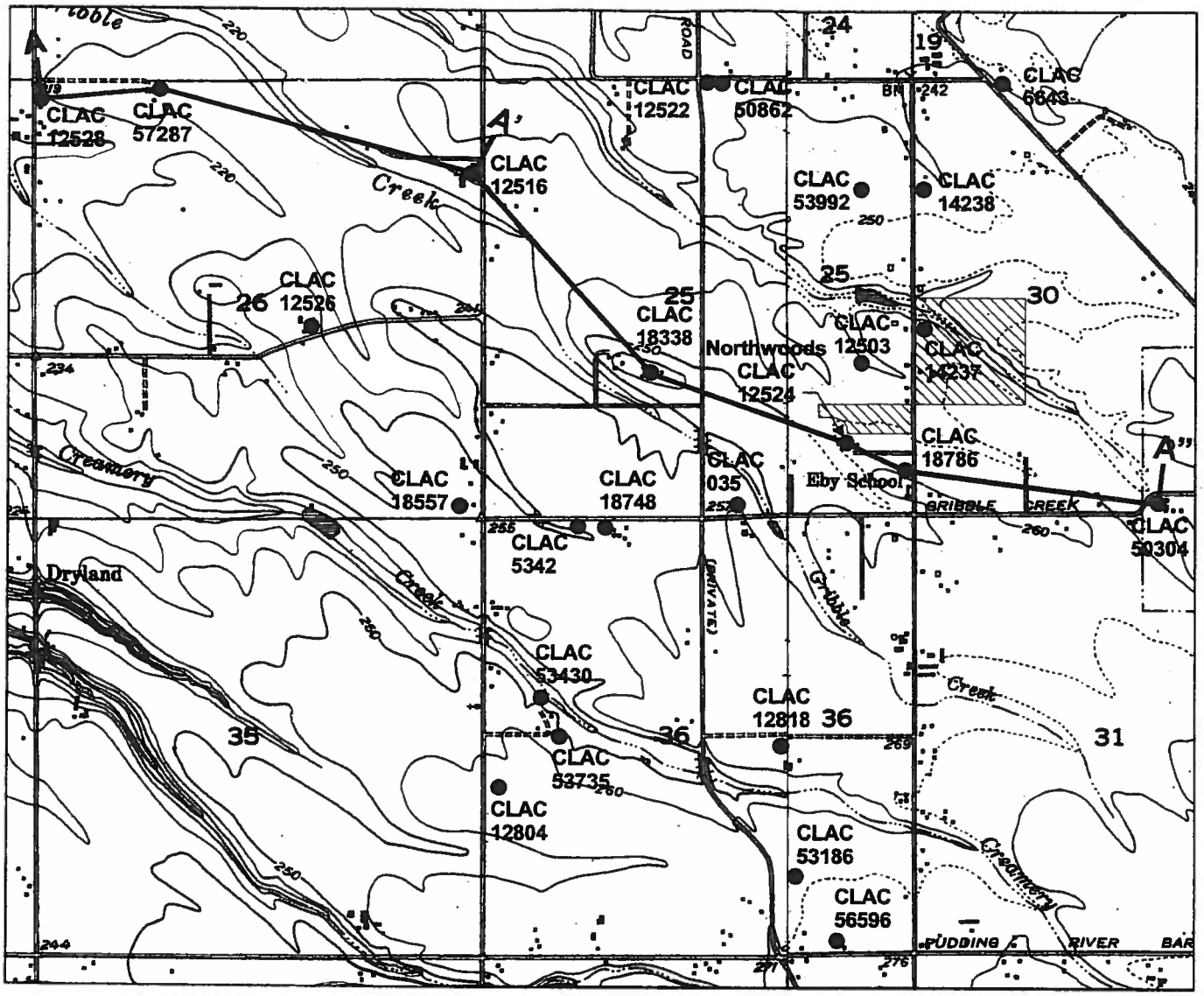
Sincerely,



Gregory E. Kupillas, R.G., C.W.R.E.

Attachments: Figure 1. Well and Cross Section Locations
Figure 2. Cross Section A-A'
Figure 3. Cross Section A'-A"
Attachment A. Logs for Wells Included on Cross Sections
Attachment B. Logs for Other Wells Shown on Figure 1

Cc: Elizabeth Howard, Churchill, Leonard, Lodine & Hendrie, LLP



Scale: 1:24000

0 — 1 Mile

Countour Interval 10 Feet

N

Key

CLAC 53992 ● Well Location and Log ID No.

A — A' Cross Section Location

Area to be Irrigated under Application G-15808

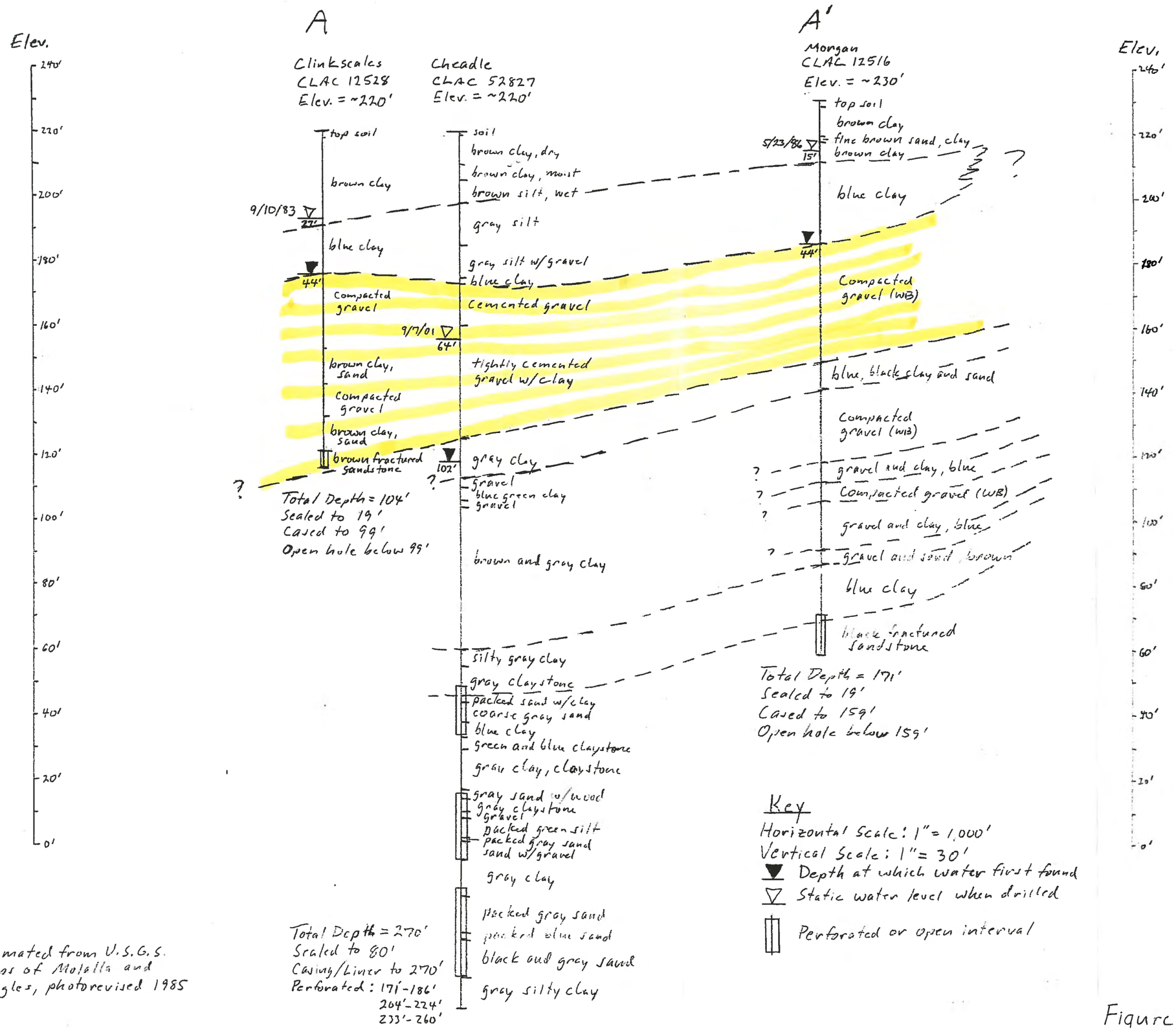
Source: USGS 7.5 Minute Topographic Survey Maps of Molalla and Yoder Quadrangles, Oregon, Photorevised 1985

NorthwoodsFig1.cdr

Pacific Hydro-Geology Inc.

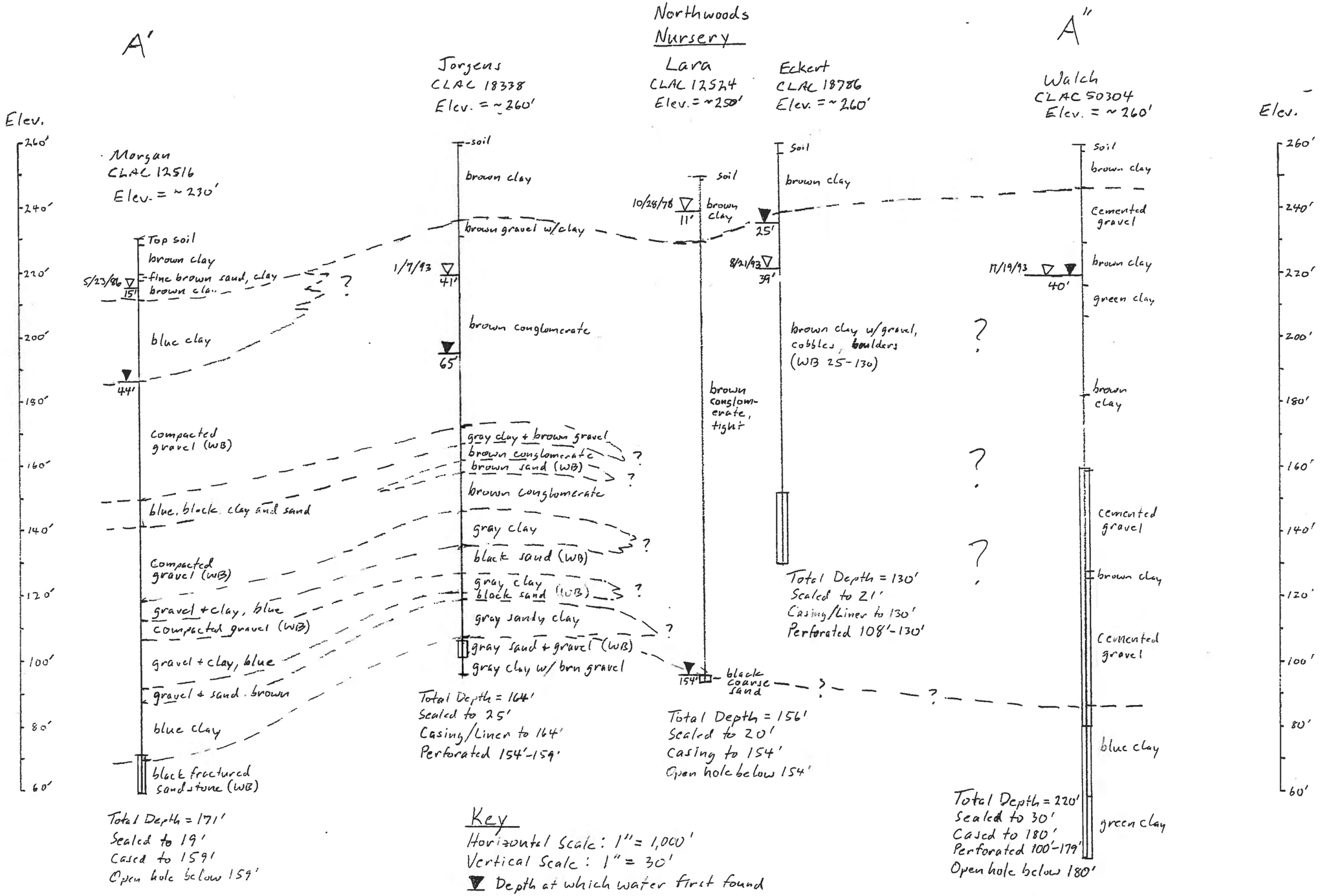
Figure 1. Well and Cross Section Locations

Northwoods Nursery
Application G-15808
T.4S. R.1E. Section 25 and
T.4S. R.2E. Section 30



Elevations estimated from U.S.G.S. Topographic Maps of Molalla and Yoder Quadrangles, photorevised 1985

Figure 2. Cross-Section A-A'



Elevations estimated from U.S.G.S. Topographic Maps of Molalla and Yoder Quadrangles, photorevised 1985

Figure 3. Cross-Section A'-A''

ATTACHMENT A

Logs for Wells Included on Cross Sections

WATER WELL REPORT
STATE OF OREGON

CLAC 1528

RECEIVED
SEP 20 1983
WATER RESOURCES

State Well No. 4S/1E-26a

State Permit No. TL 403

PLEASE TYPE OR PRINT

(1) OWNER:
Name Tracy Clirkscales
Address 15800 Boonesferry Rd.
City Lake Oswego State Or

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary Air ☒ Driven ☐
Rotary Mud ☐ Dug ☐
Cable ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐
Thermal: Withdrawal ☐ Reinjection ☐

(5) CASING INSTALLED:
Steel ☒ Plastic ☐
Threaded ☐ Welded ☒
6 "Diam. from +20" ft. to 99 ft. Gauge .250
"Diam. from ft. to ft. Gauge

LINER INSTALLED:
"Diam. from ft. to ft. Gauge

(6) PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot Size Set from ft. to ft.
Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☒ Yes ☐ No If yes, by whom? Driller
Yield: 30 gal/min. with 30 ft. drawdown after 2 hrs.
Air test: gal/min. with drill stem at ft. hrs.
Bailer test: gal/min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Special standards: Yes ☐ No ☒
Well seal—Material used Cement
Well sealed from land surface to 19 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 10 sacks
How was cement grout placed? Pressure grouted from 19 ft. to land surface.
Was pump installed? Yes Type Sub HP 1 Depth 84 ft.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of Water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number 239
NW ¼ NW ¼ Section 26 T. 4S R. 1E W.M.
Tax Lot # Lot Blk Subdivision
Address at well location: 28076 S. Dryland Rd. Canby, Or. 97013

(11) WATER LEVEL: Completed well.
Depth at which water was first found 44
Static level 27 ft. below land surface. Date 9/10
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6"
Depth drilled 104 ft. Depth of completed well 104

Formation: Describe color, texture, grain size and structure of materials; and sh thickness and nature of each stratum and aquifer penetrated, with at least one en for each change of formation. Report each change in position of Static Water Le and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Top soil	0	2	
Clay, brown	2	29	
Clay, blue	29	44	
*Gravel, compacted	44	67	
Clay, sand, brown, fine	67	78	
*Gravel, compacted	78	88	
Clay, sand, brown, fine	88	99	
*Sandstone, brown, fract.	99	104	

Work started 9/8 19 83 Completed 9/10 1983
Date well drilling machine moved off of well 9/10 1983

(unbonded) Water Well Constructor Certification (if applicable):
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Bill Kern Date 9/17, 19 83

Bonded Water Well Constructor Certification:
Bond (number) EX490686 Issued by: American States (Surety Company Name)
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name B & G Drilling (Person, firm or corporation) (Type or print)
Address 10030 S. Macksburg Rd. Canby, Or.
[Signed] George L. Brigmond (Water Well Constructor)
Date 9/17, 19 83

NOTICE TO WATER WELL CONSTRUCTOR
The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

SP-46288-880

CLAC 57287

Westerberg Drilling, Inc.
36728 S. Kropf Rd.
Molalla, OR 97038

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

WELL I.D. # L 50516
START CARD # 139282

Instructions for completing this report are on the last page of this form.

(1) LAND OWNER Well Number
Name RICHARD CHEADLE
Address 28000 S. DRYLAND RD.
City CANBY State OR Zip 97013

(2) TYPE OF WORK
☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:
☒ Rotary Air ☐ Rotary Mud ☒ Cable ☐ Auger
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 270 ft.
Explosives used ☐ Yes ☒ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12	0	70	CEMENT	18	80	70 SACKS
10	70	80	BENT.	0	18	13 SACKS
8	80	270				

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E
☐ Other
Backfill placed from ft. to ft. Material
Gravel placed from 150 ft. to 270 ft. Size of gravel SILICA SAND

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	+1	170	.250	☒	☐	☒	☐
					☐	☐	☐	☐
	6"	151	171	.250	☒	☐	☒	☐
	6"	186	204	.250	☒	☐	☒	☐
Liner:	5"	224	233	.258	☒	☐	☒	☐
	5"	260	270	.258	☒	☐	☒	☐

Drive Shoe used ☐ Inside ☒ Outside ☐ None
Final location of shoe(s) 170'

(7) PERFORATIONS/SCREENS:
☐ Perforations Method
☒ Screens Type V-WIRE Material S.S.

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
171	186	.070		6"	p/s	☐	☒
204	224	.070		5"	p/s	☐	☒
233	260	.040		5"	p/s	☐	☒
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
250	58		4 hr.

Temperature of water 54 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County CLACKAMAS Latitude Longitude
Township 4S N or S Range 1E E or W. WM.
Section 26 NE 1/4 NW 1/4
Tax Lot 200 Lot Block Subdivision
Street Address of Well (or nearest address) SAME

(10) STATIC WATER LEVEL:
64 ft. below land surface. Date 9-7-01
Artesian pressure lb. per square inch Date

(11) WATER BEARING ZONES:
Depth at which water was first found 102'

From	To	Estimated Flow Rate	SWL
ALL SAND & GRAVEL LAYERS BELOW 102			64

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WATER RESOURCES DEP
SALEM, OREGON

(12) WELL LOG:
Ground Elevation

Material	From	To	SWL
SOIL	0	1	
CLAY BRN DRY	1	10	
CLAY BRN MOIST	10	15	
SILT BRN WET	15	22	
SILT GREY	22	35	
SILT GREY W/GRVL	35	45	
CLAY BLUE STICKY	45	47	
GRVL CEMENTED	47	60	
TIGHTLY CMTD GRVL W/ SOME CLAY	60	95	
CLAY GREY STICKY	95	107	
GRAVEL	107	110	
CLAY BLUE GRN	110	114	
GRVL DRY	114	116	
CLAY BRN & GREY	116	160	
SILTY CLAY GREY	160	165	
CLAYSTONE GREY	165	174	
PACKED SAND W/CLAY	174	176	
CONT.			

Date started 7-30-01 Completed 9-7-01

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
Signed WWC Number 1768 Date 9-13-01

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
Signed WWC Number 688 Date 9-13-01

ORIGINAL – WATER RESOURCES DEPARTMENT FIRST COPY – CONSTRUCTOR SECOND COPY – CUSTOMER

CLAC 57287

36728 S. Kropf Rd., Molalla, OR 97038 • Phone: (503) 829-2526 FAX (503) 829-

WELL ID# 50516

OWNER: RICHARD CHEADLE

ADDRESS: 28000 S. DRYLAND RD.

CITY/STATE/ZIP: CANBY, OR 97013

WELL ADDRESS: SAME

COUNTY CLACKAMAS TOWNSHIP 4S RANGE 1E
SECTION 26 NE 1/4 NW 1/4 TAX LOT 200

WELL LOG INFO. CONT'D FROM PREVIOUS PAGE:

MATERIAL	FROM	TO	SWL
SAND GREY CRSE	176	182	
CLAY BLUE	182	186	
CLAYSTONE GRN & BLUE	186	190	
CLAY GREY & CLAYSTONE	190	202	
SAND GREY W/WOOD	202	205	
CLAYSTONE GREY	205	209	
GRAVEL	209	211	
PACKED SILT GRN DRY	211	217	
PACKED SAND GREY	217	218	
SAND W/GRAVEL	218	224	
CLAY GREY	224	235	
PACKED SAND GREY	235	246	
PACKED SAND BLUE	246	248	
SAND BLK GREY LOOSE	248	260	
SILTY CLAY GREY	260	270	

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WATER RESOURCE
SALEM, OREG

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JUN 23 1986

WATER RESOURCES DEPT
SALEM, OREGON

CLAC 1256

4S/1E-25cb 92 100

STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

(1) OWNER:

Owner's Well Number: 283

Name / Charles Morgan

Address 28185 S. Elisha Rd.

City Canby State Or Zip 97013

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Reconditon ☐ Abandon

(3) DRILL METHOD:

☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Other

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Depth of Completed Well 171 ft.

Special Standards date of approval

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
12	0	19	cement	0	19	50 sacks

How was seal placed? Method ☐ A ☐ B ☒ C ☐ D ☐ E
☐ Other

Backfill placed from ft. to ft. Material

Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8"	+18	159	250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

☐ Perforations Method

☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Pumping level	Drill stem at	Time
180		140	½ hr
			1 hr

Temperature of water 54 Depth Artesian Flow Found

Was a water analysis done? ☐ Yes By whom

Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County Clack. Latitude ' " Longitude ' "

Township 4S N or S, Range 1E E or W, WM.

Section 25 SW ¼ NW ¼

Tax Lot Lot Block Subdivision

Street Address of Well (or nearest address) 28185 S. Elisha R

(10) STATIC WATER LEVEL:

15 ft. below land surface. Date 5/23/86

Artesian pressure lb. per square inch. Date

(11) WELL LOG:

Ground elevation

Material	From	To	WB?	SWI
Top soil	0	2		
Clay, brown	2	11		
Sand,clay,brown,fine	11	13		
Clay, brown	13	19		
Clay, blue	19	44		
Gravel, compact	44	81	Yes	
Clay,sand,blue,black, fine	81	89		
Gravel, compact	89	112	Yes	
Gravel,clay,medium, blue	112	118		
Gravel, compact	118	124	Yes	
Gravel,clay,medium, blue	124	139		
Gravel,sand,medium, brown	139	143		
Clay, blue	143	161		
Sandstone, black, fractured	161	171	Yes	

Date started 5/7/86 Completed 5/23/86

(unbonded) Water Well Constructor Certification:

I constructed this well in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed Date 5/27/86

(bonded) Water Well Constructor Certification:

I accept responsibility for construction of this well and its compliance with all Oregon water well standards. This report is true to the best of my knowledge and belief.

Signed George J. Wainwright Date 5/27/86

Company B&G Well Drilling Co. Job No. 283

WSBC 10/83

16

CLAC 18338

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

RECEIVED
JAN 2 2 1993
WATER RESOURCES DEPT.
SALEM, OREGON

4S/1E/2

(START CARD) # 47766

(1) OWNER: Well Number
Name FRED JORGENS
Address 28668 S. ELISHA RD.
City CANBY State OR Zip 97013

(2) TYPE OF WORK:
☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD:
☐ Rotary Air ☐ Rotary Mud ☒ Cable
☐ Other

(4) PROPOSED USE:
☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 164 ft.
Explosives used ☐ Yes ☒ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
10	0	25	BENTONITE	0	25	32 SKS
8	25	37	GRANULAR			
6	37	164				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☒ Other POURED INDRY
Backfill placed from 37 ft. to 25 ft. Material BENTONITE
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6	+1	153	.250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	5	149	154	.188	☒	☐	☒	☐
	5	159	164	.188	☒	☐	☒	☐

Final location of shoe(s) 153

(7) PERFORATIONS/SCREENS:
☐ Perforations Method
☒ Screens Type V-WIRE Material S.S.

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
154	159	.018			6"	☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
			1 hr.
72	18		17 HRS

Temperature of Water 53 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other SANDY
Depth of strata: 129-133

(9) LOCATION OF WELL by legal description:
County CLACKAMAS Latitude Longitude
Township 4S N or S. Range 1E E or W.
Section 25 NE ¼ SW ¼
Tax Lot 1202 Lot Block Subdivision
Street Address of Well (or nearest address) SAME

(10) STATIC WATER LEVEL:
41 ft. below land surface. Date 1-7-
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 65

From	To	Estimated Flow Rate
98	102	20 gpm
129	133	40 gpm
139	141	30 gpm
153	159	100 gpm

(12) WELL LOG:
Ground elevation

Material	From	To
SOIL BROWN	0	1
CLAY BRN	1	24
GRAVEL BRN W/CLAY BINDER BRN	24	29
GRAVEL BRN CONGLOM.	29	88
CLAY GREY GRAVEL BRN	88	93
GRAVEL BRN CONGLOM	93	98
SAND BRN MED	98	102
GRAVEL BRN CONGLOM	102	114
CLAY GREY	114	124
SAND BLK MED TO FINE	124	133
CLAY GRAY SANDY	133	139
SAND BLACK FINE	139	141
CLAY GREY SANDY	141	153
SAND & GRAVEL GREY MED	153	159
CLAY GREY W/ GRAVEL BRN	159	164

Westerberg Drilling, Inc.
36728 S. Kropf Rd.
Molalla, OR 97038
829-2526

Date started 12-19-92 Completed 1-7-93

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.
Signed Daniel R. Strobl WWC Number 14
Date 1-9-93

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.
Signed Steven N. Strobl WWC Number 68
Date 1-9-93

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809

Gilbert Well

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the
STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date of well completion.

CLAC 12524

WATER WELL REPORT

STATE OF OREGON

(Please type or print)

(Do not write above this line)

RECEIVED
NOV 6 1978
WATER RESOURCES DEPT.
SALEM, OREGON

State Well No. 4S/1E-25

Permit No. TL 1907

(1) OWNER:

Name Frank M. Lara

Address 27730 Pelican St.
Canby, Oregon 97013

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
[redacted] ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒

8 " Diam. from +1 ft. to 154 ft. Gage .250

" Diam. from ____ ft. to ____ ft. Gage ____

[redacted]" Diam. from ____ ft. to ____ ft. Gage ____

(6) PERFORATIONS:

Perforated? ☐ Yes ☒ No.

Type of perforator used

Size of perforations in. by in.

____ perforations from ____ ft. to ____ ft.

____ perforations from ____ ft. to ____ ft.

____ perforations from ____ ft. to ____ ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Diam. Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

[redacted]d: gal./min. with ft. drawdown after hrs.

" " " "

Air 175 gal./min. with 75 ft. drawdown after 1 hrs.
Bailer test

[redacted]sian flow g.p.m.

[redacted]emperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Bentonite

Well sealed from land surface to 20 ft.

Diameter of well bore to bottom of seal 12 in.

Diameter of well bore below seal 8 in.

Number of sacks of cement used in well seal sacks

Number of sacks of bentonite used in well seal 1 sacks

Brand name of bentonite National

Number of pounds of bentonite per 100 gallons of water 100 lbs./100 gals.

Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☐ No Size of gravel:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Clackamas Driller's well number

SE ¼ SE ¼ Section 25 T. 4S R. 1E W.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 154

Static level 11 ft. below land surface. Date 10/28/

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 8

Depth drilled 156 ft. Depth of completed well 156

Formation: Describe color, texture, grain size and structure of material and show thickness and nature of each stratum and aquifer penetrated with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata

MATERIAL	From	To	SWL
Top soil	0	1	
Clay, brown	1	20	9
Conglomerate, brown tight	20	154	
Sand, coarse, black	154	156	11

Work started 10/26 19 78 Completed 10/28 19

Date well drilling machine moved off of well 10/28 19

Drilling Machine Operator's Certification:

This well was constructed under my direct supervisio[n]
Materials used and information reported above are true to m[y]
best knowledge and belief.

[Signed] Steve Stadeli (Drilling Machine Operator) Date 11/1 19

Drilling Machine Operator's License No. 860

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report i[s]
true to the best of my knowledge and belief.

Name C. G. Westerberg (Person, firm or corporation) (Type or print)

Address Rt. 1, Box 151, Mulin, Oregon

[Signed] C G Westerberg (Water Well Contractor)

Contractor's License No. 86 Date 11/1 19 7[8]

(USE ADDITIONAL SHEETS IF NECESSARY)

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

CCAC 18086

RECEIVED
SEP 16 1993
WATER RESOURCES DEPARTMENT
SALEM, OREGON

4S/1E/2

(START CARD) # 50386 TL 1

(1) OWNER: Well Number
Name David & Deanne Eckert
Address 7018 SE Center St
City Portland State Or Zip 97206

(2) TYPE OF WORK:
☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD:
☐ Rotary Air ☐ Rotary Mud ☒ Cable
☐ Other

(4) PROPOSED USE:
☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☐ No Depth of Completed Well 130 ft.
Explosives used ☐ Yes ☐ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
10	1	21	Bentonite	1	21	18
6	21	130				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☒ Other Granular Bentonite method
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6	0	108	25	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	5	100	120	SCH80	☐	☒	☐	☐
	4"	120	130	SCH80	☐	☒	☐	☐

Final location of shoe(s) 108

(7) PERFORATIONS/SCREENS:
☒ Perforations Method SAW
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
108	130	.100	50			☐	☒
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
			1 hr.
40	25		1 hr.

Temperature of Water 53 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Clackamas Latitude Longitude
Township 4S N or S. Range 1E E or W.
Section 25 SE ¼ SE ¼.
Tax Lot Lot Block Subdivision
Street Address of Well (or nearest address)
28959 S. Cramer Rd. Molalla

(10) STATIC WATER LEVEL:
39 ft. below land surface. Date Aug 21
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 25

From	To	Estimated Flow Rate
25	130	

(12) WELL LOG:
Ground elevation

Material	From	To
Soil	1	3
Clay, brown	3	21
Clay, brown, w/cobbles, gravel and occasional boulders	21	130

Date started Aug 16 Completed Aug 21, 1993

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.
WWC Number
Signed Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.
WWC Number 743
Signed Date Aug 23

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C

CLAC 50304

TL 401

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

RECEIVED
MAR 1 - 1996
WATER RESOURCES DEPT
SALEM, OREGON

(START CARD) # 42280

(1) OWNER: Well Number
Name Marlin K Walch
Address 12580 S Eby Rd.
City Molalla State Ore Zip 97038

(2) TYPE OF WORK:
☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD:
☐ Rotary Air ☐ Rotary Mud ☒ Cable
☐ Other

(4) PROPOSED USE:
☒ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 220 ft.
Explosives used ☐ Yes ☒ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
12	0	30	Bentonite	0	30	17 sacks
8	30	220				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☒ Other dry Bentonite
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	+1	180	250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) 180

(7) PERFORATIONS/SCREENS:
☒ Perforations Method Mills knife
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
100	79	45	636	1/4x3		☒	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☒ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
70 gpm	10		1 hr.

Temperature of Water 53 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Clackamas Latitude Longitude
Township 4S N or S. Range 2E E or W.
Section 31 NE ¼ NE ¼
Tax Lot Lot Block Subdivision
Street Address of Well (or nearest address) 12580 S. Eby
Molalla Ore 97038

(10) STATIC WATER LEVEL:
40 ft. below land surface. Date Nov
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 40

From	To	Estimated Flow Rate
101	132	35+
134	173	20+

(12) WELL LOG:
Ground elevation

Material	From	To
Top Soil	0	2
Clay Brown	2	13
Cemented Gravel	13	30
Clay Brown	30	43
Clay Green	43	53
Clay Brown	53	78
Clay light Brown	78	101
Cemented Gravel	101	132
Clay Brown	132	134
Cemented Gravel	134	173
Clay Blue	173	201
Clay Green	201	220

Date started Sep 17 93 Completed Nov 20,

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.
WWC Number
Signed Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.
WWC Number
Signed Date

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ATTACHMENT B

Logs for Other Wells Shown on Figure 1

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SALEM, OREGON

File Original and First Copy with the STATE ENGINEER, SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON

CLAC 12522

State Well No. 4/1-25C

State Permit No. TL 500

(1) OWNER:
Name: Kendall Mitchell
Address: Rt. 2 Box 295
Canby, Ore

(2) LOCATION OF WELL:
County: Clackamas Owner's number, if any:
N.W. ¼ N.E. ¼ Section 25 T. 4 S. R. 1 E. W.M.
Bearing and distance from section or subdivision corner:
From the N.W. corner of the N.E. ¼ of sec. 25, go S. 180 feet then E. 30 feet

(3) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(6) CASING INSTALLED:
Threaded ☒ Welded ☐
6" Diam. from 0 ft. to 63 ft. Gage 17 lb.
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(7) PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(8) SCREENS:
Well screen installed ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.
Was a surface seal provided? ☐ Yes ☐ No To what depth? ft.
Material used in seal
Did any strata contain unusable water? ☐ Yes ☐ No
Type of water? Depth of strata
Method of sealing strata off

(10) WATER LEVELS:
Static level 16 ft. below land surface Date sept. 26
Artesian pressure lbs. per square inch Date

Log Accepted by:
[Signed] Kendal Mitchell (Owner) Date 11-14 19 59

(11) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after
" " "
" " "
Bailer test 30 gal./min. with 30 ft. drawdown after ½
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? ☐ Yes

(12) WELL LOG:
Diameter of well 6 in.
Depth drilled 63 ft. Depth of completed well 63
Formation: Describe by color, character, size of material and structure, show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation

MATERIAL	FROM	TO
Silty brown clay	0	23
Blue clay	23	35
Sand Gravel brn. clay (water) 61	35	63

Work started sept 20 19 59 Completed sept 28 19

(13) PUMP:
Manufacturer's Name Rapidaton
Type: Submergable H.P. ½

Well Driller's Statement:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Tolleson drilling Co. (Person, firm, or corporation) (Type or print)
Address rt 1 box 268 Mulino Oregon
Driller's well number 10-59
[Signed] Ralph E. Tolleson (Well Driller)
License No. 264 Date Sept 30 19 59

USE ADDITIONAL SHEETS IF NECESSARY.

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CLAC 50862

AUG 20 1996

WATER RESOURCES DEPT.
SALEM, OREGON

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

WELL I.D.# L01910

(START CARD) # 90003

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number

Name VERN GINGERICH

Address 10765 S. BARNARDS RD.

City CANBY State OR Zip 97013

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[X] Rotary Air [ ] Rotary Mud [ ] Cable [ ] Auger

[ ] Other

(4) PROPOSED USE:

[X] Domestic [ ] Community [ ] Industrial [ ] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [X] No Depth of Completed Well 170 ft.

Explosives used [ ] Yes [X] No Type _____ Amount _____

HOLE Diameter	From	To	Material	SEAL From	To	Sacks or pounds
12	0	33	BENT.	0	33	18 SACKS

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E

[X] Other PLACED DRY

Backfill placed from 181 ft. to 170 ft. Material HOLE PLUG/SAND

Gravel placed from 170 ft. to 112 ft. Size of gravel 8-12 #6

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	+18	132	250	[X]	[ ]	[X]	[ ]
	8	173	176±	250	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:	5	112	133	258	[X]	[ ]	[X]	[ ]
	5	154	170	258	[X]	[ ]	[X]	[ ]

Final location of shoe(s) CUT OFF PIPE & SHOE 173'-177'

(7) PERFORATIONS/SCREENS:

[ ] Perforations Method _____

[X] Screens Type V-WIRE Material SS

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
133	154	.035		5"		[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

(8) WELL TESTS: Minimum testing time is 1 hour

[ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
75		105	1 hr.

Temperature of water 54 Depth Artesian Flow Found _____

Was a water analysis done? [ ] Yes By whom _____

Did any strata contain water not suitable for intended use? [ ] Too little

[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other _____

Depth of strata: _____

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude _____ Longitude _____

Township 4S N or S Range 1E E or W WM

Section 25 NW 1/4 NE 1/4

Tax Lot 300 Lot _____ Block _____ Subdivision _____

Street Address of Well (or nearest address) _____

RIGGS DAM RD./MOLALLA FOREST RD., CANBY, O

(10) STATIC WATER LEVEL:

61 ft. below land surface. Date 8-13-96

Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 94

From	To	Estimated Flow Rate	SWL
94	99	20	58
109	121	40	58
121	128	15	58
135	152	75	

(12) WELL LOG:

Ground Elevation _____

Material	From	To	SWL
SOIL BROWN GREY	0	1	
CLAY BROWN	1	17	
CLAY GREY	17	23	
CLAY & COBBLES GRAVEL GREY	23	32	
GRAVEL CEMENTED GREY	32	47	
CLAY COBBLES & GRAVEL BRN	47	76	
CLAY GREY	76	94	
SAND & GRAVEL GREY SEMI-LOOSE	94	99	
CLAY GREY	99	109	
SAND GREY MED TO FINE SEMI-LOOSE	109	121	
SAND GRAVEL WOOD & CLAY	121	128	
CLAY GREY	128	135	
SAND & GRAVEL CEMENTED GREY FINE	135	149	
SAND GREY SEMI LOOSE	149	152	
CLAY BROWN SANDY	152	157	
CLAY BROWN HARD	157	172	
CLAY BROWN STICKY	172	181	

Date started 8-7-96 Completed 8-13-96

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number 1487

Signed Dan Stadel Date 8-17-96

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 688

Signed Steve M. Stadel Date 8-17-96

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CLAC
53992

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

Instructions for completing this report are on the last page of this form.

WELL I.D. # L 27153
START CARD # 111469

(1) OWNER: Well Number
Name VERNE GINERICH
Address 28350 S. MOLALLA FOREST RD.
City CANBY State OR Zip 97013

(2) TYPE OF WORK
[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:
[ ] Rotary Air [ ] Rotary Mud [X] Cable [ ] Auger
[ ] Other

(4) PROPOSED USE:
[ ] Domestic [ ] Community [ ] Industrial [X] Irrigation
[ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval [ ] Yes [X] No Depth of Completed Well 19 ft.
Explosives used [ ] Yes [X] No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
16	0	19	BENTONITE	0	19	17 SACKS

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E
[X] Other BENT. POURED DRY
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	12	+1	19	.250	[X]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s) 19'

(7) PERFORATIONS/SCREENS:
[ ] Perforations Method NONE
[ ] Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

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SALEM, OREGON

(8) WELL TESTS: Minimum testing time is 1 hour
[ ] Pump [ ] Bailer [ ] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
			1 hr.
NO WATER ENCOUNTERED			

Temperature of water Depth Artesian Flow Found
Was a water analysis done? [ ] Yes By whom
Did any strata contain water not suitable for intended use? [ ] Too little
[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County CLACKAMAS Latitude Longitude
Township 4S N or S Range 1E E or W. W
Section 25 SE 1/4 NE 1/4
Tax Lot 202 Lot Block Subdivision
Street Address of Well (or nearest address)
28350 S. MOLALLA FOREST RD.

(10) STATIC WATER LEVEL:
NONE ft. below land surface. Date
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found NONE

From	To	Estimated Flow Rate	S

(12) WELL LOG:
Ground Elevation

Material	From	To	SWL
TOPSOIL	0	1	
CLAY TAN	1	19	
THIS WELL IS FOR PERMIT #G-13264.			
IT WILL BE DEEPENED TO FINAL			
DEPTH IN THE FUTURE.			
[illegible] drilling, [illegible]			
[illegible] 28 S. [illegible] Rd.			
[illegible] [illegible] 97038			

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WATER RESOURCES DEPT.
SALEM, OREGON

Date started 10-21-98 Completed 10-21-98

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
WWC Number
Signed Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
WWC Number 688
Signed Steven N. Shadle Date 11-10-9

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APR 11 1989
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SALEM, OREGON

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CLAC 035
APR 26 1990

4S/1E/2

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

(START CARD) # 17099

Well Number 78

(1) OWNER:
Name Dean H Sumpter
Address 1607 N. Maple St
City Canby State Ore Zip 97013

(2) TYPE OF WORK:
☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☐ Rotary Air ☐ Rotary Mud ☒ Cable
☐ Other

(4) PROPOSED USE:
☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☒ Depth of Completed Well 190 ft.
Explosives used Yes ☐ No ☒ Type ____ Amount ____

BORE HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
10+	0	22	Cement	0	20	33 Sacks
			4 B 2 Bentonite			
6	22	190				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☐ Other Poured through Side Drill Pipe
Backfill placed from 20 ft. to 0 ft. Material Cement & Gravel
Gravel placed from 190 ft. to 70 ft. Size of gravel 1/4 - minus

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6"	+1	180	250	☒	☐	☒	☐
					☐	☐	☐	☐
	Plastic Fill Pipe	+1	70	none	☐	☒	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) 180

(7) PERFORATIONS/SCREENS:
☒ Perforations ☐ Screens
Method Star Drive down
Type ____ Material ____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
75	95	1/8 x 1 1/2	175	6		☐	☐
						☒	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
50	60		4hr.

Temperature of water ____ Depth Artesian Flow Found ____
Was a water analysis done? ☐ Yes By whom ____
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____
Depth of strata: ____

(9) LOCATION OF WELL by legal description:
County Clackamas Latitude ____ ' ____ " Longitude ____
Township 4S N or S, Range 1E E or W, Meridian W.M.
Section 25 SW ¼ SE ¼
Tax Lot 1700 Lot ____ Block ____ Subdivision ____
Street Address of Well (or nearest address) 22990 Central Rd. Canby Ore 97013

(10) STATIC WATER LEVEL:
84 ft. below land surface. Date 4-
Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:
Depth at which water was first found 88 to 94

From	To	Estimated Flow Rate
88	94	30 GPM
180	190	20

(12) WELL LOG:
Ground elevation ____

Material	From	To
Top Soil	0	2
Brown Clay	2	12
Brown Silty Clay	12	32
Blue Silty Clay	32	56
Gray Clay	56	60
Redish Brown Sandy Clay	60	66
Darke Gray Clay	66	84
Light blue Clay	84	88
Blue Silty Sand	88	96
Light Gray Clay	96	108
Blue Clay	108	152
Darke Brown Clay	152	170
Redish Brown Silty Sand (Water)	170	180
Streeks of Silty Sand & Clay	180	190
The well was Side Drilled		
To 100 ft and gravel Packed		
Each to 70 ft a 2½ in Plastic		
Fill Pipe was brought to		
Surface to add Pea gravel		

Date started 3-20-90 Completed 4-7-90

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteratio abandonment of this well is in compliance with Oregon well constr standards. Materials used and information reported above are true to my knowledge and belief.
WWC Number ____
Signed ____ Date ____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonm work performed on this well during the construction dates reported abov work performed during this time is in compliance with Oregon construction standards. This report is true to the best of my knowledge belief.
WWC Number 44
Signed John W Beak Date 4-7-9

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SALEM, OREGON

CLAC 12503

4S/1E-25da

3979

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

Well Number #29

(START CARD) #

(1) OWNER:
Name Laurence Walch
Address 28551 S Cramer Rd
City Molalla State Or Zip *97038*

(2) TYPE OF WORK:
97038
☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☒ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☒ Depth of Completed Well 140 ft.
Explosives used Yes ☐ No ☒ Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
10"	0	19'	cement	0	19'	17 sacks
6"	19'	140'				

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E
☐ Other
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6"	+18"	118'	.250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	4"PVC	108'	140'		☐	☒	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) 118'

(7) PERFORATIONS/SCREENS:
☒ Perforations Method Saw
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
121'	138'	1/8	30			☐	☒
		X				☐	☐
		8"				☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
60		138'	1 hr.

Temperature of water 54 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Clack. Latitude ' " Longitude ' "
Township 4S N or S, Range 1E E or W, WM.
Section 25 NE ¼ SE ¼
Tax Lot Lot Block Subdivision
Street Address of Well (or nearest address) 28551 S Cramer
Molalla, Or 97038

(10) STATIC WATER LEVEL:
18' ft. below land surface. Date 7/14/8
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 84'

From	To	Estimated Flow Rate	SWL
84'	87'	30 GPM	18'
111'	119'	20 "	18'
121'	140'	40 "	18'

(12) WELL LOG:
Ground elevation

Material	From	To	SWL
Top soil	0	2	
Clay, brown	2	19	
Clay, blue	19	31	
Gravel, compact	31	73	
Clay, sand, brown, fine	73	84	
Sand, brown, fine	84	87	18'
Gravel, compact	87	92	
Clay, brown	92	95	
Gravel, compact	95	108	
Clay, brown	108	111	
Gravel, compact	111	119	18'
Clay, blue	119	121	
Gravel, compact	121	140	18'

Date started 7/11/88 Completed 7/14/88

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number
Signed Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 637
Signed George J Wainwright Date 7/14/88

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9809C 3/88

MAY 26 1988

CLAC 12526 4S/1E-26 TL 70

STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

WATER RESOURCES DEPT.
SALEM, OREGON

(1) OWNER:

Well Number: 3970

Name: Roy Miller

Address: 10581 S Heinz Rd

City: Canby State: Or Zip: 97013

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD

☒ Rotary Air ☐ Rotary Mud ☐ Cable

☐ Other

(4) PROPOSED USE:

☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation

☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval: Yes ☐ No ☒ Depth of Completed Well 80 ft.

Explosives used: Yes ☐ No ☒ Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
[illegible]"	0	19'	Cement	0	19'	22 sacks
6"	19'	80'				

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E

☐ Other

Backfill placed from ____ ft. to ____ ft. Material ____

Gravel placed from ____ ft. to ____ ft. Size of gravel ____

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6"	+16"	59'	250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	5"	49'	80'	250	☒	☐	☒	☐
					☐	☐	☐	☐

Final location of shoe(s) 59'

(7) PERFORATIONS/SCREENS:

☒ Perforations Method torch

☐ Screens Type ____ Material ____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
[illegible]'	78'	1/4	20			☐	☒
		X				☐	☐
		6"				☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
60		76'	1 hr.

Temperature of water 54 Depth Artesian Flow Found ____

Was a water analysis done? ☐ Yes By whom ____

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____

Depth of strata: ____

(9) LOCATION OF WELL by legal description:

County Clack Latitude ____ Longitude ____

Township 4S N or S, Range 1E E or W, WM

Section 26 NE ¼ SW ¼

Tax Lot ____ Lot ____ Block ____ Subdivision ____

Street Address of Well (or nearest address) 10581 S Heinz Rd Canby, Or 97013

(10) STATIC WATER LEVEL:

17' ft. below land surface. Date 4/27/

Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:

Depth at which water was first found 52'

From	To	Estimated Flow Rate	SW
52'	55'	10 GPM	14
57'	80'	50 GPM	17

(12) WELL LOG:

Ground elevation ____

Material	From	To	SW
Top soil	0	2	
Clay, brown	2	24	
Clay, blue	24	35	
Gravel, clay, medium, br.	35	52	
Gravel, compact	52	55	14
Gravel, clay	55	57	
Gravel, compact	57	80	17

Date started 4/25/88 Completed 4/27/88

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, o abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my bes knowledge and belief.

WWC Number ____

Signed ____ Date ____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonmen work performed on this well during the construction dates reported above. al work performed during this time is in compliance with Oregon wel construction standards. This report is true to the best of my knowledge and belief.

WWC Number 637

Signed George J Wamsley Date 4/28/88

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER

WRDC 10/8

14

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

CLAC 18557

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JUN 10 1993
WATER RESOURCES DEPT.
SALEM, OREGON

4S/1E/26dc

(START CARD) # 36719

(1) OWNER: Well Number 138
Name Maynard D. Nofziger
Address 28873 S. Elisha Rd
City Canby State OR. Zip 97013

(2) TYPE OF WORK:
☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD:
☒ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 320 ft.
Explosives used ☐ Yes ☒ No Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
14"	0	20	Cement	0	20	75 sacks
10"	20	320				

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E
☐ Other
Backfill placed from ____ ft. to ____ ft. Material ____
Gravel placed from ____ ft. to ____ ft. Size of gravel ____

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	10"	+18"	320	.250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) 320

(7) PERFORATIONS/SCREENS:
☐ Perforations Method ____
☐ Screens Type ____ Material ____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
		N/A				☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
			1 hr.
500		319	32 hrs

Temperature of Water 54 Depth Artesian Flow Found ____
Was a water analysis done? ☐ Yes By whom ____
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____
Depth of strata: ____

SECTION OF WELL by legal description:
County Clackamas Latitude ____ Longitude ____
Township 4 N or ☒ S Range 1 ☐ E or W. WM.
Section 26 SE ¼ SE ¼
Tax Lot 1400 Lot ____ Block ____ Subdivision ____
Street Address of Well (or nearest address) 28873 S. Elisha Rd

(10) STATIC WATER LEVEL:
38 ft. below land surface. Date 5-10-93
Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:
Depth at which water was first found 90

From	To	Estimated Flow Rate	SWL
90	144	75 GPM	41
228	240	100 GPM	52
305	320	500 GPM	38'

(12) WELL LOG:
Ground elevation ____

Material	From	To	SWL
Top Soil	0	2	
clay brown	2	24	
clay sand brown fine	24	38	
gravel compacted	38	144	41
clay brown	144	176	
clay blue	176	228	
sand black fine	228	240	52
clay blue	240	284	
clay sand blue fine	284	294	
clay blue	294	305	
sandstone black	305	320	38

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WATER RESOURCES DEPT.
SALEM, OREGON

Date started 4-10-93 Completed 5-11-93

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number ____
Signed ____ Date ____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 1277
Signed Robert Kern Date 6-8-93

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WATER RESOURCES DEPT.
SALEM, OREGON

CLAC 53430

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

Instructions for completing this report are on the last page of this form.

WELL I.D. # L N/A
START CARD # W-116421

(1) OWNER: Well Number 26-98
Name Butch Hogland
Address 29476 S. Elisha Road
City Canby State OR Zip 97013

(2) TYPE OF WORK
☐ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☒ Abandonment

(3) DRILL METHOD:
☐ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☒ Other In place

(4) PROPOSED USE:
☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☐ No Depth of Completed Well 0 ft.
Explosives used ☐ Yes ☒ No Type ____ Amount ____

BORE HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
3 feet	0	24	Concrete	0	24	7 yards

How was seal placed: Method ☐A ☐B ☐C ☐D ☐E
☒ Other backhoe and cement truck
Backfill placed from ____ ft. to ____ ft. Material ____
Gravel placed from ____ ft. to ____ ft. Size of gravel ____

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	—				☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	—				☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) N/A

(7) PERFORATIONS/SCREENS:
☐ Perforations Method —
☐ Screens Type ____ Material ____

From	To	Slot size	Number	Diameter	Telescope size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
			1 hr.

Temperature of water ____ Depth Artesian Flow Found ____
Was a water analysis done? ☐ Yes By whom —
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____
Depths of strata: ____

(9) LOCATION OF WELL by legal description:
County Clackamas Latitude ____ Longitude ____
Township 4-S N or S Range 1-E E or W WM.
Section 36 NW 1/4 NE 1/4
Tax Lot 701 Lot ____ Block ____ Subdivision ____
Street Address of Well (or nearest address) 29476 S. Elisha Road, Canby, OR 97013

(10) STATIC WATER LEVEL:
— ft. below land surface. Date N/A
Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:
Depth at which water was first found No water observed

From	To	Estimated Flow Rate	SWL

(12) WELL LOG:
Ground Elevation ____

Material	From	To	SWL
The well was filled with concrete.			

STEINMAN BROS. DRILLING CO.
Well Drilling Contractors
3123 S.E. Holly Avenue
Milwaukie, Oregon 97222

Date started 6/22/98 Completed 6/22/98

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
Signed Steinman Bros. Drilling Co. WWC Number "I" (One
Date ____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
Signed ____ WWC Number "I" (One
Date 6/22/9

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Ronald F. McConnell

Butch Hoglund

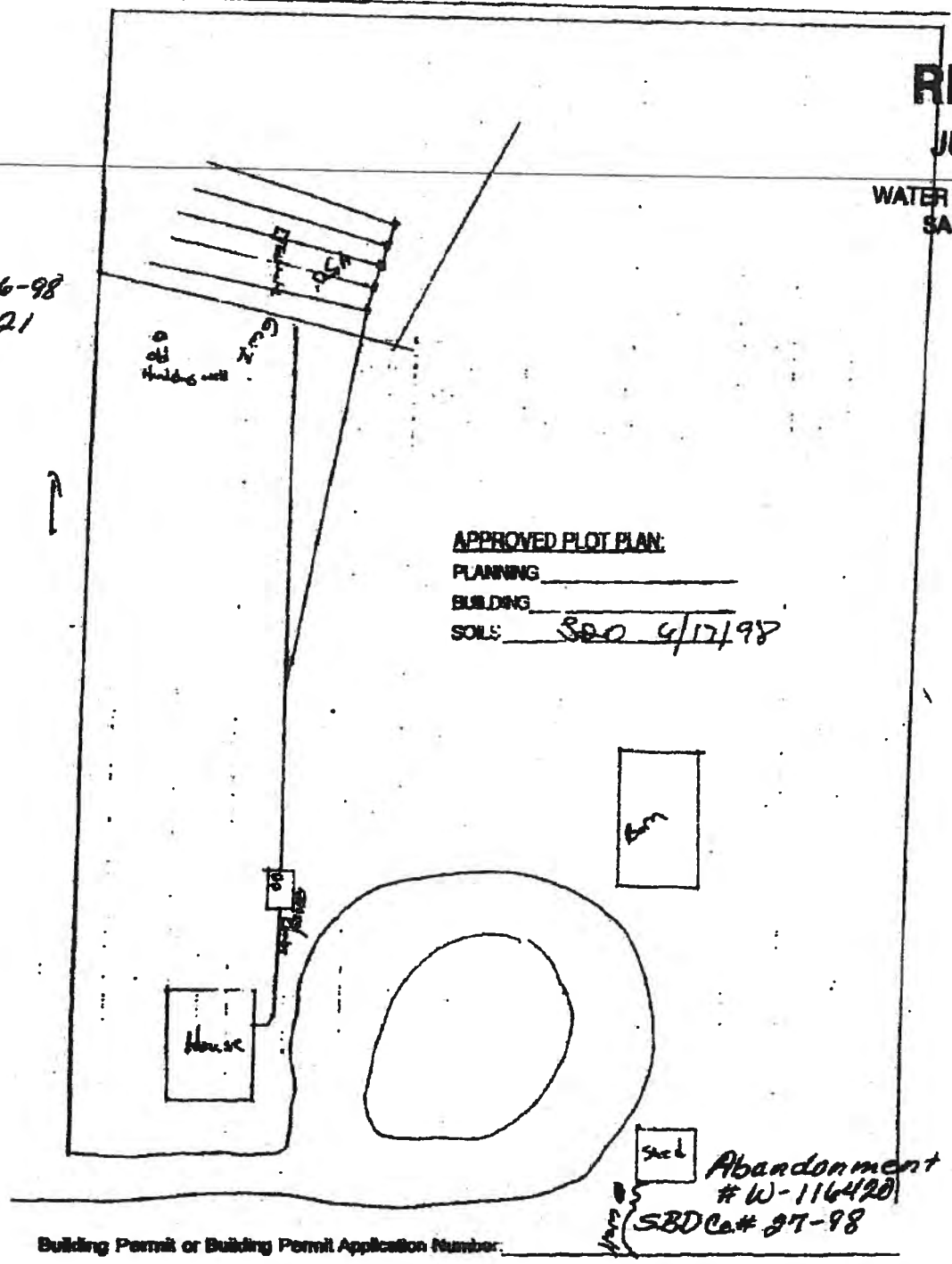
PLOT PLAN

Township 4S Range 1E Section 36 Tax Lot 204

Address:

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WATER RESOURCES DI
SALEM, OREGON

SBDC#26-98
W-116421



APPROVED PLOT PLAN:
PLANNING
BUILDING
SOILS: SBD 4/17/98

Abandonment Cancelled
#W-116420
SBDC# 97-98

Building Permit or Building Permit Application Number:

Start Card # W-116421 and ~~W-116420~~

10

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

Clac 18748

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AUG 18 1993
WATER RESOURCES DEPT
SALEM, OREGON

4S/1E/36 6a

(START CARD) # 47738

(1) OWNER: Well Number
Name PETER EFIMOV/JOSEPH NOVAK
Address 1314 S. EBY RD.
City CANBY State OR Zip 97013

(2) TYPE OF WORK:
XX New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD:
☐ Rotary Air ☐ Rotary Mud XX Cable
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial XX Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes XX No Depth of Completed Well 146 ft.
Explosives used ☐ Yes XX No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
10	0	32	CEMENT	0	32	25 SACKS
6	32	147				

BENTONITE GRANULAR PLACED IN TOP 1 FT.

How was seal placed: Method ☐ A ☐ B XX C ☐ D ☐ E
☐ Other
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6"	+1.5	146	.250	XX	☐	XX	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) 146

(7) PERFORATIONS/SCREENS:
XX Perforations Method MILLS KNIFE
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
78	142	3/8x3	360			XX	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
XX Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
			1 hr.
43	31		3 HRS

Temperature of Water 55 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom NO
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County CLACKAMAS Latitude Longitude
Township 4S N or S. Range 1E E or W. WM.
Section 36 NE ¼ NW ¼
Tax Lot 400 Lot Block Subdivision
Street Address of Well (or nearest address) 11314 S. EBY RD.
CANBY OR

(10) STATIC WATER LEVEL:
20 ft. below land surface. Date 7-15-93
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 11

From	To	Estimated Flow Rate	SWL
11	22	U/K	5
64	147		20

(12) WELL LOG:
Ground elevation Sea Level to 32

Material	From	To	SWL
TOP SOIL	0	1	
CLAY BROWN	1	11	
CLAY BROWN SILTY	11	14	
CLAY GREY SILTY	14	22	
CLAY BLUE	22	28	
CLAY BLUE W/GRAVEL	28	31	
GRAVEL W/CLAY BRN	31	63	
CLAY BRN	63	64	
GRAVEL CEMENTED	64	80	
GRAVEL LOOSLY CEMENTED	80	84	
GRAVEL CEMENTED	84	111	
CLAY BRN	111	112	
GRAVEL CEMENTED	112	134	
CLAY TAN	134	136	
GRAVEL & CLAY	136	147	
Westerberg Drilling, Inc.			
36728 S. Kropf Rd.			
Molalla, OR 97038			
829-2526			

Date started 7-1-93 Completed 7-15-93

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number
Signed Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 688
Signed Steven N. Stubblefield Date 7-31-93

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c/ac 53186

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APR - 7 1998

WATER RESOURCES DEPT.

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

SKYLES DRILLING, INC.

WELL I.D. # L 18716
START CARD # 110236

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 02
Name Florence Walch
Address 11743 S. Barnards Rd.
City Molalla State OR Zip 97038

(2) TYPE OF WORK
☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:
☐ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☒ Other Holte

(4) PROPOSED USE:
☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 39 ft.
Explosives used ☐ Yes ☒ No Type _____ Amount _____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
10	0	19	Bentonite	19	0	8 sacks
7 1/8	19	39				

How was seal placed: Method ☐A ☐B ☐C ☐D ☐E
☒ Other poured
Backfill placed from ____ ft. to ____ ft. Material _____
Gravel placed from ____ ft. to ____ ft. Size of gravel _____

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6	+2	38	250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	None				☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) No shoe Holte

(7) PERFORATIONS/SCREENS:
☐ Perforations Method _____
☐ Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
None						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
22		38	1 hr.

Temperature of water 56° Depth Artesian Flow Found _____
Was a water analysis done? ☒ Yes By whom Driller 2 ppm iron
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other _____
Depth of strata: _____

(9) LOCATION OF WELL by legal description:
County Clackamas Latitude _____ Longitude _____
Township 4 South N or S Range 1 East E or W. WM
Section 36 SW 1/4 SE 1/4
Tax Lot 2100 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 1743 S. Barnards Rd. Molalla, OR

(10) STATIC WATER LEVEL:
20 ft. below land surface. Date 3-20-98
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 19

From	To	Estimated Flow Rate	SWL
19	39	22	2

(12) WELL LOG:
Ground Elevation _____

Material	From	To	SWL
Clay brown	0	19	
Clay brown & gravel	19	35	
Gravel med.	35	39	20

Skyles Drilling, Inc.
1169 Molalla Ave.
Oregon City, OR 97045
656-2883

Date started 3-20-98 Completed 3-20-98

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
WWC Number 553
Signed _____ Date 3-23-98

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
WWC Number 1592
Signed Steve C. Blanc Date 4-2-98

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CLAC

G12818

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM 10, OREGON within 30 days from the date of well completion.

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JUL 8 1964
STATE ENGINEER
SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)

State Well No. 4/1-3
State Permit No. TL 1300

(1) OWNER:
Name Melson Burley
Address RT 3 Box 170
Molalla Oregon

(2) LOCATION OF WELL:
County Clackamas Driller's well number 107
NW ¼ SE ¼ Section 36 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner
From The N.W. Cor of The S.E. ¼ 36 go 5350' Then East 1200'

TYPE OF WORK (check):
Well ☑ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check):
Domestic ☑ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☑ Jetted ☐
Dug ☐ Bored ☐

(6) CASING INSTALLED:
Threaded ☐ Welded ☑
6" Diam. from 0 ft. to 50 ft. Gage 17 GB
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(7) PERFORATIONS:
Perforated? ☐ Yes ☑ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(8) SCREENS:
Well screen installed? ☐ Yes ☑ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:
Well seal—Material used in seal Bentonite Clay
Depth of seal 24 ft. Was a packer used? Yes
Diameter of well bore to bottom of seal 10 in.
Were any loose strata cemented off? ☐ Yes ☑ No Depth
Was a drive shoe used? ☑ Yes ☐ No
Was well gravel packed? ☐ Yes ☑ No Size of gravel:
Gravel placed from ft. to ft.
Did any strata contain unusable water? ☐ Yes ☑ No
Type of water? Depth of strata
Method of sealing strata off

(10) WATER LEVELS:
Static level 13 ft. below land surface Date June 17/64
Artesian pressure lbs. per square inch Date

(11) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☐ No If yes, by whom?
Yield: gal./min. with ft. drawdown after
" " "
" " "
Bailer test 20 gal./min. with 12 ft. drawdown after 1
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? ☐ Yes

(12) WELL LOG:
Diameter of well below casing 6
Depth drilled 51 ft. Depth of completed well 50

Formation: Describe by color, character, size of material and structure, show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Topsoil	0	3
Brown Clay	3	23
Clay Brown Sand & Gravel	23	51
Sand & Gravel	51	

Work started June 16 19 64 Completed June 17 19 64
Date well drilling machine moved off of well 11 19

(13) PUMP:
Manufacturer's Name Myers
Type: Jet H.P. 1

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
NAME Dick Tollefson Well Drilling (Person, firm or corporation) (Type or print)
Address RT 1 Box 268 Molalla Ore
Drilling Machine Operator's License No. 174
[Signed] Richard R. Tollefson (Water Well Contractor)
Contractor's License No. 264 Date June 17, 19 64

(USE ADDITIONAL SHEETS IF NECESSARY)

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CLAC 56596

TL 2200

Pg 1 of 2

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

Instructions for completing this report are on the last page of this form.

WELL I.D. # L 45797
START CARD # 137235

(1) LAND OWNER Well Number
Name Fred Frolov
Address 14376 Whiskey Hill Rd
City Hubbard State OR Zip 97032

(2) TYPE OF WORK
☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:
☐ Rotary Air ☐ Rotary Mud ☒ Cable ☐ Auger
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 218 ft.
Explosives used ☐ Yes ☒ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
16	0	18	Cement	0		
14	18	31			31	31
10	31	218				

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E
☐ Other
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	10	+2	218	.250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Drive Shoe used ☐ Inside ☒ Outside ☐ None
Final location of shoe(s) 218

(7) PERFORATIONS/SCREENS:
☒ Perforations Method Mills knife
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
186	206	3/8 x 2.5	360			☒	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
			1 hr.
150	121 ft		5 hr

Temperature of water 53 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Clackamas Latitude Longitude
Township 4-S N or S Range 1-E E or W. WM.
Section 36 SE 1/4 SE 1/4
Tax Lot Lot Block Subdivision
Street Address of Well (or nearest address) 11825 S Barnards Rd Molalla OR. 97038

(10) STATIC WATER LEVEL:
31 ft. below land surface. Date 2-6-01
Artesian pressure lb. per square inch Date

(11) WATER BEARING ZONES:
Depth at which water was first found 16.5 ft

From	To	Estimated Flow Rate	SWL
16.5	23	2-3	8
75	207	150	31

(12) WELL LOG:
Ground Elevation

Material	From	To	SWL
Top Soil	0	4	
Brown Clay	4	12	
Silty brown clay	12	14	
Gray Clay	14	16.5	
Gray clay & gravel	16.5	23	
Tight gravel with brown clay	23	75	
Cemented gravels	75	76	
Med-large gravel with clay brown	76	91	
Sandy brown Clay	91	93.5	
Brown Clay & gravel	93.5	94	
Sandy brown clay	94	96	
Med to large gravels with brown clay	96	118	
Med to large gravels with blue clay	118	124	
Cont Next Pg			

Date started 12-12-00 Completed 2-6-01

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
WWC Number 1624
Signed Date 2-12-01

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
WWC Number 1273
Signed Floyd A Snap Date 2-12-01

ORIGINAL – WATER RESOURCES DEPARTMENT FIRST COPY – CONSTRUCTOR SECOND COPY – CUSTOMER

RECEIVED CLAC 56596

MAR 19 2001

WATER RESOURCES DEPT. SALEM, OREGON

Pg 2 of 2

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

Instructions for completing this report are on the last page of this form.

WELL I.D. # L 45797

START CARD # 137235

(1) LAND OWNER
Name Fred Frolov Well Number
Address 14376 Whiskey Hill Rd
City Hubbard State OR Zip 97032

(2) TYPE OF WORK
☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:
☐ Rotary Air ☐ Rotary Mud ☒ Cable ☐ Auger
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 218 ft.
Explosives used ☐ Yes ☒ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds

How was seal placed: Method ☐A ☐B ☐C ☐D ☐E
☐ Other
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Drive Shoe used ☐ Inside ☐ Outside ☐ None
Final location of shoe(s)

(7) PERFORATIONS/SCREENS:
☐ Perforations Method
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
			1 hr.

Temperature of water Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Clackamas Latitude Longitude
Township 4-S N or S Range 1-E E or W. WM.
Section 36 SE 1/4 SE 1/4
Tax Lot Lot Block Subdivision
Street Address of Well (or nearest address) 11825 S Barnards Rd Molalla OR 97038

(10) STATIC WATER LEVEL:
31 ft. below land surface. Date 2-6-01
Artesian pressure lb. per square inch Date

(11) WATER BEARING ZONES:
Depth at which water was first found

From	To	Estimated Flow Rate	SWL

(12) WELL LOG:
Ground Elevation

Material	From	To	SWL
Med to large gravel with gray clay	5	124	
Cemented gravel	124	131	
Semi-cemented gravel with gray clay	131	135	
Tight Sand & gravel	135	139	
Sandy gray & blue Clay	139	149	
Gravel & blue clay	149	156.5	
Blue-gray clay	156.5	165	
Blue clay & gravel	165	169	
Course Sand & gravel	169	176	
Brown Clay	176	181	
Med-gravel with trace of gray clay	181	186	
Loose Sand & gravel	186	191	
Semi-tight gravel	191	195	
Gray Sandy Clay & gravel	195	200	
Gray Clay & gravel	200	203	
Soft Gray Clay	203	207	
	207	218	

Date started 12-12-00 Completed 2-6-01

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
WWC Number 1624
Signed Date 2-12-01

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
WWC Number 1273
Signed Floyd Hipp Date 2-12-01

ORIGINAL – WATER RESOURCES DEPARTMENT FIRST COPY – CONSTRUCTOR SECOND COPY – CUSTOMER

#16

CLAC 3242

~~CLAC~~

4S/1E/36

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

(START CARD) # 22259 T

(1) OWNER: Well Number: 104
Name: Rus Dyer
Address: 9530 SE 55th
City: Portland State: Or Zip:

(2) TYPE OF WORK:
☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☒ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Other

(4) PROPOSED USE:
☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☒ Depth of Completed Well 138 ft.
Explosives used Yes ☐ No ☒ Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
10"	0	20	cement	0	20	28 sacks
6"	20	138				

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E
☐ Other
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6"	+24"	138	.250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) 138

(7) PERFORATIONS/SCREENS:
☐ Perforations Method
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
			1 hr.
35		136	3 hrs

Temperature of water 54 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Clack. Latitude Longitude
Township 4S N or S. Range 1E E or
Section 36 NE ¼ NE ¼
Tax Lot Lot Block Subdivision
Street Address of Well (or nearest address) 11310 S Eby
Canby, Or 97013

(10) STATIC WATER LEVEL:
18 ft. below land surface. Date 4/
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 131

From	To	Estimated Flow Rate
131	138	35

(12) WELL LOG: Ground elevation

Material	From	To
Top soil	0	2
Clay, brown	2	8
Clay, brown, sand, fine	8	12
Clay, brown	12	22
Clay, blue	22	31
Gravel, compacted	31	118
Clay, sand, brown, fine	118	131
Gravel, sand, compacted, coarse	131	138

RECEIVED
APR 23 1991
WATER RESOURCES DEPT.
SALEM, OREGON

Date started 4/3/91 Completed 4/6/91

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alter abandonment of this well is in compliance with Oregon well con standards. Materials used and information reported above are true to knowledge and belief.
Signed Robert O Keen WWC Number 1
Date 4/6/91

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or aban work performed on this well during the construction dates reported a work performed during this time is in compliance with Oreg construction standards. This report is true to the best of my knowl belief.
Signed Gregg J Wainwright WWC Number
Date 4/6/9

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the

WATER RESOURCES DEPARTMENT,
SALEM, OREGON 97310
within 30 days from the date of well completion.

WATER WELL REPORT

STATE OF OREGON

(Please type or print)

(Do not write above this line) CLAC 012804

State Well No. 4s/1E-36ab

State Permit No. TL 1600

(1) OWNER:

Name David Bernklau

Address 27560 S. Elisha Rd.
Canby, Or. 97013

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:

Threaded ☐ Welded ☒

6 " Diam. from 0 ft. to 110 ft. Gage .250

" Diam. from ft. to ft. Gage

" Diam. from ft. to ft. Gage

PERFORATIONS:

Perforated? ☐ Yes ☒ No.

Type of perforator used

Size of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Diam. Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? Driller

Yield: 22 gal./min. with 26 ft. drawdown after 2 hrs.

" " " "

" " " "

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Cement

Well sealed from land surface to 22 ft.

Diameter of well bore to bottom of seal 10 in.

Diameter of well bore below seal 6 in.

Number of sacks of cement used in well seal 18 sacks

How was cement grout placed? Pressure grouted from 22 ft. to land surface

Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☒ No Size of gravel:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Clackamas Driller's well number 125

NW ¼ NE ¼ Section 36 T. 4S R. 1E W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 41 ft

Static level 41 ft. below land surface. Date 8-3-79

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 6"

Depth drilled 130 ft. Depth of completed well 130 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Top soil	0	2	
Clay, brown	2	14	
Clay, blue	14	22	
Clay, gravel, blue, comp.	22	41	
*Gravel, compact	41	123	
Clay, brown	123	125	
* Gravel, compact	125	130	

RECEIVED
AUG 13 1979
WATER RESOURCES DEPT
SALEM, OREGON

Work started 8-1 19 79 Completed 8-3 19 79

Date well drilling machine moved off of well 8-3 19 79

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] George J. Wainwright (Drilling Machine Operator) Date 8-3, 1979

Drilling Machine Operator's License No. 837

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name B & G Drilling (Person, firm or corporation) (Type or print)

Address 10030 S. Macksburg Rd. Canby, Or.

[Signed] George J. Wainwright (Water Well Contractor)

Contractor's License No. 637 Date 8-3, 1979

(USE ADDITIONAL SHEETS IF NECESSARY)

clac 53735

WELL I.D.# 25003 L25003

104159

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

(START CARD) # _____

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number _____

Name Butch Hogland

Address 29476 S. Elisha Rd

City Canby State OR Zip 97013

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[ ] Rotary Air [ ] Rotary Mud [X] Cable [ ] Auger

[ ] Other _____

(4) PROPOSED USE:

[X] Domestic [ ] Community [ ] Industrial [ ] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other _____

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [ ] No Depth of Completed Well 145 ft.

Explosives used [ ] Yes [ ] No Type _____ Amount _____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
10	1	30	Bentonite	1	30	25 sacks
6	30	145				

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E

[X] Other Granular Bentonite method

Backfill placed from _____ ft. to _____ ft. Material _____

Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6	0	129	250	[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s) 129

(7) PERFORATIONS/SCREENS:

[ ] Perforations Method _____

[ ] Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

(8) WELL TESTS: Minimum testing time is 1 hour

[ ] Pump [ ] Bailer [ ] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
25	20		18 Hrs.

Temperature of water 54 Depth Artesian Flow Found _____

Was a water analysis done? [ ] Yes By whom _____

Did any strata contain water not suitable for intended use? [ ] Too little

[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other _____

Depth of strata: _____

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude _____ Longitude _____

Township 4S N or S Range 1E E or W.

Section 36 NW 1/4 SW 1/4

Tax Lot 701 Lot _____ Block _____ Subdivision _____

Street Address of Well (or nearest address) same

(10) STATIC WATER LEVEL:

32 ft. below land surface. Date August

Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 20

From	To	Estimated Flow Rate
20	145	

(12) WELL LOG:

Ground Elevation _____

Material	From	To	S
Soil	0	3	
Clay, brown, silty	3	18	
Clay, grey	18	23	
Cemented Gravel, brown	23	139	
Clay, grey	139	141	
Cemented Gravel, grey	141	145	

RECEIVED
SEP 01 1998
WATER RESOURCES DEPT.
SALEM, OREGON

Date started July 24 Completed Aug 6, 1998

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number _____

Signed _____ Date _____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 325

Signed _____ Date 8/6/98

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24' hand dug well - Dry

#14

STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

CLAC 6042

RECEIVED

MAY 9 1991

45/2E/30

(START CARD) # 24044

(1) OWNER:

Name Joe + Eleanor Lammi Well Number

Address 121 Carlon Loop Rd.

City Longview State Wa Zip 98623

(2) TYPE OF WORK:

☐ New Well ☐ Deepen ☐ Recondition ☒ Abandon

(3) DRILL METHOD

☐ Rotary Air ☐ Rotary Mud ☐ Cable

☐ Other abandon

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☐ Irrigation

☐ Thermal ☐ Injection ☐ Other abandon

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes ☐ No ☒ Depth of Completed Well 0 ft.

Explosives used Yes ☐ No ☒ Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
34"	0	24	Concrete	-2	24	6 yrds
34	0	2	Bent.	0	2	8 sacks

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E

☐ Other Poured in Dry hole

Backfill placed from ____ ft. to ____ ft. Material ____

Gravel placed from ____ ft. to ____ ft. Size of gravel ____

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) ____

(7) PERFORATIONS/SCREENS:

☐ Perforations Method ____

☐ Screens Type ____ Material ____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
			1 hr.

Temperature of water ____ Depth Artesian Flow Found ____

Was a water analysis done? ☐ Yes By whom ____

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____

Depth of strata: ____

(9) LOCATION OF WELL by legal description:

County Clark Latitude ____ Longitude ____

Township 4S N or S. Range 2E E or W

Section 30 NE ¼ NW ¼

Tax Lot 100 Lot ____ Block ____ Subdivision ____

Street Address of Well (or nearest address) 12561 S. Liberal Way, Canby, OR 97013

(10) STATIC WATER LEVEL:

0 ft. below land surface. NO STATIC Date ____

Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:

Depth at which water was first found ____

From	To	Estimated Flow Rate

(12) WELL LOG: Ground elevation ____

Material	From	To
This was a hand dug well that was 24 ft. deep. It was not being used for sometime. We pumped water out with a pump & poured in Redi-Mix Concrete up to 2 ft. Water pipes from the existing well went through the top of old well. We filled top 2 ft. with bentonite to make access to pipes possible.		

Date started 4-29-91 Completed 4-29-91

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my knowledge and belief.

WWC Number ____

Signed ____ Date ____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 685

Signed Steven M. Stuebe Date 5-6-91

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STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

RECEIVED
JUL 30 1986
WATER RESOURCES DEPT
SALEM, OREGON

CLA 04237

4S/2E-
TL 130
(for official use only)

PLEASE TYPE or PRINT IN INK

(1) OWNER:

Name JIM GILBERT

Address 28696 CRAMER RD

City MOLALLA State Oregon

(2) TYPE OF WORK (check):

New Well X Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

New Well

(3) TYPE OF WELL:

Rotary Air ☐ Driven ☐

Rotary Mud ☐ Dug ☐

Cable Rig

Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐

Irrigation X Thermal ☐ Injection ☐

Other: Thermal: Withdrawal ☐ Reinjection ☐

Piezometric ☐ Grounding ☐ Test ☐

Irrigation

(5) CASING INSTALLED:

Steel Threaded ☐ Welded ☐ Plastic ☐

Welded Steel

6 " Diam. from 0 ft. to 114 ft. Gauge 28

" Diam. from ft. to ft. Gauge

LINER INSTALLED:

Steel ☐ Threaded ☐ Plastic ☐ Welded ☐

5 " Diam. from 105 ft. to 165 ft. Gauge PVC

(6) PERFORATIONS:

SAW Perforated? ☐ Yes ☐ No

Size of perforations 5 in. by 1/8 in.

180 perforations from 114 ft. to 164 ft.

perforations from ft. to ft.

perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes X No

Manufacturer's Name

Type Model No.

Diam. Slot Size Set from ft. to ft.

Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? X Yes ☐ No If yes, by whom? Driller

65 gal./min. with 60 ft. drawdown after 1 hrs.

Air test gal./min. with drill stem at ft. hrs.

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes ☐ No ☐

Well seal—Material used Granular Bentonite

Well sealed from land surface to 18 + ft.

Diameter of well bore to bottom of seal 10 + in.

Diameter of well bore below seal 6 in.

Amount of sealing material 8 sacks X pounds ☐

How was cement grout placed? Granular Bentonite Method

Was pump installed? No Type HP Depth ft.

Was a drive shoe used? ☐ Yes ☐ No Plug Size: location ft.

Did any strata contain unusable water? ☐ Yes ☐ No

Type of Water? depth of strata ft.

Method of sealing strata off

Was well gravel packed? ☐ Yes ☐ No Size of gravel:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL by legal description:

County CLACKAMAS ¼ SW¼ of Section 30

Township 4S (Township is North or South), Range 2E (Range is East or West)

Tax Lot Lot Block Subdivision

MAILING ADDRESS OF WELL (or nearest address)

Same

(11) WATER LEVEL of COMPLETED WELL:

Depth at which water was first found 62

Static level 23 ft. below land surface. Date Jul 1

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 6 in.

Depth drilled 165 ft. Depth of completed well 165

Formation: Describe color, texture, grain size and structure of materials; and show thi and nature of each stratum and aquifer penetrated, with at least one entry for each cha formation. Report each change in position of Static Water Level and indicate pri water-bearing strata.

MATERIAL	From	To	SW
TOPSOIL	1	4	
CLAY BROWN	4	15	
CLAY GREY	15	22	
CEMENT GRAVEL BROWN	22	110	
CLAY BROWN	110	114	
CEMENT GRAVEL GREY	114	139	
SAND STONE BLACK	139	144	
CEMENTED GRAVEL GREY	144	163	
SAND BLACK	163	165	
PVC SLOTTED LINER/SCREEN SET & CASING PULLED BACK			

note: Depth measured from top of well (ie. 1' above ground lev

Date work started Jul 12 86 /completed Jul 16

Date well drilling machine moved off of well Jul 16 19 8

(unbonded) Water Well Constructor Certification (if applicable):

This well was constructed under my direct supervision. Materials used a information reported above are true to my best knowledge and belief.

[Signed] Date , 19

(bonded) Water Well Constructor Certification:

Bond SB46546 (number) Issued by: Thomas Haun (Surety Company Name)

On behalf of BECK WELL DRILLING (type or print name of Water Well Constructor)

This well was drilled under my jurisdiction and this report is true to t best of my knowledge and belief.

(Signed) Richard Beck (Water Well Constructor)

(Dated) July 16, 1986

NOTICE TO WATER WELL CONSTRUCTOR

The original and first copy of this report are to be filed with the

WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

SP 45889-

WATER WELL REPORT
STATE OF OREGON

CLAC 014238

RECEIVED
DEC 7 1984
WATER RESOURCES DEPT.
SALEM, OREGON

State Well No. 4S/2E-
State Permit No. TL 1103

PLEASE TYPE OR PRINT IN INK

(1) OWNER:
Name Ker Marts
Address 28270 S. Cramer Rd.
City Canby State Or

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary Air ☒ Driven ☐
Rotary Mud ☐ Dug ☐
Cable ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐
Thermal: Withdrawal ☐ Reinjection ☐

(5) CASING INSTALLED:
Steel ☒ Threaded ☐ Plastic ☐ Welded ☒
6" Diam. from +1 ft. to 135 ft. Gauge .250
" Diam. from ft. to ft. Gauge

LINER INSTALLED:
5 9/16" Diam. from 125 ft. to 170 ft. Gauge .188

(6) PERFORATIONS:
Perforated? ☒ Yes ☐ No
Type of perforator used Torch
Size of perforations 1/4 in. by 8 in.
12 perforations from 135 ft. to 170 ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot Size Set from ft. to ft.
Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☒ Yes ☐ No If yes, by whom? Driller
Yield: 30 gal/min. with 19 ft. drawdown after 2 hrs.
" "
Air test gal/min. with drill stem at ft. hrs.
Bailer test gal/min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Special standards: Yes ☐ No ☒
Well seal—Material used Cement
Well sealed from land surface to 19 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 20 sacks
How was cement grout placed? Pressure grouted from 19 ft. to land surface

Was pump installed? Yes Type Sub HP 1½ Depth 147 ft.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size; location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of Water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number 260
NE ¼ NE ¼ Section 30 T. 4S R. 2E
Tax Lot # Lot Blk Subdivision
Address at well location: 28270 S. Cramer Rd. Canby, Or. 97013

(11) WATER LEVEL: Completed well.
Depth at which water was first found 63
Static level 28 ft. below land surface. Date 11/
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6"
Depth drilled 170 ft. Depth of completed well 170
Formation: Describe color, texture, grain size and structure of materials; and thickness and nature of each stratum and aquifer penetrated, with at least one for each change of formation. Report each change in position of Static Water and indicate principal water-bearing strata.

MATERIAL	From	To	SW
Top soil	0	2	
Clay, brown	2	18	
Clay, blue	18	26	
Clay, sand, brown, fine	26	34	
Gravel, compact, med.	34	59	
Clay, brown	59	63	
*Gravel, compact, med.	63	127	
Clay, sand, blue, black, fr.	127	135	
*Sandstone, black, fract.	135	137	
Clay, blue	137	162	
*Sandstone, black, fract.	162	170	

Work started 11/8 19 84 Completed 11/17 19 84
Date well drilling machine moved off of well 11/17 19 8

(unbonded) Water Well Constructor Certification (if applicable):
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Date , 19

Bonded Water Well Constructor Certification:
Bond (number) EX490686 Issued by: American States (Surety Company Name)
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name B & G Drilling (Person, firm or corporation) (Type or print)
Address 19030 S. Hackberry Rd. Canby, Or.
[Signed] George L. Wainwright (Water Well Constructor)
Date 11/20, 19 84

NOTICE TO WATER WELL CONSTRUCTOR
The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

Valley Growers Nursery
Initial Review Determinations

M. Kupillas, CWR

Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department
Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130
www.wrd.state.or.us

November 8, 2002

VALLEY GROWERS NURSERY AND LANDSCAPE INC
PO BOX 610
HUBBARD, OREGON 97032

Reference: File G-15687

Dear Applicant:

THIS IS NOT A PERMIT AND IS SUBJECT TO CHANGE AT THE NEXT PHASE OF PROCESSING.

This letter is to inform you of the preliminary analysis of your water use permit application and to describe your options. In determining whether a water use permit application may be approved, the Department must consider the factors listed below, all of which must be favorable to the proposed use if it is to be allowed. Based on the information you have supplied, the Water Resources Department has made the following preliminary determinations:

Initial Review Determinations:

1. The proposed use is not prohibited by law or rule.

2. The use of water from A WELL IN ROCK CREEK BASIN for NURSERY USE ON 19.55 ACRES **is allowable** under OAR 690-502-160(2), the Willamette Basin Program.

3. The Department has determined, based upon OAR 690-09, that the proposed groundwater use will not have the potential for substantial interference with the nearest surface water source.

4. The Department has also determined, based upon available data, that the use of groundwater, if properly conditioned, will not injure existing rights or the groundwater resource.

5. Prior to permit issuance, the well must be repaired **to meet minimum well construction standards.** The Department has determined from available information that the well construction does not meet minimum well construction standards and results in commingling of more than one groundwater reservoir. Please refer to the **ADDITIONAL INFORMATION REQUIRED** section below for details.

Summary of Allowable Water Use

Because item #5 above is limiting, use of 0.38 CUBIC FEET PER SECOND, A WELL IN ROCK CREEK BASIN for NURSERY USE ON 19.55 ACRES is allowable year round, however it appears unlikely that you will be issued a permit until the well is repaired to meet minimum well construction standards. At this time, you must decide whether to proceed or to withdraw your application as described below.

Additional Information Required:

Because the Department has determined that the well (CLACK 02356) allows commingling of water from more than one groundwater reservoir, **a permit cannot be issued until the well has been properly constructed per current well construction standards.**

Based on review of the well log, the Department has determined commingling of aquifers. The applicant would need to choose one aquifer and seal off the other. For questions or assistance dealing with the Department's determination of the well's compliance with the current minimum well construction standards, you may contact Tracy Eichenlaub of the Department's Enforcement Section at (503) 378-8455, extension 283.

The Department will not proceed with a positive Proposed Final Order and will not issue a permit approving the proposed use, as requested under this Application #G-15687, until notice that the required construction has been completed.

Please submit this information no later than **Thursday, December 26, 2002.** If you are unable to submit the above listed information, you may request a "time out from processing" for up to an additional 180 days. You must submit the request in writing, stating how much more time you will need and why you need additional time. If a time out is granted, your application will not be processed further until the requested information is received or the extended deadline has passed.

If we do not receive the items requested above by this date, or you do not request a "Time Out from Processing," we may reject your application consistent with ORS 537.153. If your application is rejected, any fees submitted in excess of the examination fee will be refunded; however, the examination fee is non-refundable and will not be returned. In addition, the priority date associated with your application will be lost.

From: "Greg Kupillas" <phggek@bctonline.com>
To: "OWRD WRIG" <customerservice@wrd.state.or.us>
Subject: File Review

-->

Greetings WRIG,

I will be in the Department Thursday, January 27, and would like to review the file for Application G-15567.

Thanks,

Greg Kupillas

Pacific Hydro-Geology Inc.

18477 S. Valley Vista Rd.

Mulino, OR 97042

503.632.5016

Memo

Oregon Water Resources Department
Water Rights Section

To: Greg Nelson January 6, 2005

From: Dwight French, Water Rights Section Manager DF

RE: voluntary cancellation of certificate 20401.

You reviewed an affidavit that was submitted a couple/few months ago and determined that Joel Neuschwander no longer owned all of the property and that some of the property was owned by Leo Gentry. Both have submitted affidavits that I believe correctly request cancellation of this certificate.

I would appreciate it if you would review the affidavits and, if appropriate, prepare an order for cancellation. I'm not in a hurry, but sometime over the next couple months would be great. Thanks.

Memo

Oregon Water Resources Department
Water Rights Section

To: Greg Nelson January 6, 2005

From: Dwight French, Water Rights Section Manager DWF

RE: voluntary cancellation of certificate 20401.

You reviewed an affidavit that was submitted a couple/few months ago and determined that Joel Neuschwander no longer owned all of the property and that some of the property was owned by Leo Gentry. Both have submitted affidavits that I believe correctly request cancellation of this certificate.

I would appreciate it if you would review the affidavits and, if appropriate, prepare an order for cancellation. I'm not in a hurry, but sometime over the next couple months would be great. Thanks.

AFFIDAVIT FOR THE PARTIAL CANCELLATION OF A WATER RIGHT CERTIFICATE

State of Oregon)
) ss
County of Clackamas)

We, Joel and Carolyn Neuschwander, residing at 6097 S.Whiskey Hill Rd., Hubbard, OR, telephone 503 651-3253 being first duly sworn depose and say:

1. We are the legal owner(s) of the property described as tax lot numbers 900, 902, 903, and 904, within the SW¼ NE¼, and SE¼ NE¼, Section 32, Township 4 South, Range 1 East, of the Willamette Meridian, in Clackamas County, Oregon, as shown on the attached map and described in the attached deed and legal description and made part of this affidavit;

2. A portion of water right certificate number 20401 issued to I. R. Hanson, with a date of priority of March 4, 1946, for use of 1.07 cubic feet per second of water; being 0.65 cfs from Bear Creek and 0.42 cfs from an unnamed stream, both tributary to the Pudding River, for the purpose of irrigation is appurtenant to our property;

3. The appurtenant water right is not located within the boundaries of an irrigation district (*if the right is located within a district, name it here:* _____).

4. We have abandoned any and all interest in the portion of this water right shown on the attached map and described as follows:
   The right to the use of 0.64 cubic foot per second from Bear Creek for irrigation of 50.91 acres located:

   Lot 3 SW¼ NE¼ 26.20 Acres
   Lot 4 SE¼ NE¼ 24.71 Acres
   Section 32
   Township 4 South, Range 1 East, WM; and

5. We request the portion of the water right described above be canceled.

A. Joel Neuschwander — 6-22-04
Signature of legal owner as listed on deed, or authorized agent — Date

Carolyn R Neuschwander — 6-22-04
Signature of legal co-owner as listed on deed (if applicable) — Date

Subscribed and Sworn to Before Me this 22 day of June, 2004.

OFFICIAL SEAL
PATRICK W. O'NEAL
NOTARY PUBLIC - OREGON
COMMISSION NO. 368909
MY COMMISSION EXPIRES MAY 21, 2007

Patrick W. O'Neal
Notary Public for Oregon

My Commission Expires 5/21/07

PLEASE ATTACH A LEGIBLE COPY OF : 1) A DEED WHICH LISTS LAND OWNERS AND INCLUDES A LEGAL DESCRIPTION OF AFFECTED LANDS, AND 2) AN ADJUDICATION MAP, WATER RIGHT FINAL PROOF MAP, OR A TAX LOT MAP WITH THE PORTION OF THE ABANDONED RIGHT CLEARLY DRAWN AND IDENTIFIED. IF ACTING AS AN AUTHORIZED AGENT, INCLUDE COPY OF POWER OF ATTORNEY OR OTHER DOCUMENTS GRANTING AUTHORITY TO ACT ON BEHALF OF LEGAL OWNER(S).

January 2003

RECEIVED
NOV 30 2004
RCES DEPT
REGON

AFFIDAVIT FOR THE PARTIAL CANCELLATION OF A WATER RIGHT CERTIFICATE

State of Oregon Multnomah)
) ss
County of CLACKAMAS)

I/We (or authorized agent), LEO GENTRY,
residing at 24160 SE HIGHWAY 212 / BORING, OR 97009,
telephone (503) 658-5799, being first duly sworn depose and say:

1. I/We are the legal owner(s) of the property described as tax lot number 905, within the SE¼ NW¼ NE¼ SW¼ and , Section 32, Township 4 South, Range 1 East, of the Willamette Meridian, in Clackamas County, Oregon, as shown on the attached map and described in the attached deed and legal description and made part of this affidavit;

2. A portion of water right certificate number 20401 issued to I. R. Hanson, with a date of priority of March 4, 1946, for use of 1.07 cubic feet per second of water; being 0.65 cfs from Bear Creek and 0.42 cfs from an unnamed stream, both tributary to the Pudding River, for the purpose of irrigation is appurtenant to my/our property;

3. The appurtenant water right is/is not located within the boundaries of an irrigation district (*if the right is located within a district, name it here:* _____).

4. I/We have abandoned any and all interest in the portion of this water right shown on the attached map and described as follows:
The right to the use of 0.42 cubic foot per second from an unnamed stream for irrigation of 37.20 acres located:
LOT 2 SE¼ NW¼ 14.20 Acres
NE¼ SW¼ 23.00 Acres
Section 32
Township 4 S, Range 1 E, WM; and

5. I/We request the portion of the water right described above be canceled.

Leo E Gentry
Signature of legal owner as listed on deed, or authorized agent

November 19, 2004
Date

Signature of legal co-owner as listed on deed
(if applicable)

Date

Subscribed and Sworn to Before Me this 19 day of November, 2004.

Deborah Greene
Notary Public for Oregon

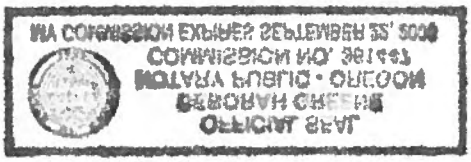
My Commission Expires Sept 22, 2006

PLEASE ATTACH A LEGIBLE COPY OF : 1) A DEED WHICH LISTS LAND OWNERS AND INCLUDES A LEGAL DESCRIPTION OF AFFECTED LANDS, AND 2) AN ADJUDICATION MAP, WATER RIGHT FINAL PROOF MAP, OR A TAX LOT MAP WITH THE PORTION OF THE ABANDONED RIGHT CLEARLY DRAWN AND IDENTIFIED. IF ACTING AS AN AUTHORIZED AGENT, INCLUDE COPY OF POWER OF ATTORNEY OR OTHER DOCUMENTS GRANTING AUTHORITY TO ACT ON BEHALF OF LEGAL OWNER(S).

January 2003

RECEIVED
NOV 30 2004
WATER RESOURCES DEPT
SALEM, OREGON

OFFICIAL SEAL
DEBORAH GREENE
NOTARY PUBLIC - OREGON
COMMISSION NO. 361447
MY COMMISSION EXPIRES SEPTEMBER 22, 2006


DEBORAH GREENE
NOTARY PUBLIC - OREGON
COMMISSION NO. 381143
MY COMMISSION EXPIRES SEPTEMBER 25, 2006

AFFIDAVIT FOR THE PARTIAL CANCELLATION OF A WATER RIGHT CERTIFICATE

State of Oregon multnomah)
) ss
County of CLACKAMAS)

I/We (or authorized agent), LEO GENTRY,
residing at 24160 SE HIGHWAY 212 / BORING, OR 97009,
telephone (503) 658-5799, being first duly sworn depose and say:

1. I/We are the legal owner(s) of the property described as tax lot number 905, within the SE¼ NW¼ NE¼ SW¼ and , Section 32, Township 4 South, Range 1 East, of the Willamette Meridian, in Clackamas County, Oregon, as shown on the attached map and described in the attached deed and legal description and made part of this affidavit;

2. A portion of water right certificate number 20401 issued to I. R. Hanson, with a date of priority of March 4, 1946, for use of 1.07 cubic feet per second of water; being 0.65 cfs from Bear Creek and 0.42 cfs from an unnamed stream, both tributary to the Pudding River, for the purpose of irrigation is appurtenant to my/our property;

3. The appurtenant water right is/is not located within the boundaries of an irrigation district (*if the right is located within a district, name it here:* _____).

4. I/We have abandoned any and all interest in the portion of this water right shown on the attached map and described as follows:
   The right to the use of 0.42 cubic foot per second from an unnamed stream for irrigation of 37.20 acres located:
   LOT 2 SE¼ NW¼ 14.20 Acres
   NE¼ SW¼ 23.00 Acres
   Section 32
   Township 4 S, Range 1 E, WM; and

5. I/We request the portion of the water right described above be canceled.

Leo E Gentry
Signature of legal owner as listed on deed, or authorized agent

November 19, 2004
Date

_____
Signature of legal co-owner as listed on deed
(if applicable)

_____
Date

Subscribed and Sworn to Before Me this 19 day of November, 2004.

Deborah Greene
Notary Public for Oregon

My Commission Expires Sept 22, 2006

PLEASE ATTACH A LEGIBLE COPY OF : 1) A DEED WHICH LISTS LAND OWNERS AND INCLUDES A LEGAL DESCRIPTION OF AFFECTED LANDS, AND 2) AN ADJUDICATION MAP, WATER RIGHT FINAL PROOF MAP, OR A TAX LOT MAP WITH THE PORTION OF THE ABANDONED RIGHT CLEARLY DRAWN AND IDENTIFIED. IF ACTING AS AN AUTHORIZED AGENT, INCLUDE COPY OF POWER OF ATTORNEY OR OTHER DOCUMENTS GRANTING AUTHORITY TO ACT ON BEHALF OF LEGAL OWNER(S).

January 2003

RECEIVED
NOV 30 2004
WATER RESOURCES DEPT
SALEM, OREGON

OFFICIAL SEAL
DEBORAH GREENE
NOTARY PUBLIC - OREGON
COMMISSION NO. 361447
MY COMMISSION EXPIRES SEPTEMBER 22, 2006

AFFIDAVIT FOR THE PARTIAL CANCELLATION OF A WATER RIGHT CERTIFICATE

State of Oregon)
) ss
County of Clackamas)

We, Joel and Carolyn Neuschwander, residing at 6097 S.Whiskey Hill Rd., Hubbard, OR, telephone 503 651-3253 being first duly sworn depose and say:

1. We are the legal owner(s) of the property described as tax lot numbers 900, 902, 903, and 904, within the SW¼ NE¼, and SE¼ NE¼, Section 32, Township 4 South, Range 1 East, of the Willamette Meridian, in Clackamas County, Oregon, as shown on the attached map and described in the attached deed and legal description and made part of this affidavit;

2. A portion of water right certificate number 20401 issued to I. R. Hanson, with a date of priority of March 4, 1946, for use of 1.07 cubic feet per second of water; being 0.65 cfs from Bear Creek and 0.42 cfs from an unnamed stream, both tributary to the Pudding River, for the purpose of irrigation is appurtenant to our property;

3. The appurtenant water right is not located within the boundaries of an irrigation district (*if the right is located within a district, name it here:* _____).

4. We have abandoned any and all interest in the portion of this water right shown on the attached map and described as follows:
   The right to the use of 0.64 cubic foot per second from Bear Creek for irrigation of 50.91 acres located:

   Lot 3 SW¼ NE¼ 26.20 Acres
   Lot 4 SE¼ NE¼ 24.71 Acres
   Section 32
   Township 4 South, Range 1 East, WM; and

5. We request the portion of the water right described above be canceled.

C. Joel Neuschwander — 6-22-04
Signature of legal owner as listed on deed, or authorized agent — Date

Carolyn R Neuschwander — 6-22-04
Signature of legal co-owner as listed on deed (if applicable) — Date

Subscribed and Sworn to Before Me this 22 day of June, 2004.

OFFICIAL SEAL
PATRICK W. O'NEAL
NOTARY PUBLIC - OREGON
COMMISSION NO. 368909
MY COMMISSION EXPIRES MAY 21, 2007

Patrick O'Neal
Notary Public for Oregon

My Commission Expires 5/21/07

PLEASE ATTACH A LEGIBLE COPY OF : 1) A DEED WHICH LISTS LAND OWNERS AND INCLUDES A LEGAL DESCRIPTION OF AFFECTED LANDS, AND 2) AN ADJUDICATION MAP, WATER RIGHT FINAL PROOF MAP, OR A TAX LOT MAP WITH THE PORTION OF THE ABANDONED RIGHT CLEARLY DRAWN AND IDENTIFIED. IF ACTING AS AN AUTHORIZED AGENT, INCLUDE COPY OF POWER OF ATTORNEY OR OTHER DOCUMENTS GRANTING AUTHORITY TO ACT ON BEHALF OF LEGAL OWNER(S).

January 2003

RECEIVED
NOV 30 2004
RCES DEPT
OREGON

DRAFT

BEFORE THE WATER RESOURCES DIRECTOR OF OREGON

CLACKAMAS COUNTY

IN THE MATTER OF CANCELLATION OF A PORTION OF A PERFECTED AND DEVELOPED WATER RIGHT IN THE NAME OF I. R. HANSON	))))	FINAL O R D E R

ORS 540.621 directs the Commission to enter an order canceling a water right whenever the owner of a perfected and developed water right certifies under oath to the Commission that the water right has been abandoned and the owner desires to cancel the right.

FINDINGS OF FACTS

1. On MONTH, DAY, 2004, the Department received an affidavit from Joel and Carolyn Neuschwander, ADDRESS, Oregon, stating they are the owners of land and the water right appurtenant as evidenced by Certificate 20401, State Record of Water Right Certificates. The affidavit further states a portion of the water right appurtenant to the property has been abandoned and requests the certificate be canceled.

2. Pursuant to OAR 690-017-002(a), the Department has determined that Joel and Carolyn Neuschwander are the record owners, as established by county deed records, of property to which a portion of the water right evidenced by Certificate 20401 is appurtenant.

They do own TL 905 1000

3. Certificate 20401 allows for the use of 1.07 cubic feet per second (cfs) of water; being 0.65 cfs from Bear Creek and 0.42 cfs from an unnamed stream, both tributary tributary to the Pudding River, for irrigation of 89.0 acres. The date of priority is March 4, 1946.

4. The portion of Certificate 20401 which has been abandoned is for the use of 0.64 cfs from Bear Creek for irrigation of 50.91 acres located as follows:

TWP		RNG		MER	SEC	1/4	1/4	DLC	LOT	ACRES
4	S	1	E	W.M.	32	SW	NE		3	26.20
4	S	1	E	W.M.	32	SE	NE		4	24.71

- 0.89 TL 1000 CLINT & AMY PERKETT

- 37.2 AC TL 905 LEO GENTRY

NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW

This is an order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2).

Pursuant to ORS 536.075 and OAR 137-004-080 and OAR 690-01-005 you may either petition for judicial review or petition the Director for reconsideration of this order.

DRAFT

CONCLUSIONS OF LAW

The Director of the Water Resources Department concludes that a portion of the right evidenced by Water Right Certificate 42311 has been abandoned in accordance with the provisions of ORS 540.621 and shall be canceled.

ORDER

IT IS ORDERED:

I'M NOT ENTIRELY SURE WHAT PROCESS IS => RE: PERMIT

1. This order is effective upon final resolution of any petition for reconsideration or petition for judicial review of an order authorizing issuance of Permit _____.

2. Certificate 20401 is canceled.

3. The Department shall issue Certificate 81136, a new and superseding certificate, to describe the remaining portion of the perfected and developed water right NOT canceled by the provisions of this order.

AC

→ RR TO PERLETT TL 1000 0.89

GENTRY TL 905 37.20

Dated _____.

_____

Phillip C. Ward, Acting Director

STATE OF OREGON

COUNTY OF CLACKAMAS

CERTIFICATE OF WATER RIGHT

This Is To Certify, *That* I. R. HANSON

of Route 2, Box 340, Canby, *State of* Oregon, *has made proof to the satisfaction of the STATE ENGINEER of Oregon, of a right to the use of the waters of* Bear Creek and an unnamed tributary of Bear Creek, *a tributary of* Pudding River *for the purpose of* irrigation *under Permit No.* 16827 *of the State Engineer, and that said right to the use of said waters has been perfected in accordance with the laws of Oregon; that the priority of the right hereby confirmed dates from* March 4, 1946;

that the amount of water to which such right is entitled and hereby confirmed, for the purposes aforesaid, is limited to an amount actually beneficially used for said purposes, and shall not exceed 1.07 cubic foot per second, being 0.65 c.f.s. from Bear Creek and 0.42 c.f.s. from the unnamed stream,

or its equivalent in case of rotation, measured at the point of diversion from the stream. The point of diversion is located From unnamed tributary: in Lot 2 (SE¼ NW¼); From Bear Creek: in Lot 4 (SE¼ NE¼), all being within Section 32, Township 4 South, Range 1 East, W. M.

The amount of water used for irrigation, together with the amount secured under any other right existing for the same lands, shall be limited to one-eightieth *of one cubic foot per second per acre,* or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed 2½ acre feet per acre for each acre irrigated during the irrigation season of each year,

and shall conform to such reasonable rotation system as may be ordered by the proper state officer.

A description of the place of use under the right hereby confirmed, and to which such right is appurtenant, is as follows:

From Bear Creek:
26.2 acres in Lot 3 (SW¼ NE¼)
25.6 acres in Lot 4 (SE¼ NE¼)
Section 32
Township 4 South, Range 1 East, W. M.

From Unnamed Tributary:
14.2 acres in Lot 2 (SE¼ NW¼)
23.0 acres in the NE¼ SW¼
Section 32
Township 4 South, Range 1 East, W. M.

Land on which water is to be used is a part of that more explicitly described by appropriator as follows:

Beginning 237 rods North of the Southeast corner of the Southwest quarter of Section 32, T. 4 S. R. 1 E. of the W.M. running thence West 10.00 rods; thence South 70.00 rods; thence East 10.00 rods; thence North 70.00 rods to the place of beginning. ALSO, beginning at a point 25.00 chains North and 25.00 chains East of the Southwest corner of said Section 32; thence running East 12.50 chains; thence North 32.00 chains; thence West 12.50 chains and thence South 32.00 chains to the place of beginning. ALSO, Lots Three (3) and Four (4) of said Section 32, T. 4 S. R. 1 E. of the W.M., EXCEPT the rights of the public in and to public roads, and EXCEPT the following: Beginning at the Northwest corner of the James Wilson land above described in Section 32, T. 4 S. R. 1 E. of the W.M., thence East 200 feet, more or less, to the East line of a tract of land conveyed to Carl E. Hilton by deed recorded in Book 124 at page 437 of Deed Records of Clackamas County, State of Oregon; thence South along the East line

of said Hilton tract of land, 100 feet, more or less to the Southeast corner thereof; thence West along the South line of said Hilton land 200 feet, more or less to the West line of said James Wilson land; thence North on the West line of said James Wilson land, 100 feet, more or less, to the place of beginning.

The right to the use of the water for the purposes aforesaid is restricted to the lands or place of use herein described.

WITNESS the signature of the State Engineer, affixed

this 30th *day of* April , 19 54 .

CHAS. L. STRICKLIN

State Engineer

Recorded in State Record of Water Right Certificates, Volume 15 *, page* 20401





~~(WATER RIGHT TRANSFER)~~

AFFIDAVIT ATTESTING TO THE USE OF WATER DURING THE PREVIOUS FIVE YEARS

State of Oregon)
) ss
County of CLACKAMAS)

I JOEL NEUSCHWANDER, CAROLYN NEUSCHWANDER, in my capacity as OWNER,
mailing address 6097 S. WHISKEY HILL RD. / HUBBARD, OR 97032,
telephone number (503)651-3253, being first duly sworn depose and say:

1. I attest that water was used during the previous five years on the entire authorized place of use of the water right subject to transfer, ~~as described by the accompanying transfer application.~~ My knowledge of the exercise of the water right is based on (check one):

   ☑ Personal observation

   ☑ Professional expertise

2. My knowledge is specific to the use of water at the following location(s):

   26.2ac SW ¼ NE ¼ 23ac NE ¼ SW ¼
   25.6ac SE ¼ NE ¼
   14.2ac SE ¼ NW ¼
   Section 32
   Township 4 ~~S~~ N Range 1 ~~E~~ W

3. The water right was exercised for the authorized purposes and is described as follows:

   IRRIGATION of NURSERY STOCK

4. The water delivery system used to apply water as authorized by the water right is described as follows:

   PORTABLE PUMP FROM BEAR CR & UN-NAMED TRIB. INTO PORTABLE MAINLINE, TO MAINLINE, INTO HANDLINES, THEN INTO 18" RISERS.

(continues on reverse side)

PLEASE PRINT LEGIBLY OR TYPE. PLEASE BE AS SPECIFIC AS POSSIBLE. ATTACH ADDITIONAL PAGES IF YOU NEED MORE SPACE. SUPPORTING DOCUMENTATION MUST BE ATTACHED.
June 2003

FROM : FAX NO. :502-524-5567 Oct. 28 2003 09:26AM P2
06/09/2004 08:50 5036513441 NEUSCHWANDER NURSERY PAGE 02

5. One or more of the following documentation supporting the above statements is attached:

- ☐ Copy of a water right certificate which has been issued within the last five years (not a remaining right certificate),
- ☐ Copies of receipts from sales of irrigated crops or for expenditures relating to use of water,
- ☐ Records such as Farm Service Agency crop reports, irrigation district records, an NRCS farm management plan, or records of other water suppliers,
- ☐ Dated aerial photographs of the lands or other photographs containing sufficient detail to establish the location and date of the photograph,
- ☐ Dedicated power usage records or receipts,
- ☐ If the right has not been used during the past five years, documentation that the presumption of forfeiture would be rebutted under ORS 540.610(2), or
- ☑ Other: CERTIFICATE, VOL. 15, PAGE 20401

Joel Neuschwander
Carolyn Neuschwander
Signature of Affiant

6/8/04
Date

Subscribed and Sworn to Before Me this 8 day of June, 2004.

OFFICIAL SEAL
PATRICK W. O'NEAL
NOTARY PUBLIC - OREGON
COMMISSION NO. 368509
MY COMMISSION EXPIRES MAY 21, 2007

Patrick W. O'Neal
Notary Public for Oregon

My Commission Expires 5/21/07

PLEASE PRINT LEGIBLY OR TYPE. PLEASE BE AS SPECIFIC AS POSSIBLE. ATTACH ADDITIONAL PAGES IF YOU NEED MORE SPACE. SUPPORTING DOCUMENTATION MUST BE ATTACHED.
June 2003

FROM : FAX NO. :502-524-5567 Oct. 28 2003 09:27AM P3
06/09/2004 08:50 5036513441 NEUSCHWANDER NURSERY PAGE 03

Mailing List for Permit Copies

Application# G-15567 Mailing List Print Date ~~April 1, 2003~~ 1/5/05

Original mailed to(when permit issued, include copy of permit map):

Applicant: DANIEL & DELORIS CHIN, 17817 CHEYNE RD, KLAMATH FALLS, OR 97603

JOEL NEUSCHWANER - see file jacket
LEO GENTRY - See address - file

Copies Mailed
By: _____
(SUPPORT STAFF)
on: 1/6/05
(DATE)

For Permit only - Permit Copies sent to (Remember to reduce copy margins):

1. WRD - File #G-~~15653~~ 15567
2. WRD - Ken Stahr
3. WRD - Data Center
4. WRD - Watermaster District #:1~~7~~ 6 Bill Fuller (w/copy of permit map)

COPIES TO Other Interested Persons

5. Scott Ashcom POBox 4323
6. Portland 97208
7. _____

Caseworker: ~~AMH~~ DWP

BEFORE THE OREGON WATER RESOURCES DEPARTMENT

In the Matter of Water Right Application G-15567 in the names of Joel Neuschwander & Leo Gentry, *Applicants*	))))	FINAL ORDER INCORPORATING SETTLEMENT AGREEMENT

Based on the attached Stipulated Agreement that is incorporated I find the proposed use will ensure the preservation of the public welfare, safety and health.

Therefore, it is ordered that Application G-15567 is approved the permit shall issue.

DATED this 5th day of January, 2005.

Phillip C. Ward, Acting Director
Oregon Water Resources Department

STATE OF OREGON

COUNTY OF CLACKAMAS

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

JOEL NEUSCHWANDER & LEO GENTRY
6097 S WHISKEY HILL RD
HUBBARD, OREGON 97032

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15567

SOURCE OF WATER: TWO WELLS IN BEAR CREEK BASIN

PURPOSE OR USE: NURSERY USE OF 174.09 ACRES.

MAXIMUM RATE: 1.604 CUBIC FEET PER SECOND, BEING 1.114 CFS FROM WELL 1 AND 0.490 CFS FROM WELL 2

PERIOD OF USE: YEAR-ROUND

DATE OF PRIORITY: July 25, 2001

WELL LOCATIONS:

Well 1: SENE, SECTION 32, T 4S, R1E, W.M.;
550 FEET NORTH & 1250 FEET WEST FROM E1/4 CORNER, SECTION 32

Well 2: SENW, SECTION 32, T 4S, R1E, W.M.;
50 FEET NORTH & 50 FEET WEST FROM C1/4 CORNER, SECTION 32

The amount of water used for nursery use is limited to a maximum of 5.0 acre feet per acre and a diversion of 0.15 cubic foot per second per acre. For irrigation of containerized nursery plants, the amount of water diverted is limited to one fortieth of one cubic foot per second and 5.0 acre feet per acre per year. For irrigation of in-ground nursery plants the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre per year. The use of water for nursery use may be made at any time, during the period of allowed use specified above, that the use is beneficial. For irrigation of any other crop, the amount of water diverted is limited to one eightieth of one cubic foot per second and 2.5 acre feet per acre during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SW ¼ NE ¼	37.8 ACRES
SE ¼ NE ¼	25.6 ACRES
SE ¼ NW ¼	40.0 ACRES
NE ¼ SW ¼	23.0 ACRES
NW ¼ SE ¼	23.84 ACRES
SW ¼ SE ¼	23.85 ACRES

SECTION 32
TOWNSHIP 4 SOUTH, RANGE 1 EAST, W.M.

Measurement, recording and reporting conditions:

A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

STANDARD CONDITIONS

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water

level or pump test results every ten years thereafter.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Complete application of the water to the use shall be made on or before October 1, 2008. If the water is not completely applied before this date, and the permittee wishes to continue development under the permit, the permittee must submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE).

Issued January 5th, 2005

Phillip C. Ward, Acting Director
Water Resources Department

1997
2000

900 Neuschwanders Clackamas County –

902

903

904

905 Lea Gentry (38.38) } Neuschwanders don't own

1000 Clint & Amy Perkett (0.39) }

1100 Alaina B. Marsh

1400 Dean L Millers & Martha Sommers

1200 Alice & Scott Gabacho

1401 Carolyn Neuschwander

Cancel order =

clause

re: not in effect until resolution of any petition for reconsideration or judicial review of permit or similar

Oregon Water Resources Department • 725 Summer ST NE, Suite A • Salem, OR 97301 • Phone: 503-986-0900 • Fax: 503-986-0903

STATE OF OREGON

COUNTY OF CLACKAMAS

CERTIFICATE OF WATER RIGHT

This Is To Certify, That I. R. HANSON

of Route 2, Box 340, Canby, State of Oregon, has made proof to the satisfaction of the STATE ENGINEER of Oregon, of a right to the use of the waters of Bear Creek and an unnamed tributary of Bear Creek, a tributary of Pudding River for the purpose of irrigation under Permit No. 16827 of the State Engineer, and that said right to the use of said waters has been perfected in accordance with the laws of Oregon; that the priority of the right hereby confirmed dates from March 4, 1946;

that the amount of water to which such right is entitled and hereby confirmed, for the purposes aforesaid, is limited to an amount actually beneficially used for said purposes, and shall not exceed 1.07 cubic foot per second, being 0.65 c.f.s. from Bear Creek and 0.42 c.f.s. from the unnamed stream,

or its equivalent in case of rotation, measured at the point of diversion from the stream. The point of diversion is located ~~xxxxx~~ From unnamed tributary: in Lot 2 ($SE\frac{1}{4}$ $NW\frac{1}{4}$); From Bear Creek: in Lot 4 ($SE\frac{1}{4}$ $NE\frac{1}{4}$), all being within Section 32, Township 4 South, Range 1 East, W. M.

The amount of water used for irrigation, together with the amount secured under any other right existing for the same lands, shall be limited to one-eightieth of one cubic foot per second per acre, or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed 2½ acre feet per acre for each acre irrigated during the irrigation season of each year,

and shall conform to such reasonable rotation system as may be ordered by the proper state officer.

A description of the place of use under the right hereby confirmed, and to which such right is appurtenant, is as follows:

From Bear Creek:
26.2 acres in Lot 3 ($SW\frac{1}{4}$ $NE\frac{1}{4}$)
25.6 acres in Lot 4 ($SE\frac{1}{4}$ $NE\frac{1}{4}$)
Section 32
Township 4 South, Range 1 East, W. M.

From Unnamed Tributary:
14.2 acres in Lot 2 ($SE\frac{1}{4}$ $NW\frac{1}{4}$)
23.0 acres in the $NE\frac{1}{4}$ $SW\frac{1}{4}$
Section 32
Township 4 South, Range 1 East, W. M.

Land on which water is to be used is a part of that more explicitly described by appropriator as follows:

Beginning 237 rods North of the Southeast corner of the Southwest quarter of Section 32, T. 4 S. R. 1 E. of the W.M. running thence West 10.00 rods; thence South 70.00 rods; thence East 10.00 rods; thence North 70.00 rods to the place of beginning. ALSO, beginning at a point 25.00 chains North and 25.00 chains East of the Southwest corner of said Section 32; thence running East 12.50 chains; thence North 32.00 chains; thence West 12.50 chains and thence South 32.00 chains to the place of beginning. ALSO, Lots Three (3) and Four (4) of said Section 32, T. 4 S. R. 1 E. of the W.M., EXCEPT the rights of the public in and to public roads, and EXCEPT the following: Beginning at the Northwest corner of the James Wilson land above described in Section 32, T. 4 S. R. 1 E. of the W.M., thence East 200 feet, more or less, to the East line of a tract of land conveyed to Carl E. Hilton by deed recorded in Book 124 at page 437 of Deed Records of Clackamas County, State of Oregon; thence South along the East line

0.0125482 × 50.91 = 0.64

51.8 − 0.89 Perkett = 50.91 TL 1600

0.0112903

1.4 less than map

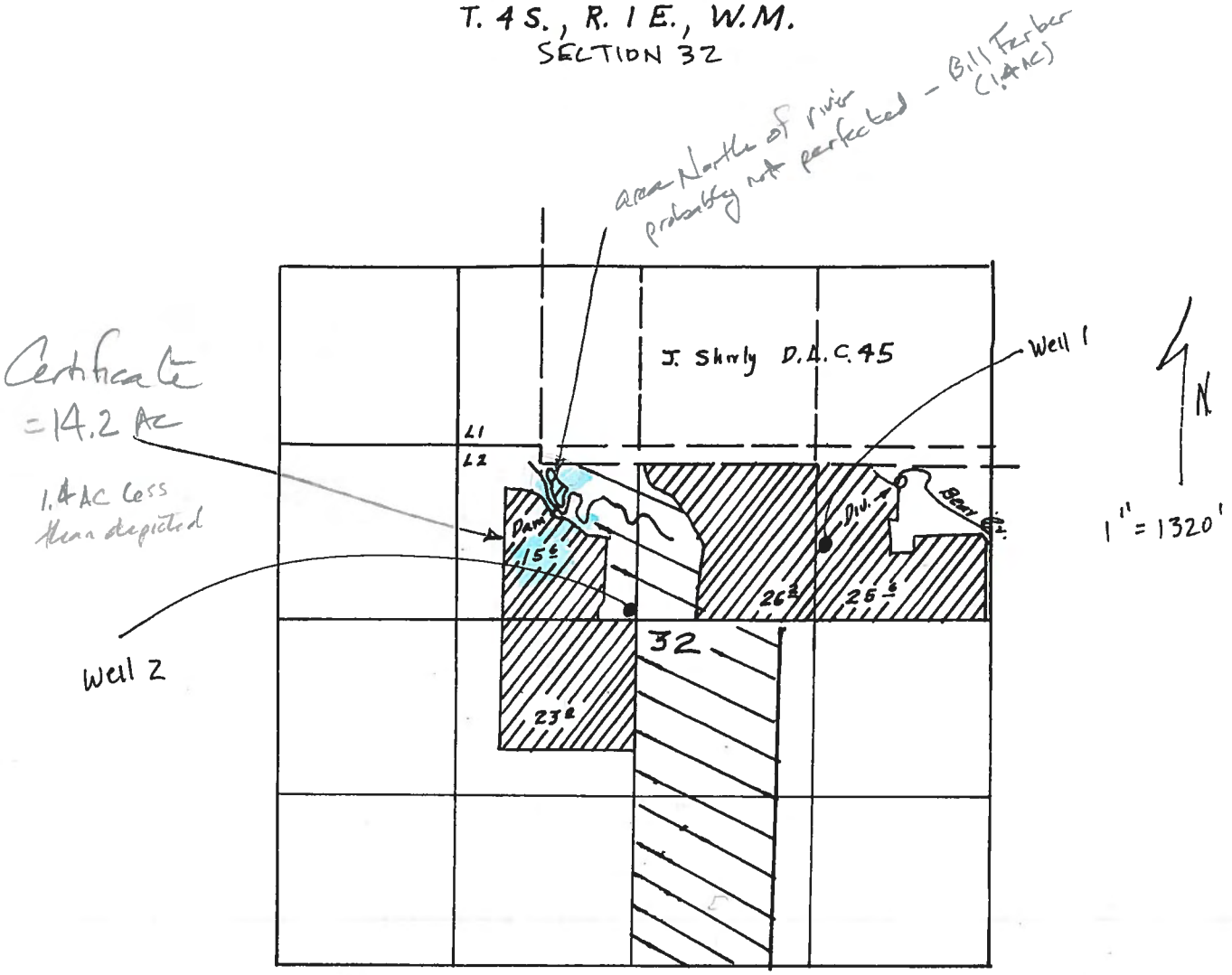
37.2 − 37.2 Gentry TL 905

[redacted] Certificate 20431

JOEL NEUSCHWANDER

G-15567 FILED 7/25/01

T. 4 S., R. 1 E., W.M.
SECTION 32



WIDE BLUE LINES: (New) acreage under application G-15567. 85.09 Acres

Thin BLACK LINES: Acreage under Certificate 20401 89 Acres

FINAL PROOF SURVEY

UNDER

App. No 21449 Permit No. 16827

IN NAME OF

I. R. Hanson

Surveyed July 8 1963 by H. L. Coffman

DFK-30-22

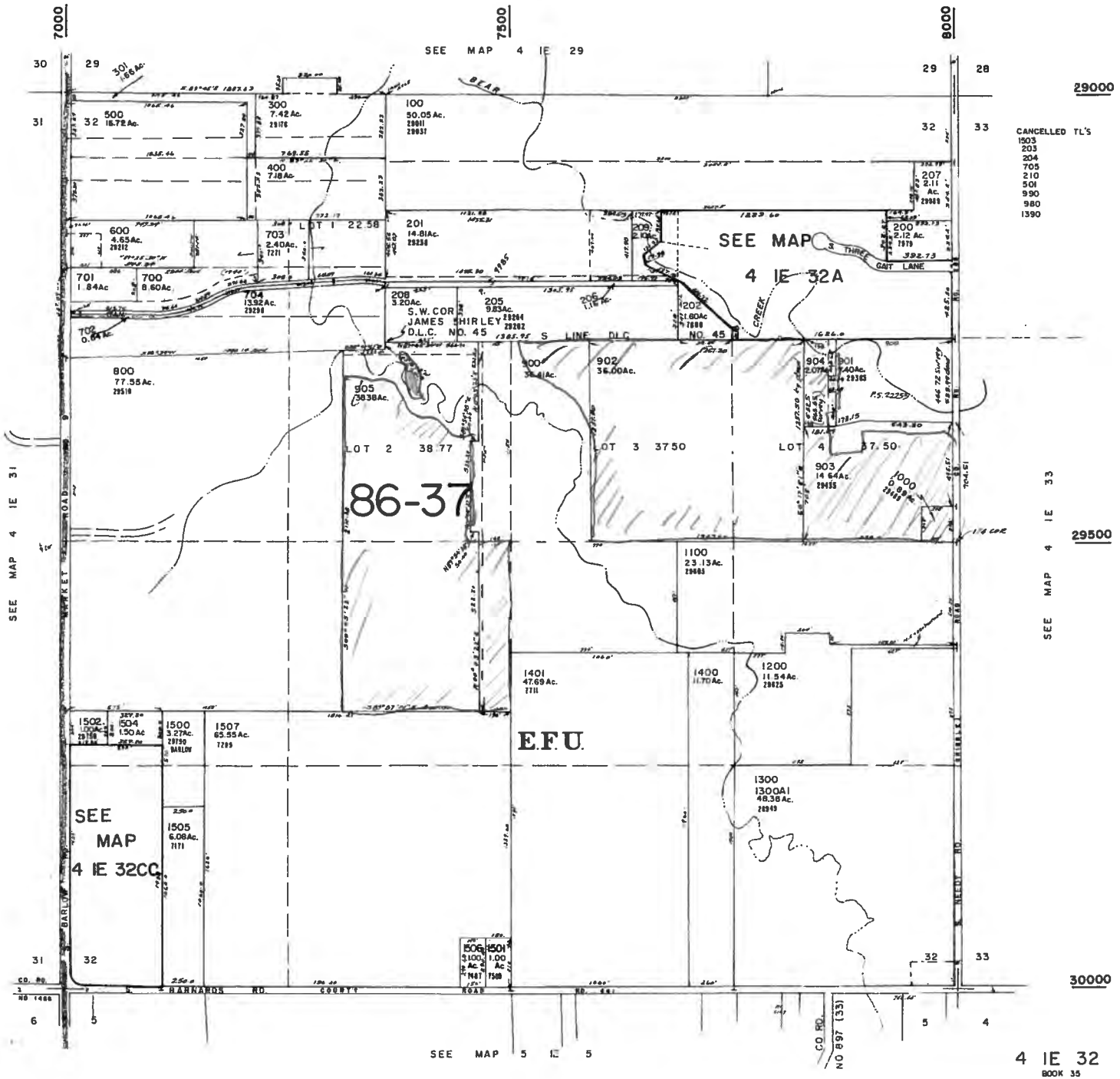
copied by

This map was prepared for assessment purpose only

SECTION 32 T.4S. R.1E. W.M.
CLACKAMAS COUNTY
1"=400'

D.L.C.
JAMES SHIRLEY NO. 45

4 1E 32



4 1E 32
BOOK 35

EXHIBIT A

41E32 00900

PARCEL I:

BEGINNING 237 rods North of the Southeast corner of the Southwest one-quarter of Section 32, Township 4 South, Range 1 East of the Willamette Meridian; running thence West 10.00 rods; thence South 70.00 rods; thence East 10.00 rods; thence North 70.00 rods to the place of beginning.

ALSO, beginning at a point 25.00 chains North and 25.00 chains East of the Southwest corner of said Section 32; thence running East 12.50 chains; thence North 32.00 chains; thence West 12.50 chains and thence South 32.00 chains to the place of beginning.

ALSO, Lots 3 and 4, of said Section 32, Township 4 South, Range 1 East of the Willamette Meridian.

EXCEPT the following:

BEGINNING at the Northwest corner of the James Wilson land above described in Section 32, Township 4 South, Range 1 East of the Willamette Meridian; thence East 200 feet, more or less, to the East line of a tract of land conveyed to Carl E. Hilton in Book 124, Page 437, Clackamas County Deed Records; thence South along the East line of said Hilton land, 100 feet, more or less, to the Southeast corner thereof; thence West along the South line of said Hilton land 200 feet, more or less, to the West line of said James Wilson land; thence North on West line of said James Wilson land, 100 feet, more or less, to the place of beginning.

EXCEPTING THEREFROM a tract of land in the Northeast one-quarter of Section 32, Township 4 South, Range 1 East of the Willamette Meridian, described as follows:

BEGINNING at a point on the South line of that tract conveyed to Ivan R. Hanson and wife, by Deed Recorded June 1, 1945, in Book 345, Page 65, Clackamas County Deed Records, which is 208 feet West of the East one-quarter corner of said Section 32; thence continuing West along said South line 1959.20 feet to a point; thence North parallel with the East line of said Section 32, a distance of 1237.50 feet to a point on the North line of said Hanson Tract; thence East along said North line 2167.20 feet to the East line of said Section 32; thence South along said East line 1029.50 feet to the Northeast corner of that tract conveyed to Joseph C. Dula and wife, by Deed Recorded January 18, 1973, Recorder's Fee No. 73-1774, Clackamas County Records; thence West along the North line of said Dula Tract 208 feet to the Northwest corner thereof; thence South 208 feet along the West line of said Dula Tract to the place of beginning.

EXCEPT that portion lying within public roads.

PARCEL II:

RECEIVED
JUL 25 2001
WATER RESOURCES DEPT
SALEM, OR

Application No. S15367
Permit No.

4 1E32 00980

That part of Section 32, Township 4 South, Range 1 East of the Willamette Meridian, in Clackamas County, Oregon, described as follows:

BEGINNING at a point that is 160 rods East and 160 rods North and 10 rods West and 60 rods South of the Southwest corner of said Section; thence East 10 rods; thence North to the South line of that certain tract conveyed to Ivan R. Hanson, et ux, by Deed Recorded June 1, 1945 in Book 345, Page 65, Clackamas County Deed Records; thence West along the South line of said Hanson Tract 10 rods to a re-entrant corner of said Hanson Tract; thence South along an East line of said Hanson Tract to the place of beginning.

PARCEL III:

4 1E32 00990

Part of the Southeast one-quarter of Section 32, Township 4 South, Range 1 East of the Willamette Meridian, in Clackamas County, Oregon, described as follows:

BEGINNING at the Northwest corner of that certain tract conveyed to Solon Kinzer, et ux, by Deed Recorded November 23, 1946, in Book 379, Page 201, Clackamas County Deed Records, said point being the center of said Section 32 and also the Southwest corner of Government Lot 3 of said Section; thence East along the South line of said Government Lot 3, 15 chains to a point 25 chains East of the East one-quarter corner of said Section; thence South 10 chains; thence West 15 chains to the one-quarter section line; thence North along said one-quarter section line 10 chains to the point of beginning.

PARCEL IV:

Application No. 69567

Permit No.

An Easement for ingress and egress described as follows:

The West 20.0 feet of a tract of land described as:

A tract of land being a part of the Southeast one-quarter of Section 32, Township 4 South, Range 1 East of the Willamette Meridian, in Clackamas County, Oregon, described as follows:

BEGINNING at a point on the North and South centerline of said Section 32, which is South 660 feet from the center of said Section 32, said point also being the Southwest corner of that tract of land conveyed to Ivan R. Hanson, et ux, by Deed recorded September 14, 1951 in Deed Book 448, Page 511, Clackamas County Deed Records; thence continuing South along the centerline of said Section 32, 1980 feet to the South line of said Section 32; thence East along the South line of Section 32, 1320 feet to the Southwest corner of the Southeast one-quarter of the Southeast one-quarter of said Section 32; thence North along the West line of the East one-half of the Southeast one-quarter of said Section 32, 1980 feet to the South line of that tract of land conveyed to Glenn E. Ruud, et ux, by Deed Recorded August 17, 1950 in Deed Book 435, Page 81, Clackamas County Deed Records; thence West along the South line of the said Ruud Tract and the South line of the said Hanson Tract 1320 feet to the point of beginning.

RECEIVED
JUL 25 2001
WATER RESOURCES DEPT
SALEM, OR

94-0R773

20 f 20

WARRANTY DEED

A. JOEL NEUSCHWANDER and CAROLYN R. NEUSCHWANDER, husband and wife, Grantors, convey to A. JOEL NEUSCHWANDER and CAROLYN R. NEUSCHWANDER Trustees, or their successors in trust, under the NEUSCHWANDER LIVING TRUST DATED January 14, 1994, and any amendments thereto, Grantee, the following described real property situated in the county of Clackamas, state of Oregon:

001

SEE EXHIBIT "A" ATTACHED HERETO

Grantors covenant that Grantors are seized of an indefeasible estate in the real property described above in fee simple, that Grantors have good right to convey the property, that the property is free from encumbrances except as specifically set forth herein, and that Grantors warrant and will defend the title to the property against all persons who may lawfully claim the same by, through, or under Grantors, provided that the foregoing covenants are limited to the extent of coverage available to Grantors under any applicable standard or extended policies of title insurance, it being the intention of the Grantors to preserve any existing title insurance coverage.

This deed is executed to partially fund a trust of Grantors, and the true and actual consideration stated in terms of dollars is NONE a WD

The following is the notice as required by Oregon law: "THIS INSTRUMENT WILL NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES AND TO

MAIL TAX STATEMENTS TO:

No Change

AFTER RECORDING RETURN TO:

A. Joel and Carolyn Neuschwander
6097 S. Whiskey Hill Road
Hubbard, OR 97032

Application No. 75587
Permit No. 30223

RECEIVED
JUL 25 2001
WATER RESOURCES DEPT
SALEM, OR

1M—12-49

Permit No. 16827

Application No. 21449

County CLACKAMAS

Proof of Appropriation of Water

1. Name I. R. Hanson 2. Address Rt. 2, Box 222, Canby, Oregon

3. Source of supply Bear Creek and an unnamed tributary of Bear Creek, being 0.65 ~~0.70~~ c.f.s. from Bear Creek and 0.42 c.f.s. from unnamed stream.
Tributary of Pudding River

4. Amount of water 1.07 ~~1.12~~ c.f.s. 5. Priority date March 4, 1946

6. Use irrigation

7. Location of point of diversion, From Unnamed Trib. Lot 2 ($SE\frac{1}{4}NW\frac{1}{4}$) & From Bear Creek Lot 4 ($SE\frac{1}{4}NE\frac{1}{4}$) Sec. 32, Twp. 4 S, Range 1 E, W. M.
(Legal Subdivision)

8. The description of land given below corresponds to that found in your permit covering land to be irrigated, or, if for other purposes, the place of use.

Township	Range	Section	Forty-acre Tract	No. Acres Described in Permit	No. Acres Actually Irrigated
			Irrigated from Bear Creek:		
4 S	1 E	32	Lot 3 ($SW\frac{1}{4}NE\frac{1}{4}$)	~~19~~	~~26.3~~ 26.2
			Lot 4 ($SE\frac{1}{4}NE\frac{1}{4}$)	37	~~25.6~~ 25.6
			Irrigated from Unnamed Tributary		
			Lot 2 ($SE\frac{1}{4}NW\frac{1}{4}$)	15	~~15.6~~ 14.2
			($NE\frac{1}{4}SW\frac{1}{4}$)	~~18~~	~~23.0~~ 23.0
				~~89~~	~~90.9~~ 89.0

Property on which water is to be used is a part of that more explicitly described by applicant as follows: Beginning 237 rods North of the Southeast corner of the Southwest quarter of Section 32, T. 4 S. R. 1 E. of the W. M. running thence West 10.00 rods; thence South 70.00 rods; thence East 10.00 rods; thence North 70.00 rods to the place of beginning. ALSO, beginning at a point 25.00 chains North and 25.00 chains East of the Southwest corner of said Section 32; thence running East 12.50 chains; thence North 32.00 chains; thence West 12.50 chains and thence South 32.00 chains to the place of beginning. ALSO, Lots Three (3) and Four (4) of said Section 32, T. 4 S. R. 1 E. of the W. M., EXCEPT the rights of the public in and to public roads, and EXCEPT the following: Beginning at the Northwest corner of the James Wilson land above described in Section 32, T. 4 S. R. 1 E. of the W. M., thence East 200 feet, more or less, to the East line of a tract of land conveyed to Carl E. Hilton by deed recorded in Book 124 at page 437 of Deed Records of Clackamas County, State of Oregon; thence South along the East line of said Hilton tract of land, 100 feet, more or less to the Southeast corner thereof; thence West along the South line of said Hilton land 200 feet, more or less to the West line of said James Wilson land; thence North on the West line of said James Wilson land, 100 feet, more or less, to the place of beginning.

(CONTINUED ON ATTACHED SHEET)

(Attach separate sheet if necessary)

Permit No. 16827

(Description cont'd.)
of Clackamas County, State of Oregon; thence South along the East line/of said Hilton tract of land, 100 feet, more or less to the Southeast corner thereof; thence West along the South line of said Hilton land 200 feet, more or less to the West line of said James Wilson land; thence North on the West line of said James Wilson land, 100 feet, more or less, to the place of beginning.

T. 4 S., R. 1 E., W.M.



FINAL PROOF SURVEY

UNDER

Application No. 21449 Permit No. 16827

IN NAME OF

I. R. HANSON

Surveyed July 8 1953, by H. L. Coffman

DFK-3D-22

T. 4 S ., R. 1 E., W.M.



FINAL PROOF SURVEY

UNDER

Application No. 21449 Permit No. 16827

IN NAME OF

I. R. HANSON

Surveyed July 8 1953, by H. L. Coffman

DFK-3D-22

1500—5-53

Permit No. 16827 **20401**

Application No. 21449 County Clackamas

RECEIVED
MAR 26 1954
STATE ENGINEER
SALEM, OREGON

Proof of Appropriation of Water

1. Name I. R. Hanson 2. Address Rt. 2, Box ~~222~~ 341, Canby, Oregon

3. Source of supply Bear Creek and an unnamed tributary of Bear Creek

Tributary of Pudding River

4. Amount of water 1.07 c.f.s., being 0.65 cfs from Bear Creek and 0.42 cfs from unnamed stream 5. Priority date March 4, 1946

6. Use Irrigation - this appropriation shall be limited to 1/80th of one cubic foot per second or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed 2½ acre feet per acre for each acre irrigated during the irrigation season of each year, and shall be subject to such reasonable rotation system as may be ordered by the proper state officer.

7. Location of point of diversion From Unnamed tributary - Lot 2(SE¼ NW¼) Sec. 32 Tp. 4 S Rg. 1 E, W. M.
(Legal Subdivision)
From Bear Creek Lot 4(SE¼NE¼)

8. The description of land given below corresponds to that shown in the permit covering land to be irrigated, or, if for other purposes, the place of use.

Township	Range	Section (Willamette Meredian)	Legal Subdivision	No. Acres Actually Irrigated
4 S	1 E	32	Irrigated from Bear Creek:	
			Lot 3 (SW¼ NE¼)	26.2
			Lot 4 (SE¼NE¼)	25.6
				51.8
			Irrigated from Unnamed Tributary:	
			Lot 2 (SE¼NW¼)	14.2
			(NE¼SW¼)	23.0
				37.2

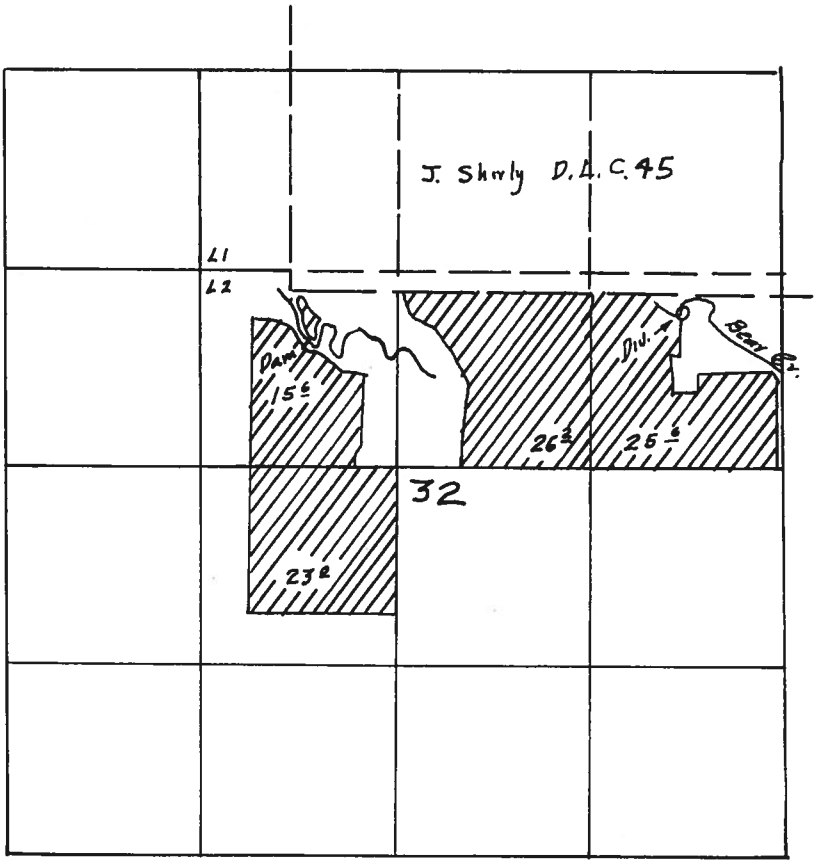
Land on which water is to be used is part of the property described by appropriator as follows:

Beginning 237 rods North of the Southeast corner of the Southwest quarter of Section 32, T. 4 S. R. 1 E. of the W.M. running thence West 10.00 rods; thence South 70.00 rods; thence East 10.00 rods; thence North 70.00 rods to the place of beginning. ALSO, beginning at a point 25.00 chains North and 25.00 chains East of the Southwest corner of said Section 32; thence running East 12.50 chains; thence North 32.00chains; thence West 12.50 chains and thence South 32.00 chains to the place of beginning. ALSO, Lots Three (3) and Four (4) of said Section 32, T. 4 S. R. 1 E. of the W.M., EXCEPT the rights of the public in and to public roads, and EXCEPT the following: Beginning at the Northwest corner of the James Wilson land above described in Section 32, T. 4 S. R. 1 E. of the W.M., thence East 200 feet, more or less, to the East line of a tract of land conveyed to Carl E. Hilton by deed recorded in Book 124 at page 437 of Deed Records

(cont'd. on attached sheet)

(Attach separate sheet if necessary)

T. 4 S., R. 1 E., W.M.



FINAL PROOF SURVEY

UNDER

App. No 21449 Permit No. 16827

IN NAME OF

I. R. Hanson

Surveyed July 8 1953 by H. L. Coffman

DFK-30-22

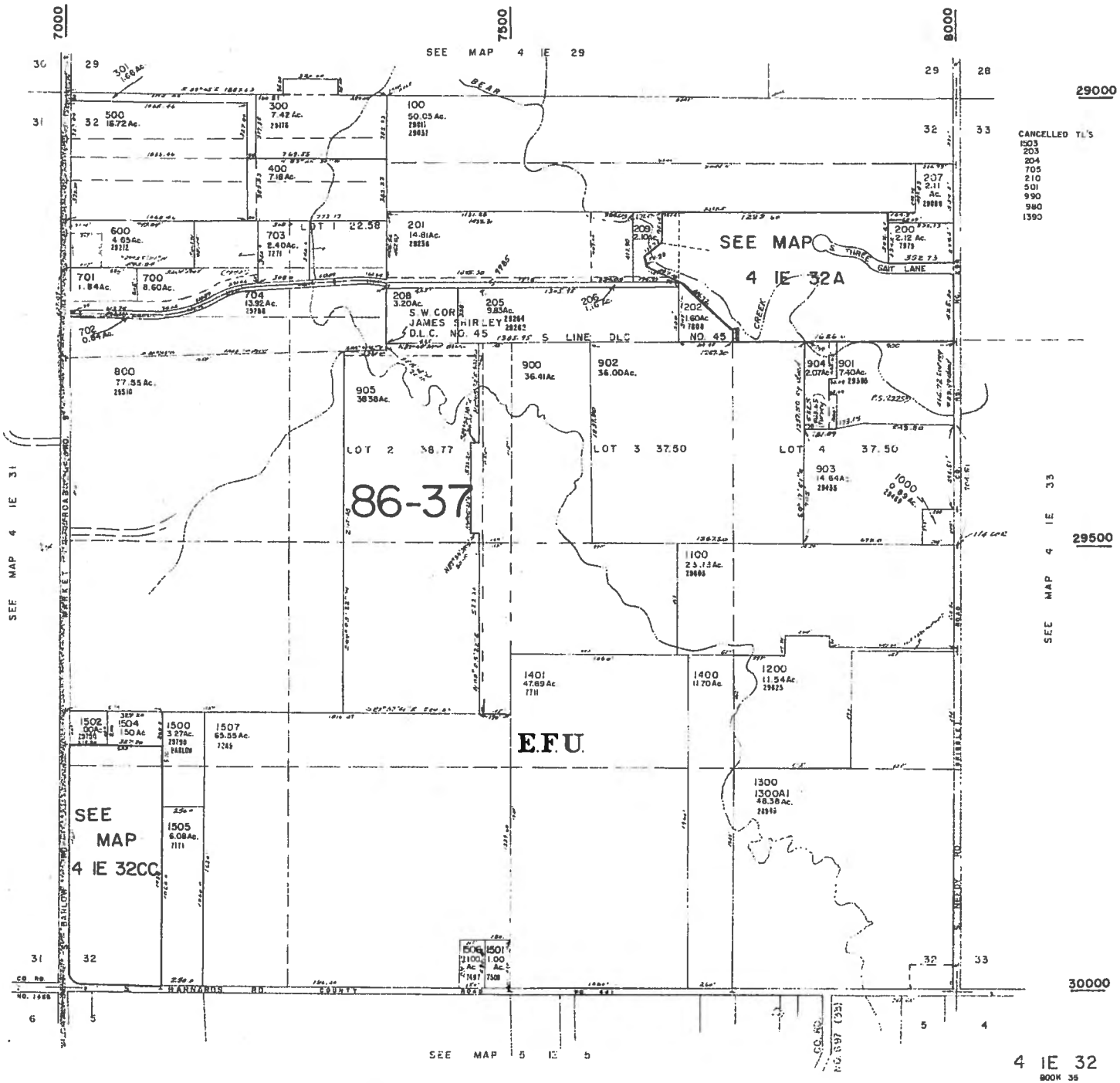
Copied by LC

This map was prepared for assessment purpose only.

SECTION 32 T.4S. R.1E. W.M.
CLACKAMAS COUNTY
1"=400'

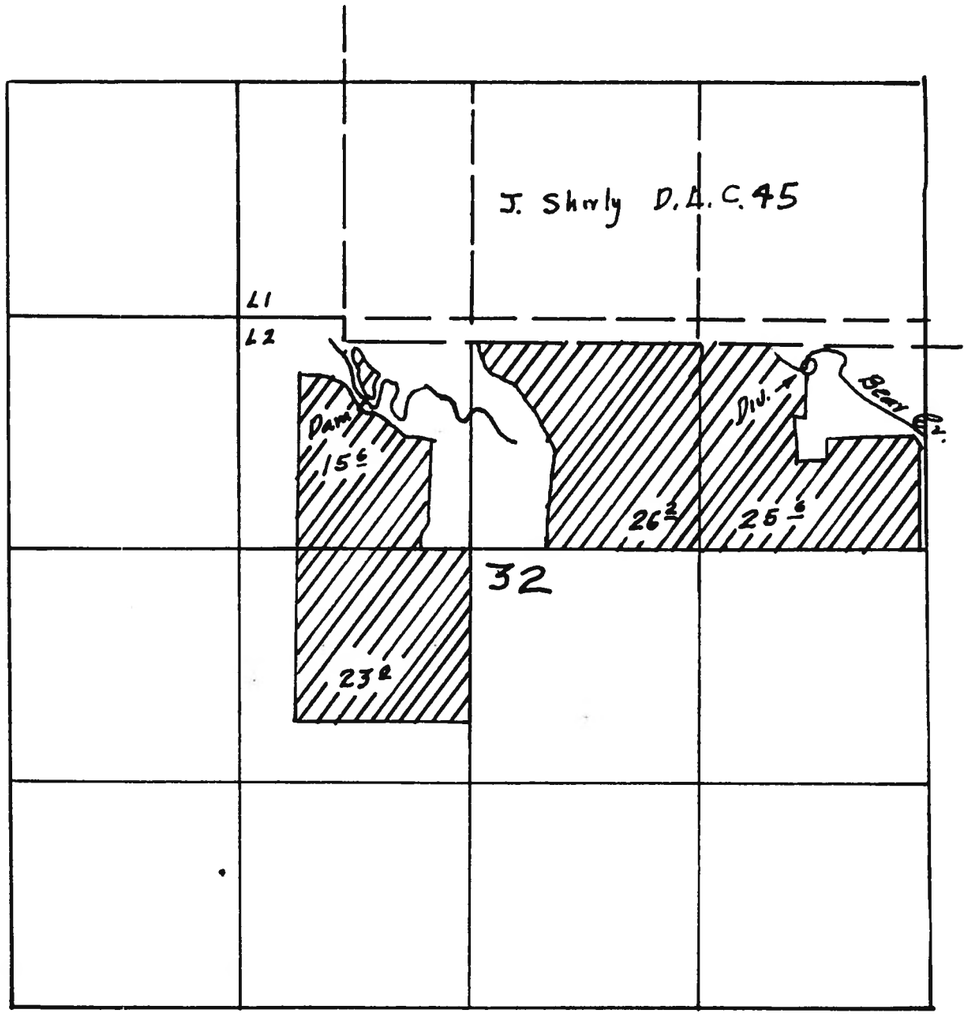
D.L.C.
JAMES SHIRLEY NO. 45

4 1E 32



4 1E 32
BOOK 35

T. 7 S., R. 7 E., W.M.



1502

21
15.6
23.0
26.2
25.6
90.4
-1.6
88.8

FINAL PLAT SURVEY

FAX

Neuschwander's Nursery, LLC
6097 S. Whiskey Hill Rd.
Hubbard, Oregon 97032

Neuschwander's Nursery, LLC

Phone: 503-651-3253
Fax: 503-651-3441
E-mail:nnllc@canby.com

Date 6/9/04	Message From: Joel
Company Name WRD	Attention: Dwight French

Total pages including cover 2

Affidavit of water use

~~(WATER RIGHT TRANSFER)~~

AFFIDAVIT ATTESTING TO THE USE OF WATER DURING THE PREVIOUS FIVE YEARS

State of Oregon)
) ss
County of CLACKAMAS)

I JOEL NEUSCHWANDER / CAROLYN NEUSCHWANDER, in my capacity as OWNER,
mailing address 6097 S. WHISKEY HILL RD. / HUBBARD, OR 97032,
telephone number (503)651-3253, being first duly sworn depose and say:

1. I attest that water was used during the previous five years on the entire authorized place of use of the water right subject to transfer, ~~as described by the accompanying transfer application.~~ My knowledge of the exercise of the water right is based on (check one):

   ☑ Personal observation

   ☑ Professional expertise

2. My knowledge is specific to the use of water at the following location(s):

   26.2 ac SW ¼ NE ¼ 23 ac NE ¼ SW ¼
   25.6 ac SE ¼ NE ¼
   14.2 ac SE ¼ NW ¼
   Section 32
   Township 4 (S) Range 1 (E) WM

3. The water right was exercised for the authorized purposes and is described as follows:

   IRRIGATION of NURSERY STOCK

4. The water delivery system used to apply water as authorized by the water right is described as follows:

   PORTABLE PUMP FROM BEAR CR & UN-NAMED TRIB. INTO PORTABLE MAINLINE, TO MAINLINE, INTO HANDLINES, THEN INTO 18" RISERS.

(continues on reverse side)

PLEASE PRINT LEGIBLY OR TYPE. PLEASE BE AS SPECIFIC AS POSSIBLE. ATTACH ADDITIONAL PAGES IF YOU NEED MORE SPACE. SUPPORTING DOCUMENTATION MUST BE ATTACHED.
June 2003

FROM : FAX NO. :502-524-5567 Oct. 28 2003 09:26AM P2
06/09/2004 08:50 5036513441 NEUSCHWANDER NURSERY PAGE 02

5. One or more of the following documentation supporting the above statements is attached:

- ☐ Copy of a water right certificate which has been issued within the last five years (not a remaining right certificate),
- ☐ Copies of receipts from sales of irrigated crops or for expenditures relating to use of water,
- ☐ Records such as Farm Service Agency crop reports, irrigation district records, an NRCS farm management plan, or records of other water suppliers,
- ☐ Dated aerial photographs of the lands or other photographs containing sufficient detail to establish the location and date of the photograph,
- ☐ Dedicated power usage records or receipts,
- ☐ If the right has not been used during the past five years, documentation that the presumption of forfeiture would be rebutted under ORS 540.610(2), or
- ☒ Other: CERTIFICATE, VOL. 15, PAGE 20401

Joel Neuschwander
Carolyn Neuschwander
Signature of Affiant

6/8/04
Date

Subscribed and Sworn to Before Me this 8 day of June, 2004.

OFFICIAL SEAL
PATRICK W. O'NEAL
NOTARY PUBLIC - OREGON
COMMISSION NO. 368909
MY COMMISSION EXPIRES MAY 21, 2007

Patrick W. O'Neal
Notary Public for Oregon

My Commission Expires 5/21/07

PLEASE PRINT LEGIBLY OR TYPE. PLEASE BE AS SPECIFIC AS POSSIBLE. ATTACH ADDITIONAL PAGES IF YOU NEED MORE SPACE. SUPPORTING DOCUMENTATION MUST BE ATTACHED.
June 2003

FROM : FAX NO. :502-524-5567 Oct. 28 2003 09:27AM P3

06/09/2004 08:50 5036513441 NEUSCHWANDER NURSERY PAGE 03

IN THE MATTER OF THE ACCEPTANCE)
OF APPLICATIONS FOR PERMITS TO)
APPROPRIATE WATER FROM ROCK)
CREEK AND ITS TRIBUTARIES)
)

O R D E R

TO REJECT CERTAIN
FUTURE APPLICATIONS

This order covers the waters of Rock Creek and its tributaries, which drain parts of Township 4 South, Range 1 East; Township 5 South, Range 1 East; Township 5 South, Range 2 East; Township 6 South, Range 1 East; and Township 6 South, Range 2 East, W. M. Rock Creek flows into Pudding River in the south half of Section 25, Township 4 South, Range 1 West, W. M.

Investigations made August 2, 1951, by a representative of the State Engineer indicate that there is not sufficient water flowing in the stream in question and its tributaries, during the irrigation season, to satisfy existing rights, and it appears that the approval of any more applications proposing use of the direct flow of this stream or its tributaries would conflict with existing rights.

THEREFORE, IT IS HEREBY ORDERED that no more applications for permits to appropriate water from Rock Creek as described above, or its tributaries, be accepted, unless the applications are for storage and the appropriation of stored water.

Dated at Salem, Oregon, this 13th day of August, 1951.

Chas E Stricklin

CHAS. E. STRICKLIN
State Engineer

No ISWR
on Rock Cr >
Pudding R

4.22.2004

Tom,
I'll be home
4.23.2004 - 5.5.2004.
Call me if you need
me - 503.585.9583.
Bill

APPLICANT:
JOEL NEUSCHWANDER
6097 S. WHISKEY HILL Rd.
HUBBARD, OR 97032
(503) 651-3253

T. 4 S., R. 1 E., W.M.
SECTION 32

1" = 1320'

N

26± Ac Pri Beaver Cr C 20401 Full rate

14± Ac Pri Unn Trib C 20401
14± Ac Sup Well #2 C 43219
Full rate

J. Shirly D.L.C. 45

AREA TO BE IRRIGATED IN TAX LOT 900:
13.8 acres in SW1/4 NE1/4
Plus 24.4 acres in SE1/4 NW1/4.
TOTAL: 37.4 acres

14±
+23±
37± Ac Pri C 20401 under Full rate by 0.05 cfs

WELL No. 1 is 1,250' from the EAST LINE of the SECTION (32), AND 550' from the SOUTH LINE of the SE1/4 NE1/4 Sec. 32.

25± Ac Pri Beaver Cr C 20401 Full rate

WELL No. 2 is 50' WEST & 50' SOUTH of the SE CORNER of the NW1/4 of SECTION 32

23± Ac Pri Unn Trib C 20401
23± Ac Sup Well #2 C 43291
Full rate

21± Ac Pri Well 2 C 68565 Full rate

27± Ac Pri Well 2 C 68565 Full rate

1060'

AREA TO BE IRRIGATED IN TAX LOT 1401:
47.69 acres → 23.845 ac in NW1/4 SE1/4; AND 23.845 ac. in [redacted]

Application No. G-15567
Permit No.

89 acres:
= LANDS IRRIGATED UNDER CERTIFICATE 20401 (PERMIT No. 16827) (APP. No. 21449)

= LANDS TO BE IRRIGATED UNDER PERMIT G-15567 WITH THIS APPLICATION.
85.89 ACRES.

[redacted]

RECEIVED
JUL 25 2001
WATER RESOURCES DEPT
SALEM, OR

INCLUDING: App. No 21449 Permit No. 16827
IN NAME OF
I. R. Hanson

AND NEW LANDS.

Surveyed July 8 1963 by H. L. Coffman

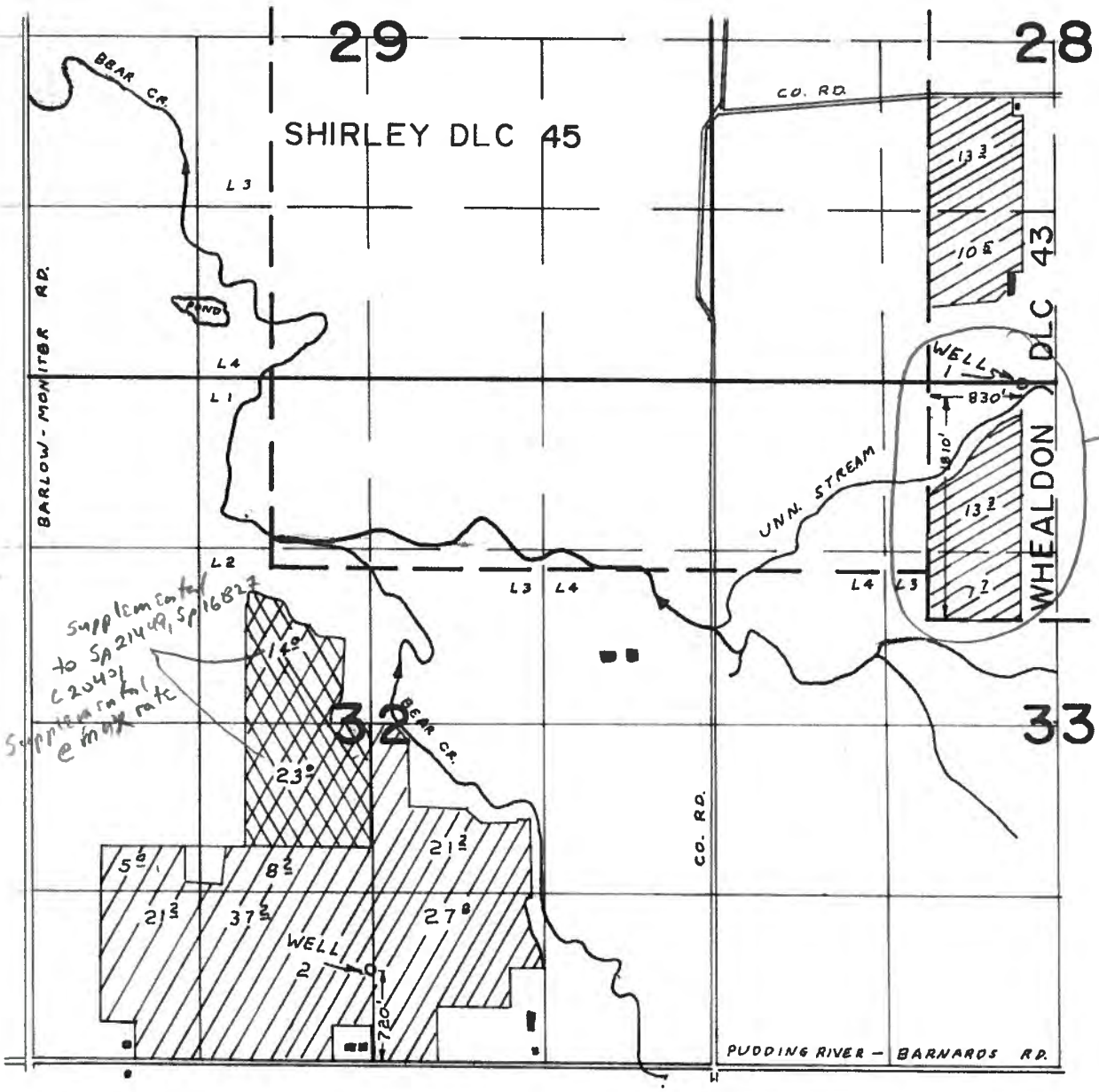
[redacted]

copied by L

T6941-POA - only affects land in 4S 1E 33 - certificated 76259 CT cert 68565

T-8333 - Pending - nothing affected yet

T. 4 S. R. 1 E. W. M.



FINAL PROOF SURVEY
UNDER

Application No. G-5629 Permit No. G-4921
IN NAME OF

TWIN CREEK FARMS, INC.

Surveyed SEP 23 1974, by L H NUNN

DFK-2LL-148 LHN

Permit A-2-2M—1-76 SP*22957-690

STATE OF OREGON

COUNTY OF CLACKAMAS

CERTIFICATE OF WATER RIGHT

This Is to Certify, *That* TWIN CREEK FARMS, INC.

of 29385 S. Needy Rd., Canby *, State of* Oregon, 97013 *, has made proof to the satisfaction of the Water Resources Director, of a right to the use of the waters of* two wells

a tributary of Bear Creek *for the purpose of* irrigation of 44.8 acres from Well No. 1 and irrigation of 120.6 acres from Well No. 2 and supplemental irrigation of 37.0 acres from Well No. 2 *under Permit No.* G-4921 *and that said right to the use of said waters has been perfected in accordance with the laws of Oregon; that the priority of the right hereby confirmed dates from* September 23, 1971

that the amount of water to which such right is entitled and hereby confirmed, for the purposes aforesaid, is limited to an amount actually beneficially used for said purposes, and shall not exceed 2.53 cubic feet per second, being 0.56 c.f.s. from Well No. 1 and 1.97 c.f.s. from Well No. 2

or its equivalent in case of rotation, measured at the point of diversion from the stream. The point of diversion is located in the No. 1-NE¼ NW¼, as projected within Whealdon DLC 43, Section 33; No. 2-SE¼ SW¼, Section 32, T. 4 S., R. 1 E., W. M., No. 1-1810 feet North and 830 feet East from the SW Corner, Whealdon DLC 43; No. 2-720 feet North from the S¼ Corner, Section 32.

The amount of water used for irrigation, together with the amount secured under any other right existing for the same lands, shall be limited to one-eightieth *of one cubic foot per second per acre,* or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed 2½ acre feet per acre for each acre irrigated during the irrigation season of each year; provided further that the right allowed herein shall be limited to any deficiency in the available supply of any prior right existing for the same land and shall not exceed the limitation allowed herein,

and shall conform to such reasonable rotation system as may be ordered by the proper state officer.

A description of the place of use under the right hereby confirmed, and to which such right is appurtenant, is as follows:

SEE NEXT PAGE

NEW cert says NESE

Well No. 1

13.3 acres NE¼ SE¼
10.5 acres SE¼ SE¼
Both projected within Whealdon DLC 43
Section 28

13.3 acres NE¼ NE¼
7.7 acres SE¼ NE¼
Both projected within Whealdon DLC 43
Section 33
T. 4 S., R. 1 E., W. M.

T-6941 to new POA

Max rate = 0.56 rec'd max rate

Well No. 2
Supplemental

14.0 acres Lot 2 (SE¼ NE¼)
23.0 acres NE¼ SE¼
Section 32
T. 4 S., R. 1 E., W. M.

Primary

8.2 acres NE¼ SW¼
5.0 acres NW¼ SW¼
21.2 acres SW¼ SW¼
37.2 acres SE¼ SW¼
21.2 acres NW¼ SE¼
27.8 acres SW¼ SE¼
Section 32
T. 4 S., R. 1 E., W. M.

Max. rate = 1.97 rec'd max rate

The right to the use of the water for the purposes aforesaid is restricted to the lands or place of use herein described., and is subject to the existing minimum flow policies established by the Water Policy Review Board.

WITNESS the signature of the Water Resources Director, affixed this date. July 6, 1976

James F. Sexson
Water Resources Director

Recorded in State Record of Water Right Certificates, Volume 35 *, page* 43219

STATE OF OREGON

COUNTY OF CLACKAMAS

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

TWIN CREEK FARMS
29385 S. NEEDY ROAD
CANBY, OREGON 97013

confirms the right to use the waters of TWO WELLS in the BEAR CREEK BASIN for IRRIGATION OF 23.8 ACRES FROM WELL NO. 1 AND IRRIGATION OF 120.6 ACRES FROM WELL NO. 2 AND SUPPLEMENTAL IRRIGATION OF 37.2 ACRES FROM WELL NO. 2.

This right was perfected under Permit G-4921. The date of priority is SEPTEMBER 23, 1971. The amount of water to which this right is entitled is limited to an amount actually beneficially used and shall not exceed 2.27 CUBIC FOOT PER SECOND, BEING 0.30 CFS FROM WELL NO. 1 AND 1.97 CFS FROM WELL NO. 2, or its equivalent in case of rotation, measured at the well.

The wells are located as follows:

NE¼ NW¼, AS PROJECTED WITHIN WHEALDON DLC 43, SECTION 33; SE¼ SW¼, SECTION 32, T 4 S, R 1 E, W.M.; WELL NO. 1- 1310 FEET NORTH AND 830 FEET EAST FROM THE SW CORNER, WHEALDON DLC 43; WELL NO. 2- 720 FEET NORTH FROM THE S¼ CORNER, SECTION 32.

The amount of water used for irrigation, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second,or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed 2½ acre-feet per acre for each acre irrigated during the irrigation season of each year; PROVIDED FURTHER THAT THE RIGHT ALLOWED HEREIN SHALL BE LIMITED TO ANY DEFICIENCY IN THE AVAILABLE SUPPLY OF ANY RIGHT EXISTING FOR THE SAME LAND AND SHALL NOT EXCEED THE LIMITATION ALLOWED HEREIN.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

A description of the place of use to which this right is appurtenant is as follows:

WELL NO. 1

Should be NE SW

13.3 ACRES NE¼ SE¼
10.5 ACRES SE¼ SW¼
BOTH PROJECTED WITHIN WHEALDON DLC 43
SECTION 28
TOWNSHIP 4 SOUTH, RANGE 1 EAST, W.M.

WELL NO. 2

SUPPLEMENTAL

14.0 ACRES LOT 2 (SE¼ NW¼)
23.0 ACRES NE¼ SW¼
SECTION 32
TOWNSHIP 4 SOUTH, RANGE 1 EAST, W.M.

PRIMARY

8.2 ACRES NE¼ SW¼
5.0 ACRES NW¼ SW¼
21.2 ACRES SW¼ SW¼
37.2 ACRES SE¼ SW¼
21.2 ACRES NW¼ SE¼
27.8 ACRES SW¼ SE¼
SECTION 32
TOWNSHIP 4 SOUTH, RANGE 1 EAST, W.M.

The wells shall be maintained in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon.

This certificate describes that portion of the water right confirmed by Certificate 43219, State Record of Water Right Certificates, NOT modified by the provisions of an order of the Water Resources Director entered SEP 10 1995, approving Transfer Application T-6941

The issuance of this superseding certificate does not confirm the status of the water right in regard to the provisions of ORS 540.610 pertaining to forfeiture or abandonment.

The right to the use of the water for the above purpose is restricted to beneficial use on the lands or place of use described.

WITNESS the signature of the Water Resources Director, affixed

SEP 10 1995.

/s/ Steven P. Applegate

Martha O. Pagel, Director

Recorded in State Record of Water Right Certificates numbered 68565.

T-6941.PKS

STATE OF OREGON

COUNTY OF CLACKAMAS

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

STEPHEN H. AND ANN H. SMITH
8462 SOUTH HEINZ ROAD
CANBY, OREGON 97013

confirms the right to use the waters of A WELL in the BEAR CREEK BASIN for IRRIGATION OF 21.0 ACRES.

This right was perfected under Permit G-4921. The date of priority is SEPTEMBER 23, 1971. The amount of water to which this right is entitled is limited to an amount actually beneficially used and shall not exceed 0.26 CUBIC FOOT PER SECOND, or its equivalent in case of rotation, measured at the well.

The well is located as follows:

NE 1/4 NW 1/4, AS PROJECTED WITHIN WHEALDON DLC 43, SECTION 33, TOWNSHIP 4 SOUTH, RANGE 1 EAST, W.M.; 1380 FEET NORTH AND 650 FEET EAST FROM THE SW CORNER OF DLC 43.

The amount of water used for irrigation, together with the amount secured under any other right existing for the same lands, is limited to ONE-EIGHTIETH of one cubic foot per second per acre, or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed 2 ½ acre-feet per acre for each acre irrigated during the irrigation season of each year.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

A description of the place of use to which this right is appurtenant is as follows:

NE 1/4 NW 1/4 13.3 ACRES
SE 1/4 NW 1/4 7.7 ACRES
BOTH AS PROJECTED WITHIN WHEALDON DLC 43
SECTION 33
TOWNSHIP 4 SOUTH, RANGE 1 EAST, W.M.

The well shall be maintained in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon.

The right to use water for the above purpose is restricted to beneficial use on the lands or place of use described.

This certificate is issued to confirm a change in POINT OF APPROPRIATION approved by an order of the Water Resources Director entered SEPTEMBER 10, 1995, and together with Certificate 68565, supersedes Certificate 43219, State Record of Water Right Certificates.

The issuance of this superseding certificate does not confirm the status of the water right in regard to the provisions of ORS 540.610 pertaining to forfeiture or abandonment.

WITNESS the signature of the Water Resources Director, affixed JULY 16, 1999.

Martha O. Pagel

Recorded in State Record of Water Right Certificates numbered 76259.

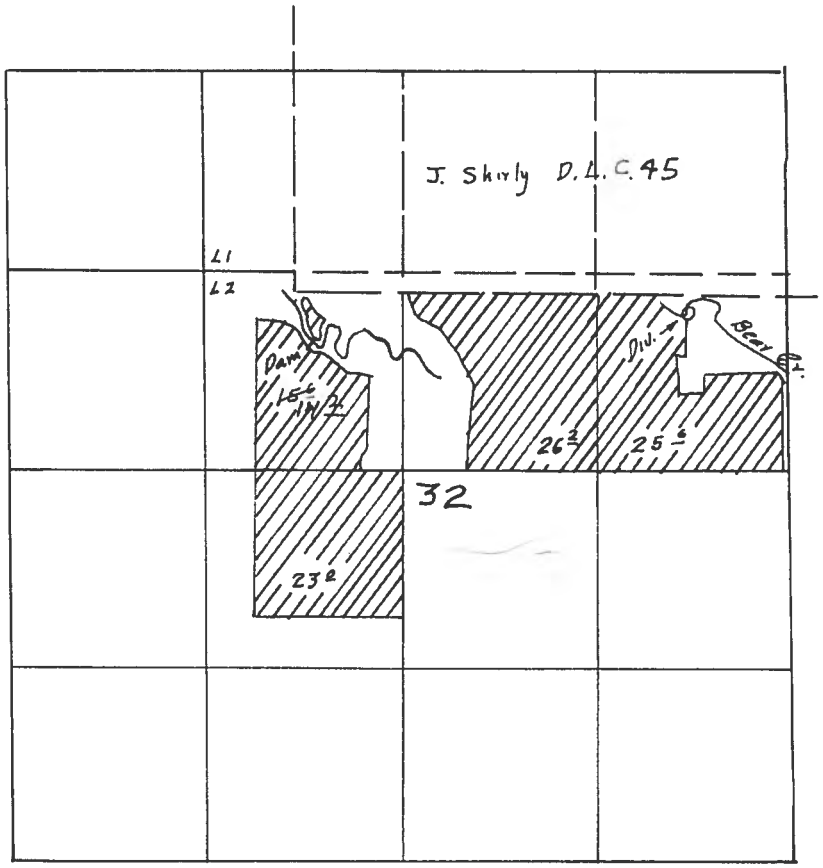
T-6941.SB

T-6867- Proposed changing all PODs to POAs -Withdrawn-no changes

T-8333- Proposed changing: POA well #1 (T6867) to POA well #2 & Acreage associated w/ well #1 — 14⅔ Ac SE/NW 18⅓ Ac NE/SW

Pending - nothing affected yet

T. 4 S., R. 1 E., W.M.



FINAL PROOF SURVEY

UNDER

App. No 21449 Permit No. 16827

IN NAME OF

I. R. Hanson

Surveyed July 8 1963 by H. L. Coffman

DFK-30-22

STATE OF OREGON

COUNTY OF CLACKAMAS

CERTIFICATE OF WATER RIGHT

This Is To Certify, That I. R. HANSON

of Route 2, Box 340, Canby, State of Oregon, has made proof to the satisfaction of the STATE ENGINEER of Oregon, of a right to the use of the waters of Bear Creek and an unnamed tributary of Bear Creek, a tributary of Pudding River for the purpose of irrigation under Permit No. 16827 of the State Engineer, and that said right to the use of said waters has been perfected in accordance with the laws of Oregon; that the priority of the right hereby confirmed dates from March 4, 1946;

that the amount of water to which such right is entitled and hereby confirmed, for the purposes aforesaid, is limited to an amount actually beneficially used for said purposes, and shall not exceed 1.07 cubic foot per second, being 0.65 c.f.s. from Bear Creek and 0.42 c.f.s. from the unnamed stream, max rate = 0.65 Max Rate = 0.42

or its equivalent in case of rotation, measured at the point of diversion from the stream. The point of diversion is located ~~from~~ From unnamed tributary: in Lot 2 ($SE\frac{1}{4}$ $NW\frac{1}{4}$); From Bear Creek: in Lot 4 ($SE\frac{1}{4}$ $NE\frac{1}{4}$), all being within Section 32, Township 4 South, Range 1 East, W. M.

The amount of water used for irrigation, together with the amount secured under any other right existing for the same lands, shall be limited to one-eightieth of one cubic foot per second per acre, or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed $2\frac{1}{2}$ acre feet per acre for each acre irrigated during the irrigation season of each year,

and shall conform to such reasonable rotation system as may be ordered by the proper state officer.

A description of the place of use under the right hereby confirmed, and to which such right is appurtenant, is as follows:

From Bear Creek:
26.2 acres in Lot 3 ($SW\frac{1}{4}$ $NE\frac{1}{4}$)
25.6 acres in Lot 4 ($SE\frac{1}{4}$ $NE\frac{1}{4}$)
Section 32
Township 4 South, Range 1 East, W. M.

Max rate = 0.65
rec'd 0.65

From Unnamed Tributary:
14.2 acres in Lot 2 ($SE\frac{1}{4}$ $NW\frac{1}{4}$)
23.0 acres in the $NE\frac{1}{4}$ $SW\frac{1}{4}$
Section 32
Township 4 South, Range 1 East, W. M.

Max rate = 0.47
rec'd 0.42

Land on which water is to be used is a part of that more explicitly described by appropriator as follows:

Beginning 237 rods North of the Southeast corner of the Southwest quarter of Section 32, T. 4 S. R. 1 E. of the W.M. running thence West 10.00 rods; thence South 70.00 rods; thence East 10.00 rods; thence North 70.00 rods to the place of beginning. ALSO, beginning at a point 25.00 chains North and 25.00 chains East of the Southwest corner of said Section 32; thence running East 12.50 chains; thence North 32.00 chains; thence West 12.50 chains and thence South 32.00 chains to the place of beginning. ALSO, Lots Three (3) and Four (4) of said Section 32, T. 4 S. R. 1 E. of the W.M., EXCEPT the rights of the public in and to public roads, and EXCEPT the following: Beginning at the Northwest corner of the James Wilson land above described in Section 32, T. 4 S. R. 1 E. of the W.M., thence East 200 feet, more or less, to the East line of a tract of land conveyed to Carl E. Hilton by deed recorded in Book 124 at page 437 of Deed Records of Clackamas County, State of Oregon; thence South along the East line

of said Hilton tract of land, 100 feet, more or less to the Southeast corner thereof; thence West along the South line of said Hilton land 200 feet, more or less to the West line of said James Wilson land; thence North on the West line of said James Wilson land, 100 feet, more or less, to the place of beginning.

The right to the use of the water for the purposes aforesaid is restricted to the lands or place of use herein described.

WITNESS the signature of the State Engineer, affixed

this 30th *day of* April , 19 54 .

CHAS. L. STRICKLIN
State Engineer

Recorded in State Record of Water Right Certificates, Volume 15 *, page* 20401

Platcard Report

Township 4S Range 1E Section 32

	App# Priority	Permit/ Certificate	Claim/ Decree	Status dlc/lot	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Govt Lot	DLC
ℹ	- 07/19/1967	G3751 -		xfr#: T7669 dlc: 45	14.9 IR	9.0 IR			9.8 IR													
ℹ	G5629 09/23/1971	G4921 68565		see transfers									8.2 IR	5.0 IR	21.2 IR	37.2 IR		21.2 IR	27.8 IR			
	09/23/1971			see transfers									23.0 IS (s)									
	09/23/1971			see transfers lot: 2								14.0 IS (s)										
ℹ	SA 25 T 52 03/26/1951	S20153 33567	N of DLC 45 South boundary	xfr#: P69 dlc: 45	16.5 IR			1.5 IR														
ℹ	G3997 07/19/1967	G3751 38513		CN dlc: 45	14.9 IR CN	9.0 IR CN			9.8 IR CN													
ℹ	G5629 09/23/1971	G4921 43219		CN									8.2 IR CN	5.0 IR CN	21.2 IR CN	37.2 IR CN		21.2 IR CN	27.8 IR CN			
	09/23/1971			CN									23.0 IS (s) CN									
	09/23/1971			CN lot: 2								14.0 IS (s) CN										
ℹ	G13884 11/21/1994	G12520 -												1.95 AG	1.32 AG							

Not on this Land

Page:**1** 2 Next Last

Return to Platcard Query Screen

Paul R. Cleary, Director
Oregon Water Resources Department • 725 Summer ST NE, Suite A • Salem, OR 97301 • Phone: 503-986-0900 • Fax: 503-986-0903

Run Time: 1 seconds

Platcard Report

Township 4S Range 1E Section 32

	App# Priority	Permit/ Certificate	Claim/ Decree	Status dlc/lot	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Govt Lot	DLC
	G13981 01/26/1995	G13012 -									23.5 IR	3.5 IR	11.0 IR	32.0 IR								
	G14490 04/07/1997	G13347 -								16.72 IR												
	G15567 07/25/2001	- -					40.0 NU	25.6 NU				40.0 NU	23.0 NU					23.85 NU	23.85 NU			
	P78128 12/20/1994	- -																LV				
	S21449 03/04/1946	S16827 20401		see transfers									23.0 IR									
	03/04/1946			see transfers lot: 2								14.2 IR										
	03/04/1946			see transfers lot: 3			26.2 IR															
	03/04/1946			see transfers lot: 4				25.6 IR														
	S25757 03/26/1951	S20153 22340		CN dlc: 45	16.5 IR CN			1.5 IR CN														

Page:First Previous 1 **2**

Return to Platcard Query Screen

Paul R. Cleary, Director
Oregon Water Resources Department • 725 Summer ST NE, Suite A • Salem, OR 97301 • Phone: 503-986-0900 • Fax: 503-986-0903

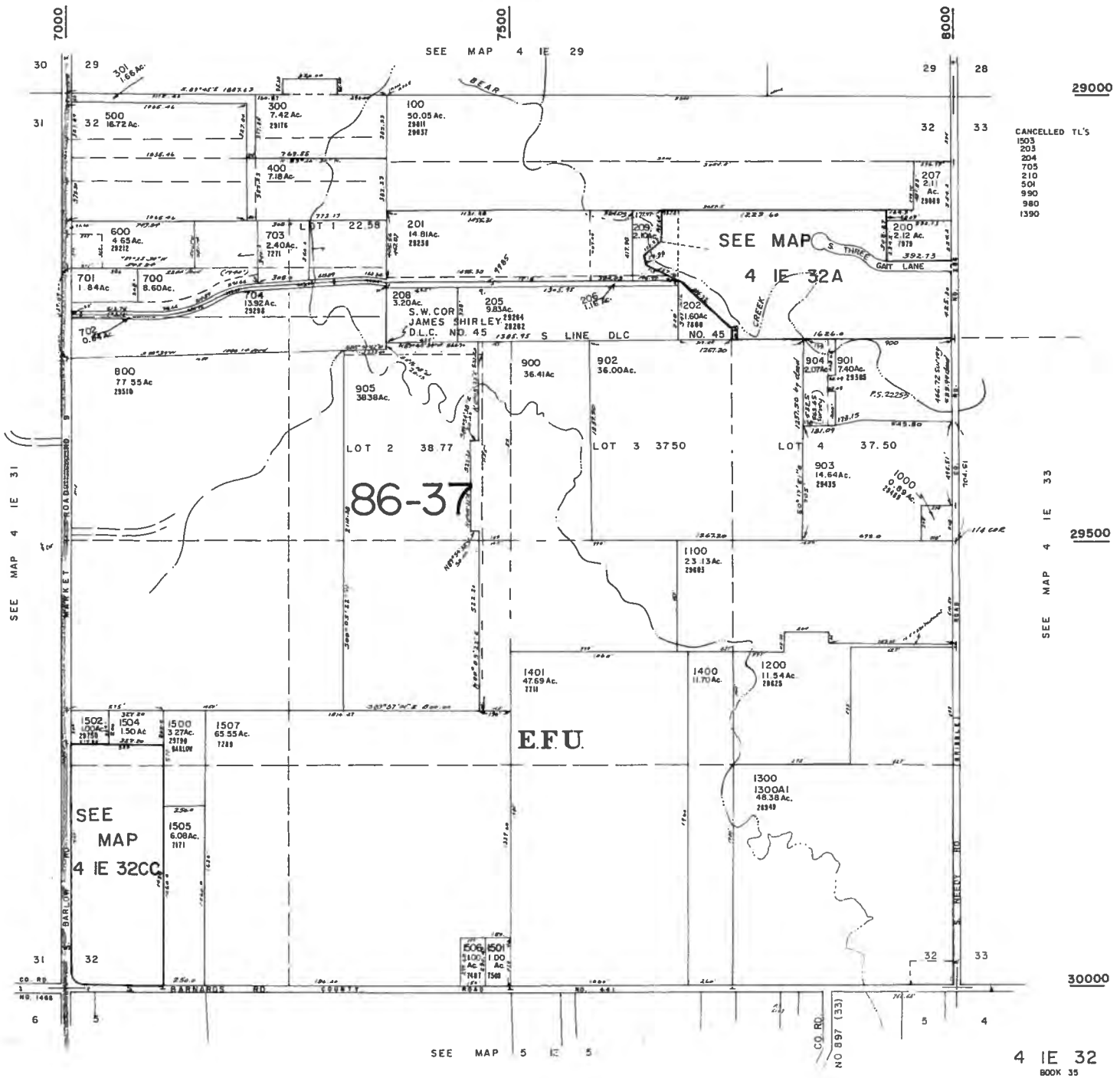
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This map was prepared for assessment purpose only

SECTION 32 T.4S. R.1E. W.M.
CLACKAMAS COUNTY
1"=400'

D.L.C.
JAMES SHIRLEY NO. 45

4 1E 32



4 1E 32
BOOK 35

Application No. O-78128
Permit No.

STATE OF OREGON
WATER RESOURCES DEPARTMENT

RECEIVED
DEC 20 1994
WATER RESOURCES DEPT.
SALEM, OREGON

NOTICE OF EXEMPT RESERVOIR

This notice is submitted pursuant to ORS 537.141, which provides that a water right is not needed for certain ponds/reservoirs which were in existence before January 1, 1993, are located off-channel and store less than 9.2 acre-feet of water or have a dam less than 10 feet in height.

Landowner: A. Joel Neuschwander

Authorized Agent: (if applicable) _____

Address: 6097 So. Whiskey Hill Rd.

Hubbard, Or. 97032 503-651-3253
City State Zip Telephone No.

I/WE SUBMIT NOTICE OF THE FOLLOWING RESERVOIR(S):

NOTE: Multiple reservoirs may be included in a single notification, provided the reservoirs are within the same ownership, on contiguous property and within the same drainage basin. For items 1-6 below, attach extra sheets for additional reservoir descriptions.

1. The reservoir is located in **Section** ① NWSE ② NWSW 32, 31 **Township** 4S, **Range** 1E, **in** Clackamas **County.** (Enclose a US Geological Survey topographical map or a tax lot map showing the location of the reservoir(s). Copies of portions of the maps are acceptable, provided information on the copy verifies the correct legal description.)

2. **Source** of water: Runoff.

3. Maximum **height** of the dam: 6', 6', 8'.

4. Maximum water **depth** in the reservoir: 10, 10, 3.

5. Maximum **storage capacity** of reservoir: ① 2AF, ② 8AF, 7AF.

6. Size, description and location of any **outlet pipe:** 12" 12". Spillway.

7. Enclose evidence that the reservoir(s) existed before January 1, 1993, such as one or more of the following:

   ✓ 7.1 A dated aerial photograph which shows the immediate area above, below and surrounding the reservoir(s);

   7.2 An affidavit signed by the landowner or other knowledgeable person (signature needs to be notarized);

   ✓ 7.3 A dated map prepared by a local, state or federal agency showing the location of the reservoir; or

   7.4 Construction receipts or other forms of documentation.

Declaration by Owner/Authorized Agent:
Each of the reservoirs described herein was in existence before January 1, 1993, is located off-channel and stores less than 9.2 acre-feet of water or has a dam less than 10 feet in height.

I/We believe the reservoir(s) qualifies under ORS 537.141 and OAR 690-11-041 for exemption from Oregon's water right filing requirements.

Notice to Owners/Authorized Agent:
Reservoirs that qualify for exemption under ORS 537.141 and OAR 690-11-041 shall be subject to the following conditions:

1. The right to store or use water in the reservoir shall not have priority over any water right; and

2. The right to store and use water in the reservoir(s) shall be subordinate to all future permitted or certificated water rights.

THE UNDERSIGNED VERIFIES THAT TO THE BEST OF HIS/HER KNOWLEDGE AND BELIEF THE INFORMATION CONTAINED IN THIS NOTICE IS TRUE, CORRECT AND COMPLETE.

Landowner/agent signature: A. Joel Neuschwander

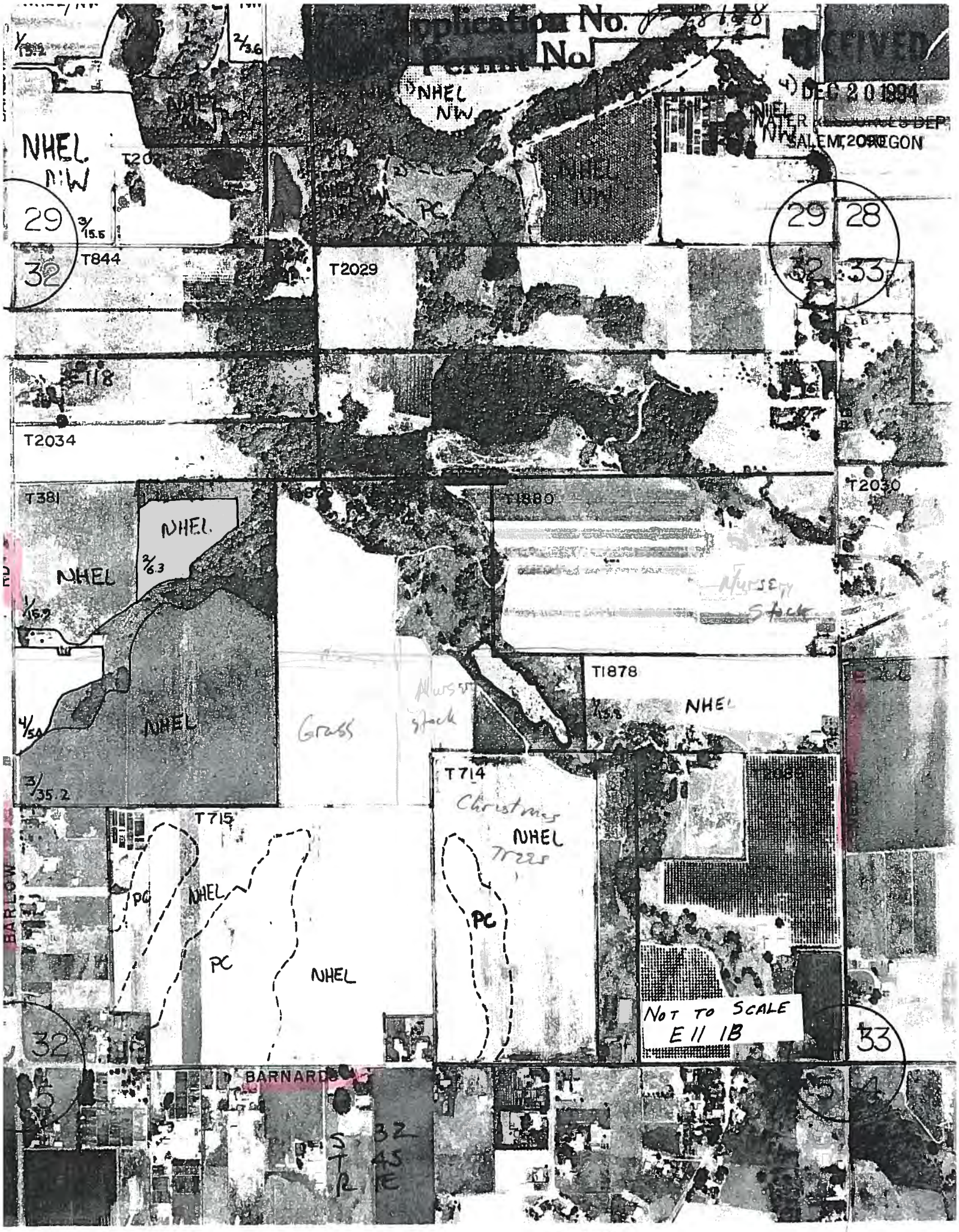
(Print Name and Title) A. Joel Neuschwander

Date: 12/14/94

FOR WATER RESOURCES DEPARTMENT USE ONLY

The foregoing Notice and accompanying data have been examined by authorized staff of the Water Resources Department. Based on review of the information submitted, this Notice is accepted on _____, 1994 and assigned **FILE NUMBER** _____.

cc: Watermaster District # _____
To Data Center (date) _____



June 1990

T 1 S

State of Oregon
Water Resources Department
158 12th Street NE, Salem, OR 97310
(503)378-8455 • (800)624-3199
www.wrd.state.or.us

Application for a Permit to Use Ground Water

Please type or print in dark ink. If your application is found to be incomplete or inaccurate, we will return it to you. If any requested information does not apply to your application, insert "n/a." Please read and refer to the instructions when completing your application. Thank you.

RECEIVED
JUL 25 2001
WATER RESOURCES DEPT
SALEM, OR

1. APPLICANT INFORMATION

A. Individuals

Applicant: JOEL NEUSCHWANDER
First Last

Co-applicant: _____
First Last

Mailing address: 6097 S. WHISKEY HILL ROAD

HUBBARD OR 97032
City State Zip

Phone: (503) 651-3253
Home Work Other

*Fax: _____ *E-Mail address: _____

B. Organizations

(Corporations, associations, firms, partnerships, joint stock companies, cooperatives, public and municipal corporations)

Name of organization: _____

Name and title of person applying: _____

Mailing address of organization: _____

_____
City State Zip

Phone: _____
Day Evening

*Fax: _____ *E-Mail address: _____

**Optional information*

For Department Use

App. No. G-15567 Permit No. _____ Date 7-25-01

2. PROPERTY OWNERSHIP

Do you own all the land where you propose to divert, transport, and use water?

☑ Yes *(Skip to section 3 "Ground water Development.")*

☐ No Please check the appropriate box below.

- ☐ I have a recorded easement or written authorization permitting access.
- ☐ I do not currently have written authorization or easement permitting access.

List the names and mailing addresses of all affected landowners.*

If more than 25 landowners are involved, a list is not required. See instructions.

3. GROUND WATER DEVELOPMENT

A. Number of well(s): 2 **B.** Name of nearest surface water body: BEAR CREEK

C. Distance from well(s) to nearest stream or lake: 1) 1/4 and 1/2 MILE

2) _____ 3) _____ 4) _____

D. If distance from surface water is less than one mile, indicate elevation difference between nearest surface water and well head. 1) 25'

2) 25' 3) _____ 4) _____

E. Well Characteristics

Wells must be constructed according to standards set by the Department for the construction and maintenance of water wells. If the well is already constructed, please enclose a copy of the well constructor's log and the well ID number, if available, for each well with this application. Identify each well with a number corresponding to the wells designated on the map and proceed to question F in this section of the form. If the well has not been constructed, or if you do not have a well log, please complete the following:

Well(s) will be constructed by: SEE ATTACHED WELL LOGS.
WELL LOG CLAC 51287 AND CLAC 12700

Address: _____

Completion date: _____

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JUL 25 2001
WATER RESOURCES DEPT
SALEM, OR

2. Please provide a description of your well development. *(Attach additional sheets if needed.)*

Well No.	Diameter	Type and size of casing	No. of feet of casing	Intervals casing is perforated (in feet)	Seal depth	Est. depth to water	Est. depth to water bearing stratum	Type of access port or measuring device	Total well depth
			SEE ATTACHED WELL LOGS.						

F. Artesian Flows

If your water well is flowing artesian, describe your water control and conservation works:

N/a

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SALEM, OR

4. WATER USE

Please read the instruction booklet for more details on "type of use" definitions, how to express how much water you need and how to identify the water source you propose to use. You must fill out a supplemental form for some uses as they require specific information for that type of use.

A. Type(s) of Use(s)

See list of beneficial uses provided in the instructions.

- If your proposed use is **domestic**, indicate the number of households to be supplied with water: _____
- If your proposed use is **irrigation**, please attach Form **I**
- If your proposed use is **mining**, attach Form **R**
- If your proposed use is **municipal or quasi-municipal**, attach Form **M**
- If your proposed use is **commercial/industrial**, attach Form **Q**

Application No. 81 35367
Permit No.

B. Amount of Water

Provide the production rate in gallons per minute (gpm) and the total annual amount of water you need from each well, from each source or aquifer, for each use. You do not need to provide source information if you are submitting a well log with your application.

Well No.	Source or aquifer	Type of use	Total rate of water requested (in gpm)	Total annual quantity (in gallons)	Production rate of well (in gpm)
1	AQUIFER	NURSERY USE (AGRICULTURAL USE)	500 gpm		500 gpm
2	AQUIFER	NURSERY USE (AGRICULTURAL USE)	220 gpm		220 gpm

C. Maximum Rate of Use Requested

What is the maximum, instantaneous rate of water that will be used? 720 gpm

(The fees for your application will be based on this amount.)

D. Period of Use

Indicate the time of year you propose to use the water: YEAR-ROUND

(For seasonal uses like irrigation give dates when water use would begin and end, e.g. March 1–October 31.)

E. Acreage

If you will be applying water to land, please give the total number of acres where water will be applied or used: 174.09 acres

(This number should be consistent with you application map.)

5. WATER MANAGEMENT

A. Diversion

What equipment will you use to pump water from your well(s)?

☑ Pump (give horsepower and pump type) SEE ATTACHED WELL LOGS / 25 hp each (2 SUBMERSIBLES

☐ Other means (describe) _____

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SALEM, OR

B. Transport

How will you transport water to your place of use?

☐ Ditch or canal (give average width and depth)

Width _____ Depth _____

Is the ditch or canal to be lined? ☐ Yes ☐ No

☑ Pipe (give diameter and total length)

Diameter 4" MAINLINE Length (2) QUARTER MILE MAINLINES INTO HAND LINES, then 18" RISERS.

☐ Other (describe) _____

C. Application/Distribution Method

What equipment will you use to apply water to your place of use? Low Head Sprinklers.

Irrigation or land application method (check all that apply):

- ☐ Flood
- ☐ High-pressure sprinkler
- ☑ Low pressure sprinkler
- ☐ Drip
- ☐ Water cannons
- ☐ Center pivot system
- ☑ Hand lines
- ☐ Wheel lines
- ☐ Siphon tubes or gated pipe with furrows
- ☐ Other, describe_____

Distribution method

- ☑ Direct pipe from source
- ☐ In-line storage (tank or pond)
- ☐ Open canal

D. Conservation

What methods will you use to conserve water? Why did you choose this distribution or application method? For example, if you are using sprinkler irrigation rather than drip irrigation, explain. If you need additional space, attach a separate sheet.

Hand lines.

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JUL 25 2001
WATER RESOURCES DEPT
SALEM, OR

6. PROJECT SCHEDULE

Indicate the anticipated dates that the following construction tasks should begin. If construction has already begun, or is completed, please indicate that date.

Proposed date construction will begin 1 August 2001

Proposed date construction will be completed 1 August 2001

Proposed date beneficial water use will begin 1 August 2001

7. REMARKS

If you would like to clarify any information you have provided in the application, please do so here and reference the specific application question you are addressing.

We apply here for 89 acres of Agriculture use @ 2.5 AF/ac for all lands irrigated under permit 16827 (certificate 20401) = 222.5 AF.
And we apply for 85.09 acres of Nursery use @ 5 AF/ac = 425.45 AF.

Application No. 91567
Permit No.

8. MAP REQUIREMENTS

The Department cannot process your application without accurate information showing the source of water and location of water use. You must include a map with this application form that clearly indicates the township, range, section, and quarter/quarter section of the proposed well location and place of use. The map must provide tax lot numbers. See the map guidelines sheet for detailed map specifications.

9. SIGNATURE

By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application packet.
- I cannot legally use water until the Water Resources Department issues a permit to me.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be canceled.
- The water use must be compatible with local comprehensive land use plans.
- Even if the Department issues a permit to me, I may have to stop using water to allow senior water right holders to get water they are entitled to, and

I swear that all information provided in this application is true and correct to the best of my knowledge:

A. Joel Nuschwander — 25 July 2001

Signature of Applicant — Date

Signature of Co-applicant — Date

RECEIVED
JUL 25 2001
WATER RESOURCES DEPT
SALEM, OR

Before you submit your application be sure you have:

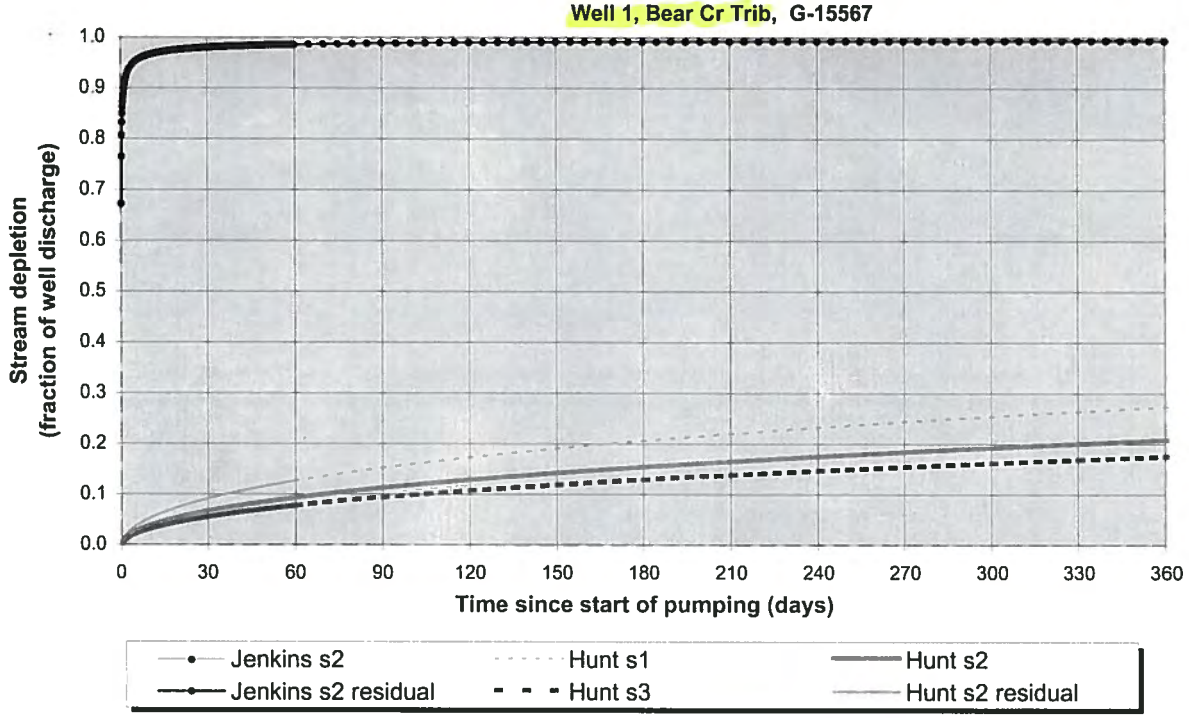
- Answered each question completely.
- Attached a legible map which includes township, range, section, quarter/quarter and tax lot number.
- Included a Land Use Information Form or receipt stub signed by a local official.
- Included the legal description of all the property involved with this application. You may supply a copy of the deed, land sales contract, or title insurance policy, to meet this requirement.
- Included a check payable to the Oregon Water Resources Department for the appropriate amount.

Total trib impact = 0.50 cfs

0.35 cfs @ 1000 days

Transient Stream Depletion (Jenkins, 1970; Hunt, 1999)

Well 1, Bear Cr Trib, G-15567



Output for Hunt Stream Depletion, Scenerio 2 (s2): **Time pump on = 1000 days**

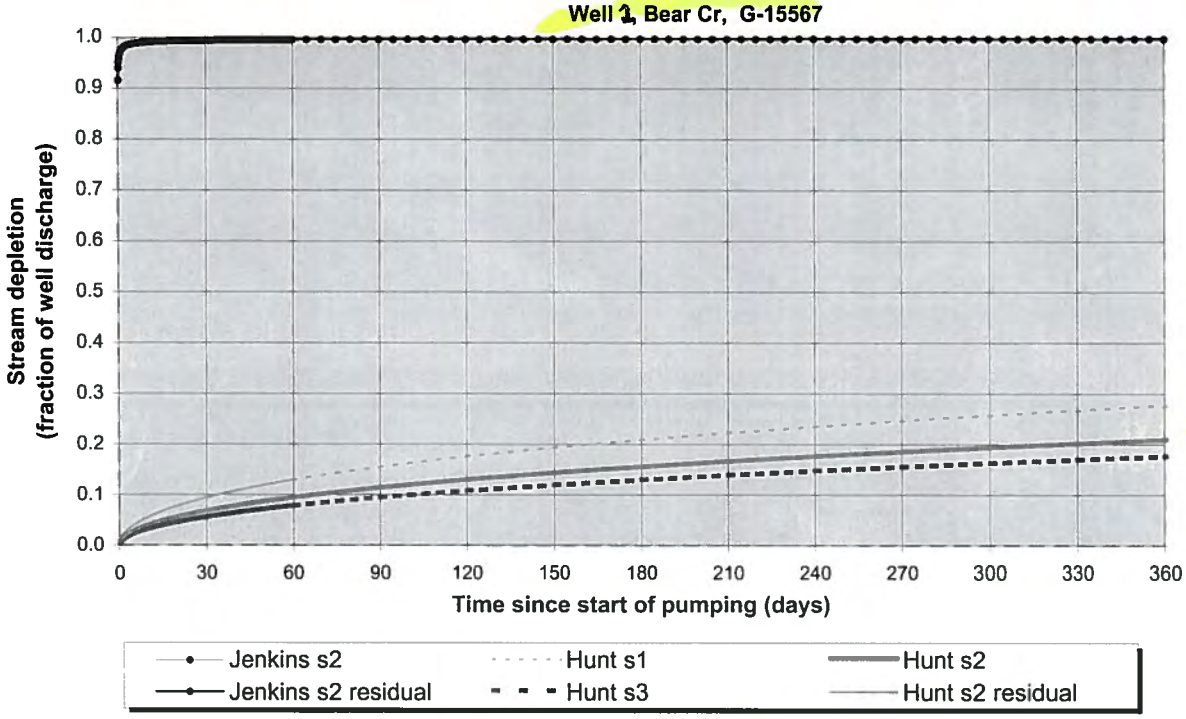
Days	30	60	90	120	150	180	210	240	270	300	330	360
Hunt SD s2	0.0670	0.0934	0.1129	0.1288	0.1425	0.1545	0.1654	0.1753	0.1844	0.1929	0.2008	0.2083
Qw, cfs	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114
H SD s2, cfs	0.075	0.104	0.126	0.144	0.159	0.172	0.184	0.195	0.205	0.215	0.224	0.232

Parameters:		**Scenario 1**	**Scenario 2**	**Scenario 3**	**Units**
Net steady pumping rate	Qw	500	500	500	gpm
Distance to stream	a	1000	1000	1000	ft
Aquifer hydraulic conductivity	K	20	40	60	ft/day
Aquifer thickness	b	70	70	70	ft
Aquifer transmissivity	T	1400	2800	4200	ft*ft/day
Aquifer storage coefficient	S	0.0001	0.0001	0.0001	
Stream width	ws	10	10	10	ft
Streambed hydraulic conductivity	Ks	0.01	0.01	0.01	ft/day
Streambed thickness	bs	8	8	8	ft
Streambed conductance	sbc	0.0125	0.0125	0.0125	ft/day
Stream depletion factor (Jenkins)	sdf	0.071428571	0.035714286	0.023809524	days
Streambed factor (Hunt)	sbf	0.008928571	0.004464286	0.00297619	

Tr 3

Transient Stream Depletion (Jenkins, 1970; Hunt, 1999)

Well 1, Bear Cr, G-15567



0.15 cfs @ 1000 d

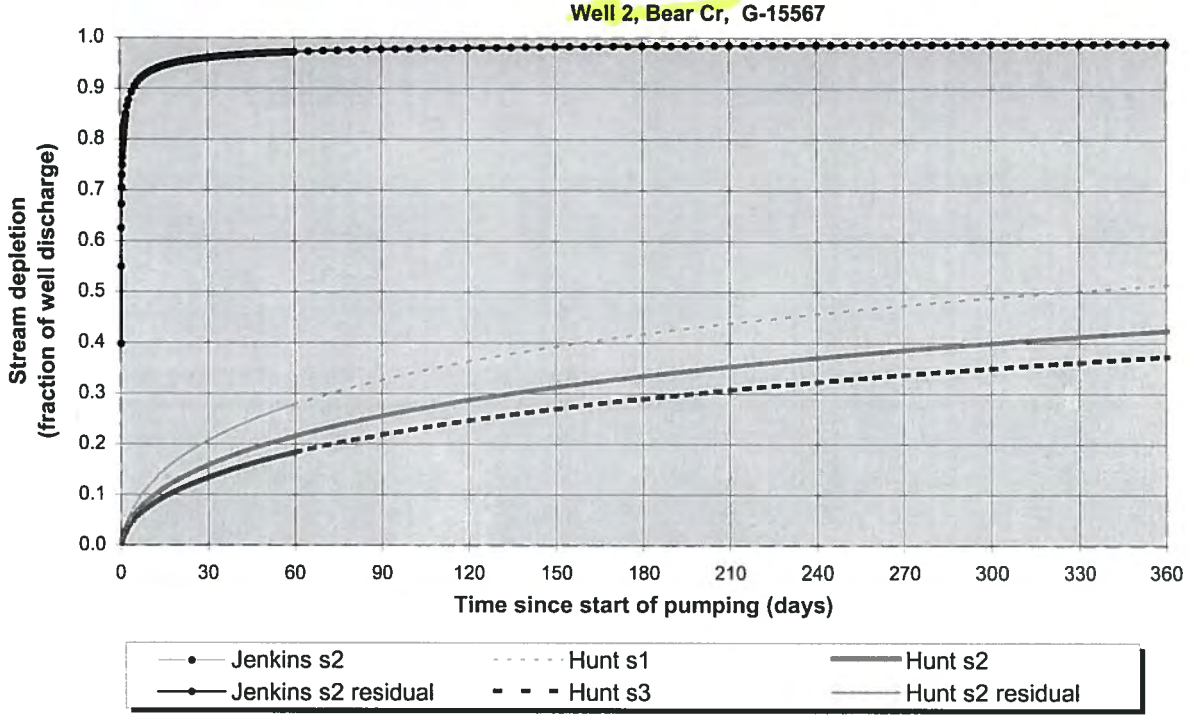
Output for Hunt Stream Depletion, Scenerio 2 (s2): **Time pump on = 1000 days**

Days	30	60	90	120	150	180	210	240	270	300	330	360
Hunt SD s2	0.0685	0.0949	0.1144	0.1303	0.1439	0.1559	0.1668	0.1766	0.1857	0.1942	0.2021	0.2096
Qw, cfs	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490
H SD s2, cfs	0.034	0.047	0.056	0.064	0.071	0.076	0.082	0.087	0.091	0.095	0.099	0.103

Parameters:		**Scenario 1**	**Scenario 2**	**Scenario 3**	**Units**
Net steady pumping rate	Qw	220	220	220	gpm
Distance to stream	a	250	250	250	ft
Aquifer hydraulic conductivity	K	20	40	60	ft/day
Aquifer thickness	b	70	70	70	ft
Aquifer transmissivity	T	1400	2800	4200	ft*ft/day
Aquifer storage coefficient	S	0.0001	0.0001	0.0001	
Stream width	ws	10	10	10	ft
Streambed hydraulic conductivity	Ks	0.01	0.01	0.01	ft/day
Streambed thickness	bs	8	8	8	ft
Streambed conductance	sbc	0.0125	0.0125	0.0125	ft/day
Stream depletion factor (Jenkins)	sdf	0.004464286	0.002232143	0.001488095	days
Streambed factor (Hunt)	sbf	0.002232143	0.001116071	0.000744048	

Transient Stream Depletion (Jenkins, 1970; Hunt, 1999)

Well 2, Bear Cr, G-15567



0.31 cfs @ 1000 days

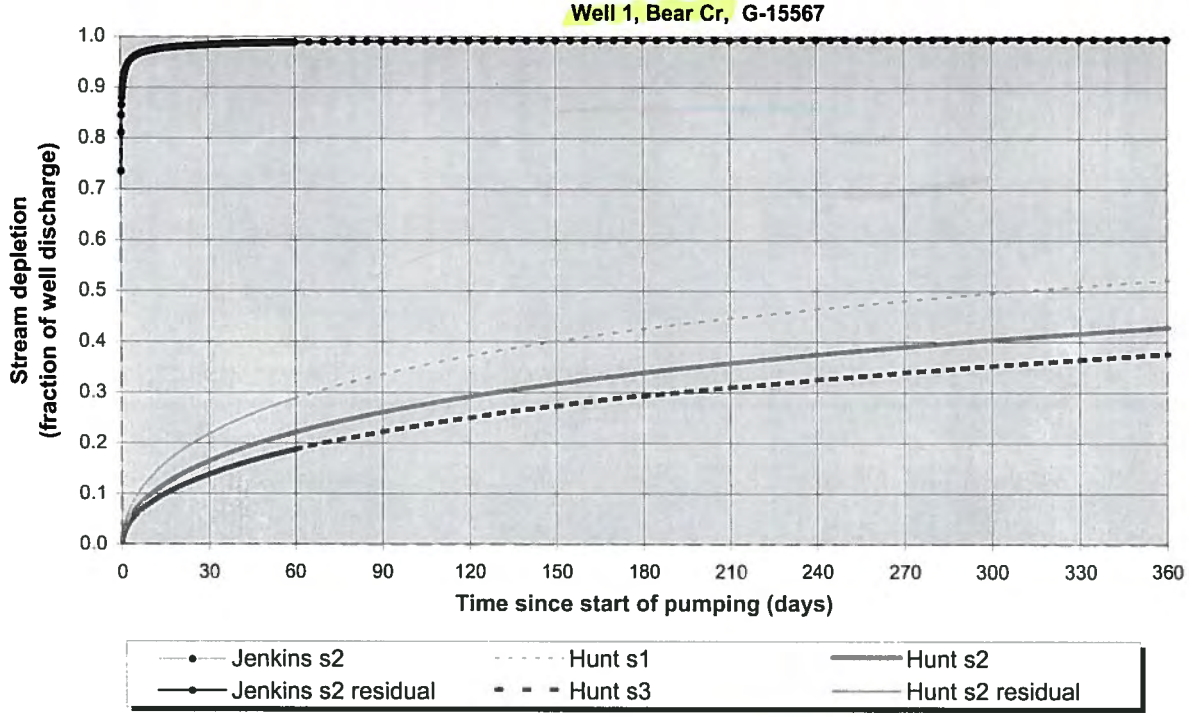
Output for Hunt Stream Depletion, Scenerio 2 (s2): **Time pump on = 1000 days**

Days	30	60	90	120	150	180	210	240	270	300	330	360
Hunt SD s2	0.1586	0.2160	0.2559	0.2870	0.3127	0.3346	0.3537	0.3707	0.3860	0.3999	0.4126	0.4244
Qw, cfs	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490
H SD s2, cfs	0.078	0.106	0.125	0.141	0.153	0.164	0.173	0.182	0.189	0.196	0.202	0.208

Parameters:		**Scenario 1**	**Scenario 2**	**Scenario 3**	**Units**
Net steady pumping rate	Qw	220	220	220	gpm
Distance to stream	a	2000	2000	2000	ft
Aquifer hydraulic conductivity	K	20	40	60	ft/day
Aquifer thickness	b	70	70	70	ft
Aquifer transmissivity	T	1400	2800	4200	ft*ft/day
Aquifer storage coefficient	S	0.0001	0.0001	0.0001	
Stream width	ws	10	10	10	ft
Streambed hydraulic conductivity	Ks	0.01	0.01	0.01	ft/day
Streambed thickness	bs	3	3	3	ft
Streambed conductance	sbc	0.033333333	0.033333333	0.033333333	ft/day
Stream depletion factor (Jenkins)	sdf	0.285714286	0.142857143	0.095238095	days
Streambed factor (Hunt)	sbf	0.047619048	0.023809524	0.015873016	

Transient Stream Depletion (Jenkins, 1970; Hunt, 1999)

Well 1, Bear Cr, G-15567



Total Br Cr impact = 0.9 cfs

0.63 cfs @ 1000 days

Output for Hunt Stream Depletion, Scenerio 2 (s2): **Time pump on = 1000 days**

Days	30	60	90	120	150	180	210	240	270	300	330	360
Hunt SD s2	0.1644	0.2215	0.2611	0.2920	0.3175	0.3392	0.3582	0.3751	0.3903	0.4041	0.4168	0.4284
Qw, cfs	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114
H SD s2, cfs	0.183	0.247	0.291	0.325	0.354	0.378	0.399	0.418	0.435	0.450	0.464	0.477

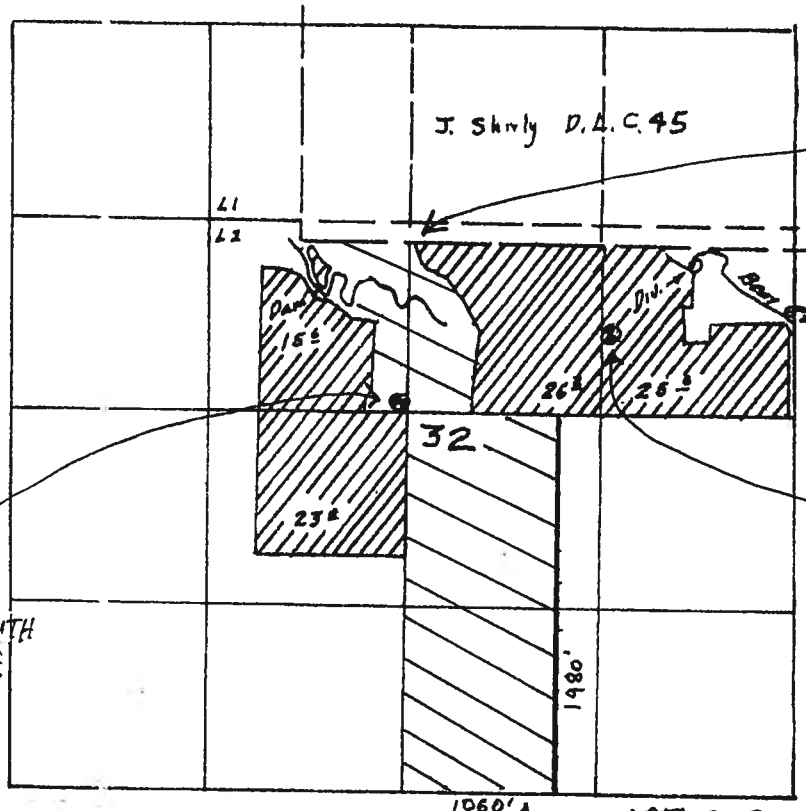
Parameters:		**Scenario 1**	**Scenario 2**	**Scenario 3**	**Units**
Net steady pumping rate	Qw	500	500	500	gpm
Distance to stream	a	800	800	800	ft
Aquifer hydraulic conductivity	K	20	40	60	ft/day
Aquifer thickness	b	70	70	70	ft
Aquifer transmissivity	T	1400	2800	4200	ft*ft/day
Aquifer storage coefficient	S	0.0001	0.0001	0.0001	
Stream width	ws	10	10	10	ft
Streambed hydraulic conductivity	Ks	0.01	0.01	0.01	ft/day
Streambed thickness	bs	3	3	3	ft
Streambed conductance	sbc	0.033333333	0.033333333	0.033333333	ft/day
Stream depletion factor (Jenkins)	sdf	0.045714286	0.022857143	0.015238095	days
Streambed factor (Hunt)	sbf	0.019047619	0.00952381	0.006349206	

APPLICANT:
JOEL NEUSCHWANDER
6097 S. WHISKEY HILL Rd.
HUBBARD, OR 97032
(503) 651-3253

T. 4 S., R. 1 E., W.M.
SECTION 32

N

(1" = 1320')



AREA TO BE IRRIGATED IN TAX LOT 900:
13.8 acres in SW1/4 NE1/4
Plus 24.4 acres in SE1/4 NW1/4.
TOTAL: 37.4 acres

WELL No. 1 is 1,250' from the EAST LINE of the SECTION (32) AND 550' from the SOUTH LINE of the SE1/4 NE1/4 Sec. 32.

WELL No. 2 is 50' WEST & 50' SOUTH of the SE CORNER of the NW1/4 of SECTION 32.

AREA TO BE IRRIGATED IN TAX LOT 1401:
47.69 acres ⇒ 23.845 ac in NW1/4 SE1/4; AND 23.845 ac. in ~~NW1/4 SW1/4~~ SE1/4

Application No. G-15567
Permit No.

= 89 acres: LANDS IRRIGATED UNDER CERTIFICATE 20401 (PERMIT No. 16827) (APP. No. 21449)

= LANDS TO BE IRRIGATED UNDER PERMIT G-15567 WITH THIS APPLICATION.
85.39 acres.

[redacted]

INCLUDING: App. No 21449 Permit No. 16827
IN NAME OF
I. R. Hanson

Surveyed July 8 1963 by H. L. Coffman

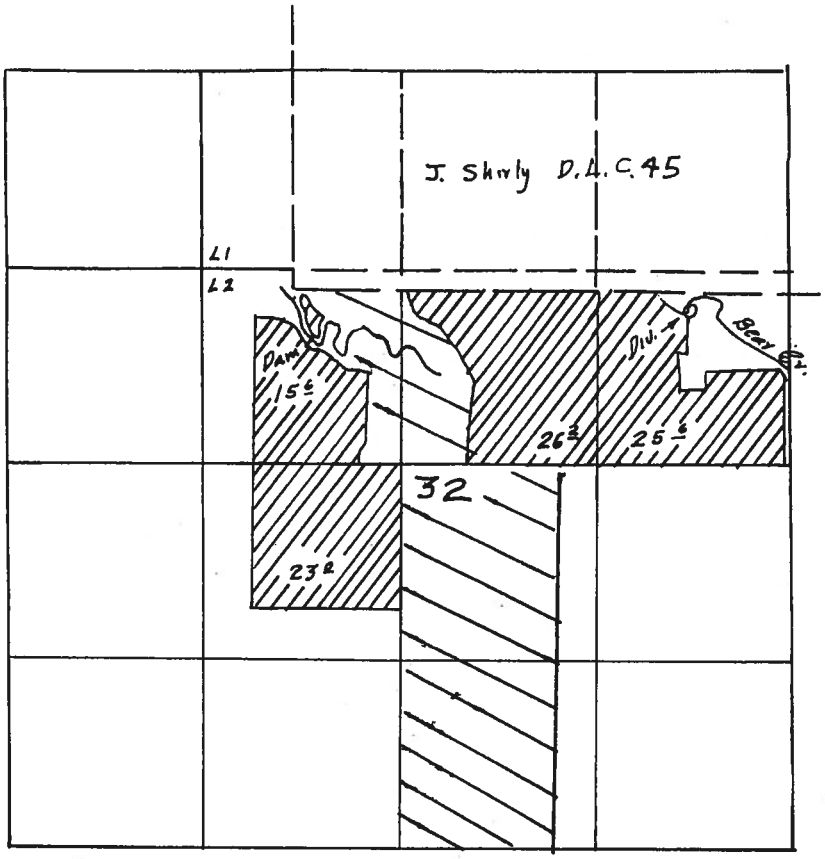
AND NEW LANDS.

[redacted]

RECEIVED
JUL 25 2001
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SALEM, OR

Copied by LL

T. 4 S., R. 1 E., W.M.



BLUE LINES: New acreage under application G-15567.

BLACK LINES: Acreage under Certificate 20401

FINAL PROOF SURVEY
UNDER

App. No 21449 Permit No. 16827
IN NAME OF

I. R. Hanson

Surveyed July 8 1963 by H. L. Coffman

DFK-30-22

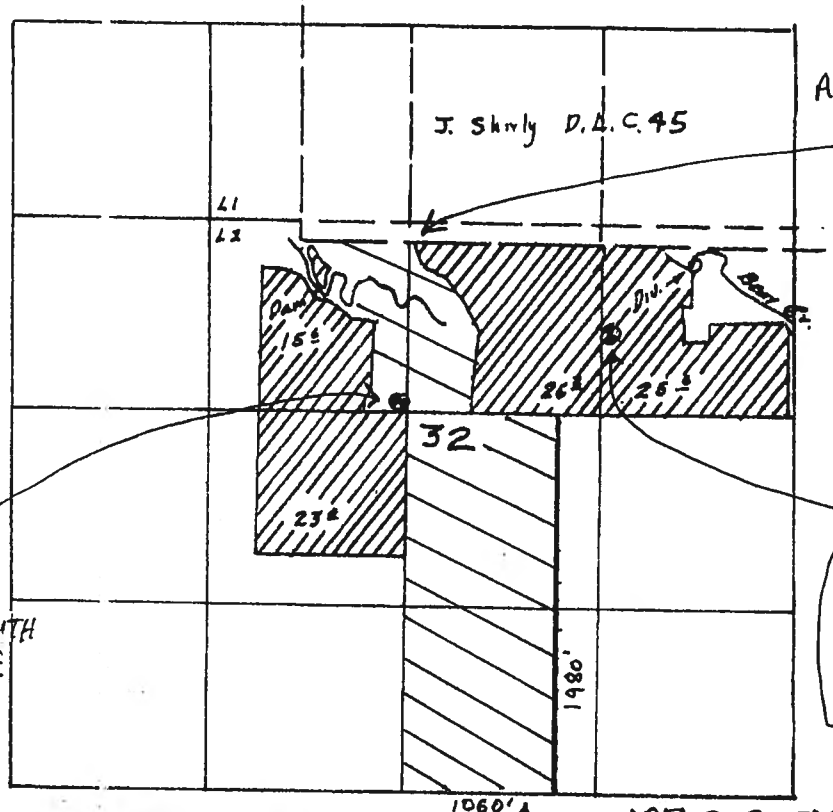
Copied by L

APPLICANT:
JOEL NEUSCHWANDER
6097 S. WHISKEY HILL Rd.
HUBBARD, OR 97032
(503) 651-3253

T. 4 S., R. 1 E., W.M.
SECTION 32

N

(1" = 1320')



AREA TO BE IRRIGATED IN TAX LOT 900:
13.8 acres in SW1/4 NE1/4
PLUS 24.4 acres in SE1/4 NW1/4.
TOTAL: 37.4 acres

WELL No. 1 is 1,250' from the EAST LINE of the SECTION (32) AND 550' from the SOUTH LINE of the SE1/4 NE1/4 Sec. 32.

WELL No. 2 is 50' WEST & 50' SOUTH of the SE CORNER of the NW1/4 of SECTION 32.

AREA TO BE IRRIGATED IN TAX LOT 1401:
47.69 acres ⇒ 23.845 ac in NW1/4 SE1/4; AND 23.845 ac. in SW1/4 SE1/4

Application No. G-15567
Permit No.

= 89 acres: LANDS IRRIGATED UNDER CERTIFICATE 20401 (PERMIT No. 16827) (APP. No. 21449)

= LANDS TO BE IRRIGATED UNDER PERMIT G-15567 WITH THIS APPLICATION.
85.09 acres.

[redacted]

INCLUDING: App. No 21449 Permit No. 16827
IN NAME OF
I. R. Hanson

Surveyed July 8 1963 by H. L. Coffman

AND NEW LANDS.

[redacted]

RECEIVED
JUL 25 2001
WATER RESOURCES DEPT
SALEM, OR

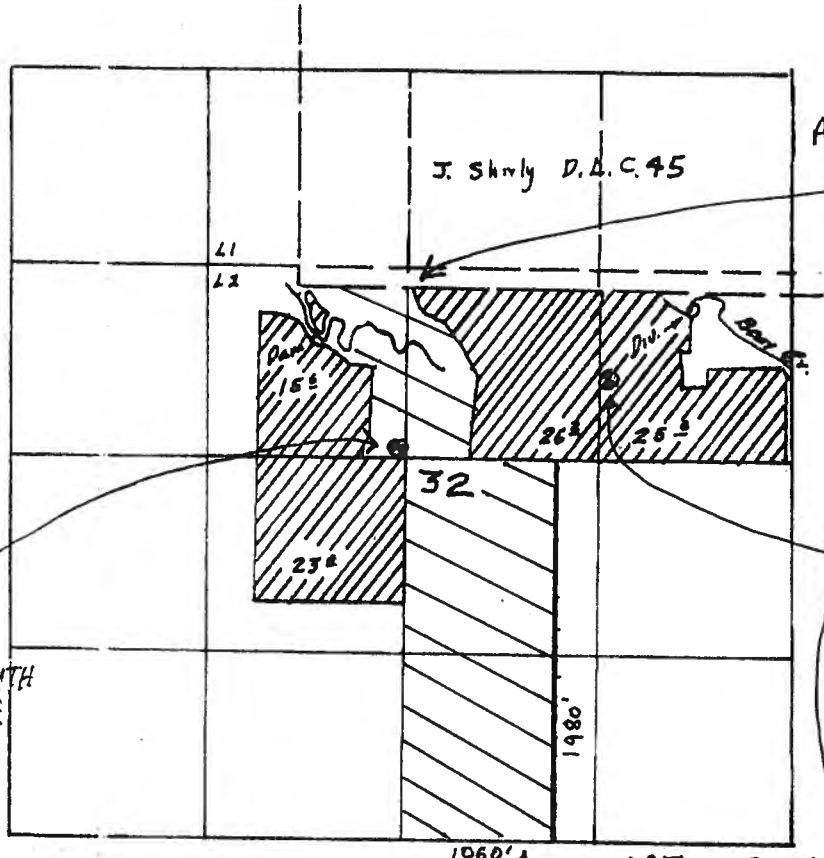
copied by LL

APPLICANT:
JOEL NEUSCHWANDER
6097 S. WHISKEY HILL Rd.
HUBBARD, OR 97032
(503) 651-3253

T. 4 S., R. 1 E., W.M.
SECTION 32

N

(1" = 1320')



AREA TO BE IRRIGATED IN TAX LOT 900:
13.8 acres in 3W1/4 NE1/4
Plus 24.4 acres in SE1/4 NW1/4.
TOTAL: 37.4 acres

WELL No. 1 is 1,250' from the EAST LINE of the SECTION (32), AND 550' from the SOUTH LINE of the SE1/4 NE1/4 Sec. 32.

WELL No. 2 is 50' WEST & 50' SOUTH of the SE CORNER of the NW1/4 of SECTION 32.

AREA TO BE IRRIGATED IN TAX LOT 1401:
47.69 acres ⇒ 23.845 ac in NW1/4 SE1/4; AND 23.845 ac. in ~~SW1/4 SE1/4~~

Application No. G-15567
Permit No.

= 89 acres: LANDS IRRIGATED UNDER CERTIFICATE 20401 (PERMIT No. 16827) (APP. No. 21449)

= LANDS TO BE IRRIGATED UNDER PERMIT G-15567 WITH THIS APPLICATION.
85.89 acres.

[redacted]

INCLUDING: App. No 21449 Permit No. 16827
IN NAME OF
I. R. Hanson

Surveyed July 8 1963 by H. L. Coffman

AND NEW LANDS.

[redacted]

RECEIVED
JUL 25 2001
WATER RESOURCES DEPT
SALEM, OR

copied by L

FO CHECKLIST

PFO TO FO CONVERSION

FILE # G-15567
PFO WEEK # 350
FO WEEK # 366

REVIEW DATE: 2/24/03
INITIALS: JWG
WM District: 16
Region Mgr: NW
ODFW Bio: D. Caldwell

Y / (N) Has applicant name and/or address changed; or has the file been assigned?

If new: _____

In preparing to create the FO, you should check the following:

1. (Y) / N Were comments received? If so, **from whom and when?** Info to Enforcement/GW
   Respond to significant comments, issues, or disputes related to the proposed use of water (see notes, if any, listed above)

2. ✓ On the PFO CC list, verify names and mailing addresses of ALL commentors (regardless of comment date, affected landowners, and those who paid the $10 fee.
   Scott Ashcom, PO Box 4323, Portland OR 97208 / Malia Kupillas - CWRE #

3. Y / N / (NA) Have affected land owners been notified? If not, refer to #8.

4. Y / N / (NA) Has ODFW asked for self certification of screening condition? If yes, include fish screening form.

5. ✓ Correct PFO errors (such as POD or POU location (verify from map)

6. yes Are requested GW conditions included in permit? If no, add condition(s): _____

7. ✓ Verify Payment of recording fees (*circle the appropriate option*)

   (1) Issue FO w/permit if fees are paid — Prepare refund request for excess fees, **including standing fees if no protest is filed and no modifications are being made to the PFO.**

   (2) Issue FO w/o permit if fees are lacking.

1.6 CFS

1st CFS/AF	150
Addnl.	75
TOTAL Q	225

Exam Fee Paid	250
Q fee	225
Subtotal	475
Recording Fee	175
Total	650
Amount Paid	575
Amount due/refund	$ 75

8. (Y) / N Is further processing possible? If not state reason: _____

FO Type: (circle types) DENIAL

FO w/o PERMIT (REASON: Lacks Fees Lacks Easement Lacks Approved Dam Plans and Specifications)

FO & PERMIT (Permit # _____)

Once FO document is completed:

9. ✓ Save WordPerfect document in S:\GROUPS\WR\FO\WEEK 366.

10. ✓ Print final draft of document and submit for peer review. Peer Reviewer: Kerry 2/25/03

11. Complete routing list

The purpose of this checklist is to be used as a working document by Department staff to aid in the production of the related Initial Review, Proposed Final Order, or Final Order. It is not intended to be a complete record of all factors which were considered to produce the document, nor is it intended to serve any purpose other than that stated above.

The related Initial Review, Proposed Final Order, or Final Order is intended to stand alone as the record of factors considered in its production

PFO CHECKLIST

Application #: G 15567

County CLACKAMAS Basin: 2-W. Willamette

Township 4S Range 1E Section 32 1/4 1/4 see map

1. **Shortcomings** preventing PFO, FO, or permit? **Y / N** Should process continue **Y / N**

Deny

2. **Groundwater Review** *A* **B C D** River/Stream Name _____
   a. Groundwater Availability **A** *B* **C**
   b. Is second groundwater review complete? **Y / N** necessary? **Y / N**
   c. Is the well located in a GWLA or CA? **Y / N** (If Y or close include map of POD) Area _____

3. Is use from **BOR** / Doug Co. project? **Y / N** Contract in file? **N** / Contract # _____

4. Is the use allowed by the **Basin Program**? **Y / N** Limited? **Y / N** _____

5. Water Availability Data **OK / REDONE / NA** (80% live flow & 50% storage) _____

6. Is the source **withdrawn** or limited by statute or Department order? **Y / N** State Engineer

7. Is the Proposed Use located in or above a **SWW**? **Y / N** _____

8. **Division 33**: **Y / N / NA** Above Bonn (after July 17, 1992) **Y / N** Limit to April 15 - September 30 **Y / N**
   Below Bonn (after April 8, 1994; June 3, 1994) **Y / N** add PISPC **Y / N**
   Statewide - (in shaded areas on T, E, and S Map - after June 3, 1994) **Y / N**

9. IR identifies as on DEQ **303d** List? **Y / N / NA** Comments received? **Y / N**

10. Rate_____ Duty_____ **Season**: Normal _____ Req _____

Deny

11. **Rate**: Max _____ Req _____

12. **Small** (≤0.1cfs, ≤9.2AF), **Medium** (>0.1 or <1.5cfs, >9.2 or <100AF) or **Large** (≥1.5 cfs, ≥100 AF)
    condition **7I** and **municipal** require the **Large** condition

13. **Conditions** _____
    New River Basin or Bonanza? **Y / N / NA** (see M:\groups\wr\pfo\findings & other lang)

14. **IR** Date 2/1/02 Public Notice Date 2/19/02 Comment Rec'd NC

15. Filed after **10/23/99**? **Y / N** (if Y A date should be removed)

16. Watermaster Dist: (1 2 16 18 20 - NWR) (3 4 5 21 - NCR) (6 8 9 10 - ER) (11 12 17 - SCR) (13 14 15 19 - SWR)

17. CWRE, representatives or Property owners to notify? **Y / N** _____

summary:

initials: JWG Date: 4/1/02

IR CHECKLIST

Diversion Info: Application #: G 15567
County CLACKAMAS Basin: 2 - Willamette WID: 151
Township 4S Range 1E Section 32 1/4 1/4 SW NE / NW SE / SE NE / SW SE / SE NW / NE SW

__2. **Groundwater Review**
__a. PSI (A) B C D River/Stream Name Bear Creek & Tributary
__b. Groundwater **Availability** A B (C)
__c. Is the well located in a GWLA or CGWA? (Y) / N (If in an area include map showing POD)

__3. Is the well located in **T1N R3E** Sec 20, 21, 28, 29 Y / (N)

__6. Allowed under **Basin Program** Y / N Limitations? Y / N _____

__7. **Withdrawn?** (Y) / N season allowed _____

__5. SWW Y / (N) (if Y notify state parks) _____

__9. Water **Availability** (80% live flow / 50% storage) NA Hydra Connected. 11/1 - 5/1 - at 80%.

__14. DIVISION 33 (Y) / N / ~~(N)~~ - hydra connected Above Bonn Y / N (7/17/92) (Below Bonn Y) / N (4/8/94) Statewide Y / N (6/3/94) map date _____

__10. **Rate/Duty/Season** Requested NURSERY USE - 174.09 AC / 1.6 CFS / Yr-Round
Allowable ~~NURSERY USE - 174.09AC / 11/1 - 5/31 - Water Avail.~~ | Withdrawn Hydra connected

__13. B.O.R. or Doug Co. project Y / (N) **contract #** _____

__17. **Condition** S(≤0.1,≤9.2),M(≥.0.1 or ≤1.5 CFS, or ≥9.2 or ≤100AF),(L(≥1.5,≥100), BOR GW, etc. (Y) / N 7E

__18. **Land use** approval (OK'd) needs approval county notified NA

__19. Watermaster **Dist:** (1 2 (16) 18 20 - NWR) (3 4 5 21 - NCR) (6 8 9 10 - ER) (11 12 17 - SCR) (13 14 15 19 - SWR)

__15. DOA 1010 (Y) / N 303D Y / (N)

__16. Is the use located within Oregon **Streamflow Restoration** Area? Y / (N) / NA

__20. Letter format = =Good= =Limited= (=Bad=) =Bad w/ IRshort= =Bad w/ HC Opportunity

__21. CWRE, representative, etc. to notify? Y / (N)

withdrawn except for storage / appropriation of storage

✓ check map - add acreage on map - ✓ acreage on app?

App - 174.09 Acres / Map annotations = 85.89 -

Name: Jerry Gainey Date: 1-17-02

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The related Initial Review, Proposed Final Order, or Final Order is intended to stand alone as the record of factors considered in its production.

Analysis for Application: G15567

Location: 4.00 S-1.00 E-32-nesw

Uses: NU 23.000 (P)

Basins

BASIN_NUM	BASIN_NAME
2	Willamette

Records Found: 1

WaterMaster Districts

WATERDIST	REGION
16	NW

Records Found: 1

WAB

BASIN	WID	LINK_1
2	151	Water Availability: 50% 80%

Records Found: 1

County

COUNTY	FIPS
Clackamas	41005

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 4.00 S-1.00 E-32-senw

Uses: NU 40.000 (P)

Basins

BASIN_NUM	BASIN_NAME
2	Willamette

Records Found: 1

WaterMaster Districts

WATERDIST	REGION
16	NW

Records Found: 1

WAB

BASIN	WID	LINK_1
2	151	Water Availability: 50% 80%

Records Found: 1

County

COUNTY	FIPS
Clackamas	41005

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 4.00 S-1.00 E-32-swse

Uses: NU 23.850 (P)

Basins

BASIN_NUM	BASIN_NAME
2	Willamette

Records Found: 1

WaterMaster Districts

WATERDIST	REGION
16	NW

Records Found: 1

WAB

BASIN	WID	LINK_1
2	151	Water Availability: 50% 80%

Records Found: 1

County

COUNTY	FIPS
Clackamas	41005

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 4.00 S-1.00 E-32-nwse

Uses: NU 23.850 (P)

Basins

BASIN_NUM	BASIN_NAME
2	Willamette

Records Found: 1

WaterMaster Districts

WATERDIST	REGION
16	NW

Records Found: 1

WAB

BASIN	WID	LINK_1
2	151	Water Availability: 50% 80%

Records Found: 1

County

COUNTY	FIPS
Clackamas	41005

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 4.00 S-1.00 E-32-swne

Uses: NU 40.000 (P)

Basins

BASIN_NUM	BASIN_NAME
2	Willamette

Records Found: 1

WaterMaster Districts

WATERDIST	REGION
16	NW

Records Found: 1

WAB

BASIN	WID	LINK_1
2	151	Water Availability: 50% 80%

Records Found: 1

County

COUNTY	FIPS
Clackamas	41005

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 4.00 S-1.00 E-32-sene

Uses: NU 25.600 (P)

Basins

BASIN_NUM	BASIN_NAME
2	Willamette

Records Found: 1

WaterMaster Districts

WATERDIST	REGION
16	NW

Records Found: 1

WAB

BASIN	WID	LINK_1
2	151	Water Availability: 50% 80%

Records Found: 1

County

COUNTY	FIPS
Clackamas	41005

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

STATE OF OREGON

COUNTY OF CLACKAMAS

CERTIFICATE OF WATER RIGHT

This Is To Certify, *That* I. R. HANSON

of Route 2, Box 340, Canby *, State of* Oregon *, has made proof to the satisfaction of the STATE ENGINEER of Oregon, of a right to the use of the waters of* Bear Creek and an unnamed tributary of Bear Creek, *a tributary of* Pudding River *for the purpose of* irrigation *under Permit No.* 16827 *of the State Engineer, and that said right to the use of said waters has been perfected in accordance with the laws of Oregon; that the priority of the right hereby confirmed dates from* March 4, 1946 ;

that the amount of water to which such right is entitled and hereby confirmed, for the purposes aforesaid, is limited to an amount actually beneficially used for said purposes, and shall not exceed 1.07 cubic foot per second, being 0.65 c.f.s. from Bear Creek and 0.42 c.f.s. from the unnamed stream,

or its equivalent in case of rotation. measured at the point of diversion from the stream. The point of diversion is located From unnamed tributary: in Lot 2 (SE¼ NW¼); From Bear Creek: in Lot 4 (SE¼ NE¼), all being within Section 32, Township 4 South, Range 1 East, W. M.

The amount of water used for irrigation. together with the amount secured under any other right existing for the same lands, shall be limited to one-eightieth *of one cubic foot per second per acre,* or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed 2½ acre feet per acre for each acre irrigated during the irrigation season of each year,

and shall conform to such reasonable rotation system as may be ordered by the proper state officer.

A description of the place of use under the right hereby confirmed, and to which such right is appurtenant, is as follows:

From Bear Creek:
26.2 acres in Lot 3 (SW¼ NE¼)
25.6 acres in Lot 4 (SE¼ NE¼)
Section 32
Township 4 South, Range 1 East, W. M.

From Unnamed Tributary:
14.2 acres in Lot 2 (SE¼ NW¼)
23.0 acres in the NE¼ SW¼
Section 32
Township 4 South, Range 1 East, W. M.

Land on which water is to be used is a part of that more explicitly described by appropriator as follows:

Beginning 237 rods North of the Southeast corner of the Southwest quarter of Section 32, T. 4 S. R. 1 E. of the W.M. running thence West 10.00 rods; thence South 70.00 rods; thence East 10.00 rods; thence North 70.00 rods to the place of beginning. ALSO, beginning at a point 25.00 chains North and 25.00 chains East of the Southwest corner of said Section 32; thence running East 12.50 chains; thence North 32.00 chains; thence West 12.50 chains and thence South 32.00 chains to the place of beginning. ALSO, Lots Three (3) and Four (4) of said Section 32, T. 4 S. R. 1 E. of the W.M., EXCEPT the rights of the public in and to public roads, and EXCEPT the following: Beginning at the Northwest corner of the James Wilson land above described in Section 32, T. 4 S. R. 1 E. of the W.M., thence East 200 feet, more or less, to the East line of a tract of land conveyed to Carl E. Hilton by deed recorded in Book 124 at page 437 of Deed Records of Clackamas County, State of Oregon; thence South along the East line

of said Hilton tract of land, 100 feet, more or less to the Southeast corner thereof; thence West along the South line of said Hilton land 200 feet, more or less to the West line of said James Wilson land; thence North on the West line of said James Wilson land, 100 feet, more or less, to the place of beginning.

The right to the use of the water for the purposes aforesaid is restricted to the lands or place of use herein described.

WITNESS the signature of the State Engineer, affixed

this 30th *day of* April , *19* 54

CHAS. L. STROTH

State Engineer

Recorded in State Record of Water Right Certificates, Volume 15 *, page* 20401

COMMISSION
CHATE HORSE &
LOKON

STREAMS & LAKES

WITHDRAWN BY STATE ENGINEER'S ORDER

CLACKAMAS COUNTY

Corral Creek Vol. 7, Page 226, August 7, 1951	Including tributaries in T. 3 S., R. 1 & 2 W.W.M., except for storage and appropriation of stored water.
Currin Creek Vol. 7, Page 71, September 22, 1950	Including tributaries in the North West part of T. 3 S., R. 4 E., W.M., except for storage and appropriation of stored water.
Hatton Creek Vol. 7, Page 74, September 22, 1950	Including tributaries, in Section 25, T. 2 S., R 2 E.,W.M., and Section 19, T. 2 S., R. 3 E.,W. M., except for storage and appropriation of stored water.
Memaloose Creek & South Fork Clackamas River Vol. 2, Page 129, January 16, 1931	Including tributaries appropriated to the City of Oregon City and West Linn to the exclusion of al[illegible] quent appropriations.
Rock Creek Vol. 7, Page 229, August 13, 1951	Including tributaries, a tr[illegible] of the Pudding River in the [illegible] half of Section 25, T. 4 S. W. M., except for storage a[illegible] priation of stored water.
Wade Creek (also known as Stuby Creek) Vol. 7, Page 368, May 19, 1952	Including tributaries in Se[illegible] 21, 22, 26 and 27, T. 3 S., W.M., except for storage an[illegible] priation of stored water.

COLUMBIA COUNTY

Little Creek Vol. 7, Page 228, August 13, 1951	Including tributaries, in Sections 35 and 36, T. 4 N., R. 2 W.W.M., and Section 1, T. 3 N., R. 2 W. W.M., except for storage and appropriation of stored water.

COOS COUNTY

Ferry Creek and Geiger Creek Vol. 11, Page 137, April 13, 1961	Above confluence of Ferry & Geiger Creeks including tributaries, in Sections 29 and 32, T. 28 S, R. 14 W. W.M., Section 4, 5 & 9, T 29 S, R. 14 W., appropriated by the City of Bandon for municipal use to the exclusion of all subsequent applications.

Deschutes County

natural flows of the Middle Fork Santiam River or its tributaries below 110 cubic feet per second plus waters released from storage of up to 260 cubic feet per second measured at the aforementioned gage;

(b) The South Santiam River or its tributaries above USGS — Corps of Engineers — State Engineer Gage 14187500 (SW 1/4 NW1/4 Section 28, Township 12 South, Range 1 West) at Waterloo, Oregon, for natural flows of the South Santiam River below 170 cubic feet per second plus waters released from storage of up to 930 cubic feet per second measured at the aforementioned gage;

(c) The North Santiam River or its tributaries above USGS Gage 14181500 (NE 1/4 NE 1/4 Section 34, Township 9 South, Range 4 East) at Niagara, Oregon, for natural flows of the North Santiam River below 500 cubic feet per second plus waters released from storage of up to 640 cubic feet per second measured at the aforementioned gage;

(d) The North Santiam River or its tributaries above USGSGage 14183000 (NW 1/4 Section 18, Township 9 South, Range 2 East) at Mehama, Oregon, for natural flows of the North Santiam River below 580 cubic feet per second plus waters released from storage of up to 640 cubic feet per second measured at the aforementioned gage;

(e) The North Santiam River or its tributaries above USGS Gage 14184100 (Section 7, Township 10 South, Range 2 West) near Jefferson, Oregon, for natural flows of the North Santiam River below 430 cubic feet per second plus waters released from storage of up to 640 cubic feet per second measured at the aforementioned gage;

(f) The Santiam River or its tributaries above USGSGage 14189000 (SE 1/4 Section 11, Township 10 South, Range 3 West) at Jefferson, Oregon, for natural flows of the Santiam River below 330 cubic feet per second plus waters released from storage of up to 1,570 cubic feet per second measured at the aforementioned gage;

(g) The Santiam River or its tributaries above the Santiam River — Willamette River confluence for natural flows of the Santiam River below 320 cubic feet per second plus waters released from storage of up to 1,570 cubic feet per second measured at a point between the said confluence and 1.0 miles above said confluence;

(h)The Calapooia River or its tributaries above USGSGage 14172000 (SE1/4 Section 15, Township 14 South, Range 1 West) at Holley, Oregon, for natural flows of the Calapooia River below 30 cubic feet per second plus waters released from storage or up to 340 cubic feet per second measured at the aforementioned gage;

(i) The Calapooia River or its tributaries above USGS Gage 14173500 (NW 1/4 Section 13, Township 11 South, Range 4 West) at Albany, Oregon, for natural flows of the Calapooia River below 20 cubic feet per second plus waters released from storage of up to 340 cubic feet per second measured at the aforementioned gage.

[ED. NOTE: Table 1 referenced in this rule is not printed in the OAR Compilation.Copies may be obtained from the Water Resources Department.]

Stat. Auth.: ORS 536.220, 536.300, 536.310, 536.340, 536.410, 537.170, 537.356 & 537.358
Hist.: WRD 4-1992, f. & cert. ef. 3-13-92; WRD 12-1992, f. & cert. ef. 9-9-92

Molalla River — Pudding River Subbasin

690-502-120 The Molalla — Pudding Subbasin includes the drainage area of the Molalla and Pudding Rivers upstream from the confluence with the Willamette River near Canby. Surface water classification:

(1) The following streams and tributaries are withdrawn from further appropriation except storage:

(a) The North and South Forks of Silver Creek above their confluence are withdrawn from further appropriation for any purpose except use in state parks by act of the Legislature, ORS 538.120;

(b)Drift Creek, a tributary of the Pudding River near river mile 51, is withdrawn from further appropriation by order of the State Engineer dated August 8, 1951;

(c) The unnamed stream flowing through Section 25, Township 5 South, Range 2 West, Willamette Meridian and Sections 29, 30 and 32, Township 5 South, Range 1 West, Willamette Meridian, tributary to the Pudding River near river mile 31, is withdrawn from further appropriation by order of the State Engineer dated July 25, 1951;

(d) The unnamed stream flowing through Sections 4, 9 and 10, Township 7 South, Range 1 West, Willamette Meridian, a tributary to Brush Creek near Silverton, is withdrawn from further appropriation by order of the State Engineer dated September 22, 1950;

(e) Rock Creek, tributary to the Pudding River near river mile 12, is withdrawn from further appropriation by order of the State Engineer dated August 13, 1951.

(2) The Molalla River and tributaries, except the Pudding River and tributaries, are classified for domestic, livestock, irrigation, municipal, industrial, agricultural, commercial, power, mining, recreation, fish life, wildlife, pollution abatement, wetland enhancement and public instream uses from November 1 through May 31, and only for domestic, commercial use for customarily domestic purposes not to exceed 0.01 cfs, livestock and public instream uses from June 1 through October 31.

(3) The following streams and tributaries are classified year-round for domestic, commercial use for customarily domestic purposes not to exceed 0.01 cfs, livestock and public instream uses only:

(a) Molalla River and Table Rock Fork above their confluence near river mile 40;

(b) Gawley Creek tributary to Molalla River;

(c) Pine Creek tributary to Molalla River;

(d) Trout Creek tributary to Molalla River;

(e) North Fork Molalla River tributary to Molalla River;

(f) Cedar Creek tributary to the Molalla River near river mile 24;

(g) Dickey Creek tributary to Molalla River;

(h)Milk Creek, and Cedar Creek above their confluence near Union Mills tributary to Molalla River;

(i) Gribble Creek tributary to Molalla River;

(j) Ogle Creek tributary to Molalla River.

(4) The Pudding River main stem is classified for domestic, livestock, irrigation, municipal, industrial, agricultural, commercial, power, mining, fish life, wildlife, recreation, pollution abatement, wetland enhancement and public instream uses from October 1 through April 30 and only for domestic, commercial use for customarily domestic purposes not to exceed 0.01 cfs, livestock and public instream uses from May 1 through September 30.

(5) Except as specified in this section, the tributaries of the Pudding River are classified for domestic, livestock, irrigation, municipal, industrial, agricultural, commercial, power, mining, fish life, wildlife, recreation, pollution abatement, wetland enhancement and public instream uses from November 1 through April 30 and only for domestic, commercial use for customarily domestic purposes not to exceed 0.01 cfs, livestock and public instream uses from May 1 through October 31.

(6) The following streams and tributaries are classified for domestic, livestock, irrigation, municipal, industrial, agricultural, commercial, power, mining, fish life, wildlife, recreation, pollution abatement, wetland enhancement and public instream uses from December 1 through April 30, and only for domestic, commercial use for customarily domestic purposes not to exceed 0.01 cfs, livestock and public instream uses from May 1 through November 30:

(a) Butte Creek tributary to Pudding River;
(b) Abiqua Creek tributary to Pudding River.

Stat. Auth.: ORS 536.220, 536.300, 536.310, 536.340, 536.410, 537.170, 537.356 & 537.358
Hist.: WRD 4-1992, f. & cert. ef. 3-13-92; WRD 12-1992, f. & cert. ef. 9-9-92

Tualatin River Subbasin

690-502-130 The Tualatin subbasin includes the drainage area of the Tualatin River upstream from the confluence with the Willamette River near West Linn:

(1) Surface water classification:

(a) The following streams and tributaries are withdrawn from further appropriation except for storage, unless otherwise indicated, by order of the State Engineer on the specified dates:

(A) Unnamed stream flowing through Sections 10, 15, and 21, Township 1 South, Range 3 West, Willamette Meridian, tributary to the Tualatin River, by order dated August 13, 1951;

(B) Unnamed stream flowing through Sections 32, 33, 34 and 35, Township 1 North, Range 3 West, Willamette Meridian, tributary to Dairy Creek, by order dated July 25, 1951;

(C) Unnamed stream, known locally as Burris Creek, flowing through northeast part of Township 2 South, Range 3 West, Willamette Meridian, and Sections 5 and 6, Township 2 South, Range 2 West, Willamette Meridian, tributary to the Tualatin River, by order dated July 25, 1951;

(D) Unnamed stream flowing in the south part of Township 1 South, Range 2 West, Willamette Meridian, tributary to the Tualatin River, by order dated August 4, 1950;

(E) Unnamed stream flowing through Sections 19, 29, 30, 31 and 32, Township 1 South, Range 3 West, Willamette Meridian, tributary to the Tualatin River, by order dated August 8, 1950;

(F) Clear Creek and Iler Creek west of the north-south line between Township 1 North, Ranges 4 and 5 West, being tributaries to Gales Creek for the exclusive use of the City of Forest Grove under permit 12034, by order dated March 2, 1936;

(G) Unnamed branch of Clear Creek within Sections 18, 19, 29 and 30, Township 1 North, Range 4 West, Willamette Meridian, for the exclusive of the City of Forest Grove under permit 13944 by order dated October 19, 1939.

(b) Except as specified in subsections (a) and (c) of this section, the Tualatin River and tributaries are classified for domestic, livestock, municipal, irrigation, industrial, agricultural, commercial, power in conjunction with storage, fish life, wildlife, recreation, pollution abatement, wetland enhancement and public instream uses from November 1 through April 30, and only for domestic, commercial use for customarily domestic purposes not to exceed 0.01 cfs, livestock, wetland enhancement and public instream uses from May 1 through October 31;

(c) The following streams and tributaries are classified year-round only for domestic, commercial use for customarily domestic purposes not to exceed 0.01 cfs, livestock and public instream uses:

(A) McFee Creek tributary to Tualatin River;
(B)Gales Creek tributary to Tualatin River;
(C) East Fork of Dairy Creek tributary to Dairy Creek;
(D) McKay Creek tributary to Dairy Creek;
(E) Scoggins Creek tributary to Tualatin River.

(2) For the purpose of maintaining a minimum perennial streamflow sufficient to support aquatic life and to minimize pollution and of attaining the highest and best use of waters released from storage, no appropriations of water except for



Water Availability for WID 151

jump to:
- home
- commission
- water law
- water rights
- surface water
- ground water
- maps
- programs
- publications
- links
- staff
- file pickup
- intranet

- about
- search
- oregon online
- comments

WATER AVAILABILITY TABLE
Water Availability as of 1/ 1/**** for
PUDDING R > MOLALLA R - AB MILL CR

Watershed ID #: 151 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

Select an Item Number for More Details

Item #	Watershed ID #	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Sto
1	181	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
2	69796	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO	YES	YES	YES
3	69998	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO	YES	YES	YES
4	151	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO	YES	YES	YES

STREAM NAMES
Water Availability as of 1/ 1/**** for
PUDDING R > MOLALLA R - AB MILL CR

Watershed ID #: 151 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

Item	Watershed ID	Stream Name
1	181	WILLAMETTE R > COLUMBIA R - AT MOUTH
2	69796	MOLALLA R > WILLAMETTE R - AT MOUTH
3	69998	PUDDING R > MOLALLA R - AT MOUTH
4	151	PUDDING R > MOLALLA R - AB MILL CR

LIMITING WATERSHEDS
Water Availability as of 1/ 1/**** for
PUDDING R > MOLALLA R - AB MILL CR

Watershed ID #: 151 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

Mnth	Limiting Watershed	Stream Name	Water Avail?	Net Water Available

1	151	PUDDING R > MOLALLA R - AB MILL CR	YES	933.0
2	151	PUDDING R > MOLALLA R - AB MILL CR	YES	1080.0
3	151	PUDDING R > MOLALLA R - AB MILL CR	YES	931.0
4	151	PUDDING R > MOLALLA R - AB MILL CR	YES	711.0
5	69998	PUDDING R > MOLALLA R - AT MOUTH	YES	322.0
6	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	NO	-169.0
7	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	NO	-160.0
8	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	NO	-96.0
9	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	NO	-78.7
10	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	NO	-279.0
11	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	YES	105.0
12	151	PUDDING R > MOLALLA R - AB MILL CR	YES	853.0
Stor	151	PUDDING R > MOLALLA R - AB MILL CR	YES	625000.0

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION
Water Availability as of 1/ 1/**** for
WILLAMETTE R > COLUMBIA R - AT MOUTH

Watershed ID #: 181 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

Month	Natural Stream Flow	CU + Stor Prior to 1/1/93	CU + Stor After 1/1/93	Expected Stream Flow	Reserved Stream Flow	Instream Water Rights	Net Water Available
1	27500.00	1960.00	276.00	25300.00	0.00	1500.00	23800.00
2	30000.00	7250.00	273.00	22500.00	0.00	1500.00	21000.00
3	28500.00	6880.00	262.00	21400.00	0.00	1500.00	19900.00
4	25400.00	6590.00	251.00	18600.00	0.00	1500.00	17100.00
5	20700.00	3940.00	237.00	16500.00	0.00	1500.00	15000.00
6	11000.00	1690.00	429.00	8880.00	0.00	1500.00	7380.00
7	6280.00	1660.00	433.00	4190.00	0.00	1500.00	2690.00
8	4890.00	1460.00	401.00	3030.00	0.00	1500.00	1530.00
9	4930.00	1090.00	377.00	3460.00	0.00	1500.00	1960.00
10	5990.00	355.00	179.00	5460.00	0.00	1500.00	3960.00
11	12700.00	502.00	221.00	12000.00	0.00	1500.00	10500.00
12	24800.00	640.00	274.00	23900.00	0.00	1500.00	22400.00
Stor	19700000	2030000	218000	17500000	0	1090000	16400000

DETAILED REPORT OF CONSUMPTIVE USES AND STORAGES

Water Availability as of 1/ 1/**** for
WILLAMETTE R > COLUMBIA R - AT MOUTH

Watershed ID #: 181 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

Mo	Storage	Irrig	Munic	Ind/Man	Commer	Domest	Agricul	Other	Total
1	1694.20	0.00	334.03	99.54	4.54	23.69	77.90	2.69	2240.00
2	6981.48	0.00	334.03	99.54	4.54	23.69	77.90	2.69	7520.00
3	6590.19	6.44	334.03	99.54	4.54	23.69	80.37	2.69	7140.00
4	6259.15	42.88	334.03	99.54	4.54	23.69	76.93	2.69	6840.00
5	3372.15	292.92	330.18	99.53	4.39	23.69	55.12	2.69	4180.00
6	441.45	586.37	907.85	99.28	4.24	23.69	54.79	2.69	2120.00
7	13.80	1001.84	905.03	94.00	4.24	23.69	43.93	2.50	2090.00
8	1.97	785.87	905.03	94.00	4.24	22.28	42.54	2.50	1860.00
9	0.65	388.71	902.78	99.23	4.24	22.28	44.99	2.69	1470.00
10	0.15	27.73	332.24	99.28	4.24	22.29	45.63	2.69	534.00
11	192.69	0.00	334.03	99.28	4.54	23.69	66.86	2.69	724.00
12	370.95	0.00	334.03	99.54	4.54	23.69	77.90	2.69	913.00

DETAILED REPORT OF RESERVATIONS FOR CONSUMPTIVE USE
Water Availability as of 1/ 1/**** for
WILLAMETTE R > COLUMBIA R - AT MOUTH

Watershed ID #: 181 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

	Reservations							
APP #	0	0	0	0	0	0	0	TOTAL
Status Use								
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DETAILED REPORT OF INSTREAM REQUIREMENTS
Water Availability as of 1/ 1/**** for
WILLAMETTE R > COLUMBIA R - AT MOUTH

Watershed ID #: 181 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

	ISWRs						
APP #	181A	0	0	0	0	0	0	MAXIMUM
Status	Cert.							
1	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
2	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
3	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
4	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
5	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
6	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
7	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
8	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
9	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
10	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
11	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
12	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION
Water Availability as of 1/ 1/**** for
MOLALLA R > WILLAMETTE R - AT MOUTH

Watershed ID #: 69796 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

Month	Natural Stream Flow	CU + Stor Prior to 1/1/93	CU + Stor After 1/1/93	Expected Stream Flow	Reserved Stream Flow	Instream Water Rights	Net Water Available
1	1870.00	22.20	37.90	1810.00	0.00	500.00	1310.00
2	2010.00	21.10	36.50	1950.00	0.00	500.00	1450.00
3	1830.00	8.36	31.00	1790.00	0.00	500.00	1290.00
4	1530.00	11.30	25.20	1490.00	0.00	500.00	993.00

5	927.00	46.80	20.00	860.00	0.00	500.00	360.00
6	431.00	79.30	20.20	331.00	0.00	500.00	-169.00
7	204.00	136.00	28.30	39.80	0.00	200.00	-160.00
8	139.00	111.00	23.60	4.04	0.00	100.00	-96.00
9	134.00	48.40	14.30	71.30	0.00	150.00	-78.70
10	188.00	11.20	5.66	171.00	0.00	450.00	-279.00
11	637.00	14.00	17.50	605.00	0.00	500.00	105.00
12	1700.00	22.40	36.50	1640.00	0.00	500.00	1140.00
Stor	1320000	32300	17900	1270000	0	295000	996000

DETAILED REPORT OF CONSUMPTIVE USES AND STORAGES
Water Availability as of 1/ 1/**** for
MOLALLA R > WILLAMETTE R - AT MOUTH

Watershed ID #: 69796 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

Mo	Storage	Irrig	Munic	Ind/Man	Commer	Domest	Agricul	Other	Total
1	44.70	0.00	4.55	1.79	0.48	0.95	7.59	0.00	60.10
2	42.22	0.00	4.55	1.79	0.48	0.95	7.59	0.00	57.60
3	22.68	1.27	4.55	1.79	0.48	0.95	7.59	0.00	39.30
4	15.89	5.30	4.55	1.79	0.48	0.95	7.59	0.00	36.60
5	7.99	46.23	4.55	1.79	0.33	0.95	5.00	0.00	66.90
6	1.49	76.59	13.66	1.79	0.18	0.95	4.84	0.00	99.50
7	0.00	142.80	13.66	1.79	0.18	0.95	4.84	0.00	164.00
8	0.00	113.54	13.66	1.79	0.18	0.95	4.84	0.00	135.00
9	0.00	41.29	13.66	1.79	0.18	0.95	4.84	0.00	62.70
10	0.00	4.55	4.55	1.79	0.18	0.95	4.84	0.00	16.90
11	18.34	0.00	4.55	1.79	0.48	0.95	5.42	0.00	31.50
12	43.49	0.00	4.55	1.79	0.48	0.95	7.59	0.00	58.90

DETAILED REPORT OF RESERVATIONS FOR CONSUMPTIVE USE
Water Availability as of 1/ 1/**** for
MOLALLA R > WILLAMETTE R - AT MOUTH

Watershed ID #: 69796 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

	Reservations							
APP #	0	0	0	0	0	0	0	TOTAL

Status Use								
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DETAILED REPORT OF INSTREAM REQUIREMENTS
Water Availability as of 1/ 1/**** for
MOLALLA R > WILLAMETTE R - AT MOUTH

Watershed ID #: 69796 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

	ISWRs							
APP #	69796A	0	0	0	0	0	0	MAXIMUM
Status	Cert.							
1	500.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
2	500.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
3	500.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
4	500.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
5	500.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
6	500.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
7	200.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
8	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
9	150.00	0.00	0.00	0.00	0.00	0.00	0.00	150.00
10	450.00	0.00	0.00	0.00	0.00	0.00	0.00	450.00
11	500.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
12	500.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION
Water Availability as of 1/ 1/**** for
PUDDING R > MOLALLA R - AT MOUTH

Watershed ID #: 69998 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

Month	Natural Stream Flow	CU + Stor Prior to 1/1/93	CU + Stor After 1/1/93	Expected Stream Flow	Reserved Stream Flow	Instream Water Rights	Net Water Available
1	1120.00	17.70	36.10	1070.00	0.00	80.00	986.00
2	1260.00	17.10	34.70	1210.00	0.00	80.00	1130.00
3	1080.00	3.55	29.30	1050.00	0.00	80.00	967.00
4	834.00	6.38	23.50	804.00	0.00	80.00	724.00
5	448.00	28.00	18.20	402.00	0.00	80.00	322.00
6	231.00	58.10	18.60	154.00	0.00	60.00	94.30
7	111.00	96.00	26.30	-11.30	0.00	50.00	-61.30
8	71.60	77.70	21.70	-27.90	0.00	40.00	-67.90
9	67.90	41.80	12.80	13.20	0.00	40.00	-26.80
10	91.50	5.46	4.29	81.80	0.00	60.00	21.80
11	364.00	8.81	15.90	339.00	0.00	80.00	259.00
12	1010.00	17.00	34.70	958.00	0.00	80.00	878.00
Stor	748000	22900	16700	709000	0	48900	664000

DETAILED REPORT OF CONSUMPTIVE USES AND STORAGES
Water Availability as of 1/ 1/**** for
PUDDING R > MOLALLA R - AT MOUTH

Watershed ID #: 69998 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

Mo	Storage	Irrig	Munic	Ind/Man	Commer	Domest	Agricul	Other	Total
1	44.30	0.00	2.45	0.33	1.33	0.31	5.14	0.00	53.90
2	42.21	0.00	2.45	0.33	1.33	0.31	5.14	0.00	51.80
3	22.49	0.74	2.45	0.33	1.33	0.31	5.14	0.00	32.80
4	15.74	4.60	2.45	0.33	1.33	0.31	5.14	0.00	29.90
5	7.93	31.52	2.45	0.33	1.18	0.31	2.56	0.00	46.30
6	1.49	63.62	7.36	0.33	1.03	0.31	2.56	0.00	76.70
7	0.00	110.68	7.36	0.33	1.03	0.31	2.56	0.00	122.00
8	0.00	87.87	7.36	0.33	1.03	0.31	2.56	0.00	99.50
9	0.00	43.06	7.36	0.33	1.03	0.31	2.56	0.00	54.70
10	0.00	3.06	2.45	0.33	1.03	0.31	2.56	0.00	9.75

11	17.32	0.00	2.45	0.33	1.33	0.31	2.97	0.00	24.70
12	42.11	0.00	2.45	0.33	1.33	0.31	5.14	0.00	51.70

DETAILED REPORT OF RESERVATIONS FOR CONSUMPTIVE USE
Water Availability as of 1/ 1/**** for
PUDDING R > MOLALLA R - AT MOUTH

Watershed ID #: 69998 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

	Reservations							
APP #	0	0	0	0	0	0	0	TOTAL
Status / Use								
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DETAILED REPORT OF INSTREAM REQUIREMENTS
Water Availability as of 1/ 1/**** for
PUDDING R > MOLALLA R - AT MOUTH

Watershed ID #: 69998 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

	ISWRs							
APP #	69998A	73532A	0	0	0	0	0	MAXIMUM
Status	Cert.	Cert.						
1	80.00	36.00	0.00	0.00	0.00	0.00	0.00	80.00
2	80.00	36.00	0.00	0.00	0.00	0.00	0.00	80.00

3	80.00	36.00	0.00	0.00	0.00	0.00	0.00	80.00
4	80.00	36.00	0.00	0.00	0.00	0.00	0.00	80.00
5	80.00	36.00	0.00	0.00	0.00	0.00	0.00	80.00
6	60.00	36.00	0.00	0.00	0.00	0.00	0.00	60.00
7	50.00	36.00	0.00	0.00	0.00	0.00	0.00	50.00
8	40.00	36.00	0.00	0.00	0.00	0.00	0.00	40.00
9	40.00	36.00	0.00	0.00	0.00	0.00	0.00	40.00
10	60.00	36.00	0.00	0.00	0.00	0.00	0.00	60.00
11	80.00	36.00	0.00	0.00	0.00	0.00	0.00	80.00
12	80.00	36.00	0.00	0.00	0.00	0.00	0.00	80.00

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION

Water Availability as of 1/ 1/**** for
PUDDING R > MOLALLA R - AB MILL CR

Watershed ID #: 151 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

Month	Natural Stream Flow	CU + Stor Prior to 1/1/93	CU + Stor After 1/1/93	Expected Stream Flow	Reserved Stream Flow	Instream Water Rights	Net Water Available
1	1040.00	36.70	33.90	969.00	0.00	36.00	933.00
2	1180.00	35.70	32.50	1110.00	0.00	36.00	1080.00
3	1010.00	16.20	27.10	967.00	0.00	36.00	931.00
4	787.00	18.80	21.40	747.00	0.00	36.00	711.00
5	425.00	38.90	15.20	371.00	0.00	36.00	335.00
6	224.00	62.60	13.90	147.00	0.00	36.00	111.00
7	109.00	97.70	19.50	-8.20	0.00	36.00	-44.20
8	71.00	80.80	15.90	-25.80	0.00	36.00	-61.80
9	67.30	47.50	9.07	10.70	0.00	36.00	-25.30
10	91.60	18.00	2.74	70.90	0.00	36.00	34.90
11	363.00	24.40	14.10	325.00	0.00	36.00	289.00
12	957.00	35.60	32.50	889.00	0.00	36.00	853.00
Stor	706000	31100	14300	661000	0	26100	637000

DETAILED REPORT OF CONSUMPTIVE USES AND STORAGES

Water Availability as of 1/ 1/**** for
PUDDING R > MOLALLA R - AB MILL CR

Watershed ID #: 151 Basin: WILLAMETTE Exceedance Level: 80

Time: 11:16 Date: 01/17/2002

Mo	Storage	Irrig	Munic	Ind/Man	Commer	Domest	Agricul	Other	Total
1	50.00	0.00	15.00	0.33	0.03	0.27	4.93	0.00	70.60
2	47.64	0.00	15.00	0.33	0.03	0.27	4.93	0.00	68.20
3	22.11	0.67	15.00	0.33	0.03	0.27	4.93	0.00	43.40
4	15.53	4.15	15.00	0.33	0.03	0.27	4.93	0.00	40.30
5	7.89	28.27	15.00	0.33	0.03	0.27	2.35	0.00	54.10
6	1.47	57.06	15.01	0.33	0.03	0.27	2.35	0.00	76.50
7	0.00	99.22	15.01	0.33	0.03	0.27	2.35	0.00	117.00
8	0.00	78.77	15.01	0.33	0.03	0.27	2.35	0.00	96.80
9	0.00	38.62	15.01	0.33	0.03	0.27	2.35	0.00	56.60
10	0.00	2.75	15.00	0.33	0.03	0.27	2.35	0.00	20.70
11	20.09	0.00	15.00	0.33	0.03	0.27	2.76	0.00	38.50
12	47.62	0.00	15.00	0.33	0.03	0.27	4.93	0.00	68.20

DETAILED REPORT OF RESERVATIONS FOR CONSUMPTIVE USE
Water Availability as of 1/ 1/**** for
PUDDING R > MOLALLA R - AB MILL CR

Watershed ID #: 151 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

	Reservations							
APP #	0	0	0	0	0	0	0	TOTAL
Status Use								
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DETAILED REPORT OF INSTREAM REQUIREMENTS
Water Availability as of 1/ 1/**** for
PUDDING R > MOLALLA R - AB MILL CR

Watershed ID #: 151 Basin: WILLAMETTE Exceedance Level: 80
Time: 11:16 Date: 01/17/2002

	ISWRs							
APP #	151A	73532B	73533A	73534A	0	0	0	MAXIMUM
Status	Cert.	Cert.	Cert.	Cert.				
1	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
2	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
3	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
4	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
5	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
6	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
7	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
8	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
9	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
10	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
11	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
12	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00

1

Paul R. Cleary, Director
Oregon Water Resources Department • 158 12th ST. NE • Salem, OR 97310 • Phone: (503)378-8455 • Fax: (503)378-2496

MEMO

TO: ANITA HUFFMAN
CORY ENGEL
RUSS KLASSEN
KERRY LEFEVER

SUBJECT: IR REVIEW
PFO REVIEW
FO REVIEW
ALT RESERVOIR

Kerry-
Please review very closely-

FROM: JERRY GAINEY

Date: 2/24/03

Please review the attached file(s), G-15567, and return to me after your review. The file(s) is/are dated for signature on Mar ____, 2003.

Thanks

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-15567

Appeal Rights
This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review of this order must be filed within the 60 day time period specified by ORS 183.484(2).

This statement of judicial review rights does not create a right to judicial review of this order, if judicial review is otherwise precluded by law. Where no changes have been made to a Proposed Final Order on a water right application and no protests have been filed during the protest period, the final order is not subject to judicial review.

Final Order

Application History

On JULY 25, 2001, JOEL NEUSCHWANDER submitted an application to the Department for a water use permit. The Department issued a Proposed Final Order on April 9, 2002, proposing to deny the application because the proposed groundwater use will have the potential for substantial interference with the nearest surface water source, namely Bear Creek. Further, water is not available for further appropriation at any time of the year. The protest period closed May 24, 2002, and no protest was filed.

The applicant requested a time-out from application processing to submit information on the construction of the well. The Enforcement Section and the Groundwater Hydrology Section reviewed the information and has determined that the proposed well reconstruction will ~~not~~ be insufficient to overcome the finding of potential for substantial interference between the proposed groundwater use & Bear Creek. The proposed use does not comply with rules adopted by the Water Resources Commission or would otherwise impair or be detrimental to the public interest. and?

SEE NEXT PAGE

Order

The application therefore is denied.

DATED March , 2003

_____
Paul R. Cleary, Director

This document was prepared by Jerry Gainey. If you have any questions about any of the statements contained in this document I am the most likely the best person to answer your questions. You can reach me at 1-503-378-8455 extension 458.

If you have questions about how to file a protest or if you have previously filed a protest and want to know the status, please contact Renee Moulun. Her extension number is 239.

If you have other questions about the Department or any of its programs please contact our Water Rights Information Group at extension 201. Address all other correspondence to: Water Rights Section, Oregon Water Resources Department, 158 12th ST. NE Salem, OR 97301-4172, Fax: (503)378-2496

PSI 4

TO: Water Rights Section April 17, 200 3

FROM: Ground Water/Hydrology Section D Miller
Reviewer's Name

SUBJECT: Application G- 15567 Supersedes review of 9/4/01
Date of Review(s)

PUBLIC INTEREST PRESUMPTION; GROUNDWATER

OAR 690-310-130 (1) *The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525.* Department staff review ground water applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. **This review is based upon available information and agency policies in place at the time of evaluation.**

A. GENERAL INFORMATION: Applicant's Name: Joel Neuschwander

A1. Applicant(s) seek(s) 1.60 cfs from two well(s) in the Willamette R Basin, Molalla R subbasin Quad Map: Yoder

A2. Proposed use: Nursery Use Irrigation (174.07 AC) Seasonality: year-round

A3. Well and aquifer data **(attach and number logs for existing wells; mark proposed wells as such under logid):**

Well	Logid	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, example: 2250' N, 1200' E fr NW cor S 36
1	CLAC 12700	Troutdale	1.11	4S/1E-32 SENE	1250'W+550'N fr E 1/4 cor S 32
2	CLAC 51287	Troutdale	0.49	4S/1E-32 SE NW	50'W+50'N fr Center S 32
3					
4					
5					

* Alluvium, CRB, Bedrock

Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval	Casing Intervals	Liner Intervals	Perforations Or Screens	Well Yield	Draw Down	Test Type
1	170	31	29	5/25/88	154	20	0 to 154	–	88-150	500	46	Pump
2	155	40	47	9/10/96	140	50	0 to 140	–	76-119	220	–	Air

Use data from application for proposed wells.

A4. Comments: The WL at well #2 is deep due to seasonal pumping effects and would not reflect a natural gw/sw relationship. The logs are not detailed with regard to heads with depth. The applicant contends multiple aquifers but that is not clear.

A5. ☒ Provisions of the Willamette Basin rules relative to the development, classification and/or management of ground water hydraulically connected to surface water ☒ **are**, *or* ☒ **are not**, activated by this application. (Not all basin rules contain such provisions.) DWR 5/15/03 DWR 5/15/03
Comments: ~~Wells do not develop water from unconfined alluvium~~ 5/15/03
Wells do develop water from unconfined alluvium. 5/15/03

A6. ☐ Well(s) # _____, _____, _____, _____, _____, tap(s) an aquifer limited by an administrative restriction.
Name of administrative area: _____
Comments: NA

Application G-15567 continued April 17, 2003

B. GROUND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130 (b) (c)

B1. Based upon available data, I have determined that ground water for the proposed use:

a. ☐ **is** over appropriated, ☐ **is not** over appropriated, ***or*** ☒ **cannot be determined to be** over-appropriated during any period of the proposed use;

b. ☐ **will not** ***or*** ☐ **will** likely be available in the amounts requested without injury to prior ground water rights;

c. ☐ **will not** ***or*** ☐ **will** likely to be available within the capacity of the ground water resource; or

d. ☒ **will, if properly conditioned,** avoid injury to existing ground water rights or to the ground water resource:
   i. ☒ The permit should contain condition #(s) 7C (March);
   ii. ☐ The permit should be conditioned as indicated in item 2 below.
   iii. ☐ The permit should contain special condition(s) as indicated in item 3 below;

B2. a. ☐ **Condition** to allow ground water production from no deeper than _____ ft. below land surface;

b. ☐ **Condition** to allow ground water production from no shallower than _____ ft. below land surface;

c. ☐ **Condition** to allow ground water production only from the _____ ground water reservoir between approximately _____ ft. and _____ ft. below land surface;

d. ☐ **Well reconstruction** is necessary to accomplish one or more of the above conditions. The problems that are likely to occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Ground Water Section.

Describe injury –as related to water availability– that is likely to occur without well reconstruction (interference w/ senior water rights, not within the capacity of the resource, etc): _____

B3. Ground water availability remarks: There is a lack of data to assess long-term water level trends at these wells.

Application G- 15567 continued April 18, 2003

C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

C1. **690-09-040 (1):** Evaluation of aquifer confinement:

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Troutdale	☐	☒
2	Troutdale	☐	☒
		☐	☐

Basis for aquifer confinement evaluation: well log info

If the Willamette Silt has an identified water table the aquifer might be viewed as leaky confined. The connection between the Silt + the Troutdale would be good, allowing for SW connection.

C2. **690-09-040 (2) (3):** Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than ¼ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected? YES	NO	ASSUMED	Potential for Subst. Interfer. Assumed? YES	NO
1	1	Bear ck	141	125	800	☒	☐	☒	☒	☐
1	2	Bear ck trib	141	130	1000	☒	☐	☒	☒	☐
2	2	Bear ck trib	108*	130	250	☒	☐	☒	☒	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐

Basis for aquifer hydraulic connection evaluation: The wells are near the streams and develop water from sedimentary materials. I do not see the possibility of developing any of the WB zone and not having a hydraulic connection within 1/4 mile of SW.

* Based on log SWL of 9/10/96 which is depressed due to pumping.

C3a. **690-09-040 (4):** Evaluation of stream impacts for each well that has been determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. If Q is not distributed by well, use full rate for each well. If modeled, include description and model parameters in Comments (C3b). Any checked ☒ box indicates the well is assumed to have the potential to cause substantial interference with surface water.

Well	SW #	Well < ¼ mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
1	1	☒	☐	NA	—	☐	NA	☐	37%	☒
1	2	☒	☐	NA	—	☐	NA	☐	26%	☒
2	2	☒	☐	NA	—	☐	NA	☐	78%	☒
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐

Application G- 15567 continued April 18, 2003

C3b. **690-09-040 (4):** Evaluation of stream impacts by total appropriation for all wells determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. **Complete only if Q is distributed among wells.** Otherwise same evaluation and limitations apply as in C3a above.

	SW #		Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
			☐			☐		☐		☐
			☐			☐		☐		☐
			☐			☐		☐		☐
			☐			☐		☐		☐

Comments: the interference is maximum as the aquifer appears stratified.
#1 to Bear Ck T = 10,000 gpd/ft, S = 0.2, a = 800'
#1 to Bear Ck trib T = 10,000 gpd/ft, S = 0.2, a = 1000'
#2 T = 10,000 gpd/ft, S = 0.2, a = 250'

C4a. **690-09-040 (5):** Estimated impacts on surface water sources as percent or qualitative fraction* of proposed pumping rate. Limit evaluation to one year of pumping.

Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1	L	I	I	I	I	I	I	I	I	I	I	I
1	2	L	I	I	I	I	I	I	I	I	I	I	I
2	2	I	H	H	H	H	H	H	H	H	H	H	H

*VL = Very Low (<5%), L = Low (5-25%), I = Intermediate (25-75%), H = High (>75%).

Basis for impact evaluation: Proximity to SW, geology, heads

C4b. **690-09-040 (5):** Evaluation of paragraphs under subsection 5. A determination of ☒ **Low** denotes no connection or a very indirect connection between surface water and ground water; ☒ **High** denotes hydraulic connection that would likely reduce surface water availability in the first year of pumping. Do not equate "Low" and "High" between C4a and C4b.

(a) The potential to reduce surface water availability in SW #1 is ☐ **Low** *or* ☒ **High**
The potential to reduce surface water availability in SW #2 is ☐ **Low** *or* ☒ **High**
The potential to reduce surface water availability in _____ is ☐ **Low** *or* ☐ **High**
The potential to reduce surface water availability in _____ is ☐ **Low** *or* ☐ **High**

Basis: the well (#2) is right next to the trib and well #1 is between the trib and Bear Creek.

(b) **The potential to impair or detrimentally affect the public interest is to be determined by the Water Rights Section.**

Application G- 15567 continued April 18, 2003

C4b. **690-09-040 (5):**. Evaluation of paragraphs under subsection 5 continued.

(c) The **percentage** of appropriation in the first year of use that will be at the expense of surface water 80% +

Basis: professional judgement

(d) The timing of interference will be ☒ **immediate** (within one year), *or* ☐ **delayed**;

Basis: _____

(e) The potential for cumulative adverse impacts: A graphical distribution of POAs and summary of permitted rights ☐ **are** *or* ☒ **are not** available at this time of review.

Impacted stream	Impacted basin or sub-basin	Existing Ground Water Rights (cfs)

Comments: _____

C5. ☐ **If properly conditioned**, the surface water source(s) can be adequately protected from interference, and/or ground water use under this permit can be regulated if it is found to substantially interfere with surface water:

i. ☐ The permit should contain condition #(s)_____;
ii. ☐ The permit should contain special condition(s) as indicated in "Remarks" below;
iii. ☐ The permit should be conditioned as indicated in item 6 below;

C6. ☐ **If the well is not reconstructed**, it will interfere with surface water. Well reconstruction, as follows, will adequately protect surface water from interference. If the ground water use under this permit is found to have the potential for substantial interference with surface water, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Ground Water Section.:

The well should be reconstructed as follows:_____

C7. **SW / GW Remarks** _____

Application G- 15567 continued April 18, 2003

D. WELL CONSTRUCTION, OAR 690-200

D1. **Well #:** _____ **Logid:** _____

D2. **THE WELL does not meet current well construction standards based upon:**
- a. ☐ review of the well log;
- b. ☐ field inspection by _____;
- c. ☐ report of CWRE _____;
- d. ☐ other: (specify) _____

D3. **THE WELL construction deficiency**:
- a. ☐ constitutes a health threat under Division 200 rules;
- b. ☐ commingles water from more than one ground water reservoir;
- c. ☐ permits the loss of artesian head;
- d. ☐ permits the de-watering of one or more ground water reservoirs;
- e. ☐ other: (specify) _____

D4. **THE WELL construction deficiency is described as follows:** _____

D5. **THE WELL**
- a. ☐ **was,** *or* ☐ **was not** constructed according to the standards in effect at the time of original construction or most recent modification.
- b. ☐ I don't know if it met standards at the time of construction.

D6. ☐ **Route to the Enforcement Section.** I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Enforcement Section and the Ground Water Section.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

D7. ☐ Well construction deficiency has been corrected by the following actions: _____

_____ _____, 200____.
(Enforcement Section Signature)

D8. ☐ **Route to Water Rights Section (attach well reconstruction logs to this page).**

STATE OF OREGON

COUNTY OF CLACKAMAS

CERTIFICATE OF WATER RIGHT

This Is To Certify, That I. R. HANSON

of Route 2, Box 340, Canby, State of Oregon, has made proof to the satisfaction of the STATE ENGINEER of Oregon, of a right to the use of the waters of Bear Creek and an unnamed tributary of Bear Creek, a tributary of Pudding River for the purpose of irrigation under Permit No. 16827 of the State Engineer, and that said right to the use of said waters has been perfected in accordance with the laws of Oregon; that the priority of the right hereby confirmed dates from March 4, 1946;

that the amount of water to which such right is entitled and hereby confirmed, for the purposes aforesaid, is limited to an amount actually beneficially used for said purposes, and shall not exceed 1.07 cubic foot per second, being 0.65 c.f.s. from Bear Creek and 0.42 c.f.s. from the unnamed stream,

or its equivalent in case of rotation, measured at the point of diversion from the stream. The point of diversion is located From unnamed tributary: in Lot 2 ($SE\frac{1}{4}$ $NW\frac{1}{4}$); From Bear Creek: in Lot 4 ($SE\frac{1}{4}$ $NE\frac{1}{4}$), all being within Section 32, Township 4 South, Range 1 East, W. M.

The amount of water used for irrigation, together with the amount secured under any other right existing for the same lands, shall be limited to one-eightieth of one cubic foot per second per acre, or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed $2\frac{1}{2}$ acre feet per acre for each acre irrigated during the irrigation season of each year,

and shall conform to such reasonable rotation system as may be ordered by the proper state officer.

A description of the place of use under the right hereby confirmed, and to which such right is appurtenant, is as follows:

From Bear Creek:
26.2 acres in Lot 3 ($SW\frac{1}{4}$ $NE\frac{1}{4}$)
25.6 acres in Lot 4 ($SE\frac{1}{4}$ $NE\frac{1}{4}$)
Section 32
Township 4 South, Range 1 East, W. M.

From Unnamed Tributary:
14.2 acres in Lot 2 ($SE\frac{1}{4}$ $NW\frac{1}{4}$)
23.0 acres in the $NE\frac{1}{4}$ $SW\frac{1}{4}$
Section 32
Township 4 South, Range 1 East, W. M.

Land on which water is to be used is a part of that more explicitly described by appropriator as follows:

Beginning 237 rods North of the Southeast corner of the Southwest quarter of Section 32, T. 4 S. R. 1 E. of the W.M. running thence West 10.00 rods; thence South 70.00 rods; thence East 10.00 rods; thence North 70.00 rods to the place of beginning. ALSO, beginning at a point 25.00 chains North and 25.00 chains East of the Southwest corner of said Section 32; thence running East 12.50 chains; thence North 32.00 chains; thence West 12.50 chains and thence South 32.00 chains to the place of beginning. ALSO, Lots Three (3) and Four (4) of said Section 32, T. 4 S. R. 1 E. of the W.M., EXCEPT the rights of the public in and to public roads, and EXCEPT the following: Beginning at the Northwest corner of the James Wilson land above described in Section 32, T. 4 S. R. 1 E. of the W.M., thence East 200 feet, more or less, to the East line of a tract of land conveyed to Carl E. Hilton by deed recorded in Book 124 at page 437 of Deed Records of Clackamas County, State of Oregon; thence South along the East line

[redacted] Certificate 20401

of said Hilton tract of land, 100 feet, more or less to the Southeast corner thereof; thence West along the South line of said Hilton land 200 feet, more or less to the West line of said James Wilson land; thence North on the West line of said James Wilson land, 100 feet, more or less, to the place of beginning.

The right to the use of the water for the purposes aforesaid is restricted to the lands or place of use herein described.

WITNESS the signature of the State Engineer, affixed

this 30th *day of* April , 19 54 .

CHAS. L. STRICKLIN
State Engineer

Recorded in State Record of Water Right Certificates, Volume 15 *, page* 20401

STATE OF OREGON
Water Resources Department
158 12th St. N.E.
Salem, OR 97310

MEMORANDUM

DATE: 5/15/2003

TO: File G-15567
FROM: Donn Miller, Hydrogeologist
SUBJECT: Points

Greg's contentions:

1) The wells are mis-constructed so as to commingle a shallow and deep aquifer. Greg's letter report analyzes and supports this position.

2) WRD should require driller to repair the wells to develop only the deep aquifer at driller's expense. Greg thinks that driller's responsibility for proper well construction lingers to present.

3) WRD will agree that a permit can be issued on the repaired wells if only the deep source is developed. Greg cites that this was his understanding from a prior meeting with Fred and Donn.

Donn's contentions:

1) It is not clear from the current information that the wells commingle shallow and deep aquifers. The letter report relies on appearances to support the two aquifer notion with a paucity of head data with depth. The cross-sectional analysis of a continuous clay layer is not unreasonable but is of limited value to define an aquifer boundary.

2) Without clearer information, it is not good to require well reconstruction. Mr. Neuschwander may wish to drill the site to provide addition information.

3) I don't recall hinting that well reconstruction would carry the day for permit issuance. The well reconstruction is unlikely to alter my conclusion that there is the potential for substantial interference with Bear Creek and its trib. The influence on the surface waters would be occur through vertical leakage that could be reduced but not eliminated by the changes. The influence on surface water will still occur within ¼ mile of the wells.

Issues:

1) Is there a diminimus category of hydraulic connection with surface water such that the potential for substantial interference can be dismissed?

2) What is the legal protection on surface waters that poses a problem for this application?

3) The applicant has a surface water right on the nearby creek. Can WRD reach a deal with the applicant regarding that right which will mitigate/allow permit issuance?

INTEROFFICE MEMORANDUM

Water Rights Section

TO: Fred Lissner April 10, 2003

FROM: Jerry Gainey

RE: GW File Number G-15567-Joel Neuschwander

This application is being returned for another review. The application was originally denied and a request for a review was requested and granted. Donn Miller originally reviewed this application.

Please route to me when finished.

Thanks.

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-15567

Appeal Rights
This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review of this order must be filed within the 60 day time period specified by ORS 183.484(2).

This statement of judicial review rights does not create a right to judicial review of this order, if judicial review is otherwise precluded by law. Where no changes have been made to a Proposed Final Order on a water right application and no protests have been filed during the protest period, the final order is not subject to judicial review.

Order Staying Final Order Pending Reconsideration

On March 6, 2003, the Oregon Water Resources Department issued a Final Order denying Water Right Application G-15567 in the Name of Joel Neuschwander. Pursuant to OAR 137-004-0080(5), the Oregon Water Resources Department, on its own motion, now stays the Final Order and pending reconsideration of Application G-15567.

DATED April 2 , 2003

Dwight Stark for
Paul R. Cleary, Director
Water Resources Department

This document was prepared by Jerry Gainey. If you have any questions about any of the statements contained in this document I am the most likely the best person to answer your questions. You can reach me at 1-503-378-8455 extension 458.

If you have questions about how to file a protest or if you have previously filed a protest and want to know the status, please contact Renee Moulun. Her extension number is 239.

If you have other questions about the Department or any of its programs please contact our Water Rights Information Group at extension 201. Address all other correspondence to: Water Rights Section, Oregon Water Resources Department, 158 12th ST. NE Salem, OR 97301-4172, Fax: (503)378-2496

Mailing List for Order Copies

Application #G-15567 Mailing List Print Date April 2, 2003

Original mailed to (when permit issued, include copy of permit map):

Applicant: JOEL NEUSCHWANDER, 6097 S WHISKEY HILL RD, HUBBARD OR 97032

Copies Mailed
By: _____
(SUPPORT STAFF)
on: 9/2/03
(DATE)

Copies sent to:
1. WRD - File # G-15567
2. Water Availability: Ken Stahr
3. WRD - Watermaster # District 16
4. WRD - NWR
5. WRD - Data Center

Copies sent to Other Interested Persons *(CWRE, Agent, Well Driller, Commenter, etc.)*

1. Scott Ashcom, PO Box 4323, Portland OR 97208

2. Malia and Gregory Kupillas, CWREs

CASEWORKER : Gaineyjw

STATE OF OREGON
Water Resources Department
158 12th St. N.E.
Salem, OR 97310

MEMORANDUM

DATE: 10/17/2003

TO: Adam Sussman
FROM: Donn Miller DM
SUBJECT: Neuschwander, File G-15567

At your request, I've attempted to quantify the potential impact to surface water from the proposed ground water use. Further, I've sought out Karl Wozniak's help in the use of the Hunt stream depletion model. Doug Woodcock asked me to make some changes to my original model runs. Outputs of the models are attached.

I made three impact analyses. One is the impact of well #1 on Bear Creek. The other two are the impacts of wells #1 and #2 on the unnamed tributary of Bear Creek. This tributary is in the middle of section 32.

I have not attempted to ground truth anything. This is a dry-lab exercise. I have assumed that there are healthy supplies of water in the creeks against which to interfere. The physical factors that I have estimated have a basis in available materials but are subject to changes that could alter the results considerably. I guess that the agency is also assuming that the right (C20401) is not forfeit from non-use.

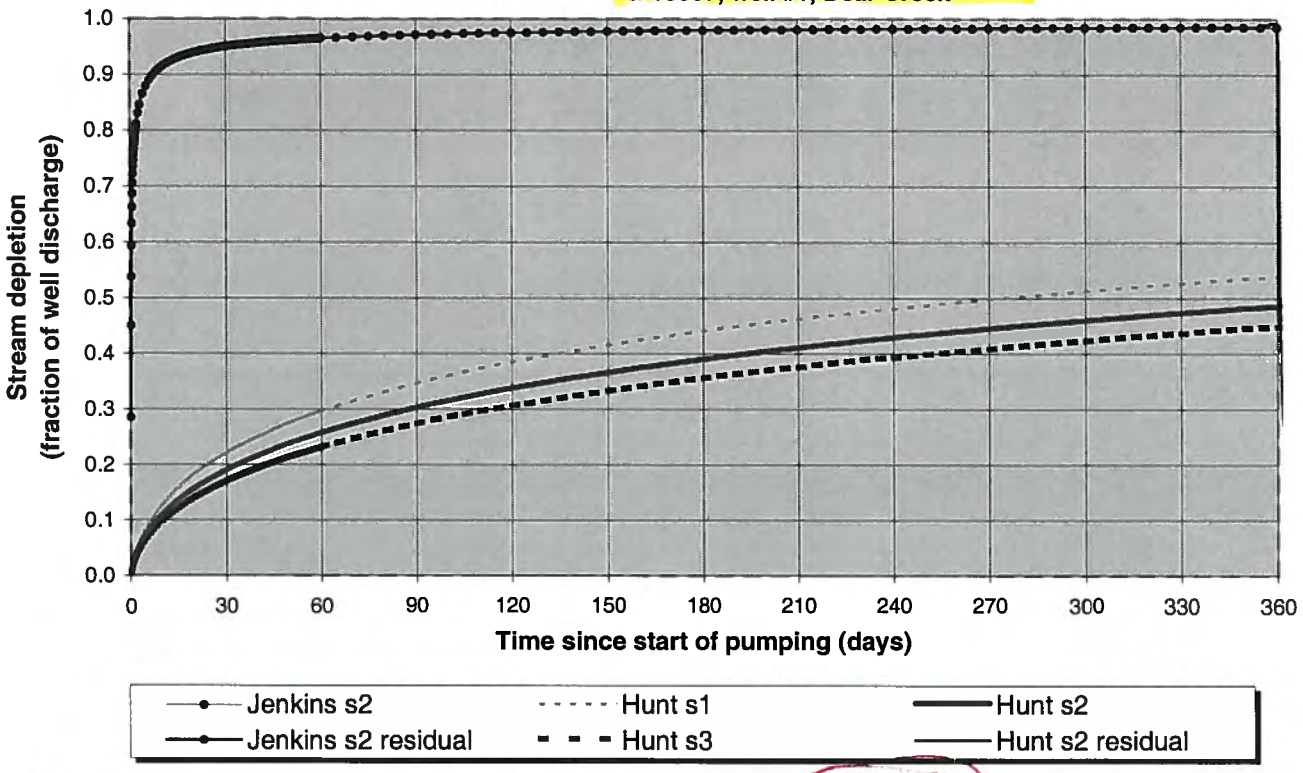
The impacts are time dependent. The outputs display impact rates at 30-day increments for 360 days of continuous pumping at a constant rate followed by residual impacts after pumping stops. These values for scenario #2 are highlighted on the output sheets.

Certificate 20401 provides for an irrigation diversion of 0.65 cfs from Bear Creek and 0.42 cfs from the tributary.

I assume that we'll need to talk further about this so let me know.

Transient Stream Depletion (Jenkins, 1970; Hunt, 1999)

G-15567, well #1, Bear Creek



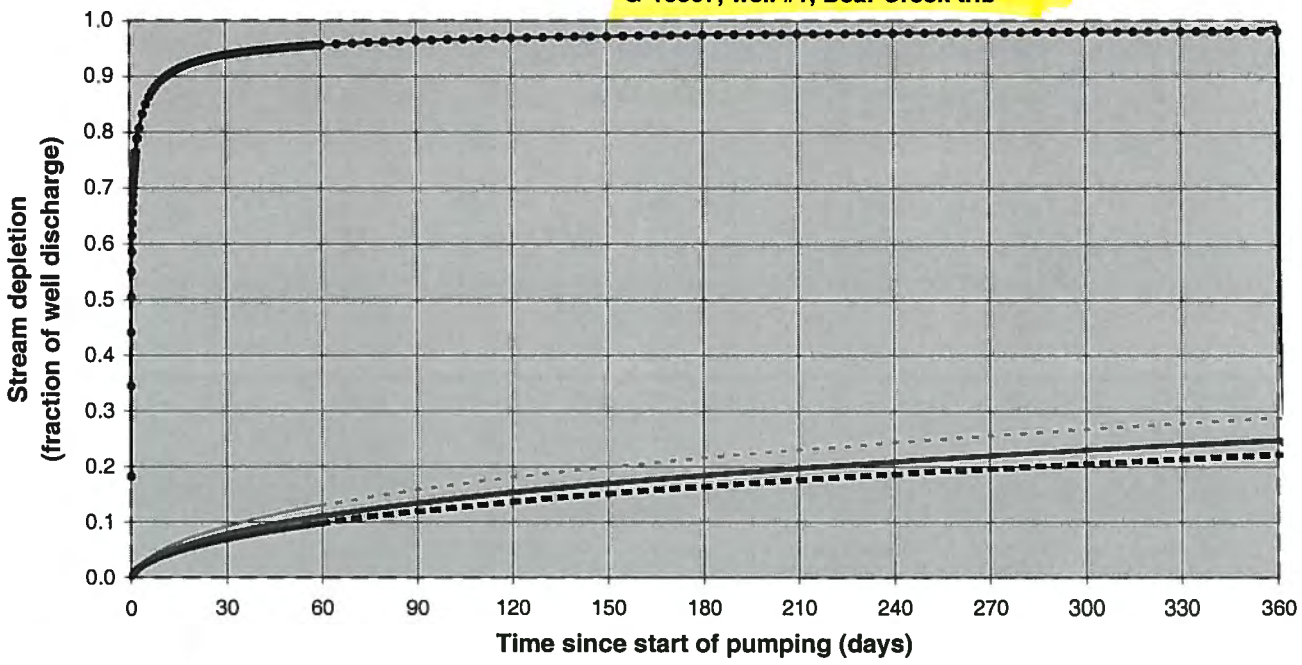
Output for Hunt Stream Depletion, Scenerio 2 (s2): **Time pump on = 360 days**

Days	30	60	90	120	150	180	210	240	270	300	330	360
Hunt SD s2	0.1909	0.2579	0.3034	0.3383	0.3667	0.3906	0.4113	0.4296	0.4458	0.4605	0.4738	0.4860
Qw, cfs	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114
H SD s2, cfs	0.213	0.287	0.338	0.377	0.409	0.435	0.458	0.479	0.497	0.513	0.528	0.541

Parameters:		**Scenario 1**	**Scenario 2**	**Scenario 3**	**Units**
Net steady pumping rate	Qw	500	500	500	gpm
Distance to stream	a	800	800	800	ft
Aquifer hydraulic conductivity	K	200	300	400	gpd/ft*ft
Aquifer thickness	b	70	70	70	ft
Aquifer transmissivity	T				
Aquifer storage coefficient	S	0.001	0.001	0.001	
Stream width	ws	10	10	10	ft
Streambed hydraulic conductivity	Ks	0.3	0.3	0.3	gpd/ft*ft
Streambed thickness	bs	3	3	3	ft
Streambed conductance	sbc				gpd/ft*ft
Stream depletion factor (Jenkins)	sdf	0.341942857	0.227961905	0.170971429	days
Streambed factor (Hunt)	sbf	0.057142857	0.038095238	0.028571429	

Transient Stream Depletion (Jenkins, 1970; Hunt, 1999)

G-15567, well #1, Bear Creek trib



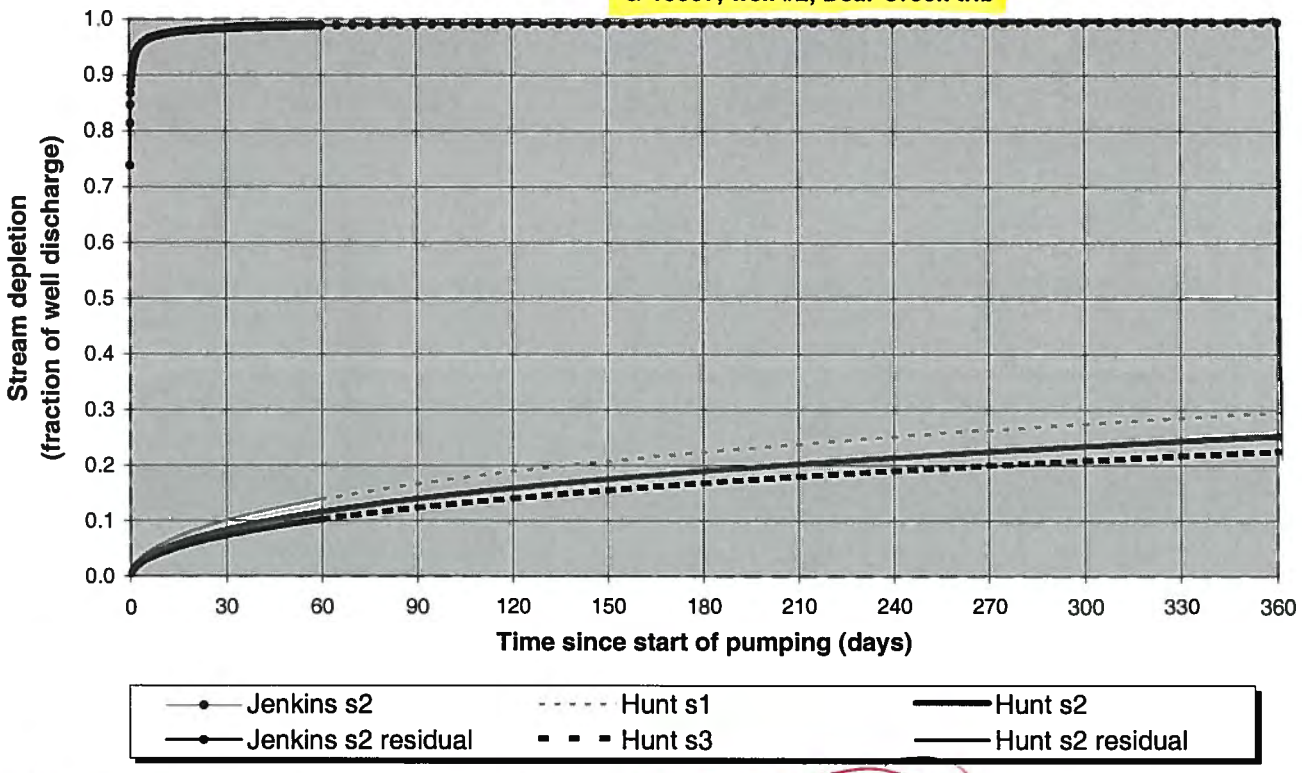
Output for Hunt Stream Depletion, Scenerio 2 (s2): **Time pump on = 360 days**

Days	30	60	90	120	150	180	210	240	270	300	330	360
Hunt SD s2	0.0782	0.1107	0.1344	0.1537	0.1700	0.1844	0.1973	0.2090	0.2197	0.2296	0.2389	0.2475
Qw, cfs	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114
H SD s2, cfs	0.087	0.123	0.150	0.171	0.189	0.205	0.220	0.233	0.245	0.256	0.266	0.276

Parameters:		**Scenario 1**	**Scenario 2**	**Scenario 3**	**Units**
Net steady pumping rate	Qw	500	500	500	gpm
Distance to stream	a	1000	1000	1000	ft
Aquifer hydraulic conductivity	K	200	300	400	gpd/ft*ft
Aquifer thickness	b	70	70	70	ft
Aquifer transmissivity	T				
Aquifer storage coefficient	S	0.001	0.001	0.001	
Stream width	ws	10	10	10	ft
Streambed hydraulic conductivity	Ks	0.3	0.3	0.3	gpd/ft*ft
Streambed thickness	bs	8	8	8	ft
Streambed conductance	sbc				gpd/ft*ft
Stream depletion factor (Jenkins)	sdf	0.534285714	0.356190476	0.267142857	days
Streambed factor (Hunt)	sbf	0.026785714	0.017857143	0.013392857	

Transient Stream Depletion (Jenkins, 1970; Hunt, 1999)

G-15567, well #2, Bear Creek trib



Output for Hunt Stream Depletion, Scenerio 2 (s2): **Time pump on = 360 days**

Days	30	60	90	120	150	180	210	240	270	300	330	360
Hunt SD s2	0.0841	0.1165	0.1401	0.1592	0.1755	0.1898	0.2025	0.2142	0.2248	0.2347	0.2439	0.2525
Qw, cfs	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490
H SD s2, cfs	0.041	0.057	0.069	0.078	0.086	0.093	0.099	0.105	0.110	0.115	0.120	0.124

Parameters:		**Scenario 1**	**Scenario 2**	**Scenario 3**	**Units**
Net steady pumping rate	Qw	220	220	220	gpm
Distance to stream	a	250	250	250	ft
Aquifer hydraulic conductivity	K	200	300	400	gpd/ft*ft
Aquifer thickness	b	70	70	70	ft
Aquifer transmissivity	T				
Aquifer storage coefficient	S	0.001	0.001	0.001	
Stream width	ws	10	10	10	ft
Streambed hydraulic conductivity	Ks	0.3	0.3	0.3	gpd/ft*ft
Streambed thickness	bs	8	8	8	ft
Streambed conductance	sbc				gpd/ft*ft
Stream depletion factor (Jenkins)	sdf	0.033392857	0.022261905	0.016696429	days
Streambed factor (Hunt)	sbf	0.006696429	0.004464286	0.003348214	

STATE OF OREGON
Water Resources Department
158 12th St. N.E.
Salem, OR 97310

MEMORANDUM

DATE: 10/3/2003

TO: Adam Sussman
FROM: Donn Miller DM
SUBJECT: Neuschwander, File G-15567

At your request, I've attempted to quantify the potential impact to surface water from the proposed ground water use. Further, I've sought out Karl Wozniak's help in the use of the Hunt stream depletion model. Outputs of that model are attached.

I made three impact analyses. One is the impact of well #1 on Bear Creek. The other two are the impacts of wells #2 and #3 on the unnamed tributary of Bear Creek. This tributary is in the middle of section 32.

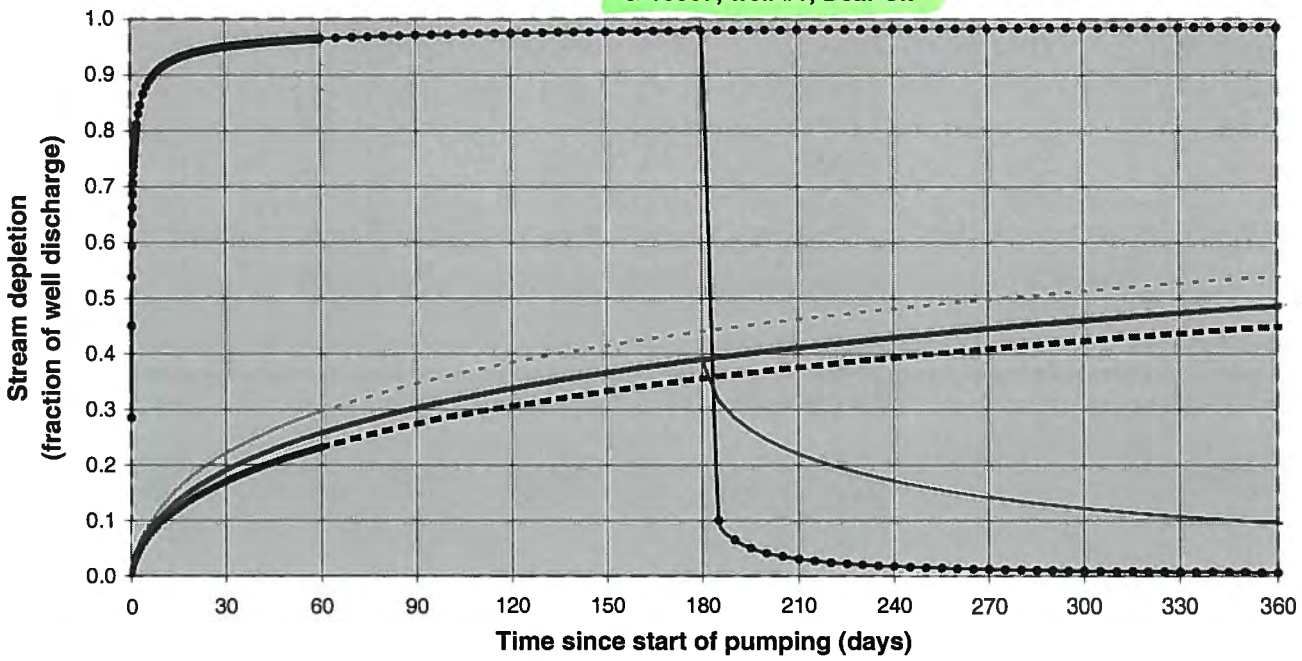
I have not attempted to ground truth anything. This is a dry-lab exercise. I have assumed that there are healthy supplies of water in the creeks against which to interfere. The physical factors that I have estimated have a basis in available materials but are subject to changes that could alter the results considerably. I guess that the agency is also assuming that the right (C20401) is not forfeit from non-use.

The impacts are time dependent. The outputs display impact rates at 30-day increments for 180 days of continuous pumping at a constant rate followed by residual impacts after pumping stops. These values for scenario #2 are highlighted on the output sheets. The graphic gives a sense of the impacts from scenarios #1 and #2.

I assume that we'll need to talk further about this so let me know.

Transient Stream Depletion (Jenkins, 1970; Hunt, 1999)

G-15567, well #1, Bear Ck



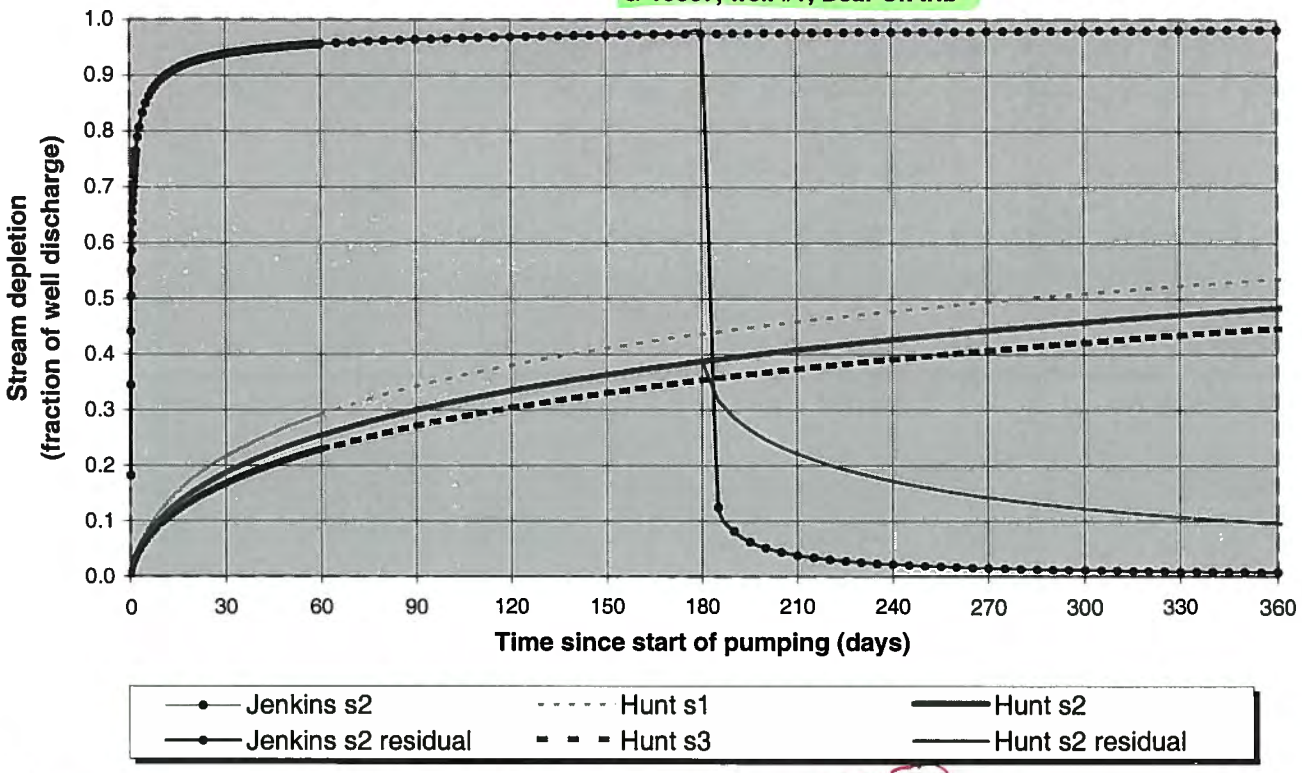
Output for Hunt Stream Depletion, Scenerio 2 (s2): **Time pump on = 180 days**

Days	30	60	90	120	150	180	210	240	270	300	330	360
Hunt SD s2	0.1909	0.2579	0.3034	0.3383	0.3667	0.3906	0.2205	0.1717	0.1424	0.1222	0.1071	0.0954
Qw, cfs	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114
H SD s2, cfs	0.213	0.287	0.338	0.377	0.409	0.435	0.246	0.191	0.159	0.136	0.119	0.106

Parameters:		**Scenario 1**	**Scenario 2**	**Scenario 3**	**Units**
Net steady pumping rate	Qw	500	500	500	gpm
Distance to stream	a	800	800	800	ft
Aquifer hydraulic conductivity	K	200	300	400	gpd/ft*ft
Aquifer thickness	b	70	70	70	ft
Aquifer transmissivity	T				
Aquifer storage coefficient	S	0.001	0.001	0.001	
Stream width	ws	10	10	10	ft
Streambed hydraulic conductivity	Ks	0.3	0.3	0.3	gpd/ft*ft
Streambed thickness	bs	3	3	3	ft
Streambed conductance	sbc				gpd/ft*ft
Stream depletion factor (Jenkins)	sdf	0.341942857	0.227961905	0.170971429	days
Streambed factor (Hunt)	sbf	0.057142857	0.038095238	0.028571429	

Transient Stream Depletion (Jenkins, 1970; Hunt, 1999)

G-15567, well #1, Bear Ck trib



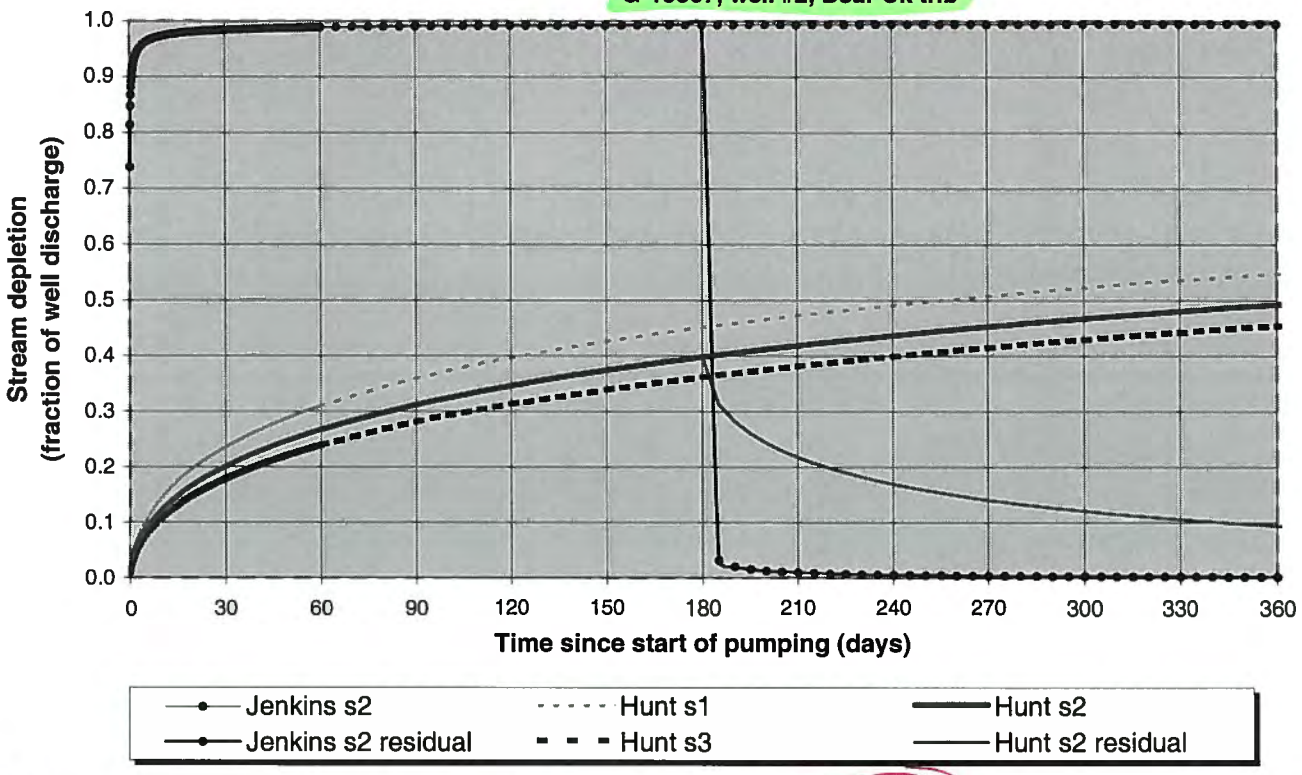
Output for Hunt Stream Depletion, Scenerio 2 (s2): **Time pump on = 180 days**

Days	30	60	90	120	150	180	210	240	270	300	330	360
Hunt SD s2	0.1873	0.2545	0.3002	0.3353	0.3638	0.3878	0.2214	0.1724	0.1430	0.1227	0.1076	0.0958
Qw, cfs	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114
H SD s2, cfs	0.209	0.284	0.334	0.374	0.405	0.432	0.247	0.192	0.159	0.137	0.120	0.107

Parameters:		**Scenario 1**	**Scenario 2**	**Scenario 3**	**Units**
Net steady pumping rate	Qw	500	500	500	gpm
Distance to stream	a	1000	1000	1000	ft
Aquifer hydraulic conductivity	K	200	300	400	gpd/ft*ft
Aquifer thickness	b	70	70	70	ft
Aquifer transmissivity	T				
Aquifer storage coefficient	S	0.001	0.001	0.001	
Stream width	ws	10	10	10	ft
Streambed hydraulic conductivity	Ks	0.3	0.3	0.3	gpd/ft*ft
Streambed thickness	bs	3	3	3	ft
Streambed conductance	sbc				gpd/ft*ft
Stream depletion factor (Jenkins)	sdf	0.534285714	0.356190476	0.267142857	days
Streambed factor (Hunt)	sbf	0.071428571	0.047619048	0.035714286	

Transient Stream Depletion (Jenkins, 1970; Hunt, 1999)

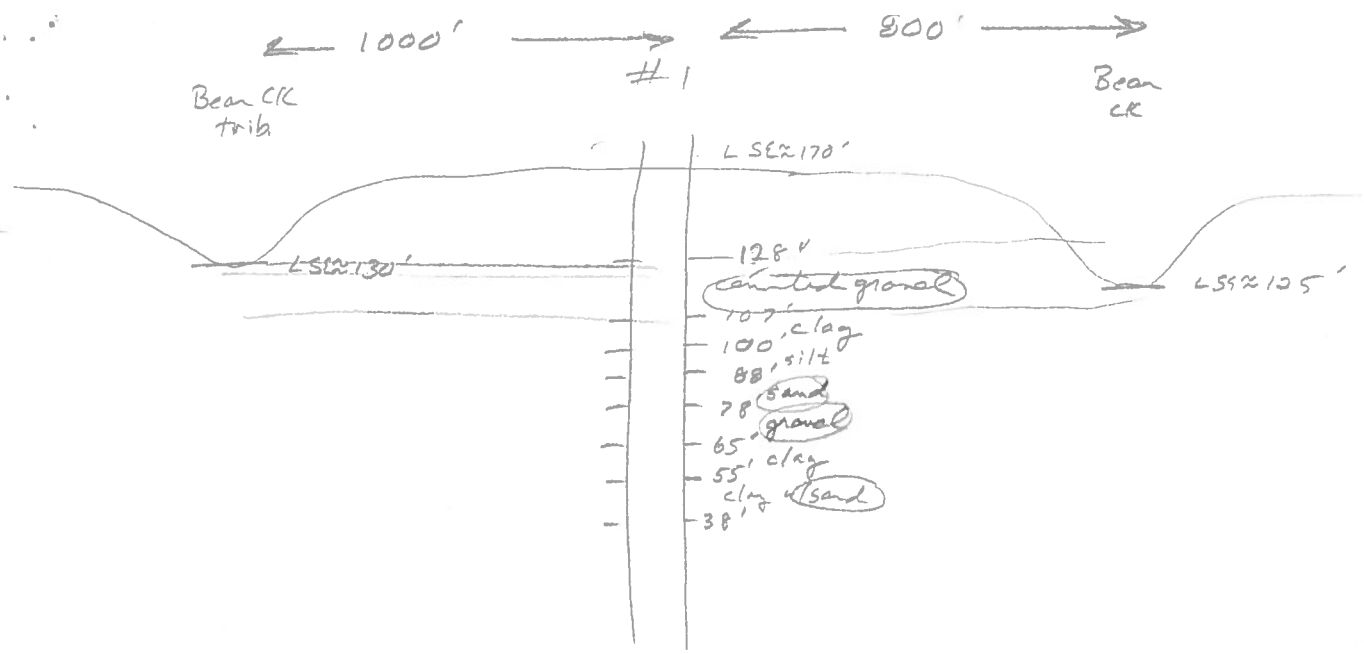
G-15567, well #2, Bear Ck trib

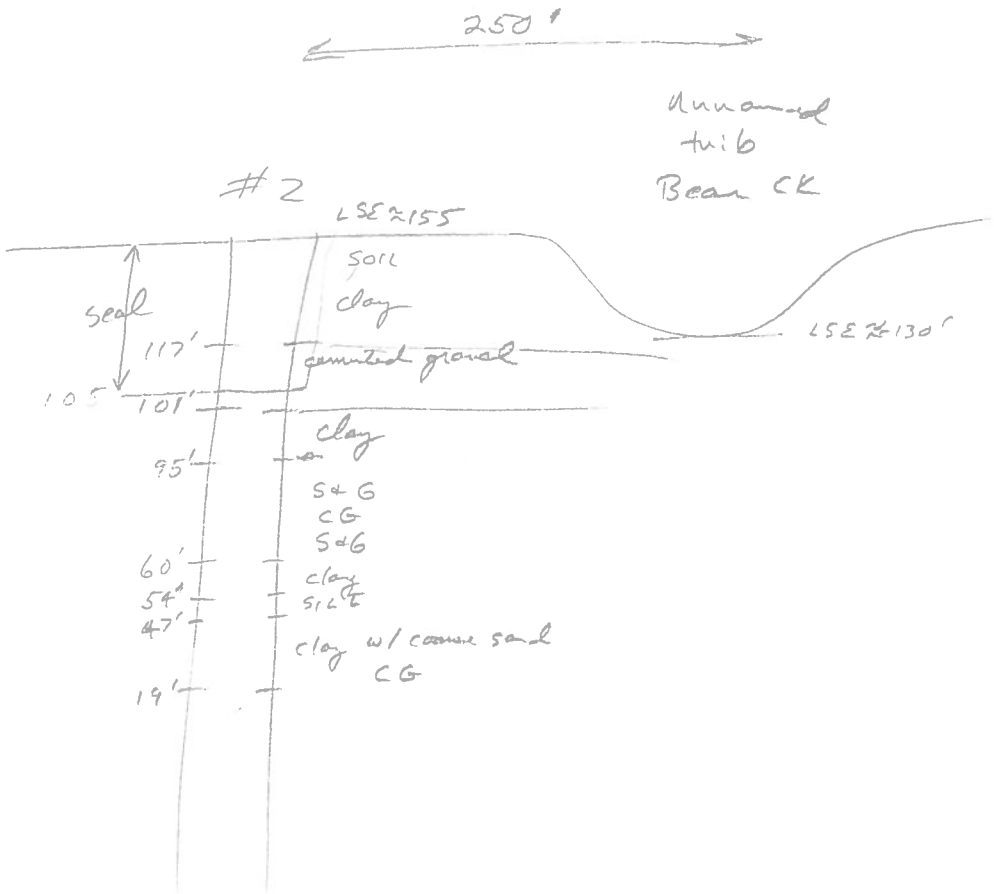


Output for Hunt Stream Depletion, Scenerio 2 (s2): Time pump on = 180 days

Days	30	60	90	120	150	180	210	240	270	300	330	360
Hunt SD s2	0.2010	0.2672	0.3122	0.3467	0.3747	0.3984	0.2179	0.1696	0.1407	0.1207	0.1058	0.0942
Qw, cfs	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490
H SD s2, cfs	0.099	0.131	0.153	0.170	0.184	0.195	0.107	0.083	0.069	0.059	0.052	0.046

Parameters:		**Scenario 1**	**Scenario 2**	**Scenario 3**	**Units**
Net steady pumping rate	Qw	220	220	220	gpm
Distance to stream	a	250	250	250	ft
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Streambed factor (Hunt)	sbf	0.017857143	0.011904762	0.008928571	





Donn's sketch

X-Sender: sussmaap@mailhub.wrd.state.or.us
X-Mailer: QUALCOMM Windows Eudora Version 5.1
Date: Fri, 05 Sep 2003 11:06:00 -0700
To: ashcoms@msn.com
From: Adam Sussman <Adam.P.SUSSMAN@wrd.state.or.us>
Subject: Neuschwander (G-15567)
Cc: Phil Ward <Phillip.C.WARD@wrd.state.or.us>, Donn.W.MILLER@wrd.state.or.us, Dwight W French <Dwight.W.FRENCH@wrd.state.or.us>

Scott:

Thank you for your letter dated July 31, 2003 regarding options to resolve "hydraulic connection" issues associated with Mr. Neuschwander's ground water application.

I have asked the ground water section staff to quantify the potential impact to surface water from the proposed ground water use. Once this information is available we can evaluate whether the proposed mitigation is sufficient.

I should have this information available within two weeks.

Please give me a call at (503) 378-8455 ext. 297 if you have any questions.

Adam Sussman
Senior Policy Coordinator

OAA Oregon Agriculture Alliance

PO Box 4323, Portland, OR 97208 503-524-5174, Fax-503-524-5567 ashcoms@msn.com

31 July 2003

RECEIVED
AUG 0 5 2003
WATER RESOURCES DEPT.
SALEM, OREGON

Mr. Adam Sussman
Senior Policy Coordinator
Oregon Water Resources Department
Commerce Building
158 12th St. NE
Salem, Oregon 97301-4172

Quantify impact on stream w/ Kauk + Hunt model

RE: File # G-15567
Applicant: Joel Neuschwander
Agent for the Applicant is Scott Ashcom

Dear Adam:

Thank you for meeting with me last Thursday, 31 July, to discuss how to proceed to finalize approval of application G-15567. You suggested that I send you a letter describing the tentative agreement resulting from a meeting held at the department in late June.

Present at the meeting were Director Paul Cleary, Deputy Director Phil Ward, Barry Norris, Fred Lissner, Donn Miller, Malia Kupillas (hydro-geologist employed by the applicant), and Scott Ashcom (agent for the applicant). The meeting was called to allow the hydro-geologist for the applicant to rebut the presumption of hydrologic interconnection made by Donn Miller. The meeting lasted 1 ½ hours.

All pertinent issues were discussed thoroughly. Mr. Miller maintained that the subject wells were connected but conceded that the connection was not measurable (nor was it measured). He stated that a model was used, not measurements. He stated that the connection occurred because no well seal can prevent leakage from one aquifer to another. Malia Kupillas insisted that the extensive groundwater research that she submitted regarding Mr. Miller's presumption proved that there was no connection.[1]

Mr. Ashcom mentioned that the applicant was willing to mitigate by transferring some or all of his surface water rights to instream use. The Director stated that he thought that was a good way to resolve the issue. The Director stated that a gallon for gallon mitigation was not expected.

Note that application G-15567 covered all Place of Use (POU) acreage in Certificate 20401 (perfected under permit 16827) at a duty of 2.5 AF/ac; it added an additional 2.5 AF/ac to give all POU acreage under Certificate 20401 at total duty of 5 AF/ac (for year-round nursery use); and G-15567 added 85.09 acres POU to be irrigated at Nursery Use duty of 5 AF/ac. The POD for G-15567 is 2 wells as indicated on the application map.

[1] Malia R. Kupillas, R.G., C.W.R.E., and Gregory E. Kupillas, R.G., C.W.R.E., Water Right Application G-15567, Joel Neuschwander (Pacific Hydro-Geology Inc., Mulino). Submitted to Donn Miller, 1 June 2003.

The applicant proposes that the application be approved as submitted, but if that is not possible, that the applicant offers to accept a condition of approval that the groundwater withdrawal be mitigated by entering into an agreement with WRD to transfer his surface water right (Certificate 20401) on a renewable short term lease to WRD for instream use.

This arrangement seemed acceptable to all present, although Mr. Norris suggested that the applicant should continue to work to gain approval of the original application.

This, to the best of my recollection, is the tentative agreement arrived at by those present at the meeting called by the Director regarding application G-15567. If you need anything more from me, please contact me at the letterhead addresses.

Very truly yours,

Scott Ashcom

Scott Ashcom, M.A.
Executive Director

RECEIVED
AUG 0 5 2003
WATER RESOURCES DEPT
SALEM, OREGON

2001

O: Water Rights Section Sept 4, ~~199~~

ROM: Groundwater/Hydrology Section D Mick
Reviewer's Name

UBJECT: Application G- 15567 (Well #2)

GROUNDWATER/SURFACE WATER CONSIDERATIONS

PER THE Willamette Basin rules, one or more of the proposed POA's is/is not within
N/A ____ feet/mile of a surface water source (~~Bear~~ Bear Ck) and taps a groundwater source ~~hydraulically~~ connected to the surface water.
(unconfined alluvium)

BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use

a. X will, or have the potential for substantial interference with the nearest
b. ___ will not surface water source, namely Bear Ck trib ; or
c. ___ will if properly conditioned, adequately protect the surface water from interference:
   i. ___ The permit should contain condition #(s)____;
   ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
   iii. ___ The permit should be conditioned as indicated in item 4 below; or
d. will, with well reconstruction, adequately protect the surface from substantial interference.

GROUNDWATER AVAILABILITY CONSIDERATIONS

BASED UPON available data, I have determined that groundwater for the proposed use

a. ___ will, or likely be available in the amounts requested without injury to prior rights
b. ___ will not and/or within the capacity of the resource; or
c. X will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
   i. X The permit should contain condition #(s) 7E ; March
   ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
   iii. ___ The permit should be conditioned as indicated in item 4 below; or

a. ___ THE PERMIT should allow groundwater production from no deeper than ____ ft. below land surface;
b. ___ The permit should allow groundwater production from no shallower than ____ ft. below land surface;
c. ___ The permit should allow groundwater production only from the ____ groundwater reservoir between approximately ____ ft. and ____ ft. below land surface;
d. ___ Well reconstruction is necessary to accomplish one or more of the above conditions.
e. ___ One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: ____

(Well Construction Considerations on Reverse Side)

G-15567

WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)

5. THE WELL which is the point of appropriation for this application does not meet current well construction standards based upon:
   a.____review of the well log;
   b.____field inspection by _____;
   c.____report of CWRE _____;
   d.____other: (specify) _____
   _____

6. THE WELL construction deficiency:
   a.____constitutes a health threat under Division 200 rules;
   b.____commingles water from more than one groundwater reservoir;
   c.____permits the loss of artesian head;
   d.____permits the de-watering of one or more groundwater reservoirs;
   e.____other: (specify) _____
   _____

7. THE WELL construction deficiency is described as follows: _____
   _____
   _____

8. THE WELL
   a.____was, or
   b.____was not
   constructed according to the standards in effect at the time of original construction or most recent modification.
   c.____I don't know if it met standards at the time of construction.

RECOMMENDATION:

A.____I recommend including the following condition in the permit:
"No water may be appropriated under terms of this permit until the well(s) has been repaired to conform to current well construction standards and proof of such repair is filed with the Enforcement Section of the Water Resources Department."

B.____I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Enforcement Section of the Water Resources Department.

C.____REFER this review to Enforcement Section for concurrence.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

I concur in G/H's recommendation A or B above relating to conditioning or withholding the permit

_____ _____, 199__.
(Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons:_____
_____
_____

_____ _____, 199__.
(Signature)

O: Water Rights Section Sept 4, 2001

ROM: Groundwater/Hydrology Section D Mabee
Reviewer's Name

UBJECT: Application G- 15567 Well #1

GROUNDWATER/SURFACE WATER CONSIDERATIONS

PER THE Willamette Basin rules, one or more of the proposed POA's is/is not within 1/4 feet/mile of a surface water source (Bear Ck + tributary) and taps a groundwater source hydraulically connected to the surface water. N/A uncapped alluvial

BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use

a. X will, or have the potential for substantial interference with the nearest
b. ___ will not surface water source, namely Bear Ck ; or
c. ___ will if properly conditioned, adequately protect the surface water from interference:
   i. ___ The permit should contain condition #(s)_____;
   ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
   iii. ___ The permit should be conditioned as indicated in item 4 below; or
d. will, with well reconstruction, adequately protect the surface from substantial interference.

GROUNDWATER AVAILABILITY CONSIDERATIONS

BASED UPON available data, I have determined that groundwater for the proposed use

a. ___ will, or likely be available in the amounts requested without injury to prior rights
b. ___ will not and/or within the capacity of the resource; or
c. X will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
   i. X The permit should contain condition #(s) 7E ; March
   ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
   iii. ___ The permit should be conditioned as indicated in item 4 below; or

a. ___ THE PERMIT should allow groundwater production from no deeper than _____ ft. below land surface;
b. ___ The permit should allow groundwater production from no shallower than _____ ft. below land surface;
c. ___ The permit should allow groundwater production only from the _____ groundwater reservoir between approximately _____ ft. and _____ ft. below land surface;
d. ___ Well reconstruction is necessary to accomplish one or more of the above conditions.
e. ___ One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: _____

(Well Construction Considerations on Reverse Side)

WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)

5. THE WELL which is the point of appropriation for this application does not meet current well construction standards based upon:
   a.____review of the well log;
   b.____field inspection by _____;
   c.____report of CWRE _____;
   d.____other: (specify) _____
   _____

6. THE WELL construction deficiency:
   a.____constitutes a health threat under Division 200 rules;
   b.____commingles water from more than one groundwater reservoir;
   c.____permits the loss of artesian head;
   d.____permits the de-watering of one or more groundwater reservoirs;
   e.____other: (specify) _____
   _____

7. THE WELL construction deficiency is described as follows: _____
   _____
   _____

8. THE WELL a.____was, or constructed according to the standards in effect at the time of
   b.____was not original construction or most recent modification.
   c.____I don't know if it met standards at the time of construction.

RECOMMENDATION:

A.____I recommend including the following condition in the permit:
"No water may be appropriated under terms of this permit until the well(s) has been repaired to conform to current well construction standards and proof of such repair is filed with the Enforcement Section of the Water Resources Department."

B.____I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Enforcement Section of the Water Resources Department.

C.____REFER this review to Enforcement Section for concurrence.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

I concur in G/H's recommendation A or B above relating to conditioning or withholding the permit

_____ _____, 199__.
(Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons:_____
_____
_____

_____ _____, 199__.
(Signature)

Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE # G-15567

ROUTED TO: Jerry G

TOWNSHIP/
RANGE-SECTION: 4S/1E-32

CONDITIONS ATTACHED? [X] yes [ ] no

REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Don Miller

Water Resources Department

MEMO Sept 4, 2001

TO Application G- 15567

FROM GW: Dan Mellen
(Reviewer's Name)

SUBJECT Scenic Waterway Interference Evaluation

☐ Yes
☒ No

The source of appropriation is within or above a Scenic Waterway.

☐ Yes
☒ No

Use the Scenic Waterway condition (Condition 7J).

PREPONDERANCE OF EVIDENCE FINDING: (Check box only if statement is true)

☒ At this time the Department is unable to find that there is a preponderance of evidence that the proposed use of ground water will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife.

FLOW REDUCTION: *(To be filled out only if Preponderance of Evidence box is not checked)*

Exercise of this permit is calculated to reduce monthly flows in _____ Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

WATER RESOURCES DEPARTMENT

TO: Groundwater/Hydrology Files Date 9/4/01

FROM: Donn Miller

SUBJECT: Groundwater Application G- 15567 Phone: 503.657.3253

Name: Joel Neuschwander

Applicant(s) seek 720 gpm (cfs) from two well(s) in the
#1 - 500 gpm / #2 - 220 gpm Willamette basin
Proposed use: (Irrigation) Nursery Use Molalla/Pudding R sub basin
174.09 AC Rock Ck/Bean Ck sub basin

Pertinent 7 1/2-minute quads Yoder

Well 1 WRD # CLAC 12700 T 4S R 1E S 32 QQ ad County Clack.
Legal Description 1250' W & 530' N from the E 1/4 Corner, Section 32
Well is 800 ft from Bean Ck ① (river/stream)
Well is 1000 ft from Bean Ck trib ② (river/stream)
Well elevation 170 ft. River/stream elevation ① 125 ② 130 ft.
Well elevation-river/stream elevation ① 45 ② 40
Well depth 154 SWL 29 on 5/25/88
Sealed to 20 Depth first water found 31
Cased to 154 Perforations/~~screens~~ 88-150 gravel 75'-90'
Lined to — Perforations/screens —
Well tests and types 500 gpm / 46' dd / 1 hr Pump Test
Confined or unconfined? unconfined Hydraulically connected? yes
Potential to cause substantial interference? yes

Well 2 WRD # CLAC 51287 T 4S R 1E S 32 QQ bd County Clack.
Legal Description 50' W & 50' N from Center, Section 32
Well is 250 ft from Bean Ck trib (river/stream)
Well is - ft from (river/stream)
Well elevation 155 ft. River/stream elevation 130 ft.
Well elevation-river/stream elevation 25
Well depth 140 SWL 47 on (9/10/96)
Sealed to 50 Depth first water found 40
Cased to 140 Perforations/screens 76' to 119' gravel 60'-120'
Lined to — Perforations/screens —
Well tests and types 220 gpm / 4 hrs Air test
Confined or unconfined? unconfined Hydraulically connected? yes
Potential to cause substantial interference? yes

Conditioned water rights in area: yes
Other nearby water rights of record: yes
Density of nearby wells of record: high

Comments: Plate 1 of USGS WSP 1997 estimates the spring WT at well #1 as 130' amsl and @ well #2 as 130' amsl. The info above is temporally consistent with that.
I assess the potential to cause substantial interference per OAR 690-09-040(4)(a). Applicant might test the wells hydraulically in an effort to obtain a more favorable review.

References used: USGS WSP 1997, Yoder topo

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JUN 27 1988

WATER RESOURCES DEPT,
SALEM, OREGON

#1

CLAIM 012700

START CARD 530

4S/1E-32

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

Well Number

(1) OWNER:
Name JOEL NEUSCHWANDER
Address 6059 S WHISKEY HILL RD
City HUBBARD State OR Zip

(2) TYPE OF WORK:
☑ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☐ Rotary Air ☐ Rotary Mud ☑ Cable
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☑ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☑ Depth of Completed Well 154 ft.
Explosives used Yes ☐ No ☐ Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks ~~or pounds~~
12	1	20	GRANULAR BENTONITE	1	20	11
8	20	154				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☑ Other GRANULAR BENTONITE METHOD
Backfill placed from ____ ft. to ____ ft. Material ____
Gravel placed from 75 ft. to 90 ft. Size of gravel PEA

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	154	.250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Location of shoe(s) 154

(7) PERFORATIONS/SCREENS:
☑ Perforations Method DRIVE DOWN
☐ Screens Type ____ Material ____

Diam	From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
8	88	150	3/16 X 1 1/4	400			☑	☐
							☐	☐
							☐	☐
							☐	☐
							☐	☐
							☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
500	46	PUMP	1 hr.
300	21	AIR LIFT	3

Temperature of water ____ Depth Artesian Flow Found ____
Was a water analysis done? ☐ Yes By whom ____
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____
Depth of strata: ____

(9) LOCATION OF WELL by legal description:
County CLACKAMAS Latitude ____ Longitude ____
Township 4S N or S, Range 1E E or W, WM.
Section 32 ____ ¼ SE ¼
Tax Lot ____ Lot ____ Block ____ Subdivision ____
Street Address of Well (or nearest address) S. NEEDY RD, CANBY

(10) STATIC WATER LEVEL:
29 ft. below land surface. Date 5/25/88
Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:
Depth at which water was first found 31

From	To	Estimated Flow Rate	SWL
82	102	800 GPM ≈	30
115	132	500 GPM ≈	30

(12) WELL LOG:
Ground elevation ~170'

Material	From	To	SWL
SOIL	1	3	Seal
CLAY BROWN	3	31	
SAND BROWN	31	31	
CLAY GREY	31	42	
CEMENTED GRAVEL	42	63	
CLAY DK GREY	63	70	
SILT BLACK	70	82	
SAND BLACK FINE	82	92	gravel
CEMENTED GRAVEL	92	105	
CLAY BLUE STICKY	105	115	
CLAY GREY W/ GREY SAND LAYERS	115	132	gravel
CLAY GREEN	132	144	
SILT DARK BROWN.	144	147	
CLAY BLUE GREEN	147	154	
INITIALLY PERFORATED 115 TO 150' AND PRODUCED 150 GPM, total. THEN GRAVEL PACKED 75-102 & 115-132, perforated 88' TO 115'. THEN PRODUCED 300 GPM WITH 21' DRAWDOWN.			

Date started 5/13/88 Completed 5/25/88

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number ____
Signed ____ Date ____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 243
Signed Richard Beck Date 5/25/88

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9809C 10/86

RECEIVED

JAN - 9 1997

WATER RESOURCES DEPT.
SALEM, OREGON

#2

TAG # L02028

62424

CLAC 5128?

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

(START CARD) # _____

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number _____

Name Neuschwander's Nursery

Address 6097 S. Whiskey Hill Rd

City Hubbard State Or Zip 97032

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[ ] Rotary Air [ ] Rotary Mud [X] Cable [ ] Auger

[ ] Other _____

(4) PROPOSED USE:

[ ] Domestic [ ] Community [ ] Industrial [X] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other _____

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [ ] No Depth of Completed Well 140 ft.

Explosives used [ ] Yes [ ] No Type _____ Amount _____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12	1	50	Bentonite	1	50	35 sacks
8	50	140				

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E

[X] Other Granular Bentonite method

Backfill placed from _____ ft. to _____ ft. Material _____

Gravel placed from 60 ft. to 120 ft. Size of gravel pea

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	140	.25	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s) 140

(7) PERFORATIONS/SCREENS: Drive Down

[X] Perforations Method _____

[ ] Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
76	119	.188	600			[X]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

(8) WELL TESTS: Minimum testing time is 1 hour

[ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
		air line @	1 hr.
220		105	4 hr

Temperature of water 53 Depth Artesian Flow Found _____

Was a water analysis done? [ ] Yes By whom _____

Did any strata contain water not suitable for intended use? [ ] Too little

[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other _____

Depth of strata: _____

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude _____ Longitude _____

Township 4s N or S Range 1e E or W. WM.

Section 32 Se 1/4 Nw 1/4

Tax Lot 900 Lot _____ Block _____ Subdivision _____

Street Address of Well (or nearest address) _____

29435 S Needy Rd

(10) STATIC WATER LEVEL:

47 ft. below land surface. Date Sep 10, 1996

Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 40

From	To	Estimated Flow Rate	SWL
40	140		47

(12) WELL LOG:

Ground Elevation 155'

Material	From	To	SWL
Soil	1	3	Seal
Clay, Brown	3	38	
Cemented gravel, brown	38	54	47
Clay, grey	54	58	
Clay, grey, sandy	58	60	
Sand, black, fine	60	69	
Sand and gravel, black	69	71	Gravel Pack
Cemented gravel, sand	71	74	
Sand & gravel	74	95	
Clay, blue	95	98	Perf.
clay, grey, silty	98	101	
Silt, dark grey	101	108	
Clay w/black coarse sand	108	116	
Clay, grey w/some cemented gravel	116	136	
Clay, blue	136	140	
Note: 6 inch gravel feed each side of			
8 inch well			

Date started August 8, 1996 Completed Dec 10, 1996

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number _____

Signed _____ Date _____

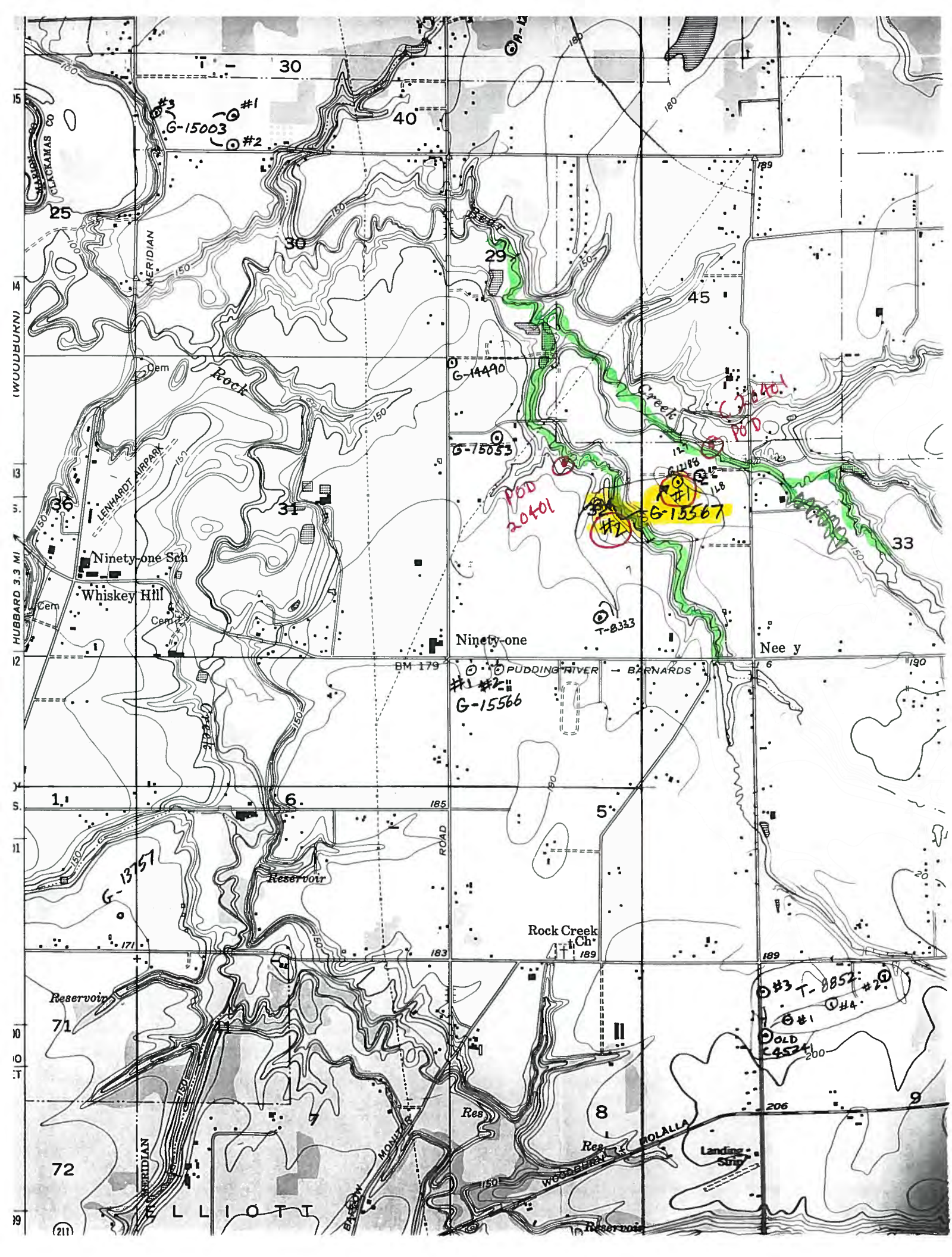
(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 243

Signed Richard Beck Date 1/4/97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER


G-15003
#1
#2
#3
G-14490
G-15053
G-15567
#1
#2
POD
20401
G-15566
#1
#2
G-13751
T-8323
T-8852
#1
#2
#3
#4
OLD
45241
Ninety-one Sch
Whiskey Hill
Ninety-one
Nee y
PUDDING RIVER → BARNARDS
Rock Creek Ch
Reservoir
Reservoir
Reservoir
Res
Res
Landing Strip
LENHARDT AIRPARK
MERIDIAN
MERIDIAN
ROAD
MOLALLA
Rock Creek
Creek
Cem
Cem
Cem
BM 179
HUBBARD 3.3 MI
(WOODBURN)
CLACKAMAS CO
MARION CO
E L L I O T T
25
30
29
45
36
31
32
33
1
6
5
8
9
71
72
11
12
13
14
15
10
180
150
185
183
189
206
200
190
171

PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 15567

$RECNO	APPLICATION		PERMIT		LOC-QQ	USE	RATE	DIV-UNITS
1	G	6496	G	6113	4.00S 1.00E20SWSE	IR	0.0800	C
2	G	5550	G	5427	4.00S 1.00E21SWSE	IS	0.8000	C
2	G	7750	G	7198	4.00S 1.00E21SWSE	IR	0.5300	C
3	G	12708	G	11601	4.00S 1.00E30NWNW	IR	0.2700	C
4	G	6840	G	6330	4.00S 1.00E30NENW	IR	0.3800	C
5	G	12696	G	11654	4.00S 1.00E30NWNE	AG	0.1600	C
5	G	12696	G	11654	4.00S 1.00E30NWNE	IR	0.1300	C
5	G	12656	G	11768	4.00S 1.00E30NWNE	AG	0.4500	C
5	G	12656	G	11768	4.00S 1.00E30NWNE	IR	0.2300	C
6	G	3967	G	3725	4.00S 1.00E29NWNW	IR	0.1100	C
6	G	11748	G	10848	4.00S 1.00E29NWNW	NU	150.0000	G
6	G	12894	G	12136	4.00S 1.00E29NWNW	IR	1.5300	C
7	GR	3352	GR	3871	4.00S 1.00E28NWNW	IR	125.0000	G
8	G	2330	G	2153	4.00S 1.00E28NENW	IR	0.2400	C
8	G	3972	G	3729	4.00S 1.00E28NENW	IR	0.9800	C
9	G	13854	G	12601	4.00S 1.00E30SWNE	AG	0.2700	A
9	G	13854	G	12601	4.00S 1.00E30SWNE	IR	0.2700	C
10	G	8395	G	9486	4.00S 1.00E29SWNW	IR	0.2700	C
10	G	8395	G	9486	4.00S 1.00E29SWNW	NU	0.1500	C
11	G	13284	G	11878	4.00S 1.00E29SENW	IR	0.7500	C
12	G	3823	G	3604	4.00S 1.00E29SWNE	IR	0.0400	C
12	G	13465	G	11917	4.00S 1.00E29SWNE	IR	0.2200	C
12	G	13465	G	11917	4.00S 1.00E29SWNE	NU	0.2520	C
13	G	12378	G	11495	4.00S 1.00E29SENE	IR	0.1750	C
13	G	12378	G	11495	4.00S 1.00E29SENE	NU	0.0880	C
14	G	2330	G	2153	4.00S 1.00E28SENW	IR	0.4700	C
14	G	2330	G	2153	4.00S 1.00E28SENW	IR	0.7100	C
15	G	2162	G	2167	4.00S 1.00E28SWNE	IR	0.2200	C
16	G	13854	G	12601	4.00S 1.00E30NESW	AG	0.5400	C
16	G	13854	G	12601	4.00S 1.00E30NESW	IR	0.5400	C
17	G	5088	G	4803	4.00S 1.00E29NWSE	IS	0.1400	C
17	G	13885	G	12519	4.00S 1.00E29NWSE	AG	0.0500	C
17	G	13885	G	12519	4.00S 1.00E29NWSE	IR	0.2000	C
18	G	3391	G	3185	4.00S 1.00E28NWSW	IR	0.6200	C
18	G	13886	G	12609	4.00S 1.00E28NWSW	AG	0.6150	C
18	G	13886	G	12609	4.00S 1.00E28NWSW	AG	0.6310	C
18	G	13886	G	12609	4.00S 1.00E28NWSW	IR	0.6150	C
18	G	13886	G	12609	4.00S 1.00E28NWSW	IR	0.6310	C
19	G	2980	G	2776	4.00S 1.00E28NESE	IR	0.8500	C
19	G	11946	G	10989	4.00S 1.00E28NESE	IR	0.0350	C
19	G	11946	G	10989	4.00S 1.00E28NESE	IR	0.4050	C
20	G	7087	G	6556	4.00S 1.00E30SESE	IR	2.3500	C
21	G	6251	G	5893	4.00S 1.00E29SESE	IR	0.2100	C
22	G	13886	G	12609	4.00S 1.00E28SWSW	AG	0.2000	C
22	G	13886	G	12609	4.00S 1.00E28SWSW	IR	0.2000	C
23	G	2980	G	2776	4.00S 1.00E28SESW	IR	0.1100	C
24	G	2980	G	2776	4.00S 1.00E28SESE	IR	0.1900	C
24	G	2980	G	2776	4.00S 1.00E28SESE	IR	1.0500	C
24	G	11946	G	10989	4.00S 1.00E28SESE	IR	0.0350	C
24	G	11946	G	10989	4.00S 1.00E28SESE	IR	0.4050	C
25	G	3997	G	3751	4.00S 1.00E32NENE	IR	0.6700	C
26	G	5629	G	4921	4.00S 1.00E33NENW	IR	0.3000	C
26	G	5629	G	4921	4.00S 1.00E33NENW	IR	0.5600	C
27	G	2990	G	2781	4.00S 1.00E33SWNW	IR	0.1400	C
28	G	5125	G	4863	4.00S 1.00E31NWSE	IR	1.1000	C
29	GR	2866	GR	2700	4.00S 1.00E31SWSE	IR	375.0000	G
30	G	13884	G	12520	4.00S 1.00E32SWSW	AG	0.1125	C
31	G	5629	G	4921	4.00S 1.00E32SESW	IC	1.9700	C
31	G	5629	G	4921	4.00S 1.00E32SESW	IR	1.5100	C
32	G	13235	G	12084	4.00S 1.00E33SESW	AG	1.0000	C
32	G	13235	G	12084	4.00S 1.00E33SESW	IR	1.0000	C
33	G	13340	G	12405	5.00S 1.00E 4NWNW	IR	0.3500	C
34	G	10887	G	10030	5.00S 1.00E 4NENW	IR	0.2400	C
35	G	9418	G	8752	5.00S 1.00E 4NENE	IR	0.2400	C
36	GR	3713	GR	3394	5.00S 1.00E 3NWNW	IR	50.0000	G
37	G	12215	G	11528	5.00S 1.00E 6SWNW	NU	0.1000	C
37	G	12215	G	11528	5.00S 1.00E 6SWNW	NU	0.5000	C
37	GR	3276	GR	3046	5.00S 1.00E 6SWNW	IR	50.0000	G

38	G	1815	G	1660	5.00S	1.00E	4SWNW	IR	0.1900 C
38	G	5045	G	4755	5.00S	1.00E	4SWNW	IR	0.2700 C
38	G	12597	G	11343	5.00S	1.00E	4SWNW	IR	1.3200 C
39	G	493	G	378	5.00S	1.00E	5NWSW	IR	0.3050 C
39	G	493	G	378	5.00S	1.00E	5NWSW	IR	0.3600 C
39	G	9829	G	9500	5.00S	1.00E	5NWSW	IR	0.2400 C
40	G	5575	G	5030	5.00S	1.00E	5NWSE	IR	0.5000 C
41	G	6226	G	5683	5.00S	1.00E	6SWSW	IR	0.1800 C
42	G	5336	G	5480	5.00S	1.00E	6SESW	IR	0.0100 C
42	GR	1851	GR	1796	5.00S	1.00E	6SESW	IR	98.0000 G
43	GR	2752	GR	4031	5.00S	1.00E	6SESE	IR	60.0000 G
44	GR	2420	GR	2300	5.00S	1.00E	5SWSW	IR	100.0000 G
45	G	13835	G	12277	5.00S	1.00E	5SESW	IR	0.2500 C
46	G	1472	G	1351	5.00S	1.00E	5SESE	IR	0.4500 C
47	G	5218	G	5079	5.00S	1.00E	4SESE	IR	0.8000 C
48	G	8628	G	7946	5.00S	1.00E	8NENW	IR	0.7000 C

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CONDITIONED WELLS WITHIN 5 MILES OF APPLICATION G 15567

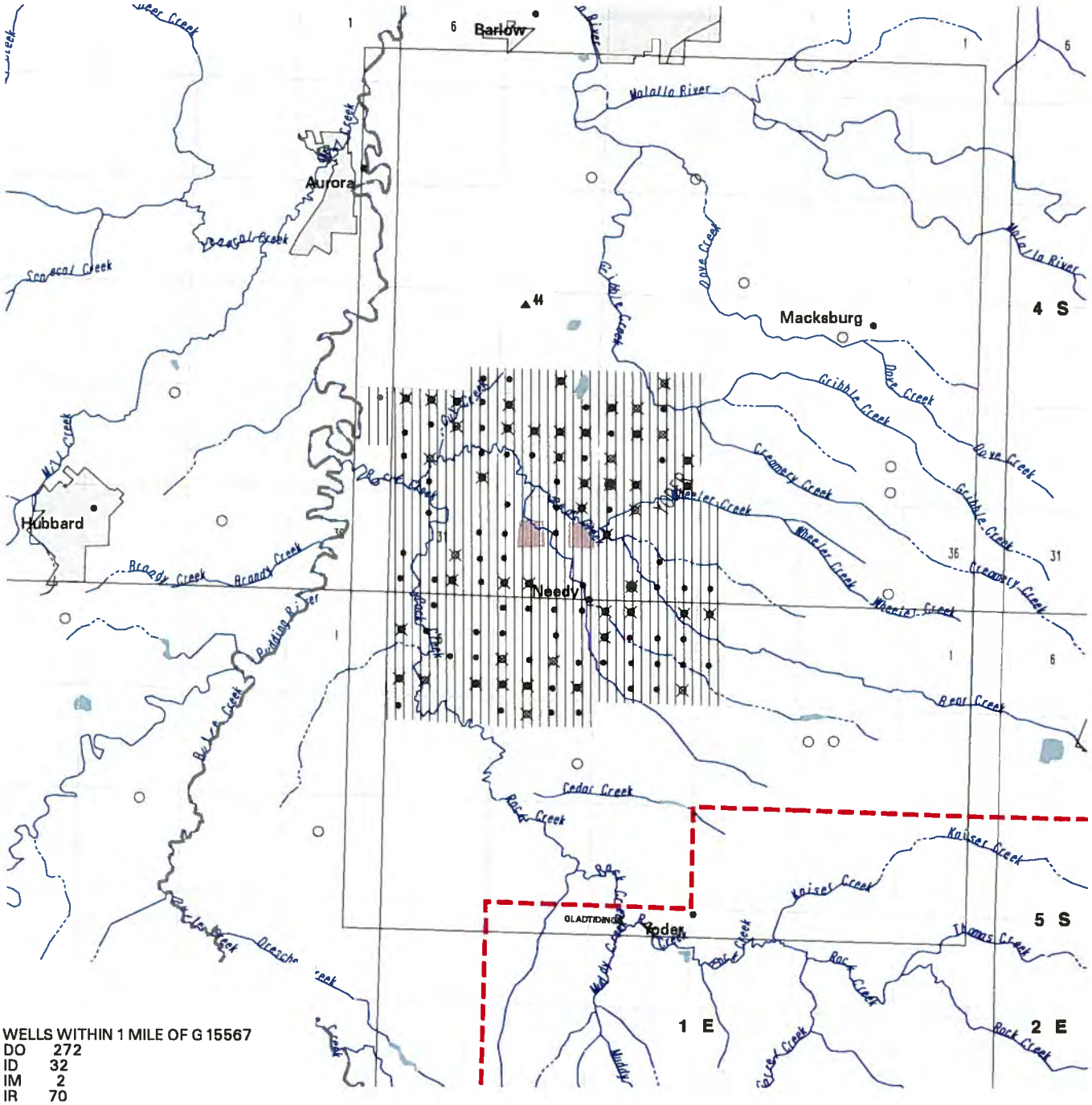
$RECNO	APPLICATION		PERMIT		LOC-QQ			CONDITION-CODE
1	G	13144	G	12013	4.00S	1.00W	27NENE	4LG
1	G	13144	G	12013	4.00S	1.00W	27NENE	4LW
2	G	13893	G	12425	4.00S	1.00W	35SENW	7BG
2	G	13893	G	12425	4.00S	1.00W	35SENW	7BR
3	G	13195	G	12095	4.00S	1.00E	8SESE	4IG
3	G	13195	G	12095	4.00S	1.00E	8SESE	4IR
3	G	13195	G	12095	4.00S	1.00E	8SESE	4IG
3	G	13195	G	12095	4.00S	1.00E	8SESE	4IR
4	G	13325	G	11962	4.00S	1.00E	9SESE	4K
5	G	12884	G	11633	4.00S	1.00E	15SESW	4GG
6	G	13279	G	11778	4.00S	1.00E	23SENW	4IG
6	G	13279	G	11778	4.00S	1.00E	23SENW	4IR
7	G	12998	G	11741	4.00S	1.00E	26NESE	4GG
8	G	13886	G	12609	4.00S	1.00E	28SWSW	7BG
8	G	13886	G	12609	4.00S	1.00E	28SWSW	7BR
8	G	13886	G	12609	4.00S	1.00E	28SWSW	7BG
8	G	13886	G	12609	4.00S	1.00E	28SWSW	7BR
9	G	13449	G	12126	4.00S	1.00E	26SESE	7BG
9	G	13449	G	12126	4.00S	1.00E	26SESE	7BR
10	G	13235	G	12084	4.00S	1.00E	33SESW	4IG
10	G	13235	G	12084	4.00S	1.00E	33SESW	4IR
10	G	13235	G	12084	4.00S	1.00E	33SESW	4KG
10	G	13235	G	12084	4.00S	1.00E	33SESW	4IG
10	G	13235	G	12084	4.00S	1.00E	33SESW	4IR
10	G	13235	G	12084	4.00S	1.00E	33SESW	4KG
11	G	11939	G	11443	4.00S	1.00E	35SESE	4H
11	G	11939	G	11443	4.00S	1.00E	35SESE	4I
12	G	14072	G	12874	5.00S	1.00W	4SENE	7BG
12	G	14072	G	12874	5.00S	1.00W	4SENE	7BR
13	G	12799	G	11614	5.00S	1.00W	15NWNE	4GG
13	GR	771	GR	746	5.00S	1.00W	15NWNE	
14	G	13661	G	12034	5.00S	1.00W	13SENW	4KG
14	G	13661	G	12034	5.00S	1.00W	13SENW	4KG
15	G	13260	G	11705	5.00S	1.00W	26SWNW	4IG
16	G	13260	G	11705	5.00S	1.00W	26SENW	4IG
17	G	13079	G	12161	5.00S	1.00E	11SWNW	7DG
17	G	13079	G	12161	5.00S	1.00E	11SWNW	7DR
17	G	13079	G	12161	5.00S	1.00E	11SWNW	7DG
17	G	13079	G	12161	5.00S	1.00E	11SWNW	7DR
18	G	13079	G	12161	5.00S	1.00E	11SENW	7DG
18	G	13079	G	12161	5.00S	1.00E	11SENW	7DR
18	G	13079	G	12161	5.00S	1.00E	11SENW	7DG
18	G	13079	G	12161	5.00S	1.00E	11SENW	7DR
19	G	12985	G	11958	5.00S	1.00E	8NESE	4K
19	G	12985	G	11958	5.00S	1.00E	8NESE	4K

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APPLICATION G 15567 FALLS WITHIN THESE QUAD(S)

Wells in the vicinity of application G 15567

- Application well(s) in this 1/4-1/4 section
- Well(s) identified in this section from OWRD's well log database within 1 mi. radius of application well(s)
- Well(s) identified in this 1/4-1/4 section from OWRD's well log database within 1 mi. radius of application well(s)
- Permitted well(s) in this 1/4-1/4 section within 1 mi. radius of application well(s)
- Conditioned, permitted well(s) in this 1/4-1/4 section within 5 mi. radius of application well(s)
- OWRD Observation well and well-id within 5 mi. radius of application well(s)
- Critical GW Area
- Regulated GW Area



WELLS WITHIN 1 MILE OF G 15567

DO	272
ID	32
IM	2
IR	70
MU	2

YODER

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The following OWRD Groundwater Management Areas are within the map extent:

$RECNO	NAME1	NAME2	SUB-AREA	STATUS
1	GLADTIDINGS			LIMI

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WATER AVAILABILITY TABLE

Water Availability as of 7/22/2002 for
PUDDING R > MOLALLA R - AB MILL CR

Watershed ID #: 151 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

Item #	Watershed ID #	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Sto
1	181	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
2	69796	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO	YES	YES	YES
3	69998	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO	YES	YES	YES
4	151	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO	YES	YES	YES

STREAM NAMES

Water Availability as of 7/22/2002 for
PUDDING R > MOLALLA R - AB MILL CR

Watershed ID #: 151 Basin: WILLAMETTE Exceedance Level: 80

Item	Watershed ID	Stream Name
1	181	WILLAMETTE R > COLUMBIA R - AT MOUTH
2	69796	MOLALLA R > WILLAMETTE R - AT MOUTH
3	69998	PUDDING R > MOLALLA R - AT MOUTH
4	151	PUDDING R > MOLALLA R - AB MILL CR

LIMITING WATERSHEDS

Water Availability as of 7/22/2002 for
PUDDING R > MOLALLA R - AB MILL CR

Watershed ID #: 151 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

Mnth	Limiting Watershed	Stream Name	Water Avail?	Net Water Available
1	151	PUDDING R > MOLALLA R - AB MILL CR	YES	929.0
2	151	PUDDING R > MOLALLA R - AB MILL CR	YES	1070.0
3	151	PUDDING R > MOLALLA R - AB MILL CR	YES	926.0
4	151	PUDDING R > MOLALLA R - AB MILL CR	YES	707.0
5	69998	PUDDING R > MOLALLA R - AT MOUTH	YES	314.0
6	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	NO	-176.0
7	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	NO	-169.0
8	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	NO	-104.0
9	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	NO	-86.5
10	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	NO	-286.0
11	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	YES	97.9
12	151	PUDDING R > MOLALLA R - AB MILL CR	YES	849.0
Stor	151	PUDDING R > MOLALLA R - AB MILL CR	YES	622000.0

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION
Water Availability as of 7/22/2002 for
WILLAMETTE R > COLUMBIA R - AT MOUTH

Watershed ID #: 181 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

Month	Natural Stream Flow	CU + Stor Prior to 1/1/93	CU + Stor After 1/1/93	Expected Stream Flow	Reserved Stream Flow	Instream Water Rights	Net Water Available
1	27500.00	1960.00	323.00	25200.00	0.00	1500.00	23700.00
2	30000.00	7250.00	320.00	22400.00	0.00	1500.00	20900.00
3	28500.00	6880.00	309.00	21300.00	0.00	1500.00	19800.00
4	25400.00	6590.00	297.00	18500.00	0.00	1500.00	17000.00
5	20700.00	3940.00	287.00	16500.00	0.00	1500.00	15000.00
6	11000.00	1690.00	483.00	8830.00	0.00	1500.00	7330.00
7	6280.00	1660.00	494.00	4130.00	0.00	1500.00	2630.00
8	4890.00	1460.00	459.00	2970.00	0.00	1500.00	1470.00
9	4930.00	1090.00	429.00	3410.00	0.00	1500.00	1910.00
10	5990.00	355.00	225.00	5410.00	0.00	1500.00	3910.00
11	12700.00	502.00	267.00	11900.00	0.00	1500.00	10400.00
12	24800.00	640.00	321.00	23800.00	0.00	1500.00	22300.00
Stor	19700000	2030000	254000	17400000	0	1090000	16400000

DETAILED REPORT OF CONSUMPTIVE USES AND STORAGES
Water Availability as of 7/22/2002 for
WILLAMETTE R > COLUMBIA R - AT MOUTH

Watershed ID #: 181 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

Mo	Storage	Irrig	Munic	Ind/Man	Commer	Domest	Agricul	Other	Total
1	1696.03	0.00	334.10	101.34	7.21	23.80	80.63	40.47	2280.00
2	6983.24	0.00	334.10	101.34	7.21	23.80	80.63	40.47	7570.00
3	6591.42	6.54	334.11	101.34	7.21	23.80	83.10	40.47	7190.00
4	6260.01	43.51	334.11	101.34	7.21	23.80	79.66	40.47	6890.00
5	3372.70	297.45	330.26	101.33	7.06	23.80	57.85	40.38	4230.00
6	441.65	595.45	908.08	101.08	6.91	23.80	57.52	40.31	2170.00
7	13.81	1017.67	905.27	95.80	6.91	23.80	46.61	40.12	2150.00
8	1.97	798.45	905.27	95.80	6.91	22.39	45.21	40.12	1920.00
9	0.66	394.86	903.02	101.03	6.91	22.40	47.72	40.31	1520.00
10	0.17	28.17	332.32	101.08	6.91	22.40	48.36	40.31	580.00
11	193.20	0.00	334.10	101.08	7.21	23.80	69.59	40.47	769.00
12	372.68	0.00	334.10	101.34	7.21	23.80	80.63	40.47	960.00

DETAILED REPORT OF RESERVATIONS FOR CONSUMPTIVE USE
Water Availability as of 7/22/2002 for
WILLAMETTE R > COLUMBIA R - AT MOUTH

Watershed ID #: 181 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

	Reservations							
APP #	0	0	0	0	0	0	0	TOTAL
Status Use								
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DETAILED REPORT OF INSTREAM REQUIREMENTS
Water Availability as of 7/22/2002 for
WILLAMETTE R > COLUMBIA R - AT MOUTH

Watershed ID #: 181 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

	ISWRs							
APP #	181A	0	0	0	0	0	0	MAXIMUM
Status	Cert.							
1	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
2	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
3	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
4	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
5	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
6	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
7	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
8	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
9	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
10	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
11	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
12	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION
Water Availability as of 7/22/2002 for
MOLALLA R > WILLAMETTE R - AT MOUTH

Watershed ID #: 69796 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

Month	Natural Stream Flow	CU + Stor Prior to 1/1/93	CU + Stor After 1/1/93	Expected Stream Flow	Reserved Stream Flow	Instream Water Rights	Net Water Available
1	1870.00	22.20	45.60	1800.00	0.00	500.00	1300.00
2	2010.00	21.10	44.20	1940.00	0.00	500.00	1440.00
3	1830.00	8.36	38.60	1780.00	0.00	500.00	1280.00
4	1530.00	11.30	32.90	1490.00	0.00	500.00	986.00
5	927.00	46.80	27.80	852.00	0.00	500.00	352.00
6	431.00	79.30	28.20	324.00	0.00	500.00	-176.00
7	204.00	136.00	36.70	31.30	0.00	200.00	-169.00
8	139.00	111.00	31.80	-4.17	0.00	100.00	-104.00
9	134.00	48.40	22.10	63.50	0.00	150.00	-86.50
10	188.00	11.20	13.00	164.00	0.00	450.00	-286.00
11	637.00	14.00	25.10	598.00	0.00	500.00	97.90
12	1700.00	22.40	44.20	1630.00	0.00	500.00	1130.00
Stor	1320000	32300	23500	1270000	0	295000	992000

DETAILED REPORT OF CONSUMPTIVE USES AND STORAGES
Water Availability as of 7/22/2002 for
MOLALLA R > WILLAMETTE R - AT MOUTH

Watershed ID #: 69796 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

Mo	Storage	Irrig	Munic	Ind/Man	Commer	Domest	Agricul	Other	Total
1	44.90	0.00	4.55	1.79	0.48	0.98	7.59	7.46	67.70
2	42.44	0.00	4.55	1.79	0.48	0.98	7.59	7.46	65.30
3	22.85	1.28	4.55	1.79	0.48	0.98	7.59	7.46	47.00
4	16.00	5.34	4.55	1.79	0.48	0.98	7.59	7.46	44.20
5	8.05	46.54	4.55	1.79	0.33	0.98	5.00	7.37	74.60
6	1.47	77.22	13.66	1.79	0.18	0.98	4.84	7.30	107.00
7	0.00	143.91	13.66	1.79	0.18	0.98	4.84	7.30	173.00
8	0.00	114.41	13.66	1.79	0.18	0.98	4.84	7.30	143.00
9	0.00	41.72	13.66	1.79	0.18	0.98	4.84	7.30	70.50
10	0.00	4.58	4.55	1.79	0.18	0.98	4.84	7.30	24.20
11	18.43	0.00	4.55	1.79	0.48	0.98	5.42	7.46	39.10
12	43.71	0.00	4.55	1.79	0.48	0.98	7.59	7.46	66.60

DETAILED REPORT OF RESERVATIONS FOR CONSUMPTIVE USE
Water Availability as of 7/22/2002 for
MOLALLA R > WILLAMETTE R - AT MOUTH

Watershed ID #: 69796 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

	Reservations							
APP #	0	0	0	0	0	0	0	TOTAL
Status Use								
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DETAILED REPORT OF INSTREAM REQUIREMENTS
Water Availability as of 7/22/2002 for
MOLALLA R > WILLAMETTE R - AT MOUTH

Watershed ID #: 69796 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

	ISWRs							
APP #	69796A	0	0	0	0	0	0	MAXIMUM
Status	Cert.							
1	500.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
2	500.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
3	500.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
4	500.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
5	500.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
6	500.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
7	200.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
8	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
9	150.00	0.00	0.00	0.00	0.00	0.00	0.00	150.00
10	450.00	0.00	0.00	0.00	0.00	0.00	0.00	450.00
11	500.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
12	500.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION
Water Availability as of 7/22/2002 for
PUDDING R > MOLALLA R - AT MOUTH

Watershed ID #: 69998 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

Month	Natural Stream Flow	CU + Stor Prior to 1/1/93	CU + Stor After 1/1/93	Expected Stream Flow	Reserved Stream Flow	Instream Water Rights	Net Water Available
1	1120.00	17.70	43.70	1060.00	0.00	80.00	979.00
2	1260.00	17.10	42.30	1200.00	0.00	80.00	1120.00
3	1080.00	3.55	36.80	1040.00	0.00	80.00	960.00
4	834.00	6.38	31.10	797.00	0.00	80.00	717.00
5	448.00	28.00	25.90	394.00	0.00	80.00	314.00
6	231.00	58.10	26.50	146.00	0.00	60.00	86.40
7	111.00	96.00	34.70	-19.70	0.00	50.00	-69.70
8	71.60	77.70	29.90	-36.00	0.00	40.00	-76.00
9	67.90	41.80	20.60	5.52	0.00	40.00	-34.50
10	91.50	5.46	11.60	74.40	0.00	60.00	14.40
11	364.00	8.81	23.40	332.00	0.00	80.00	252.00
12	1010.00	17.00	42.30	951.00	0.00	80.00	871.00
Stor	748000	22900	22200	704000	0	48900	660000

DETAILED REPORT OF CONSUMPTIVE USES AND STORAGES
Water Availability as of 7/22/2002 for
PUDDING R > MOLALLA R - AT MOUTH

Watershed ID #: 69998 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

Mo	Storage	Irrig	Munic	Ind/Man	Commer	Domest	Agricul	Other	Total
1	44.50	0.00	2.45	0.33	1.33	0.31	5.14	7.40	61.50
2	42.41	0.00	2.45	0.33	1.33	0.31	5.14	7.39	59.40
3	22.66	0.75	2.45	0.33	1.33	0.31	5.14	7.39	40.40
4	15.85	4.65	2.45	0.33	1.33	0.31	5.14	7.39	37.50
5	8.00	31.83	2.45	0.33	1.18	0.31	2.56	7.30	54.00
6	1.46	64.25	7.36	0.33	1.03	0.31	2.56	7.30	84.60
7	0.00	111.79	7.36	0.33	1.03	0.31	2.56	7.30	131.00
8	0.00	88.75	7.36	0.33	1.03	0.31	2.56	7.30	108.00
9	0.00	43.49	7.36	0.33	1.03	0.31	2.56	7.30	62.40
10	0.00	3.09	2.45	0.33	1.03	0.31	2.56	7.30	17.10
11	17.40	0.00	2.45	0.33	1.33	0.31	2.97	7.39	32.20
12	42.31	0.00	2.45	0.33	1.33	0.31	5.14	7.39	59.30

DETAILED REPORT OF RESERVATIONS FOR CONSUMPTIVE USE
Water Availability as of 7/22/2002 for
PUDDING R > MOLALLA R - AT MOUTH

Watershed ID #: 69998 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

	Reservations							
APP #	0	0	0	0	0	0	0	TOTAL
Status / Use								
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DETAILED REPORT OF INSTREAM REQUIREMENTS
Water Availability as of 7/22/2002 for
PUDDING R > MOLALLA R - AT MOUTH

Watershed ID #: 69998 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

	ISWRs							
APP #	69998A	73532A	0	0	0	0	0	MAXIMUM
Status	Cert.	Cert.						
1	80.00	36.00	0.00	0.00	0.00	0.00	0.00	80.00
2	80.00	36.00	0.00	0.00	0.00	0.00	0.00	80.00
3	80.00	36.00	0.00	0.00	0.00	0.00	0.00	80.00
4	80.00	36.00	0.00	0.00	0.00	0.00	0.00	80.00
5	80.00	36.00	0.00	0.00	0.00	0.00	0.00	80.00
6	60.00	36.00	0.00	0.00	0.00	0.00	0.00	60.00
7	50.00	36.00	0.00	0.00	0.00	0.00	0.00	50.00
8	40.00	36.00	0.00	0.00	0.00	0.00	0.00	40.00
9	40.00	36.00	0.00	0.00	0.00	0.00	0.00	40.00
10	60.00	36.00	0.00	0.00	0.00	0.00	0.00	60.00
11	80.00	36.00	0.00	0.00	0.00	0.00	0.00	80.00
12	80.00	36.00	0.00	0.00	0.00	0.00	0.00	80.00

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION
Water Availability as of 7/22/2002 for
PUDDING R > MOLALLA R - AB MILL CR

Watershed ID #: 151 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

Month	Natural Stream Flow	CU + Stor Prior to 1/1/93	CU + Stor After 1/1/93	Expected Stream Flow	Reserved Stream Flow	Instream Water Rights	Net Water Available
1	1040.00	36.70	38.10	965.00	0.00	36.00	929.00
2	1180.00	35.70	36.70	1110.00	0.00	36.00	1070.00
3	1010.00	16.20	31.30	962.00	0.00	36.00	926.00
4	787.00	18.80	25.60	743.00	0.00	36.00	707.00
5	425.00	38.90	19.60	366.00	0.00	36.00	330.00
6	224.00	62.60	18.50	143.00	0.00	36.00	107.00
7	109.00	97.70	24.60	-13.30	0.00	36.00	-49.30
8	71.00	80.80	20.80	-30.60	0.00	36.00	-66.60
9	67.30	47.50	13.50	6.27	0.00	36.00	-29.70
10	91.60	18.00	6.77	66.80	0.00	36.00	30.80
11	363.00	24.40	18.20	320.00	0.00	36.00	284.00
12	957.00	35.60	36.70	885.00	0.00	36.00	849.00
Stor	706000	31100	17500	658000	0	26100	635000

DETAILED REPORT OF CONSUMPTIVE USES AND STORAGES
Water Availability as of 7/22/2002 for
PUDDING R > MOLALLA R - AB MILL CR

Watershed ID #: 151 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

Mo	Storage	Irrig	Munic	Ind/Man	Commer	Domest	Agricul	Other	Total
1	50.20	0.00	15.00	0.33	0.03	0.27	4.93	4.00	74.80
2	47.85	0.00	15.00	0.33	0.03	0.27	4.93	4.00	72.40
3	22.28	0.68	15.00	0.33	0.03	0.27	4.93	4.00	47.50
4	15.65	4.20	15.00	0.33	0.03	0.27	4.93	4.00	44.40
5	7.96	28.58	15.00	0.33	0.03	0.27	2.35	4.00	58.50
6	1.45	57.69	15.01	0.33	0.03	0.27	2.35	4.00	81.10
7	0.00	100.32	15.01	0.33	0.03	0.27	2.35	4.00	122.00
8	0.00	79.65	15.01	0.33	0.03	0.27	2.35	4.00	102.00
9	0.00	39.04	15.01	0.33	0.03	0.27	2.35	4.00	61.00
10	0.00	2.78	15.00	0.33	0.03	0.27	2.35	4.00	24.80
11	20.17	0.00	15.00	0.33	0.03	0.27	2.76	4.00	42.60
12	47.82	0.00	15.00	0.33	0.03	0.27	4.93	4.00	72.40

DETAILED REPORT OF RESERVATIONS FOR CONSUMPTIVE USE
Water Availability as of 7/22/2002 for
PUDDING R > MOLALLA R - AB MILL CR

Watershed ID #: 151 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

	Reservations							
APP #	0	0	0	0	0	0	0	TOTAL
Status Use								
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DETAILED REPORT OF INSTREAM REQUIREMENTS
Water Availability as of 7/22/2002 for
PUDDING R > MOLALLA R - AB MILL CR

Watershed ID #: 151 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:31 Date: 07/22/2002

	ISWRs							
APP #	151A	73532B	73533A	73534A	0	0	0	MAXIMUM
Status	Cert.	Cert.	Cert.	Cert.				
1	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
2	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
3	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
4	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
5	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
6	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
7	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
8	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
9	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
10	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
11	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00
12	35.00	36.00	16.00	11.00	0.00	0.00	0.00	36.00

LIMITING WATERSHEDS
Water Availability as of 7/22/2002 for
PUDDING R > MOLALLA R - AB MILL CR

Watershed ID #: 151 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:34 Date: 07/22/2002

Mnth	Limiting Watershed	Stream Name	Water Avail?	Net Water Available
1	151	PUDDING R > MOLALLA R - AB MILL CR	YES	929.0
2	151	PUDDING R > MOLALLA R - AB MILL CR	YES	1070.0
3	151	PUDDING R > MOLALLA R - AB MILL CR	YES	926.0
4	151	PUDDING R > MOLALLA R - AB MILL CR	YES	707.0
5	69998	PUDDING R > MOLALLA R - AT MOUTH	YES	314.0
6	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	NO	-176.0
7	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	NO	-169.0
8	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	NO	-104.0
9	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	NO	-86.5
10	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	NO	-286.0
11	69796	MOLALLA R > WILLAMETTE R - AT MOUTH	YES	97.9
12	151	PUDDING R > MOLALLA R - AB MILL CR	YES	849.0
Stor	151	PUDDING R > MOLALLA R - AB MILL CR	YES	622000.0

To: <phg@bctonline.com>
From: Donn Miller <Donn.W.MILLER@wrd.state.or.us>
Subject: RE: Neushberger Division 9
Cc:
Bcc:
Attached:

Malia,

I've looked over my notes for application G-15567, Joel Neuschwander.

I don't see a well construction issue based on the well report information. So, I think that the Division 9 determination is separate from well construction.

At this point it's hard to imagine that the wells are not hydraulically connected to Bear Creek or its tributary.

Perhaps we should discuss your pump test approach before you proceed.

Donn

At 12:42 PM 07/18/2002 -0700, you wrote:
-->

Yes, it sounds right. Someone else submitted the application and that person only sent me a copy of the application map after I called them a second time. They were supposed to fax me the initial review, but I will pick it up at WRD.

I will see you tomorrow.

Malia

-----Original Message-----
From: Donn Miller [mailto:Donn.W.MILLER@wrd.state.or.us]
Sent: Wednesday, July 17, 2002 8:20 AM
To: phg@bctonline.com
Subject: RE: Neushberger Division 9

Malia,

Could we be talking about Joel Neuschwander of Clackamas County? His application, G-15567, pertains to two wells in 4S/1E-32.

Donn

At 11:28 PM 07/16/2002 -0700, you wrote:

-->

HI Donn:

I was hoping you would recognize the case name. I do not have a file number, but I will try to get one.

Malia

-----Original Message-----
From: Donn Miller [mailto:Donn.W.MILLER@wrd.state.or.us]
Sent: Tuesday, July 16, 2002 11:46 AM
To: phg@bctonline.com
Subject: Re: Neushberger Division 9

Malia,

I don't know what you're talking about. Is there a file #?

Donn

At 10:52 AM 07/16/2002 -0700, you wrote:

-->

Hi Donn:

I am starting to work on the Division 9 issue for Neushberger, and I have several questions. Looking at his well logs and some other well logs in the same section it seems there may be two alluvial aquifers. Is the

Division 9 issue really with the shallower aquifer or is it with both? It looks like both wells may be commingling if there are separate aquifers. What is your position on the well construction (commingling aquifer) issue?

I am looking at doing a pumping test on at least one well, but that does not solve the well construction issue. If we solve the well construction issue, does that help with the Division 9 and eliminate the need for pumping tests?

Malia

STATE OF OREGON
Water Resources Department
158 12th St. N.E.
Salem, OR 97310

MEMORANDUM

Superceded

DATE: 2/18/2003

TO: File G-15567
FROM: Donn Miller, Hydrogeologist (503.378.8455 x205)

SUBJECT: Well Construction Considerations and Potential for Substantial Interference

I have reviewed the file, ground water reports, the reconstruction request report, and additional well reports to research my recent assignment. I was asked to determine if wells #1 and #2 develop 2 or more aquifers (water sources) by virtue of well construction. Further, if they develop two or more aquifers, will reconstruction change the current well construction conclusion that there is the potential for substantial interference. Please consult my prior analysis in a memo dated 10/30/02.

I conclude that the information in the request does not lay out a clearly defensible case that the wells are currently mis-constructed. There is a paucity of head data to support the request and the subject well reports are poorly supportive. The request advocates sealing the wells so as to exclude the presumed, cemented-gravel, upper aquifer from the wells and develop all materials below (as a single aquifer). I see no clear reason to identify this as a break between aquifers. The ability of the various clay layers to provide aquifer separation is unclear. There is reason to think that those layers provide some level of separation within the same aquifer so as to result in **seasonal** pumping responses that display head differences with depth.

I conclude that the Willamette Silt Unit is not properly identified on the subject logs. The water level in that aquifer will be less than 25 feet below land surface. This aquifer has traditionally been capable of providing water to shallow wells. The seal of 20' in well #1 is insufficient to prevent commingling through the mechanical seal. **Therefore, well #1 develops water from at least two aquifers: the Willamette Silt and the aquifer below. Well #2 appears to exclude the Willamette Silt and develop the aquifer below.**

Changing the construction of wells #1 and #2 is not likely to avoid the potential for substantial interference. There would continue to be an hydraulic connection. In part, I cite the flow system simulation analysis of USGS Professional Paper 1424-B as support. The conceptualization of the ground water flow system speaks to ground water discharge to local creeks. See pages B 47-55. This conclusion is supported by the head relationships involved, the permeable nature of the various earth materials, the location of the wells to creeks, and the hydraulics of well pumping to influence ground water flow.

Layer 3 @ Appl G-15567 would be more conductive like the Willamette Aquifer. Layer 2 would be thin.

Head relations shown on figure 19 indicate that (1) the local water table is between an altitude of 114 and 121 ft, (2) the heads in the shallow basalt wells (No. 4 and No. 6) correspond with the water table, (3) the heads in the deep basalt wells (No. 1 and No. 7) are higher than the water table, indicating vertically upward flow near the Tualatin River, and (4) the head in basalt well No. 9 is lower than the head in well No. 10, which is completed in the overlying Willamette confining unit. Thus, over a relatively short distance, predominantly horizontal flow (no vertical head difference), vertically upward flow, and vertically downward flow are shown by the water levels for these 10 wells.

CROSS-SECTIONAL FLOW MODELS

Cross-sectional numerical flow models were constructed for two selected sections of the Willamette Lowland aquifer system in order to test a conceptual model of the ground-water flow system, to test estimates of hydraulic properties, and to provide information on the ground-water flow budget. Although the models were not rigorously calibrated, the simulated heads and discharges to streams compared favorably with observed heads and discharges, indicating that the conceptualization of the flow system and estimates of hydraulic properties were reasonable.

The two models, represented as sections M1-M1′ and M2-M2′ on figure 20, are approximately parallel to flow paths, as determined from the generalized water-table map (pl. 1). Section M1-M1′ extends from the vicinity of Silverton, west to the crest of the Eola Hills (which is north of Salem), and is considered to represent conditions in much of the central Willamette Valley, where basin-fill deposits are underlain by the Columbia River basalt aquifer. Section M2-M2′ extends from Peterson Butte (which is south of Lebanon), roughly west to the Willamette River between Corvallis and Albany; west of the Willamette River section would be essentially the reverse of M2-M2′. Section M2-M2′ is considered to be representative of the southern Willamette Valley, where basin-fill deposits directly overlie the basement confining unit.

Ground-water flow was simulated under steady-state conditions using the finite-difference ground-water flow model (MODFLOW) of McDonald and Harbaugh (1988). Flow paths were calculated and plotted using the programs MODPATH and MODPATHPLOT by Pollock (1989). Flow budgets for individual aquifer units were determined using the program ZONEBUDGET of Harbaugh (1990).

MODEL GRIDS AND BOUNDARY CONDITIONS

The model grids for both sections are presented on figure 20, traces of the modeled sections are shown on plate 1, and information about the grids are summarized in table 6. Horizontal subdivision of the sections was based on the resolution of water-table altitude data, spacing of streams, and the scale of major topographic features. A constant cell length (column) of 1,500 ft and width (row) of 1 ft was selected for both sections. Vertical subdivision was based on the regional hydrogeologic units discussed earlier in this report. Each unit was represented by one model layer, except in section M1-M1′, where the thick Willamette confining unit was represented by four layers. The layer thickness was variable; the thickness of each model cell was based on the average thickness of the corresponding hydrogeologic unit at that location. For the four layers representing the Willamette confining unit in section M1-M1′, the layers were defined so that the thickness was equal.

The upper boundary of both sections was the water table and was modeled as a free surface. The uppermost active layer generally corresponded to the Willamette Silt unit (layer 1) or the Willamette aquifer (layer 2). The Columbia River basalt aquifer (layer 7) is the uppermost active layer at both ends of section M1-M1′. The uppermost active cells received a recharge flux that was determined by using a regression relation based on precipitation and elevation that had been determined by Snyder and others (1994) for the Portland Basin. Where the Columbia River basalt aquifer was the uppermost unit, a recharge rate of 14 in/yr was used; although this rate is lower than predicted by the regression relation, it is considered reasonable because of the small vertical hydraulic conductivity and generally steep topography of the basalt. Recharge ranged from 14.0 to 21.2 in/yr in section M1-M1′ and from 18.4 to 19.9 in/yr in the section M2-M2′.

The bottom of both sections was the top of the basement confining unit and was modeled as a no-flow boundary. There is undoubtedly some flow from the basement confining unit into the overlying units; however, because of its small hydraulic conductivity, the volume of this flow is likely to be small relative to the total flow in the system. Additionally, data are not available to quantify inflow from the basement confining unit and this formulation follows the conceptual model used to delineate the aquifer system described previously in the report.

Lateral boundaries (the ends of the sections) were also modeled as no-flow boundaries. Section M1-M1′ extends in both directions to the contact between the Columbia River basalt aquifer and the basement confining unit. Basin-fill deposits abut the basement confining units on the east end of section M2-M2′.

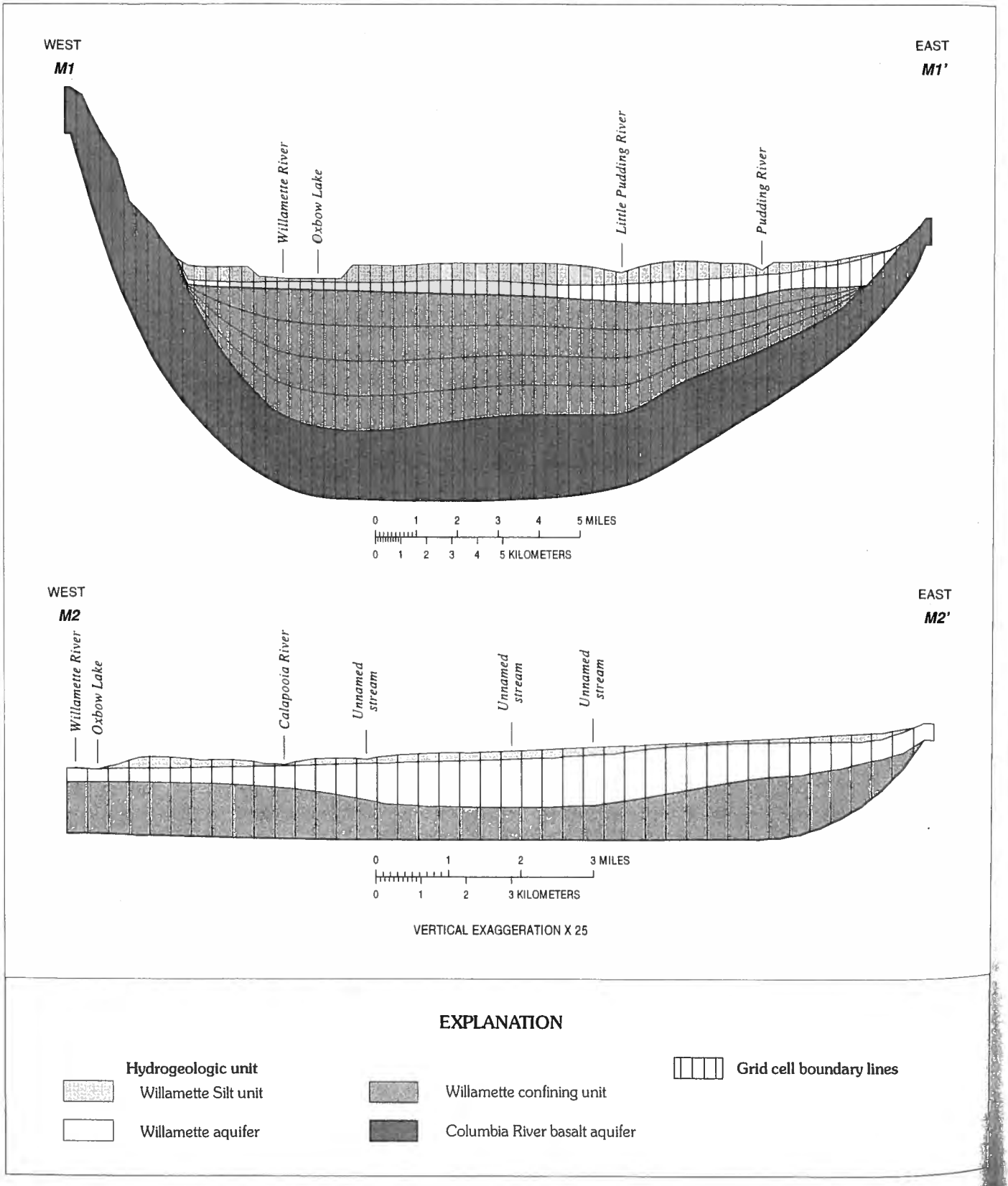


FIGURE 20.—Grids and layers for cross-sectional ground-water flow models.

TABLE 6.—*Information on model grid systems*

Model Characteristic	Section [1]	
	M1-M1′	M2-M2′
Length (miles)	21	12
Number of layers	7	3
Column width (feet)	1,500	1,500
Number of columns	74	42
Minimum active cell thickness (feet)	5	6
Maximum active cell thickness (feet)	440	180
Number of drain cells	17	9

[1] Model grid system shown on figure 20.

These basement confining unit contacts were modeled as no-flow boundaries. The western end of section M2-M2′ is bounded by the Willamette River. Because there is often vertical, or nearly vertical flow directly beneath major streams, this boundary was assumed to be a flow line and, therefore, a no-flow boundary. Because the model sections generally parallel ground-water flow paths, the sides of the models approximate flow lines and were represented as no-flow boundaries.

The evapotranspiration package of the flow model was used to simulate ground-water discharge by evapotranspiration because ground-water levels are near land surface over large parts of both sections. The parameters required by the package are the maximum evapotranspiration rate and extinction depth. These parameters were assumed to be uniform across both sections and were estimated assuming that the dominant land cover is grass (grown for seed), grain, pasture, or some combination of the three. The maximum evapotranspiration rate (18 in/yr) was estimated as the portion of crop-water requirements (30 in/yr) not satisfied by available precipitation. Available precipitation (12 in/yr) is the total precipitation (45 in/yr) minus the quantity lost to runoff (15 in/yr) and deep percolation (18 in/yr). Runoff estimates were from Oster (1968), and crop-water requirements were obtained from Cuenca and others (1992). The extinction depth was assumed to be approximately equal to the maximum rooting depth for the dominant crop types; the value used in the models was 5 ft.

Several streams traverse each model section and were modeled using the drain package of the model, as opposed to the river package. Both packages represent head-dependent flux boundaries; however, with the river package, water can move into or out of the aquifer depending on the head relation. With the drain package, water is allowed only to move out of the aquifer to the drain. In both cross-sectional models, most of the streams gain water from the aquifer. The only streams that did not receive water from the aquifer were small intermittent drainages. Because it is unlikely that these small intermittent streams would be flowing without ground-water inflow, they were modeled as drains to prevent them from providing water to the aquifer. Although the drain package was used to simulate the streams, the term "stream" will be used to describe them in the remainder of this discussion. Streams were placed in the Willamette Silt unit (layer 1) or, if the silt was absent due to erosion, in the Willamette aquifer (layer 2). Information on streams in both models is given in table 7. Stream elevations and channel widths were estimated from 1:24,000-scale topographic maps.

HYDRAULIC CHARACTERISTICS

The horizontal hydraulic conductivity of the hydrogeologic units (table 8) was initially estimated on the basis of information from a number of sources. The hydraulic conductivity of the Willamette Silt unit was based on values presented by Price (1967a) and on published values for similar materials (Bureau of Reclamation, 1985; Driscoll, 1986). Hydraulic conductivity estimates for the Willamette aquifer were based on analysis of specific-capacity data from well logs and published values for similar materials. Conductivity values derived from ground-water flow modeling of the Portland Basin (Morgan and McFarland, 1996) were used to estimate the conductivity of the Willamette confining unit, as well as the vertical anisotropy in the entire basin-fill section. The horizontal hydraulic conductivity and vertical anisotropy of the Columbia River basalt aquifer was estimated on the basis of the results of Morgan and McFarland (1996), Hansen and others (1994), and analysis of specific-capacity data from well logs. In calculating the initial streambed hydraulic conductances, it was assumed that streambed properties were the same as the hydraulic properties of the cell containing the stream node.

In general, the estimated hydraulic characteristics for the Willamette Silt unit, 1 ft/d horizontal hydraulic conductivity and 0.01 ft/d vertical hydraulic conductivity, produced satisfactory modeling results (table 8). With the exception of the vertical conductances beneath streams, changing these parameters did not dramatically change model results. In order to reduce calculated heads in the silt unit and the underlying Willamette aquifer adjacent to major streams, it was necessary to increase vertical conductances between the silt and the underlying aquifer in cells with streams by about one order of magnitude.

TABLE 7.—*Stream locations, properties, and discharge rates for cross-sectional flow models*

[ft, feet; ft^2/d, square feet per day; ft^3/d, cubic feet per day]

Name	Layer	Column	Altitude (ft)	Conductance (ft^2/d)	Discharge (ft^3/d)
			Section M1-M1′		
Unnamed	7	1	1,000	0.063	0
Unnamed	7	4	780	.093	0
Unnamed	7	6	450	.097	0
Unnamed	7	7	400	.085	0
Unnamed	1	13	165	.00571	0
Unnamed	1	14	165	.00571	0
Willamette River	2	19	95	120.00	65.3
Oxbow Lake	2	22	90	30.00	95.7
Patterson Creek	1	29	128	1.00	7.3
Unnamed	1	37	180	.0125	0
Little Pudding River	1	48	138	25.00	58.7
Woods Creek	1	50	148	1.50	6.9
Unnamed	1	51	185	.0111	0
Unnamed	1	56	148	.75	7.9
Pudding River	1	60	145	25.00	100.8
Unnamed	1	63	191	.025	0
Unnamed	7	73	287	.0025	3.5
			Section M2-M2′		
Willamette River	2	1	193	35.71	16.0
Oxbow Lake	2	2	193	28.57	31.8
Calapoola River	2	11	209	33.33	67.3
Unnamed	2	15	218	4.00	37.6
Unnamed	1	22	245	6.00	10.1
Unnamed	1	26	257	10.00	19.5
Unnamed	1	34	282	2.50	3.8
Unnamed	1	35	288	0	0
Unnamed	1	39	303	.09	0

TABLE 8.—*Hydraulic characteristics used in models*

Hydrogeologic unit	Initial estimate, (in feet per day)		Final estimate, (in feet per day)	
	Horizontal conductivity	Vertical conductivity	Horizontal conductivity	Vertical conductivity
Willamette Silt	1	0.01	1	0.01
Willamette aquifer	200	2	200–600	2
Willamette confining unit	5	.05	5	.1
Columbia River basalt aquifer	5	.017	2.5	.025

The physical basis for increasing conductances beneath streams is explained in the discussion on streambed conductance adjustments later in this section.

The initial estimates of the hydraulic characteristics of the Willamette aquifer, a horizontal hydraulic conductivity of 200 ft/d and a vertical conductivity of 2 ft/d, gave satisfactory results. Overall, changing these parameters did not have a large effect on the simulated flow system. This may be because of the large contrast between the hydraulic properties of the aquifer and the adjacent units. Increasing the horizontal hydraulic conductivity of the Willamette aquifer to 600 ft/d beneath the Willamette River flood plain improved the fit between simulated and observed heads in the Willamette Silt unit adjacent to the flood plain. This was a reasonable adjustment because specific-capacity data (table 4) indicate that hydraulic conductivities of the aquifer gravels in the flood plain are substantially larger than elsewhere, presumably because of reworking by stream action (see previous discussion in the "Hydraulic Characteristics" section of report).

The initial estimate of horizontal hydraulic conductivity for the Willamette confining unit, 5 ft/d, gave reasonable results and was not changed. Although the initial vertical hydraulic conductivity of 0.05 ft/d was doubled to reduce vertical gradients, water-level data from wells suggest that vertical gradients generally are small in the Willamette Lowland. The vertical hydraulic conductivity of the Willamette confining unit, which separates the Columbia River basalt aquifer from the Willamette aquifer in section M1-M1', was found to have a significant influence on vertical gradients between the Columbia River basalt aquifer and the Willamette aquifer.

The initial estimates of horizontal and vertical hydraulic conductivity of the Columbia River basalt aquifer, 5 ft/d and 0.017 ft/d, respectively, had to be adjusted to match simulated and observed heads. With the original values, excessive upward vertical gradients were simulated beneath the center of the basin—simulated heads in the Columbia River basalt aquifer were more than 100 ft above land surface. As described and shown previously (fig. 19), flowing artesian wells are uncommon in the Columbia River basalt aquifer except near the margins of the basalt uplands. Most of the simulated large, upward gradients were reduced by decreasing the horizontal hydraulic conductivity in the basalt by a factor of 2, increasing the vertical conductivity of the basalt from 0.017 ft/d to 0.025 ft/d, and increasing the vertical conductivity of the overlying Willamette confining unit as mentioned previously.

Satisfactory model results were obtained only after selectively increasing conductances of streambeds in the silt by up to 50 times the initial estimates. Large conductance values are considered reasonable because of the range in streambed materials and because of the reworking and sorting of streambed materials by stream action after their deposition by glacial-outburst floods, thereby increasing their hydraulic conductivity. As mentioned previously, this latter process has certainly occurred in the Willamette aquifer along the Willamette River flood plain and has probably occurred in other units as well.

Estimates of hydraulic characteristics of the hydrogeologic units were adjusted to match the simulated and observed heads and discharge quantities in both models. Because of the limited ability of cross-sectional models to simulate a three-dimensional flow system and the general lack of field measurements, the models were not rigorously calibrated. However, the simulated heads and discharge quantities are reasonable given the available data. The water-table surface shown on plate 1 represents water levels at their lowest annual altitude. Water levels fluctuate 5 to 20 ft/yr in the area of section M1-M1' (Price, 1967a) and 2 to 14 ft/yr in the vicinity of section M2-M2' (Frank, 1974; Helm and Leonard, 1977); these fluctuations were described previously in the "Water-Level Fluctuations" section. Water levels simulated by the steady-state models represent average annual water-level altitudes and should be higher than the altitude shown on plate 1, but within the range of observed seasonal fluctuations. With the exception of a few cells in both models, simulated heads in the top active model layers were above the altitudes on plate 1, within the observed range of seasonal fluctuations, and below ground level. Simulated heads in the non-water table model layers were consistent with what is known about vertical head differences and hydraulic gradients in the area.

Simulated ground-water discharge to streams was compared to estimates from Price (1967a) and from Laenen and Risley (1997), whose information is described more thoroughly in the "Discharge" section later in this report. Discharge quantities were only available for the Willamette River in both model sections and for the Pudding River in section M1-M1'. Laenen and Risley (1997) found that ground-water discharge to the Willamette River was highly seasonal. Seepage measurements during the summer of 1992 indicated little or no ground-water inflow to the Willamette River main stem. Measurements during the spring of 1993, by contrast, indicated that the main stem gained approximately 2,000 ft^3/s between river mile (RM) 55 and 195.

Ground-water discharge to the Willamette River in the vicinity of section M1-M1′ was estimated from seepage measurements made in September 1993 (Laenen and Risley, 1997). The M1-M1′ section crosses the river near RM 72. Ground-water inflow to the river from RM 78.5 to RM 55 was approximately 476 ft^3/s, which equals a discharge of about 331 $ft^3/d/ft$ (cubic feet per day per foot) of river length. Thus, average annual discharge to the river calculated by the 1-ft-wide model should be between 0 and 331 ft^3/d (cubic feet per day). Simulated steady-state discharge to the Willamette River and a hydraulically connected oxbow lake in section M1-M1′ was 161 ft^3/d, which is reasonable.

On the basis of hydrograph analysis, Price (1967a) estimated that ground water discharges to the Pudding River between RM 40.7 and RM 8.2 at a rate of 146,000 acre-ft/yr (acre-feet per year), or an average annual discharge of about 101 $ft^3/d/ft$ of river length. Because the estimate is based on a stream hydrograph, it integrates discharge to the Pudding River as well as its tributaries. In section M1-M1′, which crosses the Pudding River near RM 46, upstream from the section analyzed by Price (1967a), simulated discharge to the Pudding River and its tributaries was about 178 $ft^3/d/ft$. Given the uncertainty in applying Price's (1967a) discharge estimates, this is a reasonable match.

The only discharge estimate available for section M2-M2′ is for the Willamette River and is based on seepage measurements made in June 1993 during high springtime discharge (Laenen and Risley, 1997). Section M2-M2′ crosses the Willamette River near RM 127. Ground-water inflow between RM 119.3 and RM 141.7 was estimated to be 931 ft^3/s or about 680 $ft^3/d/ft$ of river length. Because the river is one of the model boundaries and similar ground-water conditions are assumed to exist on both sides of the river, ground-water inflow calculated by the model should be about one-half the estimate or between 0 and 340 ft^3/d. Simulated steady-state discharge to the Willamette River and a hydraulically connected oxbow lake from section M2-M2′ is about 48 ft^3/s. The 340 ft^3/d represents the probable spring peak in ground-water discharge, the simulated average annual value of 48 ft^3/d is considered reasonable. Discharge quantities to all streams are listed in table 7.

Simulated Flow System

The major factors controlling the ground-water flow system are recharge, evapotranspiration, geometry of hydrogeologic units, distribution and magnitude of horizontal and vertical hydraulic conductivity in the units, and locations and properties of streams and their beds. To help visualize the simulated movement of water, the particle-tracking and plotting programs MODPATH and MODPATH-PLOT were used. These programs calculate and plot the paths of imaginary particles of water as they move through the flow system. These paths represent flow lines through the modeled system. Flow lines through both model sections (fig. 21) were plotted by tracing the paths of imaginary water particles from the point where they recharge the ground-water system at the water table to the point where they discharge from the system through streams or evapotranspiration. For the sections shown on figure 21, one particle was started at the water table in the center of each cell and tracked to its discharge location.

Water recharging the Willamette Silt unit moves vertically downward into the Willamette aquifer, where flow is primarily horizontal toward streams, the primary discharge point (fig. 21, section M1-M1′). A small part of the water moving in the Willamette aquifer may move into the underlying Willamette confining unit, where its movement includes a larger vertical component. Water in the Willamette confining unit moves upward and back into the Willamette aquifer near and beneath streams to which the water ultimately discharges. Water in the Columbia River basalt aquifer moves horizontally and downward from recharge areas in uplands toward the central parts of the basin, then upward from the basalt into the overlying units.

The Willamette Silt unit is recharged mainly through infiltration of precipitation (table 9). Most of the water moves into the underlying Willamette aquifer within several hundred feet of where it enters the saturated zone (fig. 21, section M2-M2′). Simulated downward vertical hydraulic gradients between the Willamette Silt unit and the Willamette aquifer in areas away from streams range from approximately 0.014 to 0.15 ft/ft. Horizontal hydraulic gradients within the Willamette Silt unit range from 4×10^{-5} to 0.015 ft/ft. Where the water table is above the rooting depth of plants, some of the water discharges through evapotranspiration. Some water moves upward into the Willamette Silt unit from the underlying Willamette aquifer beneath and adjacent to streams (fig. 21). Streams in the Willamette Silt unit, such as the Pudding and Calapooia Rivers, are principal locations of ground-water discharge. Upward vertical hydraulic gradients beneath these streams range from about 0.017 to 0.13 ft/ft.

Although water enters the Willamette aquifer from both the overlying and the underlying units, most enters it through the overlying Willamette Silt unit (table 9).

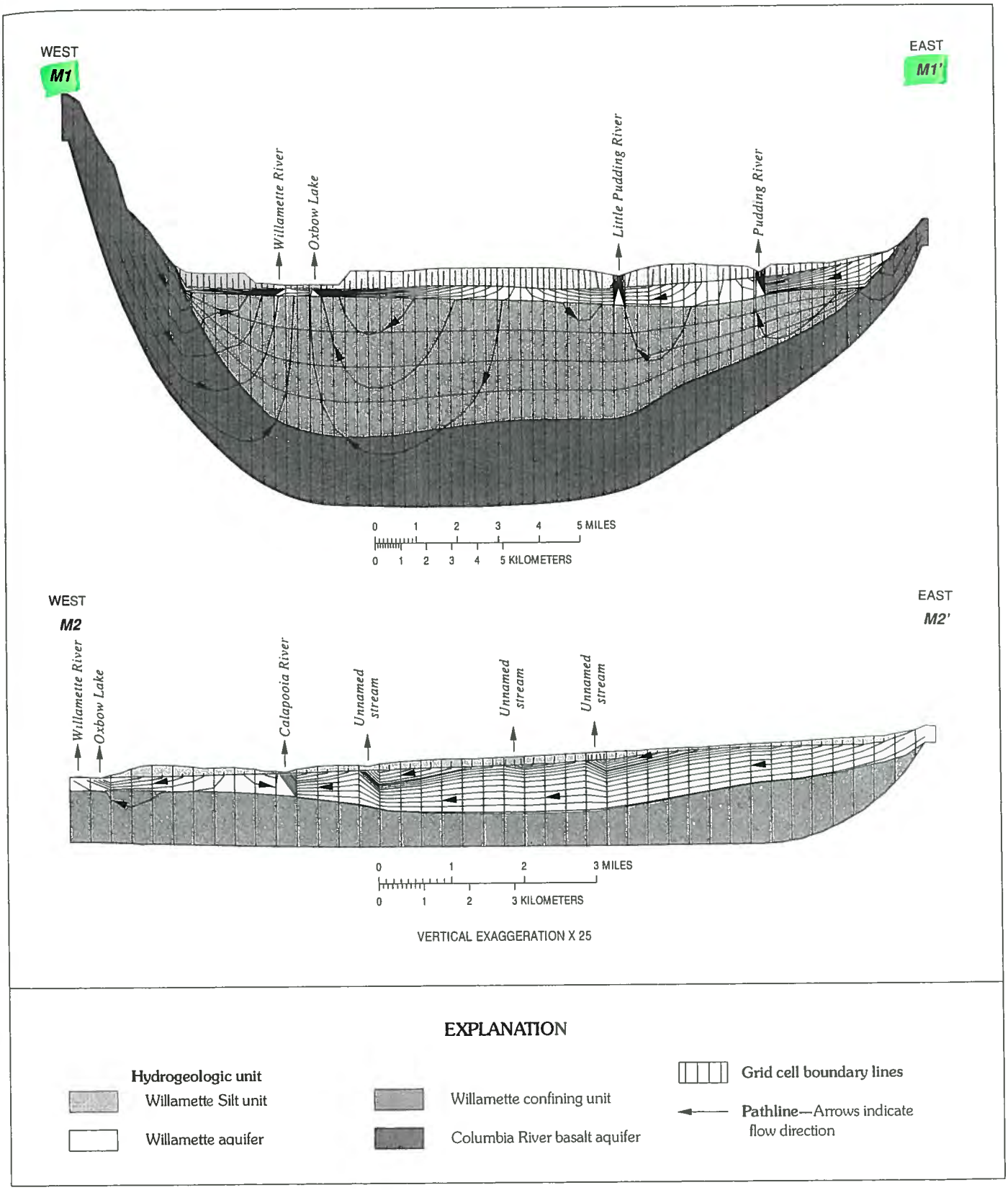


FIGURE 21.—Model grids and layers with pathlines. (The pathlines represent the paths of water particles that start at the water table in the center of the uppermost active cells and travel to their discharge points.)

TABLE 9.—*Flow budgets for cross-sectional models*

[--, not applicable]

Hydrogeologic Unit	Flow from, in cubic feet per day						Flow to, in cubic feet per day						
	Recharge	Willamette Silt	Willamette aquifer	Willamette confining unit	Columbia River basalt aquifer	Total in	Evapotranspiration	Streams	Willamette Silt	Willamette aquifer	Willamette confining unit	Columbia River basalt aquifer	Total out
Section M1-M1′													
Willamette Silt unit	323	--	159	0	0	482	53	182	--	247	0	0	482
Willamette aquifer	32	247	--	69	0	348	1	161	159	--	27	0	348
Willamette confining unit	0	0	27	--	46	73	0	0	0	69	--	4	73
Columbia River basalt aquifer	48	0	0	4	--	52	6	1	0	0	45	--	52
Model net total	403	--	--	--	--	--	60	343	--	--	--	--	403
Section M2-M2′													
Willamette Silt unit	225	--	19	0	--	244	72	33	--	139	0	--	244
Willamette aquifer	46	139	--	6	--	191	13	153	19	--	6	--	191
Willamette confining unit	0	0	6	--	--	6	0	0	0	6	--	--	6
Model net total	271	--	--	--	--	--	85	186	--	--	--	--	271

Water in the Willamette aquifer moves horizontally toward streams and discharges to streams with which it is hydraulically connected. However, some water moves from the Willamette aquifer into the overlying Willamette Silt unit beneath streams to which the silt is hydraulically connected. Although a small volume of water moves into the underlying Willamette confining unit (table 9), most of this water moves back into the Willamette aquifer downgradient. Simulated horizontal hydraulic gradients in the Willamette aquifer range from 5×10^{-5} to 0.006 ft/ft and average about 0.002 ft/ft.

Water moves into the Willamette confining unit from the overlying Willamette aquifer and, when present, from the underlying Columbia River basalt aquifer (table 9). Where the Columbia River basalt unit underlies the confining unit, water from the basalt accounts for most of the flow through the confining unit. Water moving in the confining unit eventually discharges to the Willamette aquifer, usually in the vicinity of major streams.

The Columbia River basalt aquifer is recharged primarily through infiltration of precipitation where the unit is exposed at land surface (table 9; fig. 21, section M1-M1′). The model results indicate that a small volume of water also enters the basalt from the overlying Willamette confining unit. As modeled, no water can enter the basalt from the underlying marine rocks of the basement confining unit because the contact between the units is represented by a no-flow boundary. However, as previously described, locally, some water probably flows from the marine rocks. Some wells drilled deep into the basalt in the Portland and Tualatin Basins encounter saline water that generally is thought to originate in the marine rocks (as will be discussed in the "Water Quality" section). Water discharges from the basalt primarily to the overlying Willamette confining unit.

Calculated Water-budget Components

Water movement in both modeled sections is similar, with a few notable differences. Calculated flow budgets for both models are presented in table 9. In section M1-M1′, stream discharge accounts for 85 percent of the total discharge, and evapotranspiration accounts for 15 percent. In section M2-M2′, stream discharge accounts for 69 percent of the total discharge, and evapotranspiration accounts for 31 percent. The larger estimated evapotranspiration in section M2-M2′ is accounted for by the flatter topography in this section, which results in a generally higher water table.

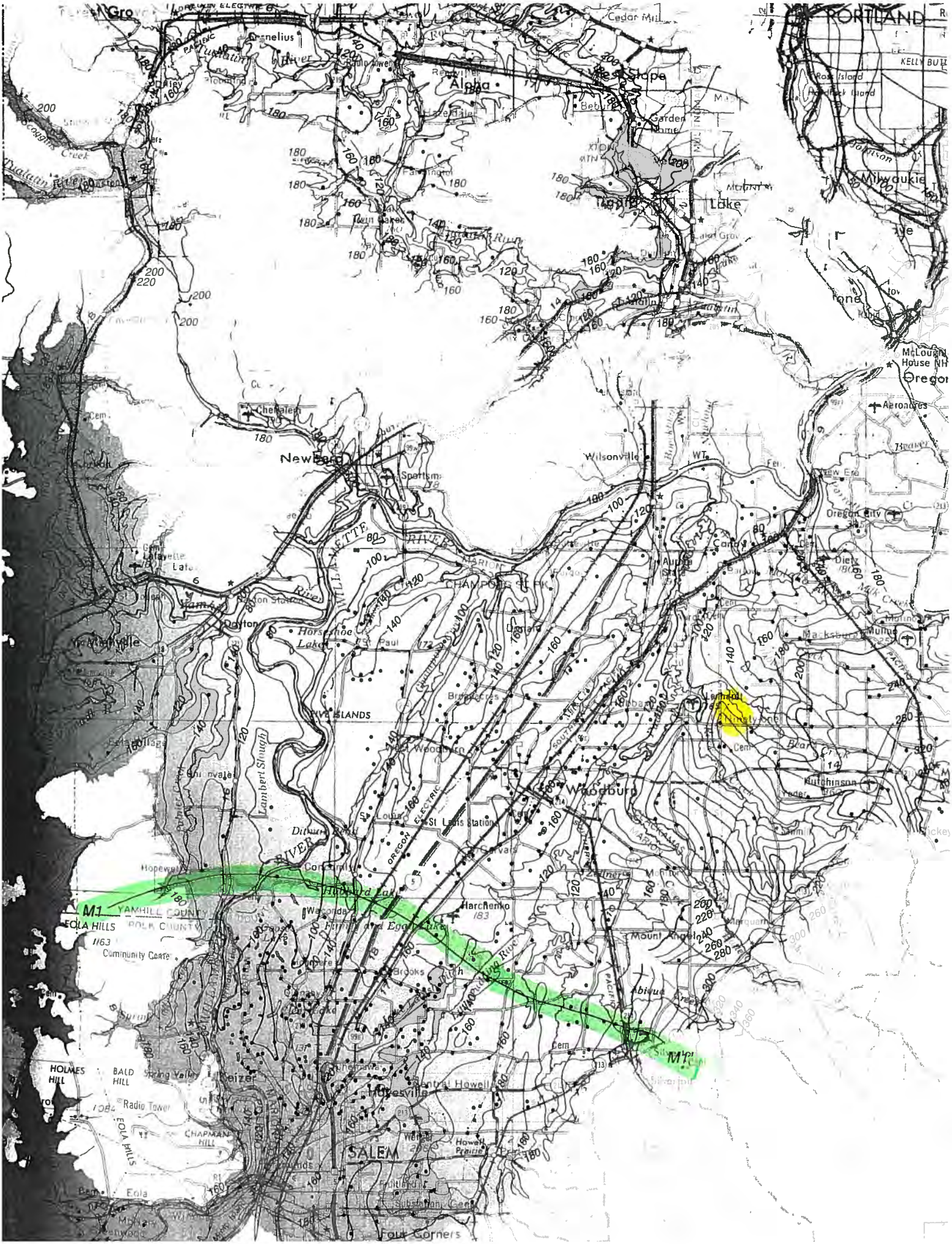
Flow budgets within the Willamette Silt unit are slightly different for the two modeled sections. Simulations indicate that 80 to 83 percent of the recharge from precipitation occurs in the Willamette Silt unit and the remainder occurs either in the Willamette aquifer or in the Columbia River basalt aquifer. These percentages are a function of the exposed surface areas of the units and input recharge rates. Of the water entering the Willamette Silt unit through recharge in section M1-M1′, approximately 76 percent discharges to the Willamette aquifer, 16 percent discharges to evapotranspiration, and 8 percent discharges directly to streams. Of the recharge to the Willamette Silt unit in section M2-M2′, approximately 62 percent discharges to the Willamette aquifer, 32 percent is discharged by evapotranspiration, and 6 percent discharges to streams. These values again reflect higher evapotranspiration in section M2-M2′.

Flow budgets in the Willamette aquifer also are different for each section. Of the water that enters the Willamette aquifer in section M1-M1′, 71 percent is derived from the Willamette Silt unit, 20 percent comes from the underlying Willamette confining unit, and 9 percent is from recharge. Of the water that enters the Willamette aquifer in section M2-M2′, 73 percent is derived from the Willamette Silt unit, 3 percent comes from the Willamette confining unit, and 24 percent is from recharge. The largest differences between the two sections is the larger amount of water moving upward from the Willamette confining unit in section M1-M1′.

The volume of water moving through the Willamette confining unit depends on the presence or absence of the underlying Columbia River basalt aquifer. In section M2-M2′, where the Columbia River basalt aquifer is absent, the only water moving through the confining unit is water moving downward from the overlying Willamette aquifer; this water eventually moves upward back into that overlying unit. This quantity represents only about 2 percent of the total flow in section M2-M2′ (table 9). In section M1-M1′, water that enters the Columbia River basalt aquifer through recharge in the basalt uplands moves into the overlying Willamette confining unit and eventually discharges to the Willamette aquifer. The quantity of water moving from the basalt represents 62 percent of the total flow in the Willamette confining unit and about 11 percent of the total flow in section M1-M1′ (table 9).

REGIONAL WATER BUDGET

Long-term hydrographs for observation wells completed in the Willamette aquifer confirm that, on a regional basis, the aquifer is in equilibrium—the water table rises each winter/spring to about the same altitude. Therefore, long-term recharge is equal to long-term discharge, and the changes in storage are minimal. However, estimating or quantifying the various components of both ground-water recharge and ground-water discharge can provide a better understanding of the overall hydrology of the aquifer system. For example: (1) how much ground water in the southern Willamette


PORTLAND
Cornelius
Forest Grove
Aloha
Beaverton
Garden Home
Tualatin River
Tualatin
Sherwood
Lake Oswego
Milwaukie
Oregon City
McLoughlin House NH
Aeronaves
Wilsonville
Newberg
Chehalem
Sportsman Park
Willamette River
Champoeg State Park
Aurora
Donald
Dayton
Horseshoe Lake
St Paul
Mission Bottom
Lafayette
Yamhill River
Rivers Islands
Lambert Slough
Dundee
Woodburn
St Louis
St Louis Station
Oregon Electric Railway
Hubbard
Hubbard Lake
Mount Angel
Abiqua
Abiqua Creek
Silverton
Hopewell
Yamhill County
Polk County
Eola Hills
Community Center
Brooks
Keizer
Holmes Hill
Bald Hill
Radio Tower
Chapman Hill
Howell Prairie
Four Corners
SALEM
Eola
M1
M1

STATE OF OREGON
Water Resources Department
158 12th St. N.E.
Salem, OR 97310

MEMORANDUM

DATE: 10/30/2002

TO: File G-15567 DM
FROM: Donn Miller, Hydrogeologist (503.378.8455 x205)

SUBJECT: Well Enforcement Request Evaluation

I have spoken to Tracy Eichenlaub of enforcement, reviewed the captioned file and studied the request for enforcement on well construction letter dated 10/18/2002.

Malia and Gregory Kupillas wrote the request letter on behalf of the applicant, Joel Neuschwander. Most certainly, the request wishes to accomplish more than just well reconstruction at the driller's expense. The application seeks 720 gpm from two wells for nursery use. The application has been impeded based on my analysis of gw/sw interactions per basin rule and division 9 assessments and surface water availability limitations. From the letter, I must assume that the request is ultimately part of the permitting objective of the application.

If the real interest is permitting, I will jump ahead to that issue. I am not confident that the reconstruction solves the permit issuance problem. I indicated in my email to Malia on July 22, 2002 that the well construction issue is separate from the division 9 issue (sw/gw interaction assessment). Based on the request and my reconsideration of the file, I confirm that position. Development will interfere with surface water flows in Bear creek and the nearby tributary. **I conclude that the proposed well reconstruction will not be sufficient for the application to obtain a favorable gw/sw interaction assessment per division 9.**

In my view, there is some merit in the request for accomplishing proper well construction. Frankly, the cross-sectional analysis doesn't do much for me. The upper aquifer/lower aquifer matter is still debatable. My focus would be on the internal inconsistencies on the well reports. For well #1 (CLAC 12700), what's the deal with first water at 31 feet, two water bearing-zones with 30' swl's and the resulting swl of 29 feet. Based on that, the perceived well misconstruction would seem to be improper sealing off an upper aquifer. For well #2 (CLAC 51287), how do you get first water at 40 feet, seal to 50 feet, take from that first water unit (38-54 feet) and deeper units, and get a final swl of 47 feet? Some commingling seems to be occurring at face value. The well start and completion dates seem odd but could play into the construction issue somehow. I have no views on the matter of continued driller responsibility.

Taking these matters as a whole, the outlook for ground water permitting is bleak and the well reconstruction matter is pretty much off point to that.

STATE OF OREGON
Water Resources Department
158 12th St. N.E.
Salem, OR 97310

REVIEWER Dan Mulla **DATE:** 10/29/02

DIVISION 9 CHECKLIST
Application # G- 15567

well #1 - 500 gpm
well #2 - 220 gpm

OAR 690-09-040

Hydraulically Connected to Bear CK + trib (surface water source)
USGS WSP 1997, plate 2 + narrative

(4)(a) the point of appropriation is a horizontal distance less than ¼ mile from the surface water source to which it's connected? (Y) or N

(b) the rate of appropriation is greater than five cubic feet per second **and** less than one mile from the surface water source (to which it's connected)? Y or (N)

© the rate of appropriation is greater than one percent of the pertinent adopted minimum perennial streamflow or instream water right and less than one mile from the surface water source (to which it is connected)? (Y) or N 1.6 cfs vs 36 cfs, 40 cfs, 100 cfs
Pudding R ab Miller Ck. Pudding R @ mouth Molalla R @ mouth

the rate of appropriation is greater than one percent of the discharge that is equaled or exceeded 80 percent of the time, as determined or estimated by the Department and less than one mile from the surface water source (to which it is connected)? (Y) or N Pudding R - AB Miller Ck, Pudding R @ mouth, Molalla R @ mouth
Certain months

(d) the ground water appropriation, if continued for a period of 30 days, would result in stream depletion greater than 25 percent of the rate of appropriation and the point of appropriation is less than ½ mile from the surface water source? Y or N Unclear
1

(5) Other Considerations

(a) the potential for a reduction in streamflow or surface water supply yes

(b) the potential to impair or detrimentally affect the public interest as expressed by an applicable closure on surface water appropriation, minimum perennial streamflow, or instream water right with a senior priority yes

(c) the percentage of the ground water appropriation that was, or would have become, surface water most

(d) the potential interference would be immediate or delayed delayed

(e) the potential for a cumulative adverse impact on streamflow or surface water supply
yes

Pacific Hydro-Geology Inc.
18477 S. Valley Vista Rd.
Mulino, OR 97042
(503) 632-5016

October 18, 2002

Oregon Water Resources
Ms. Tracy Eichenlaub
158 12th Street NE
Salem, Oregon 97310-0210

Re: Request for enforcement on well construction for two wells proposed for use under Water Right Application G-15567

Dear Ms. Eichenlaub:

The purpose of this letter is to submit information on behalf of Mr. Joel Neuschwander, the applicant for ground water Application G-15567, for an evaluation of the construction of two wells (CLAC 12700 and CLAC 51287). If the construction of these two wells (Neuschwander wells) is found to be in violation of state laws, we would request enforcement action against the driller who constructed the wells. The Department has recommended that Application G-15567 be denied because of potential interference with nearby streams. This determination is documented in Proposed Final Order dated April 9, 2002, in which the Neuschwander wells are identified as Well 1 (CLAC 12700) and Well 2 (CLAC 51287).

We have reviewed the well construction reports for the two wells and have determined that the wells were not properly sealed to prevent commingling of groundwater between the uppermost water-bearing zone(s) and the deeper, water bearing intervals over which the wells are screened. Copies of the Water Well Reports for these two wells (CLAC 12700 and CLAC 51287) are attached. Figure 1 shows the locations of the Newschwander wells and several other wells we have identified in the area. Cross sections including the two Neuschwander wells and three other wells (CLAC 12730, CLAC 12739, and CLAC 12727) are shown on Figures 2 and 3 to provide a picture of the subsurface geology. Figure 1 shows the locations of the cross-sections.

Based on our review of the well logs for the Neuschwander wells and other wells in the surrounding area, we believe there is a continuous layer of clay and/or silt that separates an upper, water-bearing strata from a deeper aquifer throughout the area surrounding the two wells of concern. The locations of the wells we have identified in the area are shown on Figure 1. Table 1 provides information from the logs for the wells shown on Figure 1, including the thickness and approximate elevation of the clay layer identified. Copies of the well logs are attached with this letter. Elevations for these wells have been estimated from a U.S.G.S. topographic map.

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OCT 2 1 2002
WATER RESOURCES DEPT.
SALEM, OREGON

Figure 2 (Cross Section A-A') shows the Tocher well (CLACK 12730) obtains water from the upper aquifer, with the bottom of the well ending in the clay that can be identified in both Neuschwander wells and other wells in the area. The driller noted in both Neuschwander wells that water was first encountered in the first gravel that correlates with the upper aquifer. In Well 1 (CLACK 12700), water was first encountered at 31 feet. In Well 2 (CLACK 51287), water was first found at 40 feet. The driller did not report a static water level for the upper aquifer in the log for Well 1, and he reported a single static water level for all the water bearing zones in Well 2. Based on elevations, it appears the upper aquifer is connected with Bear creek, located to the northwest of Neuschwander Well 1, and the unnamed stream located between the two Neuschwander wells. Therefore, the upper aquifer would be expected to have a different static water level than the deeper aquifer. Recent studies by the Department in the Willamette Basin have identified that there are separate aquifers having different static water levels within the Willamette Valley alluvial aquifer system. However, some drillers continue to report one static water level measurement for all the zones.

Based on recent discussions with Fred Lissner and Donn Miller, we believe that the ground water application would be approved if the upper water-bearing strata in these two wells could be isolated from the deeper water bearing zones by the placement of properly constructed well seals. Therefore, the potential for interference with nearby streams is a function of the construction of the two Neuschwander wells.

Our determination that these wells are improperly constructed is based on the following:

Neuschwander Well 1 (CLAC 12700). The driller reported first encountering ground water at a depth of 31 feet below land surface (bls). This first encountered ground water appears to occur within a thin layer of sand at a depth of 31 feet bls. A cemented gravel is also noted in the log from 42 feet to 63 feet. Based on the logs from other wells in the area, we understand that the cemented gravel serves as a source of ground water for shallow wells. Therefore, it appears that there is an upper aquifer in this well between 31 and 63 feet bls that may be connected with the nearby streams. The driller did not report a static water level for this apparent water-bearing zone.

According to the log, the primary water bearing zones occur from 82 to 102 feet bls and from 115 to 132 feet bls, corresponding to the lower aquifer. The driller noted the same static water level of 30 feet bls for both of these intervals. The two primary water-bearing intervals are separated from the overlying cemented gravel (upper aquifer) by a 19-feet-thick layer of clay and silt that extends from 63 feet to 82 feet bls. The well is perforated over the interval of 88 to 150 feet bls; however, the well seal was placed only to a depth of 20 feet bls. Therefore, the well seal does not extend into the clay and silt layer, nor does it adequately seal off the shallow water-bearing zone(s) which occur from 31 to 63 feet bls. The construction of this well appears to violate OAR 690-200-0043 and OAR 690-210-0140.

Neuschwander Well 2 (CLAC 51287). The driller reported first encountering ground water at a depth of 40 feet below land surface (bls). This first encountered ground water appears to occur within a layer of cemented gravel found at depths between 38 and 54 feet bls (this cemented gravel appears to correspond with the cemented gravel layer in Well 1 from 42 to 63 feet bls and, therefore, represents the upper aquifer). The driller did not report a static water level for this water-bearing zone.

The driller reported the water-bearing zone from 40 to 140 feet bls. Based on the perforated interval, from 76 to 119 feet bls, it appears that the primary water-bearing deposits in this well include the sands and gravels which occur between 60 and 95 feet (lower aquifer). These sand and gravel layers appear to correspond to the primary water-bearing zones identified by the driller in Well 1. Also, as in Well 1, these sands and gravel units are separated from the overlying cemented gravel by a 6-feet-thick layer of clay which extends from 54 to 60 feet bls. The well seal was placed only to a depth of 50 feet bls. Therefore, this seal does not extend into the clay layer (54 to 60 feet bls) that separates the upper, water-bearing cemented gravel from the deeper sands and gravel which serve as the primary water-bearing aquifer for this well. The construction of this well appears to violate OAR 690-200-0043 and OAR 690-210-0140.

We request that you review the well construction details of the two wells (CLAC 12700 and CLAC 51287) together with the cross-sections, tabulated well data, and well logs attached with this letter and make a determination whether enforcement action is warranted.

Please call Malia Kupillas, Pacific Hydro-Geology Inc., at (503) 632-5016 if you have any questions.

Sincerely,

Malia R. Kupillas

Malia R. Kupillas R.G., C.W.R.E.

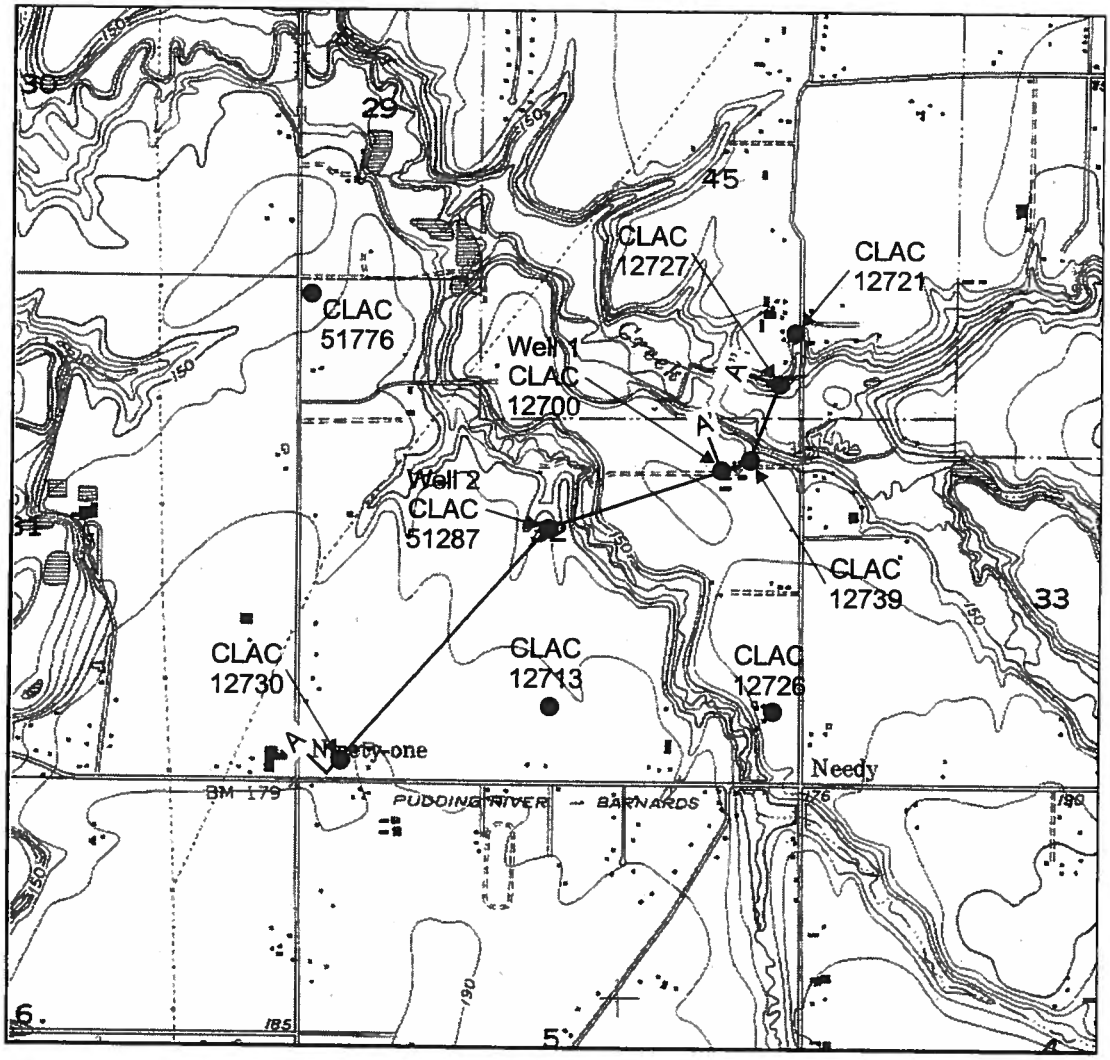
Gregory E. Kupillas, R.G., C.W.R.E.

Attachments: Figure 1 - Well and Cross Section Locations
Figure 2 - Cross-Section A-A'
Figure 3 - Cross-Section A'-A"
Table 1 - Well Log Data for Neuschwander Wells and other Are Wells
Water Well Reports for Neuschwander Wells and other Wells in Vicinity

cc: Donn Miller, Oregon Water Resources Department
Joel Neuschwander







Scale: 1:24000

0 1 Mile

Countour Interval 10 Feet

N

Source: USGS 7.5 Minute Topographic Survey
Map of Yoder Quadrangle, Oregon, 1955
(Photorevised 1985)

Figure 1 - Well and Cross Section Locations

Pacific Hydro-Geology Inc.

Joel Neuschwander
Application G-15567
T.4S. R.1E Section 32

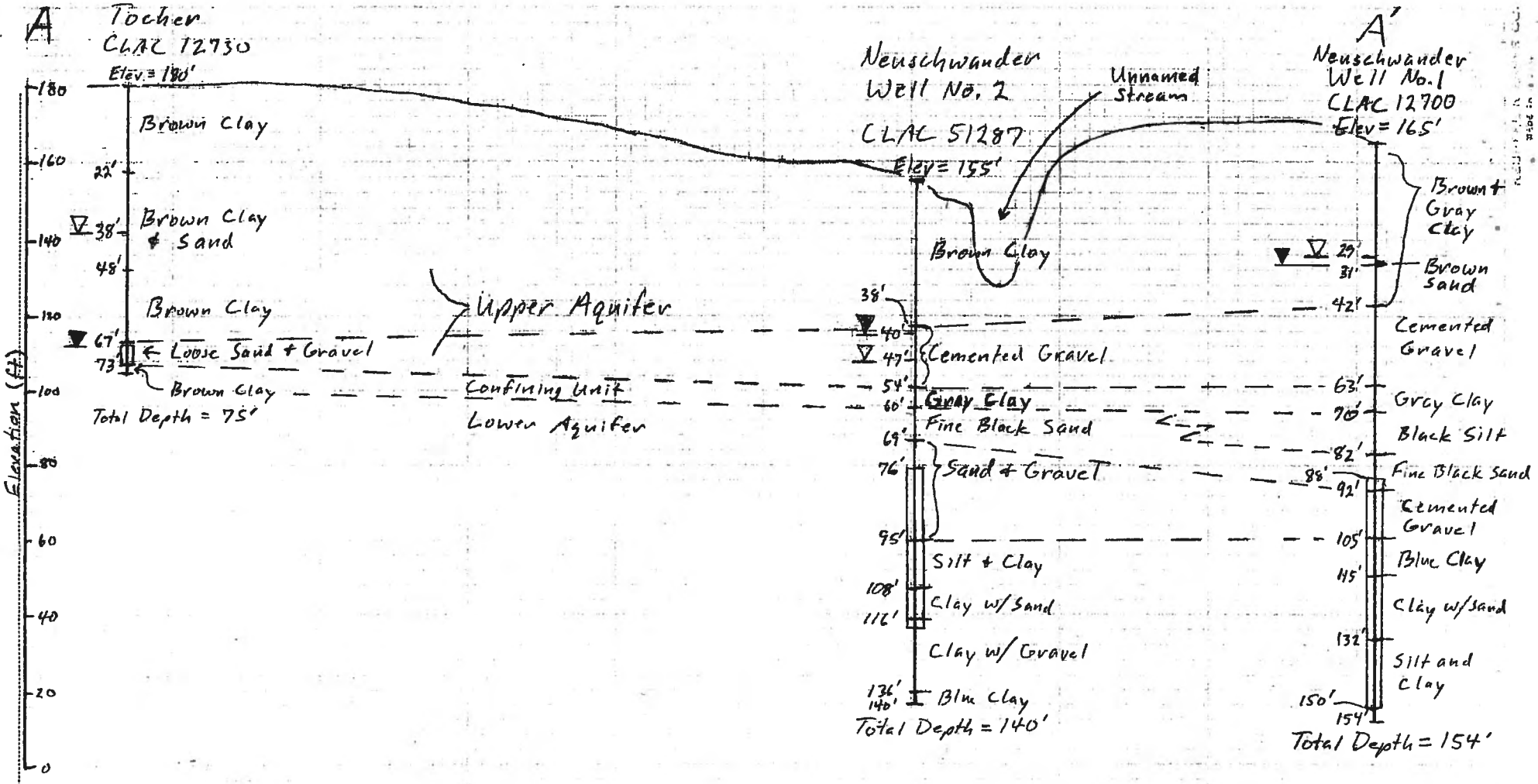


Figure 2 - Cross Section A-A'

Horizontal Scale: 1" = 600'
Vertical Scale: 1" = 40'
▼ Depth at which water first found
▽ Static water level

Perforated interval

SHEET NO. ..... OF .....
JOB NO. .....
SUBJECT .....
DATE .....
CKD. BY ..... DATE .....

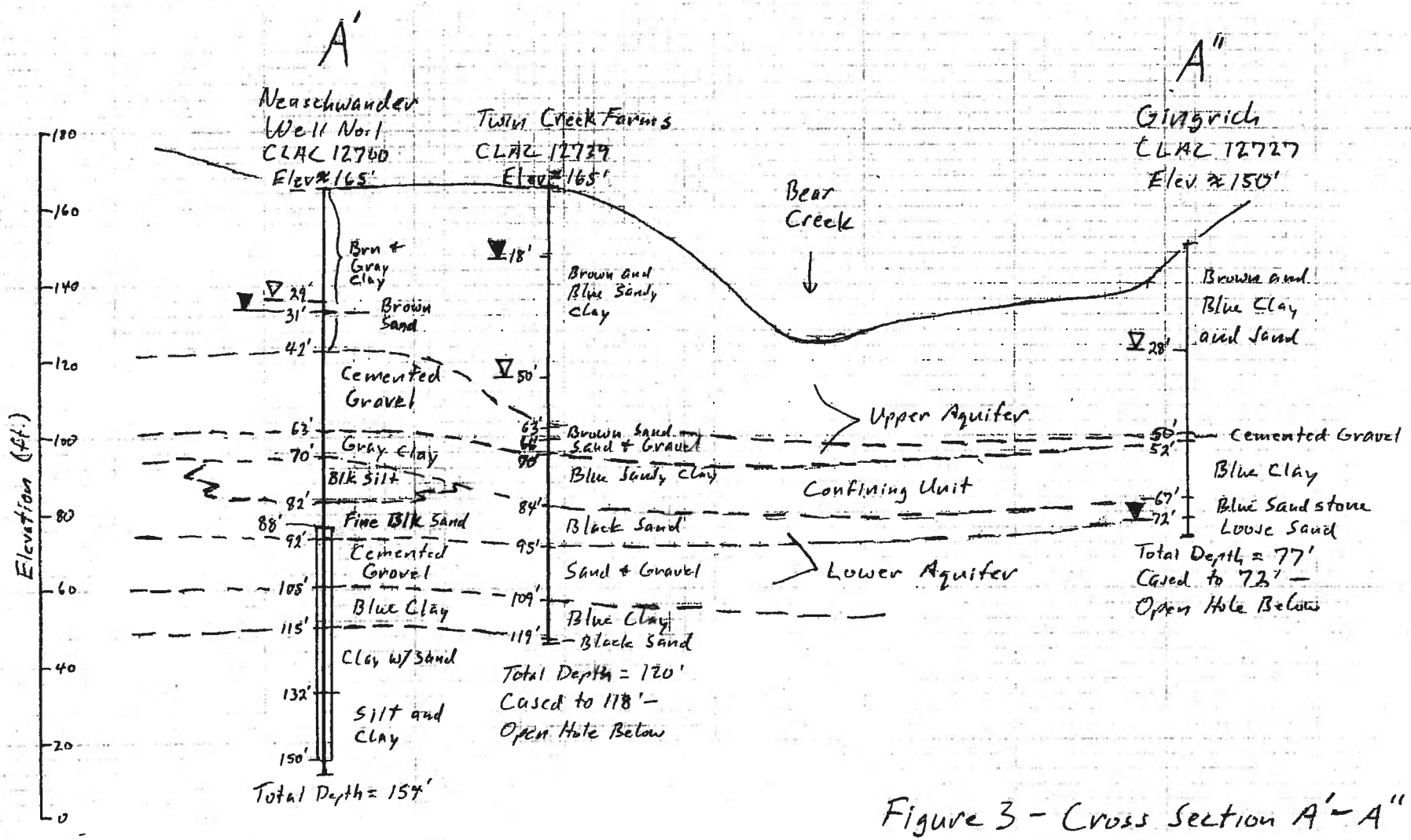


Figure 3 - Cross Section A'–A"

Horizontal Scale: 1" = 200'
Vertical Scale: 1" = 40'
▼ Depth at Which Water First Found
▽ Static Water Level
Perforated Interval

JOB NO.
CD. BY DATE

Table 1. Well Log Information for Neuschwander Wells and Other Wells in Vicinity

Well Log I.D. No.		Legal/ Map No.	Tax Lot Number	Owner Last Name	Estimated Well Head Elevation (ft)*	Estimated Elev. at top of Clay Confining Unit (ft)	Estimated Elev. at bottom of Clay Confining Unit (ft)	Thickness of Clay Confining Unit (ft)
CLAC	12700	4 1E 32	903	Neuschwander	165	102	95	7
CLAC	51287	4 1E 32	900	Neuschwander	155	101	95	6
CLAC	12730	4 1E 32	1505	Tocher	180	107	Unknown	Unknown
CLAC	12713	4 1E 32	1507	Hansen	175	111	81	30
CLAC	12726	4 1E 32	1300	Galer	170	<100	Unknown	Unknown
CLAC	12739	4 1E 32	901	Hansen (now Neuschwander)	165	95	81	14
CLAC	12727	4 1E 32A	100	Gingrich	150	98	83	15
CLAC	12721	4 1E 32	207	Hunnicutt	180	<117	Unknown	Unknown
CLAC	51776	4 1E 32	51776	Martishev	155	81	58	23

* Elevations are estimated from U.S.G.S. Topographic Map: Yoder Quadrangle, Oregon 7.5 Minute Series, 10-foot contour interval.

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JUN 27 1988

WATER RESOURCES DEPT.
SALEM, OREGON

CLF 012700 Well 1 START CARD 530

4S/1E-32

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

Well Number

(1) OWNER:
Name JOEL NEUSCHWANDER
Address 6059 S WHISKEY HILL RD
City HUBBARD State OR Zip

(2) TYPE OF WORK:
☑ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☐ Rotary Air ☐ Rotary Mud ☑ Cable
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☑ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☑ Depth of Completed Well 154 ft.
Explosives used Yes ☐ No ☐ Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
12	1	20	GRANULAR BENTONITE	1	20	11
8	20	154				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☑ Other GRANULAR BENTONITE METHOD
Backfill placed from ____ ft. to ____ ft. Material ____
Gravel placed from 25 ft. to 90 ft. Size of gravel PEA

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	154	.250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Location of shoe(s) 154

(7) PERFORATIONS/SCREENS:
☑ Perforations Method DRIVE DOWN
☐ Screens Type ____ Material ____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
88	150	3/16 X 1 1/4	400			☑	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
500	46	Pump	1 hr.
300	21	AIR LIFT	3

Temperature of water ____ Depth Artesian Flow Found ____
Was a water analysis done? ☐ Yes By whom ____
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____
Depth of strata: ____

(9) LOCATION OF WELL by legal description:
County CLACKAMAS Latitude ____ Longitude ____
Township 4S N or S, Range 1E E or W, WM.
Section 32 ¼ SE ¼
Tax Lot ____ Lot ____ Block ____ Subdivision ____
Street Address of Well (or nearest address) S. NEEDY RD, CANBY

(10) STATIC WATER LEVEL:
29 ft. below land surface. Date 5/25/88
Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:
Depth at which water was first found 31

From	To	Estimated Flow Rate	SWL
82	102	800 GPM ≈	30
115	132	500 GPM ≈	30

(12) WELL LOG:
Ground elevation ____

Material	From	To	SWL
SOIL	1	3	
CLAY BROWN	3	31	
SAND BROWN	31	31	
CLAY GREY	31	42	
CEMENTED GRAVEL	42	63	
CLAY DK GREY	63	70	
SILT BLACK	70	82	
SAND BLACK FINE	82	92	
CEMENTED GRAVEL	92	105	
CLAY BLUE STICKY	105	115	
CLAY GREY W/ GREY SAND LAYERS	115	132	
CLAY GREEN	132	144	
SILT DARK BROWN.	144	147	
CLAY BLUE GREEN	147	154	
INITIALLY PERFORATED 115 TO 150 I AND PRODUCED 150 GPM, total. Then GRAVEL PACKED 75-102 & 115-132, perforated 88' to 115'. Then PRODUCED 300 GPM WITH 21' DRAWDOWN.			

Date started 5/13/88 Completed 5/25/88

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number ____
Signed ____ Date ____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 245
Signed Richard Beck Date 5/25/88

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9809C 10/86

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JAN - 9 1997

WATER RESOURCES DEPT.
SALEM, OREGON

Well 2
TAG # L02078
CLAC 51287
62424

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

(START CARD) # _____

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number _____

Name Neuschwander's Nursery

Address 6097 S. Whiskey Hill Rd

City Hubbard State Or Zip 97032

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[ ] Rotary Air [ ] Rotary Mud [X] Cable [ ] Auger

[ ] Other _____

(4) PROPOSED USE:

[ ] Domestic [ ] Community [ ] Industrial [X] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other _____

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [ ] No Depth of Completed Well 140 ft.

Explosives used [ ] Yes [ ] No Type _____ Amount _____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12	1	50	Bentonite	1	50	35 sacks
8	30	140				

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E

[X] Other Granular Bentonite method

Backfill placed from _____ ft. to _____ ft. Material _____

Gravel placed from 60 ft. to 120 ft. Size of gravel pea

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	140	.25	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s) 140

(7) PERFORATIONS/SCREENS: Drive Down

[X] Perforations Method _____

[ ] Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
76	119	.188	600			[X]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

(8) WELL TESTS: Minimum testing time is 1 hour

[ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
		air line @	1 hr.
220		105	4 hr

Temperature of water 53 Depth Artesian Flow Found _____

Was a water analysis done? [ ] Yes By whom _____

Did any strata contain water not suitable for intended use? [ ] Too little

[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other _____

Depth of strata: _____

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude _____ Longitude _____

Township 4s N or S Range 1e E or W. WM.

Section 32 Se 1/4 NW 1/4

Tax Lot 900 Lot _____ Block _____ Subdivision _____

Street Address of Well (or nearest address) _____

29435 S Needy Rd

(10) STATIC WATER LEVEL:

47 ft. below land surface. Date Sep 10, 1996

Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 40

From	To	Estimated Flow Rate	SWL
40	140		47

(12) WELL LOG:

Ground Elevation _____

Material	From	To	SWL
Soil	1	3	
Clay, Brown	3	38	
Cemented gravel, brown	38	54	
Clay, grey	54	58	
Clay, grey, sandy	58	60	
Sand, black, fine	60	69	
Sand and gravel, black	69	71	
Cemented gravel, sand	71	74	
Sand & gravel	74	95	
Clay, blue	95	98	
clay, grey, silty	98	101	
Silt, dark grey	101	108	
Clay w/black coarse sand	108	116	
Clay, grey w/some cemented gravel	116	136	
Clay, blue	136	140	
Note: 6 inch gravel feed each side of			
8 inch well			

Date started August 8, 1996 Completed Dec 10, 1996

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number _____

Signed _____ Date _____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 743

Signed Richard Beck Date 1/4/97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

CLAC 012730

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

RECEIVED
JAN 24 1977
WATER RESOURCES DEPT.
SALEM OREGON

State Well No. 4S/1E-32C
State Permit No. TL 1505

(1) OWNER:
Name DICK TOEHER
Address 7171 S BERNARDS RD.
CANBY, OREGON

(2) TYPE OF WORK (check):
New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary [ ] Driven [ ]
Cable [X] Jetted [ ]
Dug [ ] Bored [ ]

(4) PROPOSED USE (check):
Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

CASING INSTALLED:
Threaded [ ] Welded [X]
6 " Diam. from 0 ft. to 68 ft. Gage .250"
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? [ ] Yes [X] No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? [X] Yes [ ] No
Manufacturer's Name JOHNSON
Type Model No.
Diam. 5 Slot size 45 Set from 68 ft. to 73 ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? [ ] Yes [X] No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test 15 gal./min. with 12 ft. drawdown after 1 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used BENTONITE
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 0 sacks
Number of sacks of bentonite used in well seal 3 sacks
Brand name of bentonite NATIONAL
Number of pounds of bentonite per 100 gallons of water 200 lbs./100 gals.
Was a drive shoe used? [X] Yes [ ] No Plug Size: location ft.
Did any strata contain unusable water? [ ] Yes [X] No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? [ ] Yes [X] No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County CLACKAMAS Driller's well number 376
SW ¼ SW ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 67 ft.
Static level 38 ft. below land surface. Date 1/10/77
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing —
Depth drilled 75 ft. Depth of completed well 73 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
TOP SOIL	0	2	
BROWN CLAY	2	22	
BROWN CLAY AND SAND	22	48	
BROWN CLAY	48	67	
LOOSE SAND AND GRAVEL	67	73	38
BROWN CLAY	73	75	

Work started 1/6 19 77 Completed 1/10 19 77
Date well drilling machine moved off of well 1/10 19 77

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] O.D. Keller (Drilling Machine Operator) Date 1/12, 19 77
Drilling Machine Operator's License No. 329

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name KELLER WELL DRILLING CO. (Person, firm or corporation) (Type or print)
Address 6350 SE BROWNLEE MILWAUKIE
[Signed] O.D. Keller (Water Well Contractor)
Contractor's License No. 462 Date 1/12, 19 77

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR: The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
OCT - 4 1971
STATE ENGINEER
SALEM, OREGON

CLAC

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
012713
(Do not write above this line)

State Well No. 4/1-32
State Permit No.

(1) OWNER:
Name Don Hanson - Twin Creek Farms
Address Rt. Box 340, Canby, Ore. 97013

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☒
12 " Diam. from 0 ft. to 155 ft. Gage .250
18 " Diam. from 0 ft. to 60 ft. Gage .250
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☒ Yes ☐ No
Manufacturer's Name Rossco Moss
Type Louivered Model No.
Diam. 12 Slot size 1/4 Set from 105 ft. to 155 ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☒ Yes ☐ No If yes, by whom?
Yield: 500 gal./min. with 30 ft. drawdown after 5 hrs.
800 " 45 " 4 "
1000 " 70 " 10 "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite - Cement Grout
Well sealed from land surface to 60 ft.
Diameter of well bore to bottom of seal 24 in.
Diameter of well bore below seal 18 in.
Number of sacks of cement used in well seal 8 sacks
Number of sacks of bentonite used in well seal 7 sacks
Brand name of bentonite National
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☐ Yes ☒ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☒ Yes ☐ No Size of gravel: 1/4 - 3/4
Gravel placed from 60 ft. to 160 ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number
¼ ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 60 ft.
Static level 32 ft. below land surface. Date
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6"
Depth drilled 345 ft. Depth of completed well 165 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Topsoil-Brown	0	3	
Clay-Brown	3	20	
Clay-Blue	20	60	
Clay-Bl-Sandy-Blk-Fine-Water trace	60	64	
Clay-Br-Sand seams-Fine-Br	64	94	
Sand-Blk-Fine-Clay-Blue	94	125	
Sand-Blk-Fine-Gravel traces Fine-Clay-Blue	125	160	
Clay-Bl-Sand streaks-Fine gravel	160	180	
Sand-Blk-Claystone-Blue	180	190	
Clay-Green-Blue	190	195	
Clay-Blue	195	200	
Clay-Gray	200	230	
Claystone-Blue	230	275	
Gravel-Lrg-Clay-Blue	275	278	
Claystone-Blue	278	290	
Claystone-Gray-Blue	290	300	(Cont)

Work started 5-29 1971 Completed 9-7 1971
Date well drilling machine moved off of well 9-7 1971

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Kenneth Skinner (Drilling Machine Operator) Date 9-25, 1971
Drilling Machine Operator's License No. 277

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name S & M Drilling & Supply (Person, firm or corporation) (Type or print)
Address Rt. 1 Box 31, Canby, Ore. 97013
[Signed] Kenneth Skinner (Water Well Contractor)
Contractor's License No. 520 Date 9-25, 1971

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*46634-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
OCT - 4 1971
STATE ENGINEER
SALEM OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

State Well No. 4/1-32

State Permit No. _____

(1) OWNER: (Cont.)

Name _____

Address _____

(2) TYPE OF WORK (check):

New Well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:

Threaded ☐ Welded ☐

_____" Diam. from _____ ft. to _____ ft. Gage _____

_____" Diam. from _____ ft. to _____ ft. Gage _____

_____" Diam. from _____ ft. to _____ ft. Gage _____

PERFORATIONS:

Perforated? ☐ Yes ☐ No.

Type of perforator used _____

Size of perforations _____ in. by _____ in.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☐ No

Manufacturer's Name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☐ No If yes, by whom?

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

" " " "

" " " "

Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Artesian flow _____ g.p.m.

Temperature of water _____ Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used _____

Well sealed from land surface to _____ ft.

Diameter of well bore to bottom of seal _____ in.

Diameter of well bore below seal _____ in.

Number of sacks of cement used in well seal _____ sacks

Number of sacks of bentonite used in well seal _____ sacks

Brand name of bentonite _____

Number of pounds of bentonite per 100 gallons of water _____ lbs./100 gals.

Was a drive shoe used? ☐ Yes ☐ No Plugs _____ Size: location _____ ft.

Did any strata contain unusable water? ☐ Yes ☐ No

Type of water? _____ depth of strata _____

Method of sealing strata off _____

Was well gravel packed? ☐ Yes ☐ No Size of gravel: _____

Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County _____ Driller's well number _____

¼ ¼ Section _____ T. _____ R. _____ W.M.

Bearing and distance from section or subdivision corner _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found _____ ft.

Static level _____ ft. below land surface. Date _____

Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing _____

Depth drilled _____ ft. Depth of completed well _____ ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Claystone-Sandstone seams-Water	300	340	32
Sand-Fine-Gray-Blank	340	345	

Work started _____ 19 Completed _____ 19

Date well drilling machine moved off of well _____ 19

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Bennett Skinner Date _____, 19____
(Drilling Machine Operator)

Drilling Machine Operator's License No. _____

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name _____
(Person, firm or corporation) (Type or print)

Address _____

[Signed] Bennett Skinner
(Water Well Contractor)

Contractor's License No. _____ Date _____, 19____

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45655-119

RECEIVED JUN - 2 1997 WATER RESOURCES DEPT. SALEM, OREGON

Skyles Drilling, Inc.
1164 Molalla Ave.
Oregon City, OR 97045
656-2683

CLAC 5776 L09629

STATE OF OREGON WATER SUPPLY WELL REPORT

(as required by ORS 537)

(START CARD) # 98083

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 01

Name Tony Martishey

Address 1040 Tierra Lynn Dr.

City Woodburn State Or. Zip 97071

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[X] Rotary Air [ ] Rotary Mud [ ] Cable [ ] Auger

[X] Other Holte

(4) PROPOSED USE:

[ ] Domestic [ ] Community [ ] Industrial [X] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [X] No Depth of Completed Well 235 ft.

Explosives used [ ] Yes [X] No Type _____ Amount _____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12"	0	18	Bentonite	18	0	16 sacks
9 1/2"	18	250				
9 1/2"	216	225	Cement	223	216	6 sacks

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E

[X] Other Bent Poured/Cement pumped

Backfill placed from 250 ft. to 235 ft. Material 3/8" gravel

Gravel placed from _____ ft. to _____ ft. Size of gravel 18 sacks

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8"	+2	229	250	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:	None				[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s) None

(7) PERFORATIONS/SCREENS:

[ ] Perforations Method _____

[ ] Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
None						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

(8) WELL TESTS: Minimum testing time is 1 hour

[ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
200		220	1 hr.

Temperature of water 56° Depth Artesian Flow Found _____

Was a water analysis done? [ ] Yes By whom _____

Did any strata contain water not suitable for intended use? [ ] Too little

[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other _____

Depth of strata: _____

(9) LOCATION OF WELL by legal description:

County Clackamas Latitude _____ Longitude _____

Township 4 South N or S Range 1 East E or W. WM.

Section 32 NW 1/4 NW 1/4

Tax Lot 500 Lot _____ Block _____ Subdivision _____

Street Address of Well (or nearest address) S. Barlow Canby, Or.

(10) STATIC WATER LEVEL:

30 ft. below land surface. Date 5-17-97

Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 57'

From	To	Estimated Flow Rate	SWL
57'	74'	40	30
97'	112'	100	30
223'	249'	200	30

(12) WELL LOG:

Ground Elevation _____

Material	From	To	SWL
Clay Brown Sandy	0	6	
Clay Brown	6	57	
Sand Brown	57	74	
Clay Gray	74	97	
Sand Gray Med Some Gravel	97	112	
Clay Gray	112	223	
Sand Cemented Gray Med	223	249	30
Clay Gray	249	250	

Date started 5-8-97 Completed 5-17-97

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number 553

Signed Marvin D. Skyles Date 5-23-97

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 1592

Signed Steven E. Bland Date 5-23-97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM 10, OREGON within 30 days from the date of well completion.

RECEIVED NOV 13 1962 STATE ENGINEER

CLAC 012726

WATER WELL REPORT
STATE OF OREGON
(Please type or print)

State Well No. 4/1-32

State Permit No. TL 1300

(1) OWNER:
Name John Galer,

Address Rt.2,Box 346,Canby,Ore.

(2) LOCATION OF WELL:
County Clackamas Driller's well number

¼ ¼ Section 32 T. 4S R. 1E W.M.

Bearing and distance from section or subdivision corner

750 Ft.North,300 Ft. West of S.E corner sec.32.

(3) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(6) CASING INSTALLED:
Threaded ☐ Welded ☒

6 " Diam. from 0 ft. to 70 ft. Gage

" Diam. from ft. to ft. Gage

" Diam. from ft. to ft. Gage

(7) PERFORATIONS:
Perforated? ☐ Yes ☐ No

Type of perforator used

Size of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

(8) SCREENS:
Well screen installed ☐ Yes ☐ No

Manufacturer's Name

Type Model No.

Diam. Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:
Well seal—Material used in seal heavy mud and cement

Depth of seal 20 ft. Was a packer used?

Diameter of well bore to bottom of seal in.

Were any loose strata cemented off? ☐ Yes ☒ No Depth

Was a drive shoe used? ☐ Yes ☐ No

Was well gravel packed? ☐ Yes ☐ No Size of gravel:

Gravel placed from ft. to ft.

Did any strata contain unusable water? ☐ Yes ☐ No

Type of water? Depth of strata

Method of sealing strata off

(10) WATER LEVELS:
Static level 27 ft. below land surface Date 10-29-62

Artesian pressure lbs. per square inch Date

(11) WELL TESTS:
Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? J.T.Miller

Yield: 50 gal./min. with 23 ft. drawdown after hrs.

" " " "

" " " "

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? ☐ Yes ☐ No

(12) WELL LOG:
Diameter of well below casing 6

Depth drilled 70 ft. Depth of completed well 70 ft.

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
surface	0	3
clay,yellow	3	23
clay,gray	23	42
clay,blue	42	63
coarse broken sand,gravel water	63	70

Work started 10-29- 19 62 Completed 10-31- 19 62

Date well drilling machine moved off of well 19

(13) PUMP:
Manufacturer's Name

Type: H.P.

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME J.T.Miller (Person, firm or corporation) (Type or print)

Address Box 175,Aurora, Ore.

Drilling Machine Operator's License No.

[Signed] J.T.Miller (Water Well Contractor)

Contractor's License No. 103 Date 10-31, 19 62

(USE ADDITIONAL SHEETS IF NECESSARY)

7

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

CLAC 012739

WATER WELL REPORT
STATE OF OREGON
(Please type or print) House Well
(Do not write above this line)

State Well No. 4S/1E-33dk
State Permit No.

(1) OWNER:
Name TWIN CREEK Farms DON HANSON
Address 29385 S. Needy Rd.
Canby, Oregon 97013

(2) TYPE OF WORK (check):
New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary [X] Driven [ ]
Cable [ ] Jetted [ ]
Dug [ ] Bored [ ]

(4) PROPOSED USE (check):
Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(5) CASING INSTALLED:
Threaded [ ] Welded [X]
6 " Diam. from 0 ft. to 118 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:
Perforated? [ ] Yes [X] No.
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? [ ] Yes [X] No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? [ ] Yes [X] No If yes, by whom?
Yield: 45 gal./min. with total ft. drawdown after 1 hrs.
AIR ROTARY " " "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used cement
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal sacks
How was cement grout placed? pressure grouted
Was a drive shoe used? [X] Yes [ ] No Plugs Size: location ft.
Did any strata contain unusable water? [ ] Yes [X] No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? [ ] Yes [X] No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County CLACKAMAS Driller's well number D-247-79
SW ¼ SE ¼ Section 33 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 18 ft.
Static level 50 ft. below land surface. Date 2-25-79
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6"
Depth drilled 120 ft. Depth of completed well 120 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
topsoil	0	1	
clay sandy brown	1	28	
clay sandy blue	28	63	
sand brown	63	66	
~~clay~~ sand & gravel brown medium	66	70	
clay sandy blue	70	84	
sand black	84	95	
sand & gravel blue med.	95	109	
clay blue	109	119	
sand black	119		50

RECEIVED
AUG 2 - 1979
WATER RESOURCES DEPT
SALEM, OREGON

Work started 7-24 19 79 Completed 7-25 19 79
Date well drilling machine moved off of well 7-25 19 79

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] J Miller (Drilling Machine Operator) Date 7-31, 1979
Drilling Machine Operator's License No. 1290

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name S & M DRILLING & SUPPLY, INC. (Person, firm or corporation) (Type or print)
Address 399 S.E. Walnut St. Canby, Or.
[Signed] (Water Well Contractor)
Contractor's License No. 497 Date 7-31, 1979

(USE ADDITIONAL SHEETS IF NECESSARY)

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the
STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

CLAC 01227

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

RECEIVED
APR 29 1977
WATER RESOURCES DEPT.
SALEM, OREGON

State Well No. 4S/1E-32aa
State Permit No.

(1) OWNER:
Name DOUG GINGERICH
Address RT 1 Box 118
HUBBARD OREGON 97032

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☒
10" Diam. from +1 ft. to 72 ft. Gage .250"
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☒ Yes ☐ No
Manufacturer's Name JOHNSON
Type Model No.
Diam. 5 Slot size 10 Set from 72 ft. to 77 ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " "
" " "
Bailer test 35 gal./min. with 9 ft. drawdown after 1 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used BENTONITE
Well sealed from land surface to 23 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 9 sacks
Number of sacks of bentonite used in well seal 4 sacks
Brand name of bentonite NATIONAL
Number of pounds of bentonite per 100 gallons of water 200 lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County CLACKAMAS Driller's well number 384
NE ¼ NE ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 72 ft.
Static level 28 ft. below land surface. Date 4/26/77
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing
Depth drilled 77 ft. Depth of completed well 77 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
TOP SOIL	0	2	
BROWN CLAY	2	13	
SAND AND BROWN CLAY	13	29	
BLUE CLAY	29	31	
BROWN CLAY AND SAND	31	41	
BLUE CLAY	41	50	
CEMENTED GRAVEL	50	52	
BLUE CLAY	52	67	
SOFT BLUE SANDSTONE	67	72	
LOOSE SAND	72	77	28

Work started 4/22 19 77 Completed 4/26 19 77
Date well drilling machine moved off of well 4/27 19 77

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] C K Keller (Drilling Machine Operator) Date 4/27, 19 77
Drilling Machine Operator's License No. 329

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name KELLER WELL DRILLING CO. (Person, firm or corporation) (Type or print)
Address 6350 SE BROWNLEE, MILWAUKIE
[Signed] C K Keller (Water Well Contractor)
Contractor's License No. 462 Date 4/27, 19 77

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the
STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date of well completion.

CLAC 012721

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

RECEIVED
JUN 22 1973
STATE ENGINEER
SALEM OREGON

State Well No. 4S/1E-32
State Permit No. 20107202

(1) OWNER:
Name Richard Hunnicut
Address Rt 2 Box 124-A, Canby, Oregon

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
[illegible] ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☒
6 " Diam. from 0 ft. to 57 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
[illegible]id: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test 25 gal./min. with 27 ft. drawdown after 1 hrs.
[illegible]esian flow g.p.m.
[illegible]perature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal sacks
Number of sacks of bentonite used in well seal 3 sacks
Brand name of bentonite Wilbur Ellis
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number 20107202
¼ ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 55 ft.
Static level 30 ft. below land surface. Date 5/3/73
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6
Depth drilled 64 ft. Depth of completed well 63 ft.
Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Soil, Brown	0	2	
Clay, Brown	2	28	
Clay, Gray	28	35	
River Rock, Cemented	35	55	
Sand, Gravel, WB	55	63	30

Work started 5/3/73 19 Completed 5/3/73 19
Date well drilling machine moved off of well 5/3/73 19

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] H. Blackman (Drilling Machine Operator) Date 5/9/73, 19
Drilling Machine Operator's License No. 681

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name Harvey Blackman (Person, firm or corporation) (Type or print)
Address Rt 1 Box 181K, Mulino, Oregon
[Signed] Harvey Blackman (Water Well Contractor)
Contractor's License No. 537 Date 5/9/73, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the

STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date of well completion.

RECEIVED
JUL 25 1975
WATER RESOURCES DEPT.
SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON

(Please type or print)
(Do not write above this line)

State Well No. 4S/1E-32 dd
State Permit No.

(1) OWNER:
Name Rufus Kraxberger, Jr.
Address 11280 S. Macksburg Rd., Canby, Ore.

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☒
" Diam. from ft. to ft. Gage
6 " Diam. from 0 ft. to 110 ft. Gage .250
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? ☐ Yes ☒ No.
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
air rotary 20 total " 1 "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite
Well sealed from land surface to 18 ft.
Diameter of well bore to bottom of seal 9 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal sacks
Number of sacks of bentonite used in well seal 3½ sacks
Brand name of bentonite Wilber Ellis
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
sealing strata off
gravel packed? ☐ Yes ☒ No Size of gravel:
fed from ft. to ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number
S.E. ¼ S.E. ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner
Bearcreek Estates #6

(11) WATER LEVEL: Completed well.
Depth at which water was first found 45 ft.
Static level 55 ft. below land surface. Date 7-18-75
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6"
Depth drilled 112 ft. Depth of completed well 112 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Topsoil	0	3	
Clay-brown	3	26	
Gravl-med	26	62	
Clay-brown	62	85	
Gravel-med	85	93	
Gravel-sm-clay-brown	93	105	
Gravel-med-sand-blk-water	105	112	55

Work started 7-18 19 75 Completed 7-18 19 75
Date well drilling machine moved off of well 7-18 1975

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Ted Donnelly (Drilling Machine Operator) Date 7-24, 1975
Drilling Machine Operator's License No. 883

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name S & M Drilling & Supply, Inc. (Person, firm or corporation) (Type or print)
Address 399 S.E. Walnut, Canby, Ore. 97013
[Signed] (Water Well Contractor)
Contractor's License No. 497 Date 7-24, 1975

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
OCT 28 1971
STATE ENGINEER
SALEM OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

CLAC 012711

State Well No. 4/1-32

State Permit No.

(1) OWNER: #9
Name Dave Beeson
Address 645 N.E. Libee, Canby, Ore.

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☒
6" Diam. from 0 ft. to 60 ft. Gage 250
5 9/16" Diam. from 60 ft. to 115 ft. Gage 10
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? ☒ Yes ☐ No
Type of perforator used Cutting torch
Size of perforations 1/8 in. by 12 in.
36 perforations from 90 ft. to 110 ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
Air rotary 30 Total " 2 "
" 15 35 " 2 "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite-Puddled Clay
Well sealed from land surface to 60 ft.
Diameter of well bore to bottom of seal 9 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 1 sacks
Number of sacks of bentonite used in well seal 2 sacks
Brand name of bentonite National
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☐ Yes ☒ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number
¼ ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 18 ft.
Static level 35 ft. below land surface. Date 9-31-71
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6"
Depth drilled 115 ft. Depth of completed well 115 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Topsoil-Brown	0	3	
Clay-Brown	3	18	
Clay-Sandy-Brown-Water	18	22	18
Clay-Blue	22	60	60
Clay-Brown-Sandy-Water trace	60	90	
Sand-Blk-Clay seams-Blue-Water	90	110	35
Clay-Blue	110	115	

Work started 9-29 1971 Completed 9-29 1971
Date well drilling machine moved off of well 9-31 1971

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Kenneth Skinner (Drilling Machine Operator) Date 10-16, 1971
Drilling Machine Operator's License No. 277

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name S & M Drilling & Supply (Person, firm or corporation) (Type or print)
Address Rt. 1 Box 31 Canby, Ore.
[Signed] Kenneth Skinner (Water Well Contractor)
Contractor's License No. 520 Date 10-16, 1971

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
SEP 21 1970
STATE ENGINEER
SALEM, OREGON

CLAC

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

012717

State Well No. 4/1-32

State Permit No. .....

#4

(1) OWNER:
Name Jim Payton
Address 1131 N. Amrine Rd., Canby, Ore.

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☒
6 " Diam. from 0 ft. to 120 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test 40 gal./min. with 20 ft. drawdown after 2 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite-Puddled Clay
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal sacks
Number of sacks of bentonite used in well seal 2 sacks
Brand name of bentonite National
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number 70-26
¼ ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 22 ft.
Static level 35 ft. below land surface. Date 9-11-70
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6"
Depth drilled 120 ft. Depth of completed well 120 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Topsoil-Brown	0	3	
Clay-Brown-Sandy	3	22	
Clay-Br.-Gravel-Coarse-Water	22	27	22
Clay-Brown-Sandy	27	86	
Clay-Blue	86	115	
Sand-Br.-Med.-Water	115	120	

Work started 9-10 19 70 Completed 9-11 19 70
Date well drilling machine moved off of well 9-11 19 70

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Kenneth Skinner (Drilling Machine Operator) Date 9-14, 19 70
Drilling Machine Operator's License No. 277

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name S & M Drilling & Sunply (Person, firm or corporation) (Type or print)
Address Rt. 1 Box 31, Canby, Ore.
[Signed] Kenneth Skinner (Water Well Contractor)
Contractor's License No. 520 Date 9-14, 19 70

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
OCT 26 1970
STATE ENGINEER
SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

CLAC
012714

State Well No. 4/1-32
State Permit No.

DRILLED BY JIM SKINNER

(1) OWNER: #6
Name James Payton
Address 1131 N. Amrine Rd., Canby, Ore.

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☒
6 " Diam. from 0 ft. to 122 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test 40 gal./min. with 10 ft. drawdown after 2 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite-Puddled Clay
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal sacks
Number of sacks of bentonite used in well seal 2 sacks
Brand name of bentonite National
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number 70-28
¼ ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 21 ft.
Static level 40 ft. below land surface. Date 9-22-70
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6
Depth drilled 122 ft. Depth of completed well 122 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Topsoil-Brown	0	3	
Clay-Brown	3	21	
Sand-Fine-Water	21	23	21
Clay-Brown	23	90	
Clay-Blue	90	120	
Sand- ed.-Br.-claystone-Water	120	122	40

Work started 9-16 19 70 Completed 9-22 19 70
Date well drilling machine moved off of well 9-22 19 70

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Kenneth Skinner (Drilling Machine Operator) Date 10-1, 19 70
Drilling Machine Operator's License No. 277

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name S & M Drilling & Supply (Person, firm or corporation) (Type or print)
Address Rt. 1 Box 31, Canby, Ore.
[Signed] Kenneth Skinner (Water Well Contractor)
Contractor's License No. 520 Date 10-1, 19 70

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45658-119

STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

RECEIVED
OCT 13 1987
WATER RESOURCES DEPT.
SALEM, OREGON

CLAC 012701 4S/1E-32cc

(1) OWNER:

Well Number:

Name Dan Knopp

Address 1150 Spruce St. NE

City ~~Aurora~~ Salem State Or. Zip ~~97013~~ 97303

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD

☒ Rotary Air ☐ Rotary Mud ☐ Cable

☐ Other

(4) PROPOSED USE:

☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation

☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes ☐ No ☒ Depth of Completed Well 127 ft.

Explosives used Yes ☐ No ☒ Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
10"	0	19'	cement	0	19'	12 sacks
6"	19'	127'				

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E

☐ Other

Backfill placed from ft. to ft. Material

Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6"	+16'	127'	250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Perforations location of shoe(s) 127'

(7) PERFORATIONS/SCREENS:

☒ Perforations Method Air Perforator

☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
104'	120'	1/8	600			☒	☐
		X				☐	☐
		1"				☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
80		~125'	1 hr.

Temperature of water 54 Depth Artesian Flow Found

Was a water analysis done? ☐ Yes By whom

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County Clack Latitude ' " Longitude ' "

Township 4S N or S, Range 1E E or W, WM.

Section 32 SW ¼ SW ¼

Tax Lot Lot Block Subdivision

Street Address of Well (or nearest address) 29800 S Barlow Rd Aurora, Or. 97002

(10) STATIC WATER LEVEL:

51 ft. below land surface. Date 9/28/87

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 61'

From	To	Estimated Flow Rate	SWL
61'	74'	10 GpM	47'
91'	94'	10 GPM	47'
103'	121'	80 GPM	51'

(12) WELL LOG:

Ground elevation

Material	From	To	SWL
Top soil	0	2	
Clay, brown	2	18	
Clay, blue	18	46	
Gravel, clay, medium, brown	46	48	
Clay, brown	48	61	
Gravel, sand, medium, brown	61	74	47'
Clay, blue	74	91	
Sand, brown	91	94	47'
Clay, brown	94	103	
Sandstone, gravel, black, medium	103	121	51'
Clay, blue	121	127	

Date started 9/23/87 Completed 9/28/87

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number

Signed Date

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 637

Signed George J. Wainwright Date 10/10/87

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9809C 10/86

NOTICE TO WATER WELL CONTRACTOR: The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON, within 30 days from the date of well completion.

RECEIVED FEB 3 - 1972 STATE ENGINEER SALEM, OREGON

CLAC

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

012710

State Well No. 4/1-32

State Permit No.

(1) OWNER:
Name Robert Gibson
Address 940 NE Maple Lane, Canby, Ore

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:
Threaded ☐ Welded ☒
6" Diam. from 0 ft. to 140 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " "
" " "
Bailer test 15 gal./min. with 80 ft. drawdown after 1 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite
Well sealed from land surface to 25 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal sacks
Number of sacks of bentonite used in well seal 4 sacks
Brand name of bentonite Central Ore
Number of pounds of bentonite per 100 gallons of water 500 lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☒ Yes ☐ No
Type of water? Runny Sand depth of strata 52, 80, 123
Method of sealing strata off Casing
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Clackmas Driller's well number
¼ ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 139 ft.
Static level 30 ft. below land surface. Date 1/5/72
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6
Depth drilled 141 ft. Depth of completed well 140 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Soil, Brown	0	2	
Clay, Brown	2	12	
Sand, Brown, WB	12	20	
Clay, Gray	20	52	
Sand, Black, WB	52	53	30
Clay, Gray	53	80	
Sand, Black, WB	80	95	30
Clay, Gray	95	123	
Sand, Black, WB	123	125	
Clay, Gray	125	139	
Sand, Brown, WB	139	141	30

Work started 12/18/71 19 Completed 1/5/72 19
Date well drilling machine moved off of well 1/5/72 19

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Harvey Blackman (Drilling Machine Operator) Date 2/1/72, 19
Drilling Machine Operator's License No. 681

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name Harvey Blackman (Person, firm or corporation) (Type or print)
Address Rt. 1, Box 181K, Mulino, Ore
[Signed] Harvey Blackman (Water Well Contractor)
Contractor's License No. 537 Date 2/1/72, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR: The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED SEP 21 1970 STATE ENGINEER SALEM, OREGON

CLAC 012716

WATER WELL REPORT

STATE OF OREGON (Please type or print) (Do not write above this line)

State Well No. 4/1-32

State Permit No.

#3

(1) OWNER:

Name Jim Payton

Address 131 N. Amrine Dr., Canby, Ore.

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:

Threaded ☐ Welded ☒

6 " Diam. from 0 ft. to 190 ft. Gage .250

" Diam. from ft. to ft. Gage

" Diam. from ft. to ft. Gage

PERFORATIONS:

Perforated? ☐ Yes ☒ No

Type of perforator used

Size of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Diam. Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Bailer test 20 gal./min. with 10 ft. drawdown after 2 hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Bentonite-puddled Clay

Well sealed from land surface to 20 ft.

Diameter of well bore to bottom of seal 10 in.

Diameter of well bore below seal 6 in.

Number of sacks of cement used in well seal sacks

Number of sacks of bentonite used in well seal 2 sacks

Brand name of bentonite National

Number of pounds of bentonite per 100 gallons of water lbs./100 gals.

Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☒ No Size of gravel:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Clackamas Driller's well number 70-25

¼ ¼ Section 32 T. 4S R. 1E W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 55 ft.

Static level 40 ft. below land surface. Date 9-9-70

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 6"

Depth drilled 190 ft. Depth of completed well 190 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Topsoil-Brown	0	3	
Clay-Brown-Sandy	3	55	
Clay-Br.-Sandy-Water trace	55	78	55
Clay-Blue-Sticky	78	120	
Clay-Bl.-Sandy-Water	120	130	
Sand-Br.-Water heaves in well	130	152	120
Clay-Brown	152	155	
Clay-Blue	155	185	
Sand-Med.-Gravel-Med.-Water	185	190	40

Work started 9-2 19 70 Completed 9-9 19 70

Date well drilling machine moved off of well 9-9 19 70

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Kenneth S Conner (Drilling Machine Operator) Date 9-14, 19 70

Drilling Machine Operator's License No. 277

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name S & M Drilling & Supply (Person, firm or corporation) (Type or print)

Address Rt. 1 Box 31, Canby, Ore.

[Signed] Kenneth S Conner (Water Well Contractor)

Contractor's License No. 520 Date 9-14, 19 70

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
OCT 26 1970
STATE ENGINEER
SALEM, OR.

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

CLAC 012715

State Well No. 4/1-32

State Permit No.

Drilled By Jim Skinner

(1) OWNER:
well #5

Name Jim Payton

Address 1131 n. Amrine Rd., Canby, Ore.

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:
Threaded ☐ Welded ☒

6" Diam. from 0 ft. to 181 ft. Gage .250

5" Diam. from 180 ft. to 198 ft. Gage .10

" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? ☒ Yes ☐ No

Type of perforator used Cutting torch

Size of perforations 1/4 in. by 14 in.

36 perforations from 184 ft. to 198 ft.

perforations from ft. to ft.

perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Diam. Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Bailer test 18 gal./min. with 132 ft. drawdown after 2 hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite

Well sealed from land surface to 20 ft.

Diameter of well bore to bottom of seal 10 in.

Diameter of well bore below seal 6 in.

Number of sacks of cement used in well seal sacks

Number of sacks of bentonite used in well seal 2 sacks

Brand name of bentonite National

Number of pounds of bentonite per 100 gallons of water lbs./100 gals.

Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☒ No Size of gravel:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number 70-27

¼ ¼ Section 32 T. 4S R. 1E W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 18 ft.

Static level 46 ft. below land surface. Date 9-16-70

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6

Depth drilled 198 ft. Depth of completed well 198 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Topsoil-Brown	0	3	
Clay-Brown-Sandy	3	18	
Sand-Fine-Brown-Water	18	22	18
Clay-Brown-Sandy	22	48	
Clay-Br.-Gravel-Med.-Coarse	48	53	
Clay-Br.-Sand-Fine-Br.-Heavy, Water	53	90	53
Clay-Blue	90	98	
Sand-Br.-Fine-Heaves-water	98	145	
Clay-Blue	145	160	
Clay-Brown	160	175	
Clay-Blue-Sand-Med.-Water	175	198	46

Work started 9-11 19 70 Completed 9-15 19 70

Date well drilling machine moved off of well 9-16 19 70

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Kenneth Skinner Date 9-28, 19 70
(Drilling Machine Operator)

Drilling Machine Operator's License No. 277

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name S & M Drilling & Supply
(Person, firm or corporation) (Type or print)

Address Rt. 1 Box 31, Canby, Ore.

[Signed] Kenneth Skinner
(Water Well Contractor)

Contractor's License No. 520 Date 9-28, 19 70

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45856-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON, 97310 within 30 days from the date of well completion.

RECEIVED
OCT 28 1971
STATE ENGINEER
SALEM, OREGON

CLAC 012712

WATER WELL REPORT
STATE OF OREGON (Please type or print) (Do not write above this line)

State Well No. 4/1-32

State Permit No. .....

(1) OWNER: #8
Name Dave Beeson

Address 645 N.E. Libee, Canby, Ore.

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☒

6" Diam. from 0 ft. to 60 ft. Gage .250

5 9/16" Diam. from 60 ft. to 105 ft. Gage 10

..." Diam. from ... ft. to ... ft. Gage ...

PERFORATIONS:
Perforated? ☒ Yes ☐ No.

Type of perforator used Cutting torch

Size of perforations 1/8 in. by 12 in.

36 perforations from 85 ft. to 105 ft.

... perforations from ... ft. to ... ft.

... perforations from ... ft. to ... ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No

Manufacturer's Name ...

Type ... Model No. ...

Diam. ... Slot size ... Set from ... ft. to ... ft.

Diam. ... Slot size ... Set from ... ft. to ... ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom? ...

Yield: gal./min. with ft. drawdown after hrs.

Air rotary 30 " Total " 2 "

" " 20 " 30 " 2 "

" " 15 " 10 " 2 "

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ... ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite-Puddled Clay

Well sealed from land surface to 55 ft.

Diameter of well bore to bottom of seal 9 in.

Diameter of well bore below seal 6 in.

Number of sacks of cement used in well seal ... sacks

Number of sacks of bentonite used in well seal 2 sacks

Brand name of bentonite National

Number of pounds of bentonite per 100 gallons of water ... lbs./100 gals.

Was a drive shoe used? ☐ Yes ☒ No Plugs ... Size: location ... ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☒ No Size of gravel: ...

Gravel placed from ... ft. to ... ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number

¼ ¼ Section 32 T. 4S R. 1E W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 22 ft.

Static level 30 ft. below land surface. Date 9-28-71

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6"

Depth drilled 105 ft. Depth of completed well 105 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Topsoil-Brown	0	3	
Clay-Brown	3	22	
Clay-Brown-Sandy-Water trace	22	23	
Clay-Brown	23	50	
Clay-Blue-Sandy	50	85	
Sand-Yellow-Compact-Water	85	100	
Sand-Blk-Clay-Blue-Water	100	105	

Work started 9-28 1971 Completed 9-28 1971

Date well drilling machine moved off of well 9-28 1971

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Bennett Skinner (Drilling Machine Operator) Date 10-16, 1971.

Drilling Machine Operator's License No. 277

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name S & M Drilling & Supply (Person, firm or corporation) (Type or print)

Address Rt. 1 Box 31 Canby, Ore. 97013

[Signed] Bennett Skinner (Water Well Contractor)

Contractor's License No. 520 Date 10-16 71

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

14-

CLAC 18461

RECEIVED
AUG 25 1993
WATER RESOURCES DEPT.
SALEM, OREGON

4S/1E/32

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

(START CARD) # W36779

(1) OWNER:
Well Number:
Name Rex Myers
Address 29264 S Barlow Rd
City Canby State Ore Zip 97013

(2) TYPE OF WORK:
☑ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☐ Rotary Air ☐ Rotary Mud ☑ Cable
☐ Other

RECEIVED
OCT - 4 1993
WATER RESOURCES DEPT.
SALEM, OREGON

(4) PROPOSED USE:
☑ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☑ Depth of Completed Well 100 ft.
Explosives used Yes ☐ No ☑ Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
9+	0	20	Cement	0	20+	115
6	20	100				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☐ Other Tremmi
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6	+1	93	250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	6 OD	90	100		☑	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:
☑ Perforations Method Torch
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
92	100	1/8 x 6"	42	6 OD		☐	☑
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☑ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
25	12 Ft		1 hr.

Temperature of water 52° Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Clack Latitude Longitude
Township 4S N or S. Range 1E E or W. WM.
Section 32 NW ¼ NE ¼
Tax Lot 205 Lot Block Subdivision
Street Address of Well (or nearest address) 29264 S Barlow Rd
Canby Ore

(10) STATIC WATER LEVEL:
36 ft. below land surface. Date 8-20 93
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 42 to 58

From	To	Estimated Flow Rate	SWL
88	98	75+	36

(12) WELL LOG:
Ground elevation

Material	From	To	SWL
Top & Brown Clay	0	28	
L Gray Clay	28	42	
L Brown Clay with Sand			
Streaks	42	58	34
Dark Blue Silty Clay	58	70	
Black Silt & wood	70	84	36
Black Sand	84	88	36
Sand & Gravel (Park)	88	98	36
Green Clay	98	100	

Date started 8-16-93 Completed 8-20-93

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.
WWC Number
Signed Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief. WWC Number 1119
Signed John W Becke Date 8-20-93

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C 3/88

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the
STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date of well completion.

LAC 012706

RECEIVED
AUG 29 1975
WATER RESOURCES DEPT
SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

State Well No. 45/1E-32cc
State Permit No.

(1) OWNER:
Name: Anderson & Ritter Construction
Address: 255 SW 1st
Canby, Oregon 97013

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☒
6 " Diam. from 0 ft. to 86 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
er Rotary 30 " Total " 1 "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
perature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite
Well sealed from land surface to 18 ft.
Diameter of well bore to bottom of seal 9 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 0 sacks
Number of sacks of bentonite used in well seal 2½ sacks
Brand name of bentonite Wilbur Ellis
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number
SW ¼ SW ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 24 ft.
Static level 40 ft. below land surface. Date 8-22-75
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6
Depth drilled 100 ft. Depth of completed well 95 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Topsoil	0	3	
Clay-brown	3	23	
Clay-brown-sandy	23	28	
Clay-blue-sticky	28	46	
Gravel-black	46	51	
Clay-brown	51	72	
Sand-brown-gravel	72	77	
Clay-brown	77	84	
Sandstone-black	84	88	
Sand-black-water	88	100	40

Work started 8-22 19 75 Completed 8-22 1975
Date well drilling machine moved off of well 8-22 1975

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] David Donnelly (Drilling Machine Operator) Date 8-25, 1975
Drilling Machine Operator's License No. 883

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name S & M Drilling & Supply, Inc. (Person, firm or corporation) (Type or print)
Address 399 SE Walnut Street Canby, Oregon
[Signed] Walter Mann (Water Well Contractor)
Contractor's License No. 497 Date 8-25, 1975

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR: The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED AUG 14 1972 STATE ENGINEER SALEM OREGON

CLAC 012728

WATER WELL REPORT

STATE OF OREGON (Please type or print) (Do not write above this line)

State Well No. 4S/1E-32 aC

State Permit No.

(1) OWNER:

Name Country Squire

Address Molalla Ave., Oregon City, Ore.

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☒
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒

6 " Diam. from 0 ft. to 136 ft. Gage .250

" Diam. from ft. to ft. Gage

" Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Perforated? ☐ Yes ☒ No

Type of perforator used

Size of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Diam. Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

r rotary 60 Total " 1 "

" " 50 115 " 1 "

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Cement grout

Well sealed from land surface to 62 ft.

Diameter of well bore to bottom of seal 9 in.

Diameter of well bore below seal 6 in.

Number of sacks of cement used in well seal 8 sacks

Number of sacks of bentonite used in well seal 1 sacks

Brand name of bentonite National

Number of pounds of bentonite per 100 gallons of water lbs./100 gals.

Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☒ No Size of gravel:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Clackamas Driller's well number

S.W. ¼ N.E. ¼ Section 32 T. 4S R. 1E W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 18 ft.

Static level 17 ft. below land surface. Date 7-25-72

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 6"

Depth drilled 162 ft. Depth of completed well 160 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Clay-Light brown	0	10	
Gravel-Med-Cemented	10	18	
Gravel-Br-Water	18	23	15
Gravel-Cemented-Boulders	23	62	
Gravel-Sand-Water	62	68	18
Gravel-Sand-Cemented-Clay-Yw	68	84	
Gravel-Br-Sand-Water	84	98	
Gravel-Sand-Bedded-Clay-Yw.	98	128	
Gravel-Sand-Water	128	130	
Clay-Blue	130	155	
Gravel-Med-Water	155	162	

Work started 7-21 19 72 Completed 7-25 19 72

Date well drilling machine moved off of well 7-25 1972

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Walter Mace (Drilling Machine Operator) Date 8-10, 1972

Drilling Machine Operator's License No. 595

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name S & M Drilling & Supply, Inc. (Person, firm or corporation) (Type or print)

Address Rt. 1 Box 31, Canby, Ore. 97013

[Signed] Walter Mace (Water Well Contractor)

Contractor's License No. 497 Date 8-10, 1972

(USE ADDITIONAL SHEETS IF NECESSARY)

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
SEP 11 1970
STATE ENGINEER
SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

CLAC 012718 State Well No. 4/1-32

State Permit No. .....

(1) OWNER:
Name James Payton
Address 1131 N. Amrine Rd. Canby, Ore

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☒
6" Diam. from 0 ft. to 137 ft. Gage .250
..." Diam. from ..... ft. to ..... ft. Gage .....
..." Diam. from ..... ft. to ..... ft. Gage .....

PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations ..... in. by ..... in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name .....
Type ..... Model No. .....
Diam. ..... Slot size ..... Set from ..... ft. to ..... ft.
Diam. ..... Slot size ..... Set from ..... ft. to ..... ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: ..... gal./min. with ..... ft. drawdown after ..... hrs.
" " " "
" " " "
Bailer test 40 gal./min. with 20 ft. drawdown after 2 hrs.
Artesian flow ..... g.p.m.
Temperature of water ..... Depth artesian flow encountered ..... ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite-Puddled Clay
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal ..... sacks
Number of sacks of bentonite used in well seal 2 sacks
Brand name of bentonite National
Number of pounds of bentonite per 100 gallons of water ..... lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plug ..... Size: location ..... ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? ..... depth of strata .....
Method of sealing strata off .....
Was well gravel packed? ☐ Yes ☒ No Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number 70-24
¼ ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 55 ft.
Static level 49 ft. below land surface. Date 9-2-70
Artesian pressure ..... lbs. per square inch. Date .....

(12) WELL LOG:
Diameter of well below casing 6"
Depth drilled 137 ft. Depth of completed well 137 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Topsoil-Br.-Sandy	0	3	
Clay-Br.-Sandy	3	15	
Clay-Br.-Gravel	15	18	
Clay-Br.-Sandy	18	55	
Sand-Fine-Water Trace	55	56	
Clay-Br.-Sandy	56	78	
Clay-Bl.-Sandy-Water trace	78	103	
Clay-Blue	103	106	
Clay-Blue- Sandy	106	120	
Sand-Fine-Yellow-Water	120	137	49

Work started 8-29 1970 Completed 9-2 1970
Date well drilling machine moved off of well 9-2 1970

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Vincent L. Geiser (Drilling Machine Operator) Date 9-8, 19 70
Drilling Machine Operator's License No. 277

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name S & M Drilling & Supply (Person, firm or corporation) (Type or print)
Address Rt. 1 Box 31 Canby, Ore.
[Signed] Vincent L. Geiser (Water Well Contractor)
Contractor's License No. 520 Date 9-8, 19 70

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the
STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

CLAC 012731

RECEIVED
MAY 21 1975
STATE ENGINEER
SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

State Well No. 4S/1E-32dd
State Permit No.

(1) OWNER:
Name Rufus Kraxberger, Jr.
Address 11280 S. Macksburg road
Canby, Oregon 97013

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:
Threaded ☐ Welded ☒
6 " Diam. from 0 ft. to 117 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
Air Rotary 20 " Total " 1 "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite
Well sealed from land surface to 35 ft.
Diameter of well bore to bottom of seal 9 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 0 sacks
Number of sacks of bentonite used in well seal 3 sacks
Brand name of bentonite Wilbur Ellis
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plug Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number
SE ¼ SE ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner
Bearcreek Estates #4

(11) WATER LEVEL: Completed well.
Depth at which water was first found 16 ft.
Static level 48 ft. below land surface. Date 120
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6
Depth drilled 120 ft. Depth of completed well 120 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Top Soil	0	3	
Clay-brown	3	14	
Clay-brown-sandy	14	25	
Gravel-med-cemented	25	30	
Clay-brown	30	42	
Gravel-cemented-med	42	54	
Gravel-med-trace water	54	58	
Clay-blue-sticky	58	67	
Clay-brown-sticky	67	72	
Clay-blue-sticky	72	91	
Gravel-cemented-med	91	105	
Clay-blue-sticky	105	110	
Clay-blue-sandy	110	115	
Sand-black-gravel-med-water	115	120	48

Work started 5-17 19 75 Completed 5-17 19 75
Date well drilling machine moved off of well 5-17 19 75

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] X David Connelly (Drilling Machine Operator) Date 5-19 19 75
Drilling Machine Operator's License No. 883

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name S & M Drilling & Supply, Inc. (Person, firm or corporation) (Type or print)
Address 399 SE Walnut Street Canby, Oregon
[Signed] Walter Mace (Water Well Contractor)
Contractor's License No. 497 Date 5-19, 19 75

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the
STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

GLAC 012732 Kraxberger

WATER WELL REPORT

STATE OF OREGON (Please type or print) (Do not write above this line)

RECEIVED MAY 21 1975 STATE ENGINEER SALEM, OREGON

State Well No. 4S/1E-32 dd

State Permit No.

(1) OWNER:

Name Rufus Draxberger Jr.

Address 11280 S. Macksburg Road
Canby, Oregon 97013

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒

6 " Diam. from 0 ft. to 118 ft. Gage .250

" Diam. from ft. to ft. Gage

" Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Perforated? ☐ Yes ☒ No

Type of perforator used

Size of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Diam. Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

Air Test 30 " Total " 1 "

" " " "

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Bentonite

Well sealed from land surface to 35 ft.

Diameter of well bore to bottom of seal 9 in.

Diameter of well bore below seal 6 in.

Number of sacks of cement used in well seal 0 sacks

Number of sacks of bentonite used in well seal 3 sacks

Brand name of bentonite Wilbur Ellis

Number of pounds of bentonite per 100 gallons of water lbs./100 gals.

Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☒ No Size of gravel:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Clackamas Driller's well number

SE ¼ SE¼ Section 32 T. 4S R. 1E W.M.

Bearing and distance from section or subdivision corner

Bearcreek Estates #5

(11) WATER LEVEL: Completed well.

Depth at which water was first found 18 ft.

Static level 48 ft. below land surface. Date 5-19-75

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 6

Depth drilled 121 ft. Depth of completed well 120 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Top Soil	0	3	
Clay-brown	3	16	
Clay-brown-sand	16	25	
Gravel-cemented	25	30	
Clay-brown	30	45	
Gravel-cemented-med	45	54	
Gravel-med-trace water	54	58	
Clay-blue	58	70	
Clay-brown	70	73	
Clay-blue-sticky	73	93	
Gravel-med-cemented	93	105	
Clay-blue-sticky	105	110	
Clay-blue-sandy	110	115	
Sand-black-gravel-med-water	115	120	48

Work started 5-19 19 75 Completed 5-19 19 75

Date well drilling machine moved off of well 5-19 19 75

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] David Darnell (Drilling Machine Operator) Date 5-19, 19 75

Drilling Machine Operator's License No. 883

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name S & M Drilling & Supply, Inc. (Person, firm or corporation) (Type or print)

Address 399 SE Walnut Street Canby, Oregon

[Signed] Walter Mack (Water Well Contractor)

Contractor's License No. 497 Date 5-19, 19 75

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

CLAC 012707

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

RECEIVED
AUG 21 1974
STATE ENGINEER
SALEM, OREGON

State Well No. 4S/1E-32
State Permit No.

(1) OWNER:
Name Dave Eby
Address 29750 S Barlow Rd.
Canby, Oregon

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☒ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:
Threaded ☐ Welded ☒
6 " Diam. from 0 ft. to 117 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☒ Yes ☐ No If yes, by whom Driller
Yield: 60 gal./min. with 65 ft. drawdown after 2½ hrs.
" " "
" " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Cement
Well sealed from land surface to 19 ft.
Diameter of well bore to bottom of seal 9 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 4½ sacks
Number of sacks of bentonite used in well seal sacks
Brand name of bentonite
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number
¼ ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner
Lot # 1 of Block 2 Twincreek Acres # 2

(11) WATER LEVEL: Completed well.
Depth at which water was first found 26 ft.
Static level 45 ft. below land surface. Date 7-12-74
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing
Depth drilled 117 ft. Depth of completed well 117 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Top soil	0	2	
Clay brown	2	20	
Clay sand brown fine	20	26	
Sand brown fine	26	28	
Clay blue	28	49	
Clay sand blue black fine	49	52	
Gravel compact	52	68	
Clay brown	68	75	
Clay blue	75	80	
Clay sand blue black fine	80	100	
Sand clay black fine	100	105	
Sand black fine	105	108	
Sand gravel black fine	108	114	
Gravel sand mourse	114	117	

Work started 7-11 19 74 Completed 7-12 19 74
Date well drilling machine moved off of well 7-12 19 74

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] (Drilling Machine Operator) Date 7-12, 19 74
Drilling Machine Operator's License No. 738

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name William D. Christenson Jr. (Person, firm or corporation) (Type or print)
Address P.O. Box 343 Hubbard, Oregon
[Signed] (Water Well Contractor)
Contractor's License No. 511 Date 7-12, 19 74

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45856-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the
STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

CLAC

RECEIVED
JUL 25 1975
WATER RESOURCES DEPT
SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON

012705
(Please type or write)
(Do not write above this line)

State Well No. 4S/1E-32 dd
State Permit No.

(1) OWNER:
Name Rufus Kraxberger, Jr.
Address 11280 S. Macksberg Rd., Canby, Ore.

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:
Threaded ☐ Welded ☒
..... " Diam. from ..... ft. to ..... ft. Gage .....
6 " Diam. from 0 ft. to 100 ft. Gage .250
..... " Diam. from ..... ft. to ..... ft. Gage .....

(6) PERFORATIONS:
Perforated? ☐ Yes ☒ No.
Type of perforator used
Size of perforations in. by in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
Air rotary 15 " Total " 1 "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite
Well sealed from land surface to 18 ft.
Diameter of well bore to bottom of seal 9 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal sacks
Number of sacks of bentonite used in well seal 3 sacks
Brand name of bentonite Wilbur Ellis
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☐ Yes ☒ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number
S.E. ¼ S.E. ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner
Bearcreek Estates # 7

(11) WATER LEVEL: Completed well.
Depth at which water was first found 30 ft.
Static level 66 ft. below land surface. Date 7-21-75
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6"
Depth drilled 112 ft. Depth of completed well 108 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Topsoil	0	3	
Clay-brown	3	41	
Gravel-cemented	41	52	
Clay-blue	52	76	
Gravel-cemented	76	86	
Clay-blue	86	101	
Sandstone-soft-water	101	106	
Gravel-med.-water	106	108	
Clay-brown	108	112	

Work started 7-18 1975 Completed 7-21 1975
Date well drilling machine moved off of well 7-21 1975

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] David Dorrance (Drilling Machine Operator) Date 7-24, 1975.
Drilling Machine Operator's License No. 883

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name S & M Drilling & Supply, Inc. (Person, firm or corporation) (Type or print)
Address 399 S.E. Walnut, Canby, Ore. 97013
[Signed] Walter Mack (Water Well Contractor)
Contractor's License No. 497 Date 7-24, 1975

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

#1

LSD ——— 170

W.S. ≈ 45' thick

V 141 ~ 5/25/96

Top W.A. ——— 130

W.A. < 20' thick

V ——— 110' 9/10/96

Top W.C.U. ——— 120

#2

LSD ——— 155

W.S (~55') thick

Top. W.A. ——— 125 ~~V 125/25/88~~

W.A. < 20' thick

V ——— 108' 9/10/96

Top W.C.U. ——— 120

CLF Well 1 STARTED CARD 530

012700

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

JUN 27 1988

WATER RESOURCES DEPT.
SALEM, OREGON

4S/1E-32

(1) OWNER:
Name JOEL NEUSCHWANDER
Address 6059 S WHISKEY HILL RD
City HUBBARD State OR Zip

(2) TYPE OF WORK:
☑ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☐ Rotary Air ☐ Rotary Mud ☑ Cable
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☑ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☑ Depth of Completed Well 154 ft.
Explosives used Yes ☐ No ☐ Type ____ Amount ____

Hole Diameter	From	To	Seal Material	From	To	Amount sacks or pounds
12	1	20	GRANULAR BENTONITE	1	20	11
8	20	154				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☑ Other GRANULAR BENTONITE METHOD
Backfill placed from ____ ft. to ____ ft. Material ____
Gravel placed from 75 ft. to 90 ft. Size of gravel PEA

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	154	.250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Location of shoe(s) 154

(7) PERFORATIONS/SCREENS:
☑ Perforations Method DRIVE DOWN
☐ Screens Type ____ Material ____

Perforations From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
88	150	3/16 X 1 1/4	400			☑	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
500	46	Pump	1 hr.
300	21	AIR LIFT	3

Temperature of water ____ Depth Artesian Flow Found ____
Was a water analysis done? ☐ Yes By whom ____
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____
Depth of strata: ____

(9) LOCATION OF WELL by legal description:
County CLACKAMAS Longitude ____
Township 4S N or S, Range 1E E or W, WM.
Section 32 ¼ ¼ SE ¼
Tax Lot ____ Lot ____ Block ____ Subdivision ____
Street Address of Well (or nearest address) S. WEEDY RD, CANBY

(10) STATIC WATER LEVEL:
29 ft. below land surface. Date 5/25/88
Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:
Depth at which water was first found 31

From	To	Estimated Flow Rate	SWL
82	102	800 GPM	30
115	132	500 GPM	30

(12) WELL LOG:
Ground elevation ____

Material	From	To	SWL
SOIL	1	3	
CLAY BROWN	3	31	
SAND BROWN	31	31	
CLAY GREY	31	42	
CEMENTED GRAVEL	42	63	
CLAY DK GREY	63	70	
SILT BLACK	70	82	
SAND BLACK FINE	82	92	
CEMENTED GRAVEL	92	105	
CLAY BLUE STICKY	105	115	
CLAY GREY W/ GREY SAND LAYERS	115	132	
CLAY GREEN	132	144	
SILT DARK BROWN	144	147	
CLAY BLUE GREEN	147	154	
INITIALLY PERFORATED 115 TO 150 1 AND PRODUCED 150 GPM, total. Then GRAVEL PACKED 75-102 & 115-132, perforated 88' to 115'. Then produced 300 GPM WITH 21' DRAWDOWN.			

Prop. seal depth 68

Date started 5/13/88 Completed 5/25/88

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number ____
Signed ____ Date ____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 243
Signed Richard Beck Date 5/25/88

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9802C 10/86

RECEIVED

JAN - 9 1997

WATER RESOURCES DEPT.
SALEM, OREGON

Well 2
TAG # L02078
62424 (START CARD) #

CLAC 51287

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)
Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number
Name Neuschwander's Nursery
Address 6097 S. Whiskey Hill Rd
City Hubbard State Or Zip 97032

(2) TYPE OF WORK
[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:
[ ] Rotary Air [ ] Rotary Mud [X] Cable [ ] Auger
[ ] Other

(4) PROPOSED USE:
[ ] Domestic [ ] Community [ ] Industrial [X] Irrigation
[ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval [ ] Yes [ ] No Depth of Completed Well 140 ft.
Explosives used [ ] Yes [ ] No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12	1	50	Bentonite	1	50	35 sacks
8	30	140				

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E
[X] Other Granular Bentonite method
Backfill placed from ft. to ft. Material
Gravel placed from 60 ft. to 120 ft. Size of gravel pea

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	140	.25	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s) 140

(7) PERFORATIONS/SCREENS: Drive Down
[X] Perforations Method
[ ] Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
78	119	.188	600			[X]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

(8) WELL TESTS: Minimum testing time is 1 hour
[ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
		air line @	1 hr.
220		105	4 hr

Temperature of water 53 Depth Artesian Flow Found
Was a water analysis done? [ ] Yes By whom
Did any strata contain water not suitable for intended use? [ ] Too little
[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County CLACKAMAS Latitude Longitude
Township 4s N or S Range 1e E or W. WM.
Section 32 Se 1/4 Ne 1/4
Tax Lot 900 Lot Block Subdivision
Street Address of Well (or nearest address)
29435 S Needy Rd

(10) STATIC WATER LEVEL:
47 ft. below land surface. Date Sep 10, 1996
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 40

From	To	Estimated Flow Rate	SWL
40	140		47

(12) WELL LOG:
Ground Elevation

Material	From	To	SWL
Soil	1	3	
Clay, Brown	3	38	prob. seal depth 59
Cemented gravel, brown	38	54	
Clay, grey	54	58	
Clay, grey, sandy	58	60	
Sand, black, fine	60	69	
Sand and gravel, black	69	71	
Cemented gravel, sand	71	74	
Sand & gravel	74	95	
Clay, blue	95	98	
clay, grey, silty	98	101	
Silt, dark grey	101	108	
Clay w/black coarse sand	108	116	
Clay, grey w/some cemented gravel	116	136	
Clay, blue	136	140	
Note: 6 inch gravel feed each side of 8 inch well			

Date started August 8, 1996 Completed Dec 10, 1996

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
WWC Number
Signed Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
WWC Number 743
Signed Richard Kuhn Date 1/4/97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

STATE OF OREGON
Water Resources Department
158 12th St. N.E.
Salem, OR 97310

MEMORANDUM

DATE: 2/24/2003

TO: File G-15567, Joel Neuschwander DM
FROM: Donn Miller, Hydrogeologist

SUBJECT: Well Construction Considerations and Potential for Substantial Interference

I have reviewed the file, ground water reports, the reconstruction request report of October 18, 2002, and additional well reports to research my recent assignment. I was asked to determine if wells #1 and #2 develop 2 or more aquifers (water sources) by virtue of well construction. Further, if they develop two or more aquifers, will reconstruction change conclusion, based on current well construction, that there is the potential for substantial interference? Please consult my prior analysis in a memo dated 10/30/02.

I conclude that the information in the request does not lay out a clearly defensible case that the wells are currently mis-constructed and develop multiple aquifers. There is a paucity of head data to support the request and the subject well reports are poorly supportive. The request advocates sealing the wells so as to exclude the presumed, upper, (cemented-gravel) aquifer from the wells and develop all materials below (as a single aquifer). I see no clear reason to identify this as a break between aquifers. The request really doesn't develop this point. The ability of the various clay layers to provide meaningful aquifer separation is not obvious. There is reason to think that those layers provide some level of separation within the same aquifer so as to result in **seasonal** pumping responses that display head differences with depth.

After research and consultation, I cannot conclude that there is more than one aquifer in these wells. There seems to be a fair level of vertical permeability such that I cannot determine the presence of a laterally extensive confining layer in the wells. (It is debatable whether the Willamette Silt is a separate aquifer that is developed in Well #1. That is a separate issue from that presented in the request.) This vertical integration provides no clear basis for multiple aquifer (source) identification.

Changing the construction of wells #1 and #2, as requested, will not avoid the potential for substantial interference with surface water. There would continue to be a hydraulic connection with streams. In part, I cite the flow system simulation analysis of USGS Professional Paper 1424-B as support. The conceptualization of the ground water flow system speaks to ground water discharge to local creeks. See pages B 47-55. (Technical Note: The cemented gravel is a source of water and is comparable to layer 2 of the model. The aquifer material below the cemented gravel at the site is, arguably, layer 3 that has conductivities that are locally similar to layer 2.) This conclusion is supported by the head relationships involved, the conductive nature of the various earth materials, the location of the wells to creeks, and the hydraulics of well pumping to influence ground water flow.

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-15567

Appeal Rights
This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review of this order must be filed within the 60 day time period specified by ORS 183.484(2).

This statement of judicial review rights does not create a right to judicial review of this order, if judicial review is otherwise precluded by law. Where no changes have been made to a Proposed Final Order on a water right application and no protests have been filed during the protest period, the final order is not subject to judicial review.

Final Order

Application History

On JULY 25, 2001, JOEL NEUSCHWANDER submitted an application to the Department for a water use permit. The Department issued a Proposed Final Order on April 9, 2002, proposing to deny the application because the proposed groundwater use will have the potential for substantial interference with the nearest surface water source, namely Bear Creek. Further, water is not available for further appropriation at any time of the year. The protest period closed May 24, 2002, and no protest was filed.

The applicant requested a time-out from application processing to submit information on the construction of the well. The Enforcement Section and the Groundwater Hydrology Section reviewed the information and has determined that the proposed well reconstruction will be insufficient to overcome the finding of potential for substantial interference between the proposed ground water use and Bear Creek.

The proposed use does not comply with rules adopted by the Water Resources Commission or would otherwise impair or be detrimental to the public interest.

Order

The application therefore is denied.

DATED March 6 , 2003

Paul R. Cleary, Director

This document was prepared by Jerry Gainey. If you have any questions about any of the statements contained in this document I am the most likely the best person to answer your questions. You can reach me at 1-503-378-8455 extension 458.

If you have questions about how to file a protest or if you have previously filed a protest and want to know the status, please contact Renee Moulun. Her extension number is 239.

If you have other questions about the Department or any of its programs please contact our Water Rights Information Group at extension 201. Address all other correspondence to: Water Rights Section, Oregon Water Resources Department, 158 12th ST. NE Salem, OR 97301-4172, Fax: (503)378-2496

18477 S. Valley Vista Rd.
Mulino, OR 97042
(503) 632-5983 Fax
(503) 632-5016 Phone

Pacific Hydro-Geology Inc.

Fax

To: Donn Miller **From:** Malia Rosner Kupillas

Fax: (503) 378-2496 **Pages** 2

Phone: (503) 378-3739

Date: April 17, 2003

Re: Map with Nueshwander and Guevara (CLACK 2356)

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

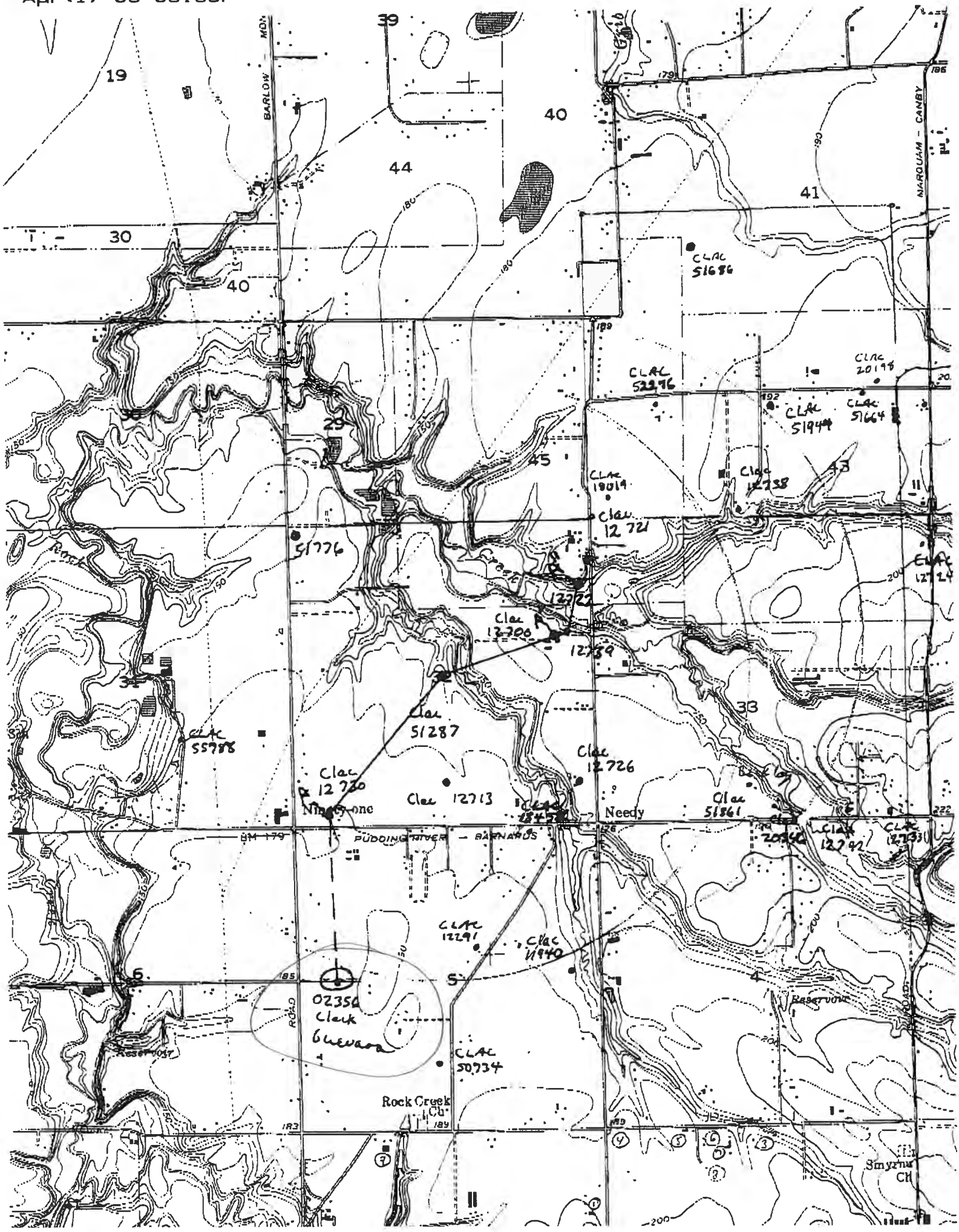
• **Comments:**

Please call me at (503) 632-5016 if you have any questions or need additional information.

SWL 52' on 6/25/79
SWL 46.62' on 3/3/03

Malia says:
No new data for 6-15567 wells

Malia A. Kupillas


T. - 30
19
39
40
44
41
29
45
43
BARLOW
MARQUAM - CANBY
CLAC 51686
CLAC 52396
CLAC 20198
CLAC 51944
CLAC 51664
CLAC 19019
Clac 12738
Clac 12 721
51776
Clac 12700
12759
Clac 51287
CLAC 55788
Clac 12 720
Clac 12713
Clac 12726
Needy
Clac 51861
PUDDING RIVER - BARNARDS
CLAC 12291
Clac 11940
02350
Clack
Clac 50734
Rock Creek
Ch
Reservoir
Smyrna
CH

Please put in File G-15567 Thx Cindy

-15567)
ARD@wrd.state.or.us>, Donn Miller, Dwight W French
state.or.us>

ted July 31, 2003 regarding options to resolve "hydraulic
ed with Mr. Neuschwander's ground water application.

I have asked the ground water section staff to quantify the potential impact to surface water from the proposed ground water use. Once this information is available we can evaluate whether the proposed mitigation is sufficient.

I should have this information available within two weeks.

Please give me a call at (503) 378-8455 ext. 297 if you have any questions.

Adam Sussman
Senior Policy Coordinator

OAA Oregon Agriculture Alliance

PO Box 4323, Portland, OR 97208 503-524-5174, Fax-503-524-5567 ashcoms@msn.com

31 July 2003

RECEIVED
AUG 0 5 2003
WATER RESOURCES DEPT.
SALEM, OREGON

Mr. Adam Sussman
Senior Policy Coordinator
Oregon Water Resources Department
Commerce Building
158 12th St. NE
Salem, Oregon 97301-4172

RE: File # G-15567
Applicant: Joel Neuschwander
Agent for the Applicant is Scott Ashcom

Dear Adam:

Thank you for meeting with me last Thursday, 31 July, to discuss how to proceed to finalize approval of application G-15567. You suggested that I send you a letter describing the tentative agreement resulting from a meeting held at the department in late June.

Present at the meeting were Director Paul Cleary, Deputy Director Phil Ward, Barry Norris, Fred Lissner, Donn Miller, Malia Kupillas (hydro-geologist employed by the applicant), and Scott Ashcom (agent for the applicant). The meeting was called to allow the hydro-geologist for the applicant to rebut the presumption of hydrologic interconnection made by Donn Miller. The meeting lasted 1 ½ hours.

All pertinent issues were discussed thoroughly. Mr. Miller maintained that the subject wells were connected but conceded that the connection was not measurable (nor was it measured). He stated that a model was used, not measurements. He stated that the connection occurred because no well seal can prevent leakage from one aquifer to another. Malia Kupillas insisted that the extensive groundwater research that she submitted regarding Mr. Miller's presumption proved that there was no connection.[1]

Mr. Ashcom mentioned that the applicant was willing to mitigate by transferring some or all of his surface water rights to instream use. The Director stated that he thought that was a good way to resolve the issue. The Director stated that a gallon for gallon mitigation was not expected.

Note that application G-15567 covered all Place of Use (POU) acreage in Certificate 20401 (perfected under permit 16827) at a duty of 2.5 AF/ac; it added an additional 2.5 AF/ac to give all POU acreage under Certificate 20401 at total duty of 5 AF/ac (for year-round nursery use); and G-15567 added 85.09 acres POU to be irrigated at Nursery Use duty of 5 AF/ac. The POD for G-15567 is 2 wells as indicated on the application map.

[1] Malia R. Kupillas, R.G., C.W.R.E., and Gregory E. Kupillas, R.G., C.W.R.E., Water Right Application G-15567, Joel Neuschwander (Pacific Hydro-Geology Inc., Mulino). Submitted to Donn Miller, 1 June 2003.

The applicant proposes that the application be approved as submitted, but if that is not possible, that the applicant offers to accept a condition of approval that the groundwater withdrawal be mitigated by entering into an agreement with WRD to transfer his surface water right (Certificate 20401) on a renewable short term lease to WRD for instream use.

This arrangement seemed acceptable to all present, although Mr. Norris suggested that the applicant should continue to work to gain approval of the original application.

This, to the best of my recollection, is the tentative agreement arrived at by those present at the meeting called by the Director regarding application G-15567. If you need anything more from me, please contact me at the letterhead addresses.

Very truly yours,

Scott Ashcom

Scott Ashcom, M.A.
Executive Director

RECEIVED
AUG 0 5 2003
WATER RESOURCES DEPT
SALEM, OREGON

Joel N- Application -

26.2
25.6
51.8

80%-

1.07 CFS

1.07

1.11
.49
1.60 ✓

Ltr w/ proposal file transfer s to in-stream upon approval of transfer - this app to be approved

FO

Proposal from, them - (

Adam - ✓ in w/ Paul/Phil-
Call Greg - Write proposal for mitigation-

STATE OF OREGON
Water Resources Department
158 12th St. N.E.
Salem, OR 97310

MEMORANDUM

DATE: 2/24/2003

TO: File G-15567, Joel Neuschwander DM
FROM: Donn Miller, Hydrogeologist

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After research and consultation, I cannot conclude that there is more than one aquifer in these wells. There seems to be a fair level of vertical permeability such that I cannot determine the presence of a laterally extensive confining layer in the wells. (It is debatable whether the Willamette Silt is a separate aquifer that is developed in Well #1. That is a separate issue from that presented in the request.) This vertical integration provides no clear basis for multiple aquifer (source) identification.

Changing the construction of wells #1 and #2, as requested, will not avoid the potential for substantial interference with surface water. There would continue to be a hydraulic connection with streams. In part, I cite the flow system simulation analysis of USGS Professional Paper 1424-B as support. The conceptualization of the ground water flow system speaks to ground water discharge to local creeks. See pages B 47-55. (Technical Note: The cemented gravel is a source of water and is comparable to layer 2 of the model. The aquifer material below the cemented gravel at the site is, arguably, layer 3 that has conductivities that are locally similar to layer 2.) This conclusion is supported by the head relationships involved, the conductive nature of the various earth materials, the location of the wells to creeks, and the hydraulics of well pumping to influence ground water flow.

Head relations shown on figure 19 indicate that (1) the local water table is between an altitude of 114 and 121 ft, (2) the heads in the shallow basalt wells (No. 4 and No. 6) correspond with the water table, (3) the heads in the deep basalt wells (No. 1 and No. 7) are higher than the water table, indicating vertically upward flow near the Tualatin River, and (4) the head in basalt well No. 9 is lower than the head in well No. 10, which is completed in the overlying Willamette confining unit. Thus, over a relatively short distance, predominantly horizontal flow (no vertical head difference), vertically upward flow, and vertically downward flow are shown by the water levels for these 10 wells.

CROSS-SECTIONAL FLOW MODELS

Cross-sectional numerical flow models were constructed for two selected sections of the Willamette Lowland aquifer system in order to test a conceptual model of the ground-water flow system, to test estimates of hydraulic properties, and to provide information on the ground-water flow budget. Although the models were not rigorously calibrated, the simulated heads and discharges to streams compared favorably with observed heads and discharges, indicating that the conceptualization of the flow system and estimates of hydraulic properties were reasonable.

The two models, represented as sections M1-M1′ and M2-M2′ on figure 20, are approximately parallel to flow paths, as determined from the generalized water-table map (pl. 1). Section M1-M1′ extends from the vicinity of Silverton, west to the crest of the Eola Hills (which is north of Salem), and is considered to represent conditions in much of the central Willamette Valley, where basin-fill deposits are underlain by the Columbia River basalt aquifer. Section M2-M2′ extends from Peterson Butte (which is south of Lebanon), roughly west to the Willamette River between Corvallis and Albany; west of the Willamette River section would be essentially the reverse of M2-M2′. Section M2-M2′ is considered to be representative of the southern Willamette Valley, where basin-fill deposits directly overlie the basement confining unit.

Ground-water flow was simulated under steady-state conditions using the finite-difference ground-water flow model (MODFLOW) of McDonald and Harbaugh (1988). Flow paths were calculated and plotted using the programs MODPATH and MODPATHPLOT by Pollock (1989). Flow budgets for individual aquifer units were determined using the program ZONEBUDGET of Harbaugh (1990).

MODEL GRIDS AND BOUNDARY CONDITIONS

The model grids for both sections are presented on figure 20, traces of the modeled sections are shown on plate 1, and information about the grids are summarized in table 6. Horizontal subdivision of the sections was based on the resolution of water-table altitude data, spacing of streams, and the scale of major topographic features. A constant cell length (column) of 1,500 ft and width (row) of 1 ft was selected for both sections. Vertical subdivision was based on the regional hydrogeologic units discussed earlier in this report. Each unit was represented by one model layer, except in section M1-M1′, where the thick Willamette confining unit was represented by four layers. The layer thickness was variable; the thickness of each model cell was based on the average thickness of the corresponding hydrogeologic unit at that location. For the four layers representing the Willamette confining unit in section M1-M1′, the layers were defined so that the thickness was equal.

The upper boundary of both sections was the water table and was modeled as a free surface. The uppermost active layer generally corresponded to the Willamette Silt unit (layer 1) or the Willamette aquifer (layer 2). The Columbia River basalt aquifer (layer 7) is the uppermost active layer at both ends of section M1-M1′. The uppermost active cells received a recharge flux that was determined by using a regression relation based on precipitation and elevation that had been determined by Snyder and others (1994) for the Portland Basin. Where the Columbia River basalt aquifer was the uppermost unit, a recharge rate of 14 in/yr was used; although this rate is lower than predicted by the regression relation, it is considered reasonable because of the small vertical hydraulic conductivity and generally steep topography of the basalt. Recharge ranged from 14.0 to 21.2 in/yr in section M1-M1′ and from 18.4 to 19.9 in/yr in the section M2-M2′.

The bottom of both sections was the top of the basement confining unit and was modeled as a no-flow boundary. There is undoubtedly some flow from the basement confining unit into the overlying units; however, because of its small hydraulic conductivity, the volume of this flow is likely to be small relative to the total flow in the system. Additionally, data are not available to quantify inflow from the basement confining unit and this formulation follows the conceptual model used to delineate the aquifer system described previously in the report.

Lateral boundaries (the ends of the sections) were also modeled as no-flow boundaries. Section M1-M1′ extends in both directions to the contact between the Columbia River basalt aquifer and the basement confining unit. Basin-fill deposits abut the basement confining units on the east end of section M2-M2′.

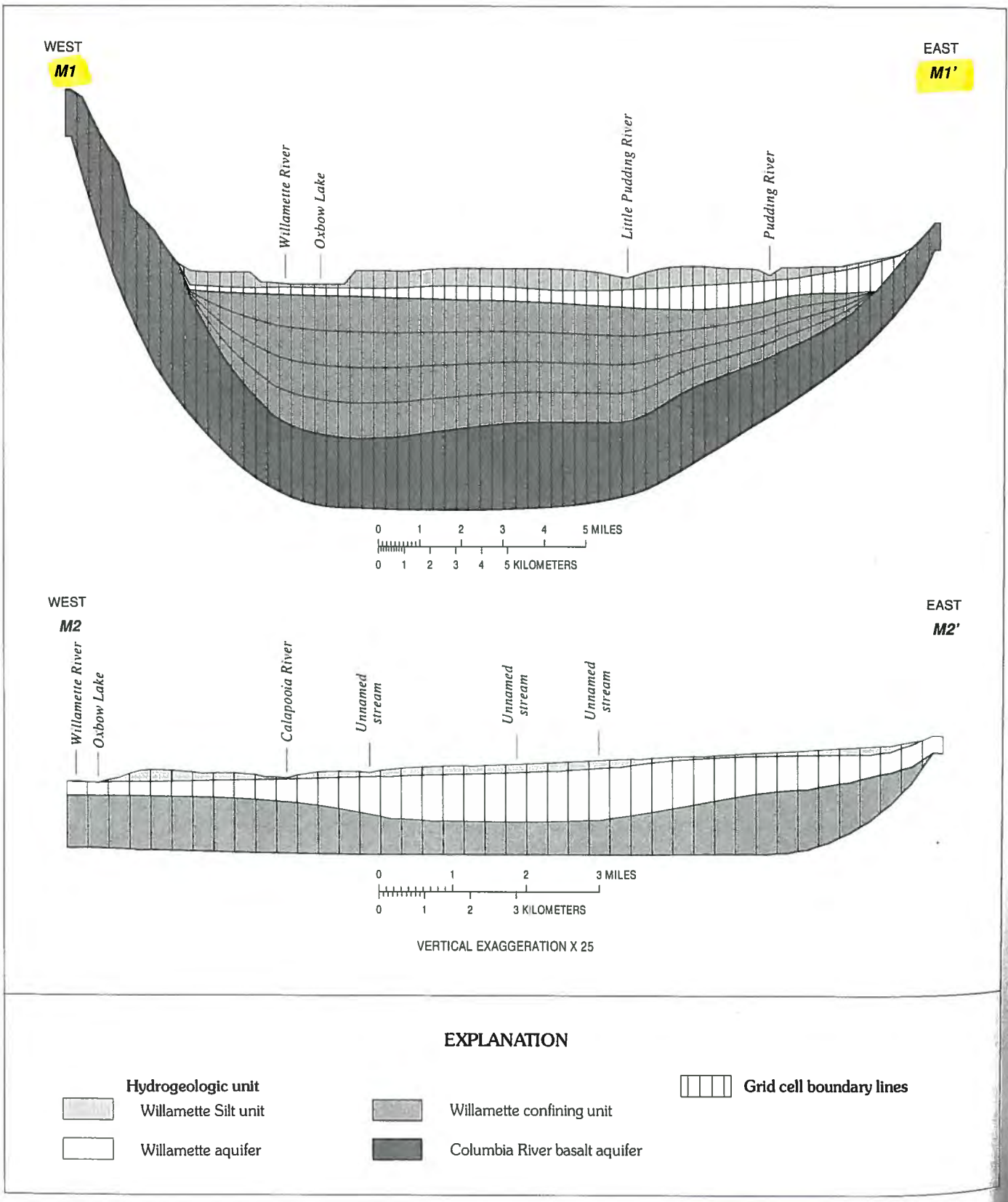


FIGURE 20.—Grids and layers for cross-sectional ground-water flow models.

TABLE 6.—*Information on model grid systems*

Model Characteristic	Section[1] M1-M1′	Section[1] M2-M2′
Length (miles)	21	12
Number of layers	7	3
Column width (feet)	1,500	1,500
Number of columns	74	42
Minimum active cell thickness (feet)	5	6
Maximum active cell thickness (feet)	440	180
Number of drain cells	17	9

[1] Model grid system shown on figure 20.

These basement confining unit contacts were modeled as no-flow boundaries. The western end of section M2-M2′ is bounded by the Willamette River. Because there is often vertical, or nearly vertical flow directly beneath major streams, this boundary was assumed to be a flow line and, therefore, a no-flow boundary. Because the model sections generally parallel ground-water flow paths, the sides of the models approximate flow lines and were represented as no-flow boundaries.

The evapotranspiration package of the flow model was used to simulate ground-water discharge by evapotranspiration because ground-water levels are near land surface over large parts of both sections. The parameters required by the package are the maximum evapotranspiration rate and extinction depth. These parameters were assumed to be uniform across both sections and were estimated assuming that the dominant land cover is grass (grown for seed), grain, pasture, or some combination of the three. The maximum evapotranspiration rate (18 in/yr) was estimated as the portion of crop-water requirements (30 in/yr) not satisfied by available precipitation. Available precipitation (12 in/yr) is the total precipitation (45 in/yr) minus the quantity lost to runoff (15 in/yr) and deep percolation (18 in/yr). Runoff estimates were from Oster (1968), and crop-water requirements were obtained from Cuenca and others (1992). The extinction depth was assumed to be approximately equal to the maximum rooting depth for the dominant crop types; the value used in the models was 5 ft.

Several streams traverse each model section and were modeled using the drain package of the model, as opposed to the river package. Both packages represent head-dependent flux boundaries; however, with the river package, water can move into or out of the aquifer depending on the head relation. With the drain package, water is allowed only to move out of the aquifer to the drain. In both cross-sectional models, most of the streams gain water from the aquifer. The only streams that did not receive water from the aquifer were small intermittent drainages. Because it is unlikely that these small intermittent streams would be flowing without ground-water inflow, they were modeled as drains to prevent them from providing water to the aquifer. Although the drain package was used to simulate the streams, the term "stream" will be used to describe them in the remainder of this discussion. Streams were placed in the Willamette Silt unit (layer 1) or, if the silt was absent due to erosion, in the Willamette aquifer (layer 2). Information on streams in both models is given in table 7. Stream elevations and channel widths were estimated from 1:24,000-scale topographic maps.

HYDRAULIC CHARACTERISTICS

The horizontal hydraulic conductivity of the hydrogeologic units (table 8) was initially estimated on the basis of information from a number of sources. The hydraulic conductivity of the Willamette Silt unit was based on values presented by Price (1967a) and on published values for similar materials (Bureau of Reclamation, 1985; Driscoll, 1986). Hydraulic conductivity estimates for the Willamette aquifer were based on analysis of specific-capacity data from well logs and published values for similar materials. Conductivity values derived from ground-water flow modeling of the Portland Basin (Morgan and McFarland, 1996) were used to estimate the conductivity of the Willamette confining unit, as well as the vertical anisotropy in the entire basin-fill section. The horizontal hydraulic conductivity and vertical anisotropy of the Columbia River basalt aquifer was estimated on the basis of the results of Morgan and McFarland (1996), Hansen and others (1994), and analysis of specific-capacity data from well logs. In calculating the initial streambed hydraulic conductances, it was assumed that streambed properties were the same as the hydraulic properties of the cell containing the stream node.

In general, the estimated hydraulic characteristics for the Willamette Silt unit, 1 ft/d horizontal hydraulic conductivity and 0.01 ft/d vertical hydraulic conductivity, produced satisfactory modeling results (table 8). With the exception of the vertical conductances beneath streams, changing these parameters did not dramatically change model results. In order to reduce calculated heads in the silt unit and the underlying Willamette aquifer adjacent to major streams, it was necessary to increase vertical conductances between the silt and the underlying aquifer in cells with streams by about one order of magnitude.

TABLE 7.—*Stream locations, properties, and discharge rates for cross-sectional flow models*

[ft, feet; ft^2/d, square feet per day; ft^3/d, cubic feet per day]

Name	Layer	Column	Altitude (ft)	Conductance (ft^2/d)	Discharge (ft^3/d)
			Section M1-M1'		
Unnamed	7	1	1,000	0.063	0
Unnamed	7	4	780	.093	0
Unnamed	7	6	450	.097	0
Unnamed	7	7	400	.085	0
Unnamed	1	13	165	.00571	0
Unnamed	1	14	165	.00571	0
Willamette River	2	19	95	120.00	65.3
Oxbow Lake	2	22	90	30.00	95.7
Patterson Creek	1	29	128	1.00	7.3
Unnamed	1	37	180	.0125	0
Little Pudding River	1	48	138	25.00	58.7
Woods Creek	1	50	148	1.50	6.9
Unnamed	1	51	185	.0111	0
Unnamed	1	56	148	.75	7.9
Pudding River	1	60	145	25.00	100.8
Unnamed	1	63	191	.025	0
Unnamed	7	73	287	.0025	3.5
			Section M2-M2'		
Willamette River	2	1	193	35.71	16.0
Oxbow Lake	2	2	193	28.57	31.8
Calapoola River	2	11	209	33.33	67.3
Unnamed	2	15	218	4.00	37.6
Unnamed	1	22	245	6.00	10.1
Unnamed	1	26	257	10.00	19.5
Unnamed	1	34	282	2.50	3.8
Unnamed	1	35	288	0	0
Unnamed	1	39	303	.09	0

TABLE 8.—*Hydraulic characteristics used in models*

Hydrogeologic unit	Initial estimate, (in feet per day)		Final estimate, (in feet per day)	
	Horizontal conductivity	Vertical conductivity	Horizontal conductivity	Vertical conductivity
Willamette Silt	1	0.01	1	0.01
Willamette aquifer	200	2	200–600	2
Willamette confining unit	5	.05	5	.1
Columbia River basalt aquifer	5	.017	2.5	.025

The physical basis for increasing conductances beneath streams is explained in the discussion on streambed conductance adjustments later in this section.

The initial estimates of the hydraulic characteristics of the Willamette aquifer, a horizontal hydraulic conductivity of 200 ft/d and a vertical conductivity of 2 ft/d, gave satisfactory results. Overall, changing these parameters did not have a large effect on the simulated flow system. This may be because of the large contrast between the hydraulic properties of the aquifer and the adjacent units. Increasing the horizontal hydraulic conductivity of the Willamette aquifer to 600 ft/d beneath the Willamette River flood plain improved the fit between simulated and observed heads in the Willamette Silt unit adjacent to the flood plain. This was a reasonable adjustment because specific-capacity data (table 4) indicate that hydraulic conductivities of the aquifer gravels in the flood plain are substantially larger than elsewhere, presumably because of reworking by stream action (see previous discussion in the "Hydraulic Characteristics" section of report).

The initial estimate of horizontal hydraulic conductivity for the Willamette confining unit, 5 ft/d, gave reasonable results and was not changed. Although the initial vertical hydraulic conductivity of 0.05 ft/d was doubled to reduce vertical gradients, water-level data from wells suggest that vertical gradients generally are small in the Willamette Lowland. The vertical hydraulic conductivity of the Willamette confining unit, which separates the Columbia River basalt aquifer from the Willamette aquifer in section M1-M1', was found to have a significant influence on vertical gradients between the Columbia River basalt aquifer and the Willamette aquifer.

The initial estimates of horizontal and vertical hydraulic conductivity of the Columbia River basalt aquifer, 5 ft/d and 0.017 ft/d, respectively, had to be adjusted to match simulated and observed heads. With the original values, excessive upward vertical gradients were simulated beneath the center of the basin—simulated heads in the Columbia River basalt aquifer were more than 100 ft above land surface. As described and shown previously (fig. 19), flowing artesian wells are uncommon in the Columbia River basalt aquifer except near the margins of the basalt uplands. Most of the simulated large, upward gradients were reduced by decreasing the horizontal hydraulic conductivity in the basalt by a factor of 2, increasing the vertical conductivity of the basalt from 0.017 ft/d to 0.025 ft/d, and increasing the vertical conductivity of the overlying Willamette confining unit as mentioned previously.

Satisfactory model results were obtained only after selectively increasing conductances of streambeds in the silt by up to 50 times the initial estimates. Large conductance values are considered reasonable because of the range in streambed materials and because of the reworking and sorting of streambed materials by stream action after their deposition by glacial-outburst floods, thereby increasing their hydraulic conductivity. As mentioned previously, this latter process has certainly occurred in the Willamette aquifer along the Willamette River flood plain and has probably occurred in other units as well.

Estimates of hydraulic characteristics of the hydrogeologic units were adjusted to match the simulated and observed heads and discharge quantities in both models. Because of the limited ability of cross-sectional models to simulate a three-dimensional flow system and the general lack of field measurements, the models were not rigorously calibrated. However, the simulated heads and discharge quantities are reasonable given the available data. The water-table surface shown on plate 1 represents water levels at their lowest annual altitude. Water levels fluctuate 5 to 20 ft/yr in the area of section M1-M1' (Price, 1967a) and 2 to 14 ft/yr in the vicinity of section M2-M2' (Frank, 1974; Helm and Leonard, 1977); these fluctuations were described previously in the "Water-Level Fluctuations" section. Water levels simulated by the steady-state models represent average annual water-level altitudes and should be higher than the altitude shown on plate 1, but within the range of observed seasonal fluctuations. With the exception of a few cells in both models, simulated heads in the top active model layers were above the altitudes on plate 1, within the observed range of seasonal fluctuations, and below ground level. Simulated heads in the non-water table model layers were consistent with what is known about vertical head differences and hydraulic gradients in the area.

Simulated ground-water discharge to streams was compared to estimates from Price (1967a) and from Laenen and Risley (1997), whose information is described more thoroughly in the "Discharge" section later in this report. Discharge quantities were only available for the Willamette River in both model sections and for the Pudding River in section M1-M1'. Laenen and Risley (1997) found that ground-water discharge to the Willamette River was highly seasonal. Seepage measurements during the summer of 1992 indicated little or no ground-water inflow to the Willamette River main stem. Measurements during the spring of 1993, by contrast, indicated that the main stem gained approximately 2,000 ft^3/s between river mile (RM) 55 and 195.

Ground-water discharge to the Willamette River in the vicinity of section M1-M1′ was estimated from seepage measurements made in September 1993 (Laenen and Risley, 1997). The M1-M1′ section crosses the river near RM 72. Ground-water inflow to the river from RM 78.5 to RM 55 was approximately 476 ft^3/s, which equals a discharge of about 331 $ft^3/d/ft$ (cubic feet per day per foot) of river length. Thus, average annual discharge to the river calculated by the 1-ft-wide model should be between 0 and 331 ft^3/d (cubic feet per day). Simulated steady-state discharge to the Willamette River and a hydraulically connected oxbow lake in section M1-M1′ was 161 ft^3/d, which is reasonable.

On the basis of hydrograph analysis, Price (1967a) estimated that ground water discharges to the Pudding River between RM 40.7 and RM 8.2 at a rate of 146,000 acre-ft/yr (acre-feet per year), or an average annual discharge of about 101 $ft^3/d/ft$ of river length. Because the estimate is based on a stream hydrograph, it integrates discharge to the Pudding River as well as its tributaries. In section M1-M1′, which crosses the Pudding River near RM 46, upstream from the section analyzed by Price (1967a), simulated discharge to the Pudding River and its tributaries was about 178 $ft^3/d/ft$. Given the uncertainty in applying Price's (1967a) discharge estimates, this is a reasonable match.

The only discharge estimate available for section M2-M2′ is for the Willamette River and is based on seepage measurements made in June 1993 during high springtime discharge (Laenen and Risley, 1997). Section M2-M2′ crosses the Willamette River near RM 127. Ground-water inflow between RM 119.3 and RM 141.7 was estimated to be 931 ft^3/s or about 680 $ft^3/d/ft$ of river length. Because the river is one of the model boundaries and similar ground-water conditions are assumed to exist on both sides of the river, ground-water inflow calculated by the model should be about one-half the estimate or between 0 and 340 ft^3/d. Simulated steady-state discharge to the Willamette River and a hydraulically connected oxbow lake from section M2-M2′ is about 48 ft^3/s. The 340 ft^3/d represents the probable spring peak in ground-water discharge, the simulated average annual value of 48 ft^3/d is considered reasonable. Discharge quantities to all streams are listed in table 7.

Simulated Flow System

The major factors controlling the ground-water flow system are recharge, evapotranspiration, geometry of hydrogeologic units, distribution and magnitude of horizontal and vertical hydraulic conductivity in the units, and locations and properties of streams and their beds. To help visualize the simulated movement of water, the particle-tracking and plotting programs MODPATH and MODPATH-PLOT were used. These programs calculate and plot the paths of imaginary particles of water as they move through the flow system. These paths represent flow lines through the modeled system. Flow lines through both model sections (fig. 21) were plotted by tracing the paths of imaginary water particles from the point where they recharge the ground-water system at the water table to the point where they discharge from the system through streams or evapotranspiration. For the sections shown on figure 21, one particle was started at the water table in the center of each cell and tracked to its discharge location.

Water recharging the Willamette Silt unit moves vertically downward into the Willamette aquifer, where flow is primarily horizontal toward streams, the primary discharge point (fig. 21, section M1-M1′). A small part of the water moving in the Willamette aquifer may move into the underlying Willamette confining unit, where its movement includes a larger vertical component. Water in the Willamette confining unit moves upward and back into the Willamette aquifer near and beneath streams to which the water ultimately discharges. Water in the Columbia River basalt aquifer moves horizontally and downward from recharge areas in uplands toward the central parts of the basin, then upward from the basalt into the overlying units.

The Willamette Silt unit is recharged mainly through infiltration of precipitation (table 9). Most of the water moves into the underlying Willamette aquifer within several hundred feet of where it enters the saturated zone (fig. 21, section M2-M2′). Simulated downward vertical hydraulic gradients between the Willamette Silt unit and the Willamette aquifer in areas away from streams range from approximately 0.014 to 0.15 ft/ft. Horizontal hydraulic gradients within the Willamette Silt unit range from 4×10^{-5} to 0.015 ft/ft. Where the water table is above the rooting depth of plants, some of the water discharges through evapotranspiration. Some water moves upward into the Willamette Silt unit from the underlying Willamette aquifer beneath and adjacent to streams (fig. 21). Streams in the Willamette Silt unit, such as the Pudding and Calapooia Rivers, are principal locations of ground-water discharge. Upward vertical hydraulic gradients beneath these streams range from about 0.017 to 0.13 ft/ft.

Although water enters the Willamette aquifer from both the overlying and the underlying units, most enters it through the overlying Willamette Silt unit (table 9).

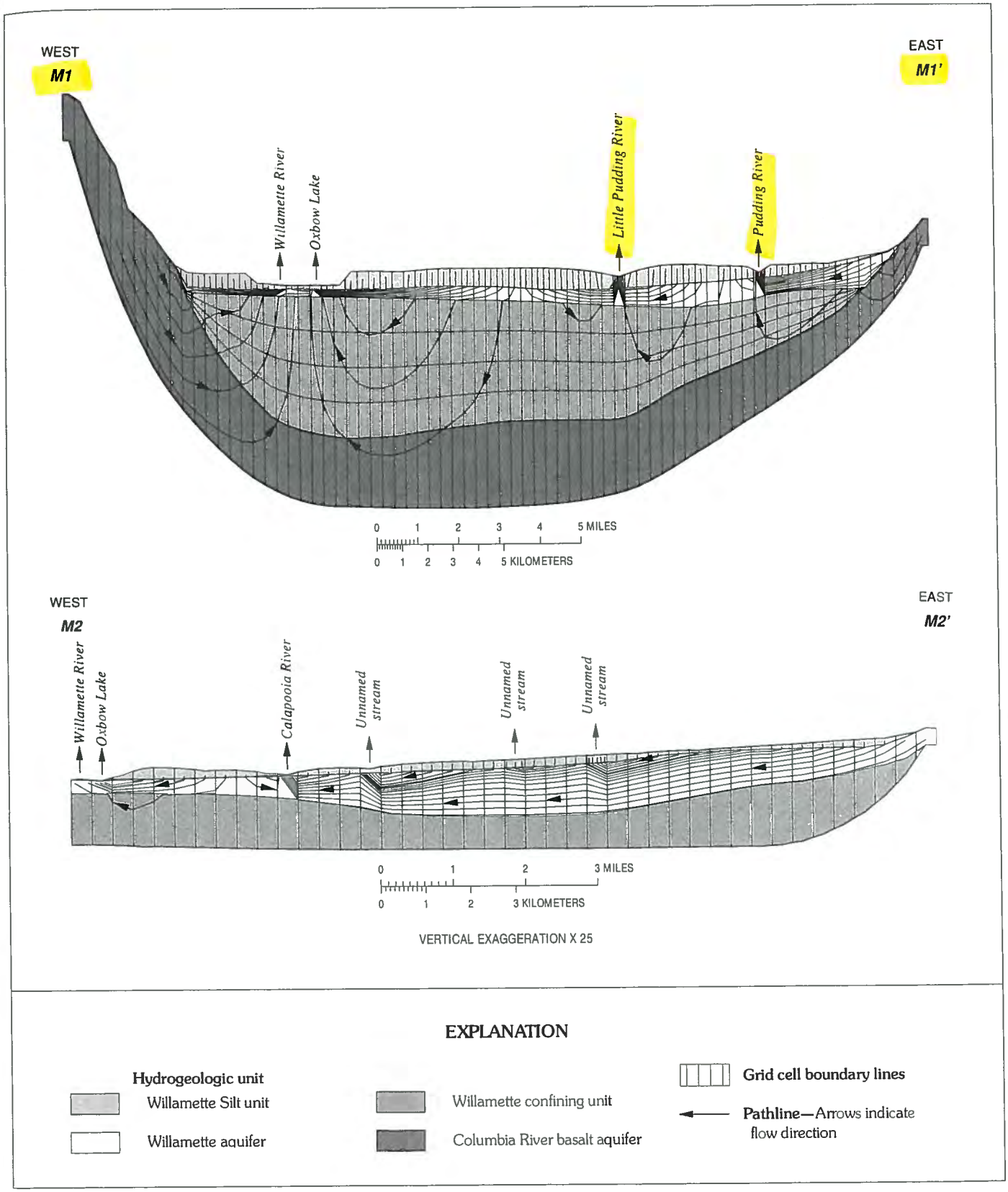


FIGURE 21.—Model grids and layers with pathlines. (The pathlines represent the paths of water particles that start at the water table in the center of the uppermost active cells and travel to their discharge points.)

TABLE 9.—*Flow budgets for cross-sectional models*

[--, not applicable]

Hydrogeologic Unit	Flow from, in cubic feet per day						Flow to, in cubic feet per day						
	Recharge	Willamette Silt	Willamette aquifer	Willamette confining unit	Columbia River basalt aquifer	Total in	Evapotranspiration	Streams	Willamette Silt	Willamette aquifer	Willamete confining unit	Columbia River basalt aquifer	Total out
Section M1-M1′													
Willamette Silt unit	323	--	159	0	0	482	53	182	--	247	0	0	482
Willamette aquifer	32	247	--	69	0	348	1	161	159	--	27	0	348
Willamette confining unit	0	0	27	--	46	73	0	0	0	69	--	4	73
Columbia River basalt aquifer	48	0	0	4	--	52	6	1	0	0	45	--	52
Model net total	403	--	--	--	--	--	60	343	--	--	--	--	403
Section M2-M2′													
Willamette Silt unit	225	--	19	0	--	244	72	33	--	139	0	--	244
Willamette aquifer	46	139	--	6	--	191	13	153	19	--	6	--	191
Willamette confining unit	0	0	6	--	--	6	0	0	0	6	--	--	6
Model net total	271	--	--	--	--	--	85	186	--	--	--	--	271

Water in the Willamette aquifer moves horizontally toward streams and discharges to streams with which it is hydraulically connected. However, some water moves from the Willamette aquifer into the overlying Willamette Silt unit beneath streams to which the silt is hydraulically connected. Although a small volume of water moves into the underlying Willamette confining unit (table 9), most of this water moves back into the Willamette aquifer downgradient. Simulated horizontal hydraulic gradients in the Willamette aquifer range from 5×10^{-5} to 0.006 ft/ft and average about 0.002 ft/ft.

Water moves into the Willamette confining unit from the overlying Willamette aquifer and, when present, from the underlying Columbia River basalt aquifer (table 9). Where the Columbia River basalt unit underlies the confining unit, water from the basalt accounts for most of the flow through the confining unit. Water moving in the confining unit eventually discharges to the Willamette aquifer, usually in the vicinity of major streams.

The Columbia River basalt aquifer is recharged primarily through infiltration of precipitation where the unit is exposed at land surface (table 9; fig. 21, section M1-M1′). The model results indicate that a small volume of water also enters the basalt from the overlying Willamette confining unit. As modeled, no water can enter the basalt from the underlying marine rocks of the basement confining unit because the contact between the units is represented by a no-flow boundary. However, as previously described, locally, some water probably flows from the marine rocks. Some wells drilled deep into the basalt in the Portland and Tualatin Basins encounter saline water that generally is thought to originate in the marine rocks (as will be discussed in the "Water Quality" section). Water discharges from the basalt primarily to the overlying Willamette confining unit.

Calculated Water-budget Components

Water movement in both modeled sections is similar, with a few notable differences. Calculated flow budgets for both models are presented in table 9. In section M1-M1′, stream discharge accounts for 85 percent of the total discharge, and evapotranspiration accounts for 15 percent. In section M2-M2′, stream discharge accounts for 69 percent of the total discharge, and evapotranspiration accounts for 31 percent. The larger estimated evapotranspiration in section M2-M2′ is accounted for by the flatter topography in this section, which results in a generally higher water table.

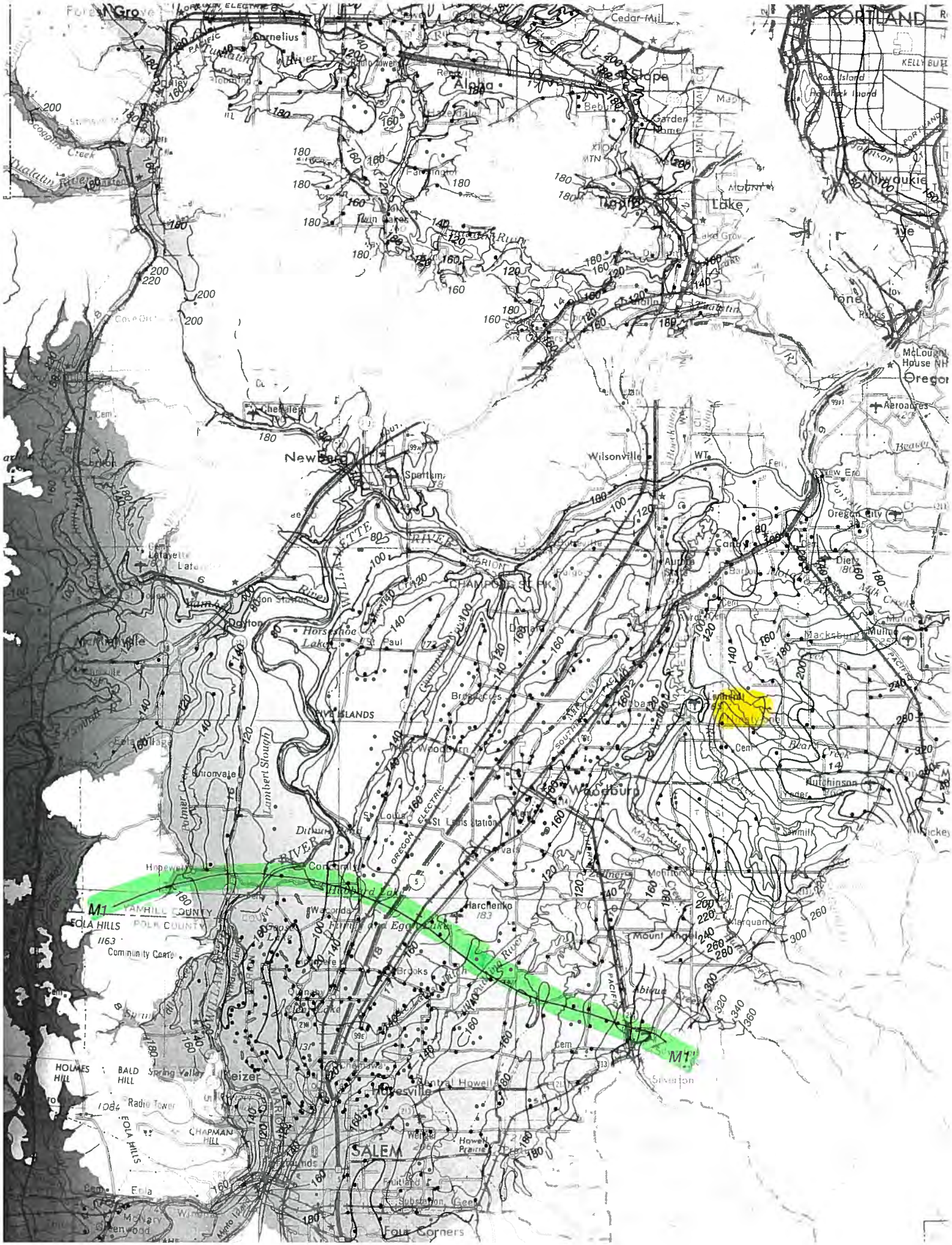
Flow budgets within the Willamette Silt unit are slightly different for the two modeled sections. Simulations indicate that 80 to 83 percent of the recharge from precipitation occurs in the Willamette Silt unit and the remainder occurs either in the Willamette aquifer or in the Columbia River basalt aquifer. These percentages are a function of the exposed surface areas of the units and input recharge rates. Of the water entering the Willamette Silt unit through recharge in section M1-M1′, approximately 76 percent discharges to the Willamette aquifer, 16 percent discharges to evapotranspiration, and 8 percent discharges directly to streams. Of the recharge to the Willamette Silt unit in section M2-M2′, approximately 62 percent discharges to the Willamette aquifer, 32 percent is discharged by evapotranspiration, and 6 percent discharges to streams. These values again reflect higher evapotranspiration in section M2-M2′.

Flow budgets in the Willamette aquifer also are different for each section. Of the water that enters the Willamette aquifer in section M1-M1′, 71 percent is derived from the Willamette Silt unit, 20 percent comes from the underlying Willamette confining unit, and 9 percent is from recharge. Of the water that enters the Willamette aquifer in section M2-M2′, 73 percent is derived from the Willamette Silt unit, 3 percent comes from the Willamette confining unit, and 24 percent is from recharge. The largest differences between the two sections is the larger amount of water moving upward from the Willamette confining unit in section M1-M1′.

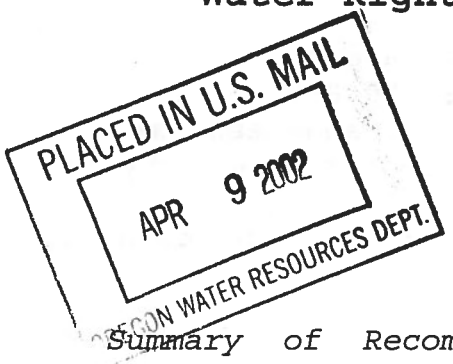
The volume of water moving through the Willamette confining unit depends on the presence or absence of the underlying Columbia River basalt aquifer. In section M2-M2′, where the Columbia River basalt aquifer is absent, the only water moving through the confining unit is water moving downward from the overlying Willamette aquifer; this water eventually moves upward back into that overlying unit. This quantity represents only about 2 percent of the total flow in section M2-M2′ (table 9). In section M1-M1′, water that enters the Columbia River basalt aquifer through recharge in the basalt uplands moves into the overlying Willamette confining unit and eventually discharges to the Willamette aquifer. The quantity of water moving from the basalt represents 62 percent of the total flow in the Willamette confining unit and about 11 percent of the total flow in section M1-M1′ (table 9).

REGIONAL WATER BUDGET

Long-term hydrographs for observation wells completed in the Willamette aquifer confirm that, on a regional basis, the aquifer is in equilibrium—the water table rises each winter/spring to about the same altitude. Therefore, long-term recharge is equal to long-term discharge, and the changes in storage are minimal. However, estimating or quantifying the various components of both ground-water recharge and ground-water discharge can provide a better understanding of the overall hydrology of the aquifer system. For example: (1) how much ground water in the southern Willamette


PORTLAND
Cornelius
Aloha
Cedar Mill
Beaverton
Tigard
Lake Oswego
Milwaukie
Oregon City
Newberg
Wilsonville
Sherwood
Tualatin
Dayton
Lafayette
McMinnville
Yamhill
Carlton
Amity
Dallas
Monmouth
Independence
Woodburn
Hubbard
Aurora
Donald
Gervais
Mount Angel
Silverton
Stayton
Sublimity
Jefferson
Scio
Lyons
Mehama
Gates
Detroit
Idanha
Mill City
Gates
Turner
Marion
Aumsville
Salem
Keizer
Four Corners
Hopewell
Eola Hills
Rickreall
Willamina
Grand Ronde
Sheridan
Dallas
Falls City
Independence
Monmouth
Willamette River
Pacific Highway
Oregon Electric
Southern Pacific
M1
M1

Oregon Water Resources Department
Water Rights Division



Water Rights Application
Number G-15567

Proposed Final Order

Summary of Recommendation: The Department recommends that the application be denied.

Application History

On JULY 25, 2001, JOEL NEUSCHWANDER submitted an application to the Department for the following water use permit:

- Amount of Water: 720.0 GALLONS PER MINUTE, BEING 500.0 GPM FROM WELL 1 AND 220.0 GPM FROM WELL 2
- Use of Water: NURSERY USE OF 176.29 ACRES
- Source of Water: TWO WELLS IN BEAR CREEK BASIN
- Area of Proposed Use: CLACKAMAS County within SECTION 32, TOWNSHIP 4 SOUTH, RANGE 1 EAST, W.M.

On February 1, 2002, the Department mailed the applicant notice of its Initial Review, determining that "*The use of 1.6 CUBIC FEET PER SECOND (CFS), BEING 1.11 CFS WELL 1 AND 0.49 CFS WELL 2 of water from TWO WELLS IN BEAR CREEK BASIN for NURSERY USE OF 176.29 ACRES is not allowable, and it appears unlikely that you will be issued a permit.*" The applicant did not notify the Department to stop processing the application within 14 days of that date.

On February 19, 2002, the Department gave public notice of the application in its weekly notice. The public notice included a request for comments, and information for interested persons about both obtaining future notices and a copy of the proposed final order.

No written comments were received within 30 days.

In reviewing applications, the Department may consider any relevant sources of information, including the following:

- comments by or consultation with another state agency
- any applicable basin program
- any applicable comprehensive plan or zoning ordinance
- the amount of water available
- the rate and duty for the proposed use
- pending senior applications and existing water rights of

record
- designations of any critical groundwater areas
- the Scenic Waterway requirements of ORS 390.835
- applicable statutes, administrative rules, and case law
- any general basin-wide standard for flow rate and duty of water allowed
- the need for a flow rate and duty higher than the general standard
- any comments received

Findings of Fact

The Willamette Basin Program allows the use of water for nursery use.

TWO WELLS IN BEAR CREEK BASIN are not within or above a State Scenic Waterway.

The Groundwater Section finds, per OAR 390.835(9), there is not a preponderance of evidence that the proposed use of groundwater will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife.

The Department determined, based upon OAR 690-09, that the proposed groundwater use will have the potential for substantial interference with the nearest surface water source, namely tributary to Bear Creek.

In accordance with OAR 690-33-330, an interagency team reviewed this proposed use for potential adverse impacts on sensitive, threatened and endangered fish populations. This team consisted of representatives from the Oregon Departments of Water Resources (WRD), Environmental Quality, Fish and Wildlife (DFW), and Agriculture. WRD and DFW representatives included both technical and field staff. The interagency team did not recommend that any additional conditions of use be imposed on this application.

An assessment of groundwater availability has been completed by the Department's Groundwater/Hydrology section. A copy of this assessment is in the file. The proposed use of groundwater will, if properly conditioned, avoid injury to existing rights and the resource.

Because the proposed use of water would have the potential with substantial interference with surface water, an assessment of surface water availability has been completed. This assessment compared a calculation of natural streamflow minus the consumption portion of all relevant rights of record. A copy of this assessment is in the file. This assessment determined that water is not available for further

appropriation (at an 80 percent exceedance probability) at any time of the year.

The proposed well is not within a designated critical ground water area.

Conclusions of Law

Under the provisions of ORS 537.621, the Department must presume that a proposed use will ensure the preservation of the public welfare, safety and health if the proposed use is allowed in the applicable basin program established pursuant to ORS 536.300 and 536.340 or given a preference under ORS 536.310(12), if water is available, if the proposed use will not injure other water rights and if the proposed use complies with rules of the Water Resources Commission.

The Willamette Basin Program allows the proposed use.

No preference for this use is granted under the provisions of ORS 536.310(12).

Water **is not** available for the proposed use.

The proposed use would not injure other water rights.

The proposed use complies with other rules of the Water Resources Commission not otherwise described above.

The proposed use is compatible with applicable land use plans.

No proposed flow rate and duty of water higher than the general basin-wide standard is needed.

For these reasons, the required presumption **has not** been established.

The application therefore has been processed without the statutory presumption.

In this application, all criteria for establishing the presumption have not been satisfied, as noted above.

The Department therefore concludes that water **is not** available in the amount of water necessary for the proposed use; the proposed use would not result in injury to existing water rights; and the proposed use would not ensure the preservation of the public welfare, safety and health as described in ORS 537.525.

Recommendation

The Department recommends that the application be denied.

DATED April 9, 2002

Dwight French
Water Rights Section Manager

If you have any questions, please check the information box on the last page for the appropriate names and phone numbers.

Protest Rights and Standing

Under the provisions of 537.621(7), you have the right to protest this proposed final order. Your protest must be in writing, and must include the following:

- Your name, address, and telephone number;
- A description of your interest in the proposed final order, and, if you claim to represent the public interest, a precise statement of the public interest represented;
- A detailed description of how the action proposed in this proposed final order would impair or be detrimental to your interest;
- A detailed description of how the proposed final order is in error or deficient, and how to correct the alleged error or deficiency;
- Any citation of legal authority to support your protest, if known; and
- If you are not the applicant, the $200 protest fee required by ORS 536.050 and proof of service of the protest upon the applicant.
- If you are the applicant, a statement of whether or not you are requesting a contested case hearing. If you do not request a hearing, the Department will presume that you do not wish to contest the findings of the proposed final order.
- If you do not protest this Proposed Final Order and if no substantive changes are made in the final order, you will not have an opportunity for judicial review, protest or appeal of the final order when it is issued.
- *Persons other than the applicant who support the proposed final order may request standing for the purposes of participating in any contested case proceeding on the proposed final order or for judicial review of a final order.*
- *Requests for standing shall meet the requirements described in OAR 690-310-160 and shall be accompanied by the $50.00*

standing fee established under ORS 536.050.

Your protest or request for standing must be received in the Water Resources Department no later than **May 24, 2002.**

After the protest period has ended, the Director will either issue a final order or schedule a contested case hearing. The contested case hearing will be scheduled only if a protest has been submitted and if

- upon review of the issues, the director finds that there are significant disputes related to the proposed use of water, or
- the applicant requests a contested case hearing within 30 days after the close of the protest period.

This document was prepared by Jerry Gainey. *If you have any questions about any of the statements contained in this document I am most likely the best person to answer your questions. You can reach me at 1-503-378-8455 extension* 458.

If you have questions about how to file a protest or if you have previously filed a protest and want to know the status, please contact Renee Moulun. Her extension number is 239.

If you have other questions about the Department or any of its programs please contact our Water Rights Information Group at extension 201.

Address all other correspondence to:

Water Rights Section, Oregon Water Resources Department, 158 12th ST. NE Salem, OR 97310
Fax: (503)378-6203

Gaineyjw- WEEK 350

STATE OF OREGON
Water Resources Department
158 12th St. N.E.
Salem, OR 97310

MEMORANDUM

DATE: 10/30/2002

TO: File G-15567
FROM: Donn Miller, Hydrogeologist (503.378.8455 x205)

SUBJECT: Well Enforcement Request Evaluation

I have spoken to Tracy Eichenlaub of enforcement, reviewed the captioned file and studied the request for enforcement on well construction letter dated 10/18/2002.

Malia and Gregory Kupillas wrote the request letter on behalf of the applicant, Joel Neuschwander. Most certainly, the request wishes to accomplish more than just well reconstruction at the driller's expense. The application seeks 720 gpm from two wells for nursery use. The application has been impeded based on my analysis of gw/sw interactions per basin rule and division 9 assessments and surface water availability limitations. From the letter, I must assume that the request is ultimately part of the permitting objective of the application.

If the real interest is permitting, I will jump ahead to that issue. I am not confident that the reconstruction solves the permit issuance problem. I indicated in my email to Malia on July 22, 2002 that the well construction issue is separate from the division 9 issue (sw/gw interaction assessment). Based on the request and my reconsideration of the file, I confirm that position. Development will interfere with surface water flows in Bear creek and the nearby tributary. **I conclude that the proposed well reconstruction will not be sufficient for the application to obtain a favorable gw/sw interaction assessment per division 9.**

In my view, there is some merit in the request for accomplishing proper well construction. Frankly, the cross-sectional analysis doesn't do much for me. The upper aquifer/lower aquifer matter is still debatable. My focus would be on the internal inconsistencies on the well reports. For well #1 (CLAC 12700), what's the deal with first water at 31 feet, two water bearing-zones with 30' swl's and the resulting swl of 29 feet. Based on that, the perceived well misconstruction would seem to be improper sealing off an upper aquifer. For well #2 (CLAC 51287), how do you get first water at 40 feet, seal to 50 feet, take from that first water unit (38-54 feet) and deeper units, and get a final swl of 47 feet? Some commingling seems to be occurring at face value. The well start and completion dates seem odd but could play into the construction issue somehow. I have no views on the matter of continued driller responsibility.

Taking these matters as a whole, the outlook for ground water permitting is bleak and the well reconstruction matter is pretty much off point to that.

Pacific Hydro-Geology Inc.
18477 S. Valley Vista Rd.
Mulino, OR 97042
(503) 632-5016

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time out til Dec. 17, 02
prop denied substantial interference
talked to Dawn 10-28, he'll talk w/ Fred

October 18, 2002

Oregon Water Resources
Ms. Tracy Eichenlaub
158 12th Street NE
Salem, Oregon 97310-0210

Re: Request for enforcement on well construction for two wells proposed for use under Water Right Application G-15567

Dear Ms. Eichenlaub:

The purpose of this letter is to submit information on behalf of Mr. Joel Neuschwander, the applicant for ground water Application G-15567, for an evaluation of the construction of two wells (CLAC 12700 and CLAC 51287). If the construction of these two wells (Neuschwander wells) is found to be in violation of state laws, we would request enforcement action against the driller who constructed the wells. The Department has recommended that Application G-15567 be denied because of potential interference with nearby streams. This determination is documented in Proposed Final Order dated April 9, 2002, in which the Neuschwander wells are identified as Well 1 (CLAC 12700) and Well 2 (CLAC 51287).

We have reviewed the well construction reports for the two wells and have determined that the wells were not properly sealed to prevent commingling of groundwater between the uppermost water-bearing zone(s) and the deeper, water bearing intervals over which the wells are screened. Copies of the Water Well Reports for these two wells (CLAC 12700 and CLAC 51287) are attached. Figure 1 shows the locations of the Newschwander wells and several other wells we have identified in the area. Cross sections including the two Neuschwander wells and three other wells (CLAC 12730, CLAC 12739, and CLAC 12727) are shown on Figures 2 and 3 to provide a picture of the subsurface geology. Figure 1 shows the locations of the cross-sections.

Based on our review of the well logs for the Neuschwander wells and other wells in the surrounding area, we believe there is a continuous layer of clay and/or silt that separates an upper, water-bearing strata from a deeper aquifer throughout the area surrounding the two wells of concern. The locations of the wells we have identified in the area are shown on Figure 1. Table 1 provides information from the logs for the wells shown on Figure 1, including the thickness and approximate elevation of the clay layer identified. Copies of the well logs are attached with this letter. Elevations for these wells have been estimated from a U.S.G.S. topographic map.

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Figure 2 (Cross Section A-A') shows the Tocher well (CLACK 12730) obtains water from the upper aquifer, with the bottom of the well ending in the clay that can be identified in both Neuschwander wells and other wells in the area. The driller noted in both Neuschwander wells that water was first encountered in the first gravel that correlates with the upper aquifer. In Well 1 (CLACK 12700), water was first encountered at 31 feet. In Well 2 (CLACK 51287), water was first found at 40 feet. The driller did not report a static water level for the upper aquifer in the log for Well 1, and he reported a single static water level for all the water bearing zones in Well 2. Based on elevations, it appears the upper aquifer is connected with Bear creek, located to the northwest of Neuschwander Well 1, and the unnamed stream located between the two Neuschwander wells. Therefore, the upper aquifer would be expected to have a different static water level than the deeper aquifer. Recent studies by the Department in the Willamette Basin have identified that there are separate aquifers having different static water levels within the Willamette Valley alluvial aquifer system. However, some drillers continue to report one static water level measurement for all the zones.

Based on recent discussions with Fred Lissner and Donn Miller, we believe that the ground water application would be approved if the upper water-bearing strata in these two wells could be isolated from the deeper water bearing zones by the placement of properly constructed well seals. Therefore, the potential for interference with nearby streams is a function of the construction of the two Neuschwander wells.

Our determination that these wells are improperly constructed is based on the following:

Neuschwander Well 1 (CLAC 12700). The driller reported first encountering ground water at a depth of 31 feet below land surface (bls). This first encountered ground water appears to occur within a thin layer of sand at a depth of 31 feet bls. A cemented gravel is also noted in the log from 42 feet to 63 feet. Based on the logs from other wells in the area, we understand that the cemented gravel serves as a source of ground water for shallow wells. Therefore, it appears that there is an upper aquifer in this well between 31 and 63 feet bls that may be connected with the nearby streams. The driller did not report a static water level for this apparent water-bearing zone.

According to the log, the primary water bearing zones occur from 82 to 102 feet bls and from 115 to 132 feet bls, corresponding to the lower aquifer. The driller noted the same static water level of 30 feet bls for both of these intervals. The two primary water-bearing intervals are separated from the overlying cemented gravel (upper aquifer) by a 19-feet-thick layer of clay and silt that extends from 63 feet to 82 feet bls. The well is perforated over the interval of 88 to 150 feet bls; however, the well seal was placed only to a depth of 20 feet bls. Therefore, the well seal does not extend into the clay and silt layer, nor does it adequately seal off the shallow water-bearing zone(s) which occur from 31 to 63 feet bls. The construction of this well appears to violate OAR 690-200-0043 and OAR 690-210-0140.

Neuschwander Well 2 (CLAC 51287). The driller reported first encountering ground water at a depth of 40 feet below land surface (bls). This first encountered ground water appears to occur within a layer of cemented gravel found at depths between 38 and 54 feet bls (this cemented gravel appears to correspond with the cemented gravel layer in Well 1 from 42 to 63 feet bls and, therefore, represents the upper aquifer). The driller did not report a static water level for this water-bearing zone.

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The driller reported the water-bearing zone from 40 to 140 feet bls. Based on the perforated interval, from 76 to 119 feet bls, it appears that the primary water-bearing deposits in this well include the sands and gravels which occur between 60 and 95 feet (lower aquifer). These sand and gravel layers appear to correspond to the primary water-bearing zones identified by the driller in Well 1. Also, as in Well 1, these sands and gravel units are separated from the overlying cemented gravel by a 6-feet-thick layer of clay which extends from 54 to 60 feet bls. The well seal was placed only to a depth of 50 feet bls. Therefore, this seal does not extend into the clay layer (54 to 60 feet bls) that separates the upper, water-bearing cemented gravel from the deeper sands and gravel which serve as the primary water-bearing aquifer for this well. The construction of this well appears to violate OAR 690-200-0043 and OAR 690-210-0140.

We request that you review the well construction details of the two wells (CLAC 12700 and CLAC 51287) together with the cross-sections, tabulated well data, and well logs attached with this letter and make a determination whether enforcement action is warranted.

Please call Malia Kupillas, Pacific Hydro-Geology Inc., at (503) 632-5016 if you have any questions.

Sincerely,

Malia R. Kupillas R.G., C.W.R.E.

Gregory E. Kupillas, R.G., C.W.R.E.

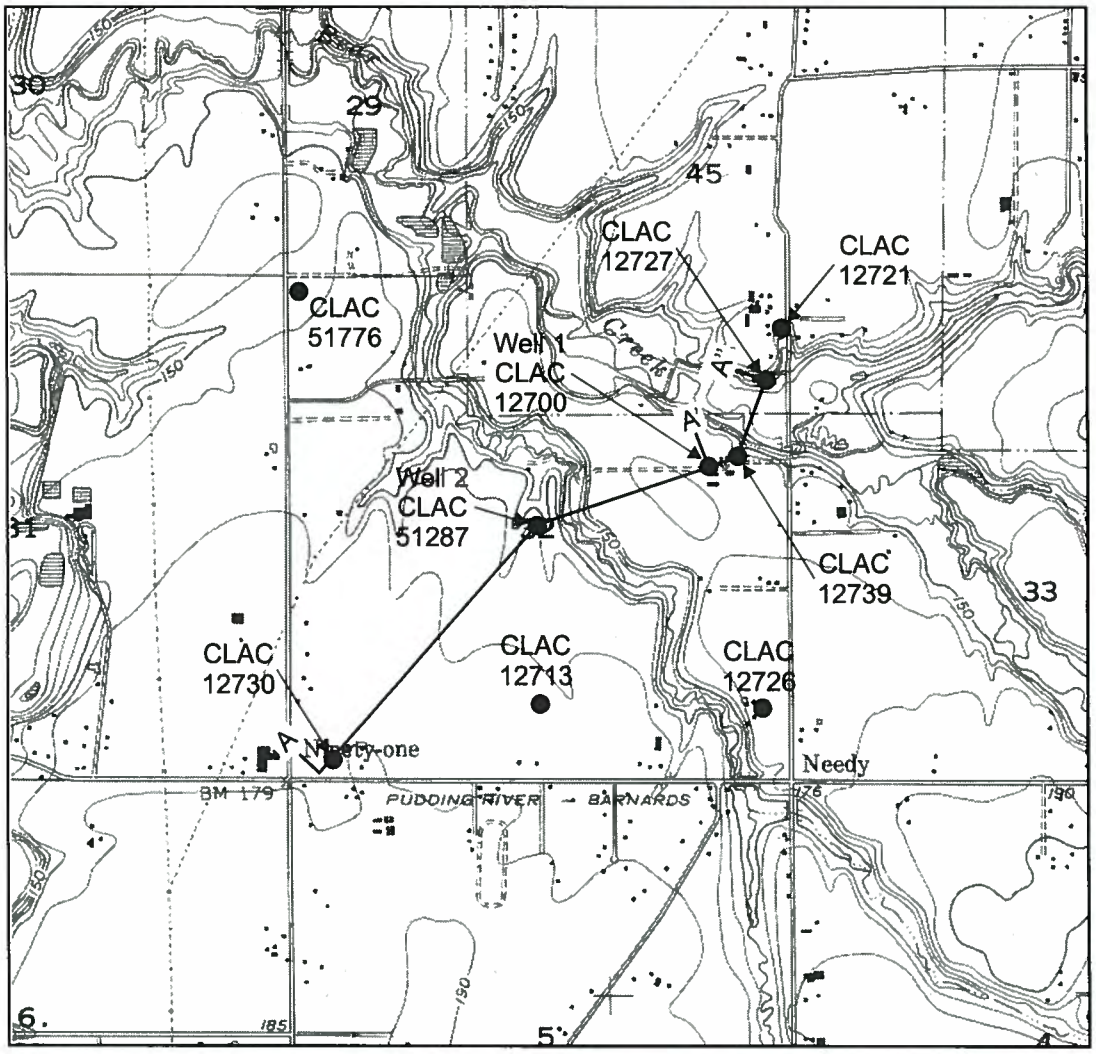
Attachments: Figure 1 - Well and Cross Section Locations
Figure 2 - Cross-Section A-A'
Figure 3 - Cross-Section A'-A"
Table 1 - Well Log Data for Neuschwander Wells and other Are Wells
Water Well Reports for Neuschwander Wells and other Wells in Vicinity

cc: Donn Miller, Oregon Water Resources Department
Joel Neuschwander





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Scale: 1:24000

0 1 Mile

Countour Interval 10 Feet

N

Source: USGS 7.5 Minute Topographic Survey
Map of Yoder Quadrangle, Oregon, 1955
(Photorevised 1985)

Figure 1 - Well and Cross Section Locations

Joel Neuschwander
Application G-15567
T.4S. R.1E Section 32

Pacific Hydro-Geology Inc.

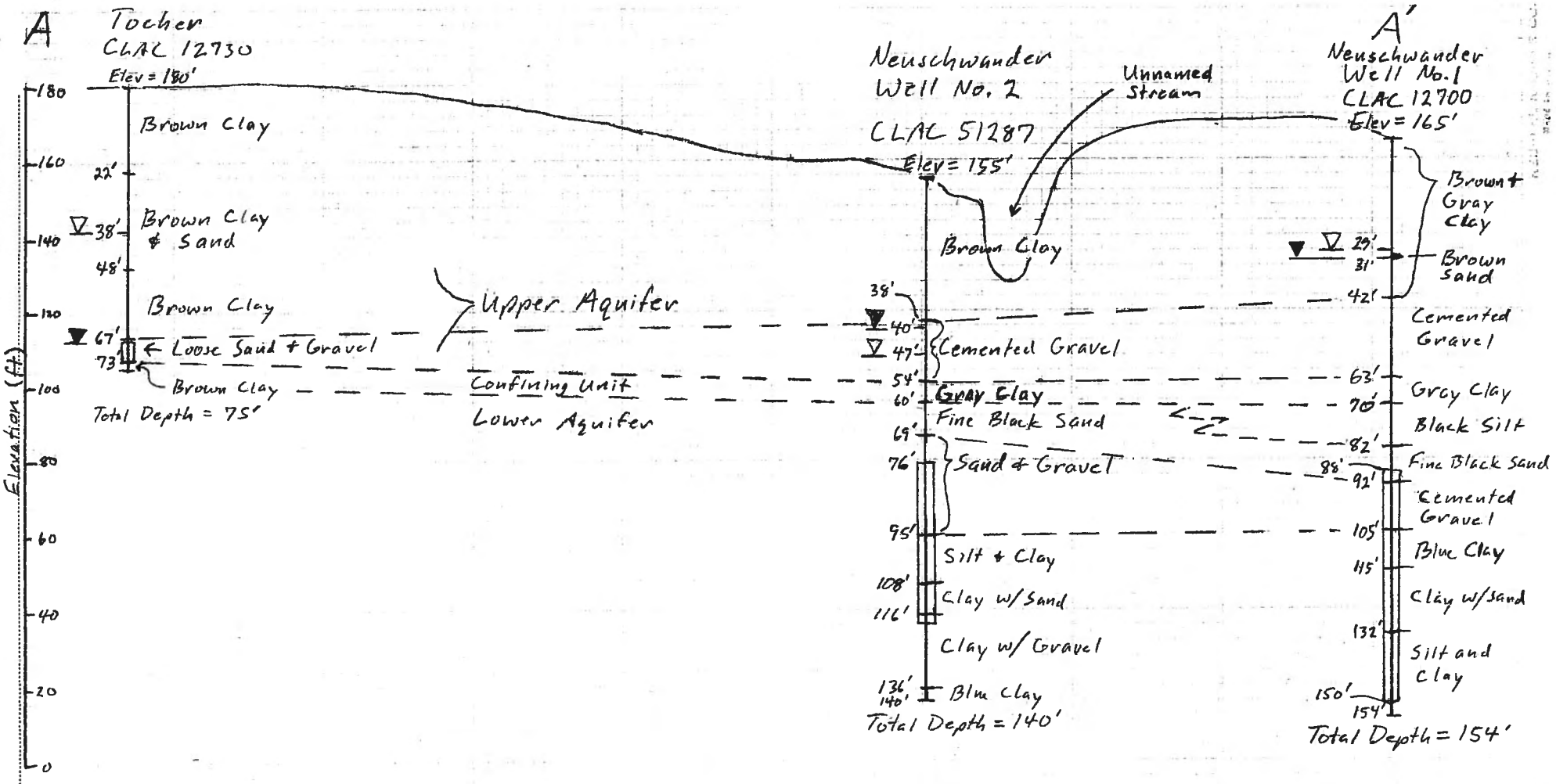


Figure 2 - Cross Section A-A'

Horizontal Scale: 1" = 600'
Vertical Scale: 1" = 40'
▼ Depth at which water first found
▽ Static water level
Perforated interval

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SHEET NO. ..... OF .....
JOB NO. .....
SUBJECT .....
DATE .....
CHKD. BY ..... DATE .....

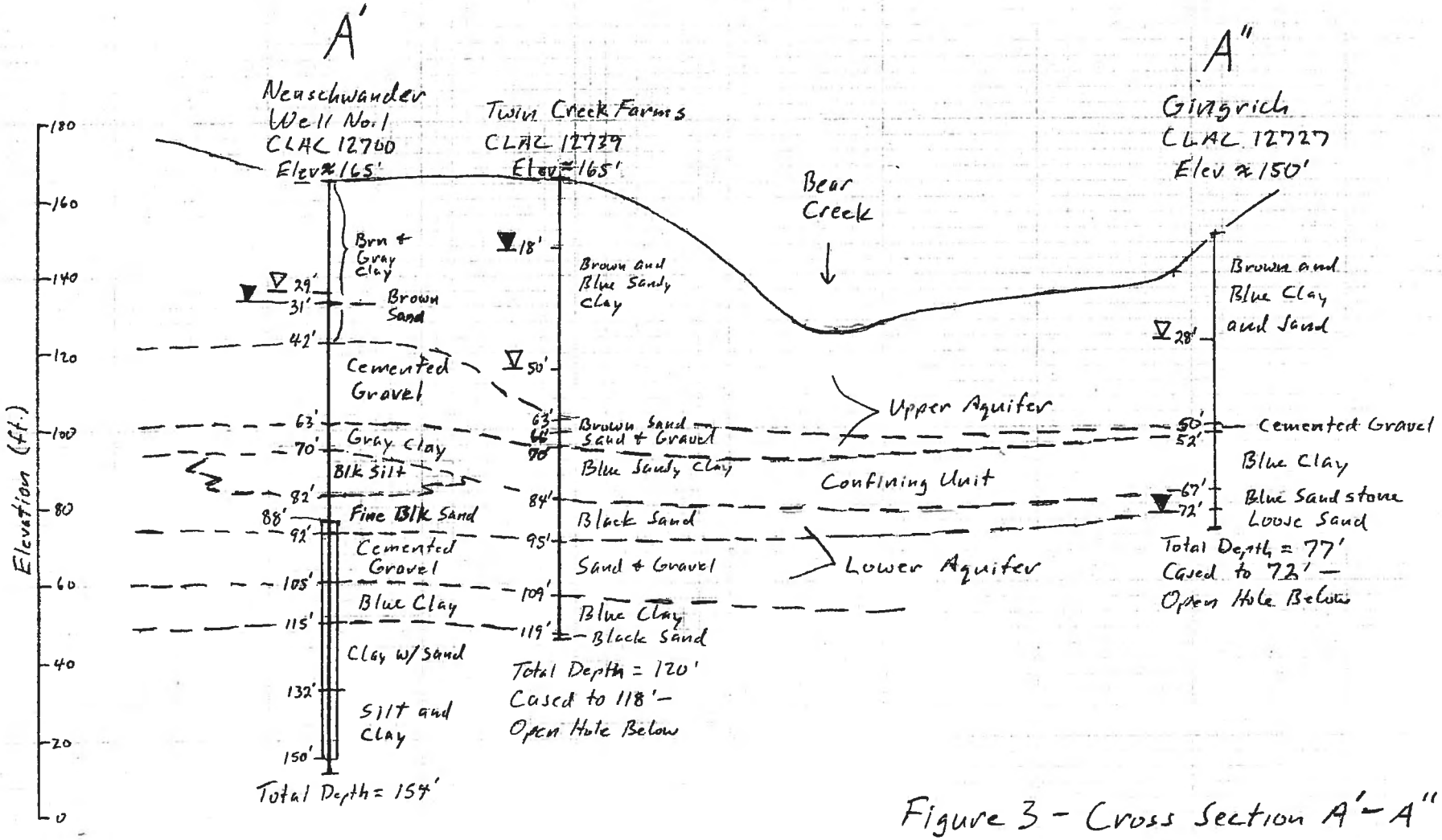


Figure 3 - Cross Section A'-A"

Horizontal Scale: 1" = 200'
Vertical Scale: 1" = 40'
▼ Depth at Which Water First Found
▽ Static Water Level
Perforated Interval

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DATE
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Table 1. Well Log Information for Neuschwander Wells and Other Wells in Vicinity

Well Log I.D. No.		Legal/ Map No.	Tax Lot Number	Owner Last Name	Estimated Well Head Elevation (ft)*	Estimated Elev. at top of Clay Confining Unit (ft)	Estimated Elev. at bottom of Clay Confining Unit (ft)	Thickness of Clay Confining Unit (ft)
CLAC	12700	4 1E 32	903	Neuschwander	165	102	95	7
CLAC	51287	4 1E 32	900	Neuschwander	155	101	95	6
CLAC	12730	4 1E 32	1505	Tocher	180	107	Unknown	Unknown
CLAC	12713	4 1E 32	1507	Hansen	175	111	81	30
CLAC	12726	4 1E 32	1300	Galer	170	<100	Unknown	Unknown
CLAC	12739	4 1E 32	901	Hansen (now Neuschwander)	165	95	81	14
CLAC	12727	4 1E 32A	100	Gingrich	150	98	83	15
CLAC	12721	4 1E 32	207	Hunnicutt	180	<117	Unknown	Unknown
CLAC	51776	4 1E 32	51776	Martishev	155	81	58	23

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* Elevations are estimated from U.S.G.S. Topographic Map: Yoder Quadrangle, Oregon 7.5 Minute Series, 10-foot contour interval.

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JUN 27 1988
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SALEM, OREGON

CLF 012700 Well 1 STREET CARD 530

4S/1E-32Q

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

S. Well Number

(1) OWNER:
Name JOEL NEUSCHWANDER
Address 6059 S WHISKEY HILL RD
City HUBBARD State OR Zip

(2) TYPE OF WORK:
☑ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☐ Rotary Air ☐ Rotary Mud ☑ Cable
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☑ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☑ Depth of Completed Well 154 ft.
Explosives used Yes ☐ No ☐ Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
12	1	20	GRANULAR BENTONITE	1	20	11
8	20	154				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☑ Other GRANULAR BENTONITE METHOD
Backfill placed from ____ ft. to ____ ft. Material ____
Gravel placed from 75 ft. to 90 ft. Size of gravel PEA

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	154	.250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Location of shoe(s) 154

(7) PERFORATIONS/SCREENS:
☑ Perforations Method DRIVE DOWN
☐ Screens Type ____ Material ____

Diam	From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
8	88	150	3/16 X 1 1/4	400			☑	☐
							☐	☐
							☐	☐
							☐	☐
							☐	☐
							☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
500	46	PUMP	1 hr.
300	21	AIR LIFT	3

Temperature of water ____ Depth Artesian Flow Found ____
Was a water analysis done? ☐ Yes By whom ____
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____
Depth of strata: ____

(9) LOCATION OF WELL by legal description:
County CLACKAMAS Latitude ____ Longitude ____
Township 4S N or S, Range 1E E or W, WM.
Section 32 ¼ ¼ SE ¼
Tax Lot ____ Lot ____ Block ____ Subdivision ____
Street Address of Well (or nearest address) S. NEEDY RD, CANBY

(10) STATIC WATER LEVEL:
29 ft. below land surface. Date 5/25/88
Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:
Depth at which water was first found 31

From	To	Estimated Flow Rate	SWL
82	102	800 GPM ≈	30
115	132	500 GPM ≈	30

(12) WELL LOG:
Ground elevation ____

Material	From	To	SWL
SOIL	1	3	
CLAY BROWN	3	31	
SAND BROWN	31	31	
CLAY GREY	31	42	
CEMENTED GRAVEL	42	63	
CLAY DK GREY	63	70	
SILT BLACK	70	82	
SAND BLACK FINE	82	92	
CEMENTED GRAVEL	92	105	
CLAY BLUE STICKEY	105	115	
CLAY GREY W/ GREY SAND LAYERS	115	132	
CLAY GREEN	132	146	
SILT DARK BROWN.	146	147	
CLAY BLUE GREEN	147	154	
INITIALLY PERFORATED 115 TO 150 I AND PRODUCED 150 GPM, total. Then GRAVEL PACKED 75-102 & 115-132, perforated 88' to 115'. Then produced 300 GPM WITH 21' DRAWDOWN.			

Date started 5/13/88 Completed 5/25/88

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number ____
Signed ____ Date ____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 243
Signed Richard Buck Date 6/25/88

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9809C 10/86

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SALEM, OREGON

Well 2
TAG # L02078
62424 (START CARD) #

STATE OF OREGON WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

FLAC 51287

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number

Name Neuschwander's Nursery

Address 6097 S. Whiskey Hill Rd

City Hubbard State Or Zip 97032

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[ ] Rotary Air [ ] Rotary Mud [X] Cable [ ] Auger

[ ] Other

(4) PROPOSED USE:

[ ] Domestic [ ] Community [ ] Industrial [X] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [ ] No Depth of Completed Well 140 ft.

Explosives used [ ] Yes [ ] No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12	1	50	Bentonite	1	50	35 sacks
8	30	140				

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E

[X] Other Granular Bentonite method

Backfill placed from ft. to ft. Material

Gravel placed from 60 ft. to 120 ft. Size of gravel pea

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	140	.25	X		X	
Liner:								

Final location of shoe(s) 140

(7) PERFORATIONS/SCREENS: Drive Down

[X] Perforations Method

[ ] Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
76	119	.188	600			X	

(8) WELL TESTS: Minimum testing time is 1 hour

[ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
		air line @	1 hr.
220		105	4 hr

Temperature of water 53 Depth Artesian Flow Found

Was a water analysis done? [ ] Yes By whom

Did any strata contain water not suitable for intended use? [ ] Too little

[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude Longitude

Township 4s N or S Range 1e E or W. WM.

Section 32 Se 1/4 Nw 1/4

Tax Lot 900 Lot Block Subdivision

Street Address of Well (or nearest address)

29435 S Needy Rd

(10) STATIC WATER LEVEL:

47 ft. below land surface. Date Sep 10, 1996

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 40

From	To	Estimated Flow Rate	SWL
40	140		47

(12) WELL LOG:

Ground Elevation

Material	From	To	SWL
Soil	1	3	
Clay, Brown	3	38	
Cemented gravel, brown	38	54	
Clay, grey	54	58	
Clay, grey, sandy	58	60	
Sand, black, fine	60	69	
Sand and gravel, black	69	71	
Cemented gravel, sand	71	74	
Sand & gravel	74	95	
Clay, blue	95	98	
clay, grey, silty	98	101	
Silt, dark grey	101	108	
Clay w/black coarse sand	108	116	
Clay, grey w/some cemented gravel	116	136	
Clay, blue	136	140	
Note: 6 inch gravel feed each side of			
8 inch well			

Date started August 8, 1996 Completed Dec 10, 1996

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number

Signed Date

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 743

Signed Richard Beh Date 1/8/97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

CLAC 012730

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

RECEIVED
JAN 24 1977
WATER RESOURCES DEPT.
SALEM OREGON

State Well No. 4S/1E-32C
State Permit No. TL 1505

(1) OWNER:
Name DICK TOEHER
Address 777 S BERNARDS RD.
CANBY, OREGON

(2) TYPE OF WORK (check):
New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary [ ] Driven [ ]
Cable [X] Jetted [ ]
Dug [ ] Bored [ ]

(4) PROPOSED USE (check):
Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

CASING INSTALLED:
Threaded [ ] Welded [X]
6" Diam. from 0 ft. to 68 ft. Gage .250"
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? [ ] Yes [X] No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? [X] Yes [ ] No
Manufacturer's Name JOHNSEN
Type Model No.
Diam. 5 Slot size 45 Set from 68 ft. to 73 ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? [ ] Yes [X] No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test 15 gal./min. with 12 ft. drawdown after 1 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used BENTONITE
Well sealed from land surface to ± 20 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 0 sacks
Number of sacks of bentonite used in well seal 3 sacks
Brand name of bentonite NATIONAL
Number of pounds of bentonite per 100 gallons of water 200 lbs./100 gals.
Was a drive shoe used? [X] Yes [ ] No Plugs Size: location ft.
Did any strata contain unusable water? [ ] Yes [X] No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? [ ] Yes [X] No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County CLACKAMAS Driller's well number 376
SW ¼ SW ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 67 ft.
Static level 38 ft. below land surface. Date 1/10/77
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing —
Depth drilled 75 ft. Depth of completed well 73 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
TOP SOIL	0	2	
BROWN CLAY	2	22	
BROWN CLAY AND SAND	22	48	
BROWN CLAY	48	67	
LOOSE SAND AND GRAVEL	67	73	38
BROWN CLAY	73	75	

RECEIVED
OCT 21 2002
WATER RESOURCES DEPT.
SALEM, OREGON

Work started 1/6 1977 Completed 1/10 1977
Date well drilling machine moved off of well 1/10 1977

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] O.R. Keller (Drilling Machine Operator) Date 1/12, 1977
Drilling Machine Operator's License No. 329

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name KELLER WELL DRILLING CO. (Person, firm or corporation) (Type or print)
Address 6350 SE BROWNLEE MILWAUKIE
[Signed] O.R. Keller (Water Well Contractor)
Contractor's License No. 462 Date 1/12, 1977

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

RECEIVED
OCT 21 2002
WATER RESOURCES DEPT
SALEM, OREGON

NOTICE TO WATER WELL CONTRACTOR: The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
OCT - 4 1971
STATE ENGINEER
SALEM, OREGON

CLAC

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

012713

State Well No. 4/1-32
State Permit No.

(1) OWNER:
Name Don Hanson - Twin Creek Farms
Address Rt. Box 340, Canby, Ore. 97013

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☒
12 " Diam. from 0 ft. to 155 ft. Gage .250
18 " Diam. from 0 ft. to 60 ft. Gage .250
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☒ Yes ☐ No
Manufacturer's Name Rossco Moss
Type Louivered Model No.
Diam. 12 Slot size 1/4 Set from 105 ft. to 155 ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☒ Yes ☐ No If yes, by whom?
Yield: 500 gal./min. with 30 ft. drawdown after 5 hrs.
800 " 45 " 4 "
1000 " 70 " 10 "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite - Cement Grout
Well sealed from land surface to 60 ft.
Diameter of well bore to bottom of seal 24 in.
Diameter of well bore below seal 18 in.
Number of sacks of cement used in well seal 8 sacks
Number of sacks of bentonite used in well seal 7 sacks
Brand name of bentonite National
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☐ Yes ☒ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☒ Yes ☐ No Size of gravel: 1/4 - 3/4
Gravel placed from 60 ft. to 160 ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number
¼ ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 60 ft.
Static level 32 ft. below land surface. Date
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6"
Depth drilled 345 ft. Depth of completed well 155 ft.
Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Topsoil-Brown	0	3	
Clay-Brown	3	20	
Clay-Blue	20	60	
Clay-Bl-Sandy-Blk-Fine-Water trace	60	64	
Clay-Br-Sand seams-Fine-Br	64	94	
Sand-Blk-Fine-Clay-Blue	94	125	
Sand-Blk-Fine-Gravel traces Fine-Clay-Blue	125	160	
Clay-Bl-Sand streaks-Fine gravel	160	180	
Sand-Blk-Claystone-Blue	180	190	
Clay-Green-Blue	190	195	
Clay-Blue	195	200	
Clay-Gray	200	230	
Claystone-Blue	230	275	
Gravel-Lrg-Clay-Blue	275	278	
Claystone-Blue	278	290	
Claystone-Gray-Blue	290	300	(Cont)

Work started 5-29 19 71 Completed 9-7 19 71
Date well drilling machine moved off of well 9-7 19 71

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Kenneth Skinner (Drilling Machine Operator) Date 9-25, 19 71
Drilling Machine Operator's License No. 277

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name S & M Drilling & Supply (Person, firm or corporation) (Type or print)
Address Rt. 1 Box 31, Canby, Ore. 97013
[Signed] Kenneth Skinner (Water Well Contractor)
Contractor's License No. 520 Date 9-25, 19 71

(USE ADDITIONAL SHEETS IF NECESSARY)

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
OCT - 4 1971
STATE ENGINEER
SALEM OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

State Well No. 4/1-32

State Permit No. _____

(1) OWNER: (Cont.)
Name
Address

(2) TYPE OF WORK (check):
New Well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☐
_____" Diam. from _____ ft. to _____ ft. Gage _____
_____" Diam. from _____ ft. to _____ ft. Gage _____
_____" Diam. from _____ ft. to _____ ft. Gage _____

PERFORATIONS:
Perforated? ☐ Yes ☐ No.
Type of perforator used
Size of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☐ No
Manufacturer's Name
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☐ No If yes, by whom?
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " "
" " " "
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow _____ g.p.m.
Temperature of water Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:
Well seal—Material used
Well sealed from land surface to _____ ft.
Diameter of well bore to bottom of seal _____ in.
Diameter of well bore below seal _____ in.
Number of sacks of cement used in well seal _____ sacks
Number of sacks of bentonite used in well seal _____ sacks
Brand name of bentonite
Number of pounds of bentonite per 100 gallons of water _____ lbs./100 gals.
Was a drive shoe used? ☐ Yes ☐ No Plugs _____ Size: location _____ ft.
Did any strata contain unusable water? ☐ Yes ☐ No
Type of water? _____ depth of strata _____
Method of sealing strata off
Was well gravel packed? ☐ Yes ☐ No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:
County _____ Driller's well number _____
¼ ¼ Section _____ T. _____ R. _____ W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found _____ ft.
Static level _____ ft. below land surface. Date
Artesian pressure _____ lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing _____
Depth drilled _____ ft. Depth of completed well _____ ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Claystone-Sandstone seams-Water	300	340	32
Sand-Fine-Gray-Blank	340	345	

RECEIVED
OCT 2 1 2002
WATER RESOURCES DEPT.
SALEM, OREGON

Work started _____ 19 Completed _____ 19
Date well drilling machine moved off of well _____ 19

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Kenneth Spencer (Drilling Machine Operator) Date _____, 19____
Drilling Machine Operator's License No. _____

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name _____ (Person, firm or corporation) (Type or print)
Address _____
[Signed] Kenneth Spencer (Water Well Contractor)
Contractor's License No. _____ Date _____, 19____

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45655-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM 10, OREGON within 30 days from the date of well completion.

RECEIVED NOV 13 1962 STATE ENGINEER

WATER WELL REPORT
STATE OF OREGON
(Please type or print)

CLAC 012726

State Well No. 4/1-32

State Permit No. TL 1300

(1) OWNER:
Name John Galer,

Address Rt.2,Box 346,Canby,Ore.

(2) LOCATION OF WELL:
County Clackamas Driller's well number

¼ ¼ Section 32 T. 4S R. 1E W.M.

Bearing and distance from section or subdivision corner
750 Ft.North,300 Ft. West of S.E corner sec.32.

(3) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(6) CASING INSTALLED:
Threaded ☐ Welded ☒
6 " Diam. from 0 ft. to 70 ft. Gage
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(7) PERFORATIONS:
Perforated? ☐ Yes ☐ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(8) SCREENS:
Well screen installed ☐ Yes ☐ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:
Well seal—Material used in seal heavy mud and cement
Depth of seal 20 ft. Was a packer used?
Diameter of well bore to bottom of seal in.
Were any loose strata cemented off? ☐ Yes ☒ No Depth
Was a drive shoe used? ☐ Yes ☐ No
Was well gravel packed? ☐ Yes ☐ No Size of gravel:
Gravel placed from ft. to ft.
Did any strata contain unusable water? ☐ Yes ☐ No
Type of water? Depth of strata
Method of sealing strata off

(10) WATER LEVELS:
Static level 27 ft. below land surface Date 10-29-62
Artesian pressure lbs. per square inch Date

(11) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☒ Yes ☐ No If yes, by whom? J.T.Miller
Yield: 50 gal./min. with 23 ft. drawdown after hrs.
" " " "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? ☐ Yes ☐ No

(12) WELL LOG:
Diameter of well below casing 6
Depth drilled 70 ft. Depth of completed well 70 ft.

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
surface	0	3
clay,yellow	3	23
clay,gray	23	42
clay,blue	42	63
coarse broken sand,gravel water	63	70

RECEIVED
OCT 21 2002
WATER RESOURCES DEPT.
SALEM, OREGON

Work started 10-29- 19 62 Completed 10-31- 19 62
Date well drilling machine moved off of well 19

(13) PUMP:
Manufacturer's Name
Type: H.P.

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME J.T.Miller (Person, firm or corporation) (Type or print)

Address Box 175,Aurora, Ore.

Drilling Machine Operator's License No.

[Signed] J.T.Miller (Water Well Contractor)

Contractor's License No. 102 Date 10-31, 19 62

(USE ADDITIONAL SHEETS IF NECESSARY)

7

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

CLAC 012439

WATER WELL REPORT
STATE OF OREGON

(Please type or print) House well

(Do not write above this line)

State Well No. 4S/1E-33dc

State Permit No.

(1) OWNER:
Name TWIN CREEK Farms DON HANSON
Address 29385 S. Needy Rd.
Canby, Oregon 97013

(2) TYPE OF WORK (check):
New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary [X] Driven [ ]
Cable [ ] Jetted [ ]
Dug [ ] Bored [ ]

(4) PROPOSED USE (check):
Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(5) CASING INSTALLED:
Threaded [ ] Welded [X]
6 " Diam. from 0 ft. to 118 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:
Perforated? [ ] Yes [X] No.
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? [ ] Yes [X] No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? [ ] Yes [X] No If yes, by whom?
Yield: 45 gal./min. with total ft. drawdown after 1 hrs.
AIR ROTARY " " "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used cement
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal sacks
How was cement grout placed? pressure grouted
Was a drive shoe used? [X] Yes [ ] No Plugs Size: location ft.
Did any strata contain unusable water? [ ] Yes [X] No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? [ ] Yes [X] No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County CLACKAMAS Driller's well number D-247-79
SW ¼ SE ¼ Section 33 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 18 ft.
Static level 50 ft. below land surface. Date 2-25-79
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6"
Depth drilled 120 ft. Depth of completed well 120 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
topsoil	0	1	
clay sandy brown	1	28	
clay sandy blue	28	63	
sand brown	63	66	
~~clay~~ sand & gravel brown medium	66	70	
clay sandy blue	70	84	
sand black	84	95	
sand & gravel blue med.	95	109	
clay blue	109	119	
sand black	119		50

RECEIVED
AUG 2 - 1979
WATER RESOURCES DEPT
SALEM, OREGON

RECEIVED
OCT 21 2002
WATER RESOURCES DEPT.
SALEM, OREGON

Work started 7-24 19 79 Completed 7-25 19 79
Date well drilling machine moved off of well 7-25 19 79

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] (Drilling Machine Operator) Date 7-31, 19 79
Drilling Machine Operator's License No. 1290

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name S & M DRILLING & SUPPLY, INC. (Person, firm or corporation) (Type or print)
Address 399 S.E. Walnut St. Canby, Or.
[Signed] (Water Well Contractor)
Contractor's License No. 497 Date 7-31, 19 79

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*48658-119

RECEIVED
OCT 21 2002
WATER RESOURCES DEPT
SALEM, OREGON

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

CLAC 01427 NOV

WATER WELL REPORT

STATE OF OREGON (Please type or print) (Do not write above this line)

RECEIVED
APR 29 1977
WATER RESOURCES DEPT.
SALEM, OREGON

State Well No. 4S/1E-32aa
State Permit No.

(1) OWNER:
Name DOUG GINGERICH
Address RT 1 BOX 118 HUBBARD OREGON 97032

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☒
10" Diam. from +1 ft. to 72 ft. Gage .250"
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☒ Yes ☐ No
Manufacturer's Name JOHNSON
Type Model No.
Diam. 5 Slot size 10 Set from 72 ft. to 77 ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test 35 gal./min. with 9 ft. drawdown after 1 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used BENTONITE
Well sealed from land surface to 23 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 9 sacks
Number of sacks of bentonite used in well seal 4 sacks
Brand name of bentonite NATIONAL
Number of pounds of bentonite per 100 gallons of water 200 lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County CLACKAMAS Driller's well number 384
NE ¼ NE ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 72 ft.
Static level 28 ft. below land surface. Date 4/26/77
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing
Depth drilled 77 ft. Depth of completed well 77 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
TOP SOIL	0	2	
BROWN CLAY	2	13	
SAND AND BROWN CLAY	13	29	
BLUE CLAY	29	31	
BROWN CLAY AND SAND	31	41	
BLUE CLAY	41	50	
CEMENTED GRAVEL	50	52	
BLUE CLAY	52	67	
SOFT BLUE SANDSTONE	67	72	
LOOSE SAND	72	77	28

Work started 4/22 19 77 Completed 4/26 19 77
Date well drilling machine moved off of well 4/27 19 77

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] C K Keller (Drilling Machine Operator) Date 4/27, 19 77
Drilling Machine Operator's License No. 329

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name KELLER WELL DRILLING CO. (Person, firm or corporation) (Type or print)
Address 6350 SE BROWNLEE, MILWAUKIE
[Signed] C K Keller (Water Well Contractor)
Contractor's License No. 462 Date 4/27, 19 77

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45058-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the
STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date of well completion.

CLAC 012721

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

RECEIVED
JUN 22 1973
STATE ENGINEER
SALEM OREGON

State Well No. 4S/1E-32
State Permit No. 20107202

(1) OWNER:
Name Richard Hunnicut
Address Rt 2 Box 124-A, Canby, Oregon

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
D[illegible] ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:
Threaded ☐ Welded ☒
6 " Diam. from 0 ft. to 57 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
[illegible]: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test 25 gal./min. with 27 ft. drawdown after 1 hrs.
[illegible]esian flow g.p.m.
[illegible]perature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal sacks
Number of sacks of bentonite used in well seal 3 sacks
Brand name of bentonite Wilbur Ellis
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number 2014 202
¼ ¼ Section 32 T. 4S R. 1E 203 W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 55 ft.
Static level 30 ft. below land surface. Date 5/3/73
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6
Depth drilled 64 ft. Depth of completed well 63 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Soil, Brown	0	2	
Clay, Brown	2	28	
Clay, Gray	28	35	
River Rock, Cemented	35	55	
Sand, Gravel, WB	55	63	30

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Work started 5/3/73 19 Completed 5/3/73 19
Date well drilling machine moved off of well 5/3/73 19

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] H B Blackman (Drilling Machine Operator) Date 5/9/73, 19
Drilling Machine Operator's License No. 681

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name Harvey Blackman (Person, firm or corporation) (Type or print)
Address Rt 1 Box 181K, Mulino, Oregon
[Signed] Harvey B Blackman (Water Well Contractor)
Contractor's License No. 537 Date 5/9/73, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

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WATER RESOURCES DEPT.
SALEM, OREGON

Skyles Drilling, Inc.
1164 Molalla Ave.
Oregon City, OR 97045
656-2683

CLAC 5776 L09629

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)
Instructions for completing this report are on the last page of this form.

(START CARD) # 98083

(1) OWNER: Well Number 01
Name Tony Martishev
Address 1040 Tierra Lynn Dr.
City Woodburn State Or. Zip 97071

(2) TYPE OF WORK
[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:
[X] Rotary Air [ ] Rotary Mud [ ] Cable [ ] Auger
[X] Other Holte

(4) PROPOSED USE:
[ ] Domestic [ ] Community [ ] Industrial [X] Irrigation
[ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval [ ] Yes [X] No Depth of Completed Well 235 ft.
Explosives used [ ] Yes [X] No Type Amount

HOLE Diameter	From	To	Material	SEAL From	To	Sacks or pounds
12"	0	18	Bentonite	18	0	16 sacks
9 1/2"	18	250				
9 1/2"	216	225	Cement	223	216	6 sacks

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E
[X] Other Bent Poured/Cement pumped
Backfill placed from 250 ft. to 235 ft. Material 3/8" gravel
Gravel placed from ft. to ft. Size of gravel 18 sacks

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8"	+2	229	250	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:	None				[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s) None

(7) PERFORATIONS/SCREENS:
[ ] Perforations Method
[ ] Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
None						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

(8) WELL TESTS: Minimum testing time is 1 hour
[ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
200		220	1 hr.

Temperature of water 56° Depth Artesian Flow Found
Was a water analysis done? [ ] Yes By whom
Did any strata contain water not suitable for intended use? [ ] Too little
[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Clackamas Latitude Longitude
Township 4 South N or S Range 1 East E or W. WM.
Section 32 NW 1/4 NW 1/4
Tax Lot 500 Lot Block Subdivision
Street Address of Well (or nearest address) S. Barlow
Canby, Or.

(10) STATIC WATER LEVEL:
30 ft. below land surface. Date 5-17-97
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 57'

From	To	Estimated Flow Rate	SWL
57'	74'	40	30
97'	112'	100	30
223'	249'	200	30

(12) WELL LOG:
Ground Elevation

Material	From	To	SWL
Clay Brown Sandy	0	6	
Clay Brown	6	57	
Sand Brown	57	74	
Clay Gray	74	97	
Sand Gray Med Some Gravel	97	112	
Clay Gray	112	223	
Sand Cemented Gray Med	223	249	30
Clay Gray	249	250	

Date started 5-8-97 Completed 5-17-97

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
WWC Number 553
Signed Marvin D. Skyles Date 5-23-97

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
WWC Number 1592
Signed Steve C. Bland Date 5-23-97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

Pacific Hydro-Geology Inc.
18477 S. Valley Vista Rd.
Mulino, OR 97042
(503) 632-5016

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time out til Dec. 17, 02
prop denied substantial interference
talked to Dawn 10-28, will talk w/ Fred

October 18, 2002

Oregon Water Resources
Ms. Tracy Eichenlaub
158 12th Street NE
Salem, Oregon 97310-0210

Re: Request for enforcement on well construction for two wells proposed for use under Water Right Application G-15567

Dear Ms. Eichenlaub:

The purpose of this letter is to submit information on behalf of Mr. Joel Neuschwander, the applicant for ground water Application G-15567, for an evaluation of the construction of two wells (CLAC 12700 and CLAC 51287). If the construction of these two wells (Neuschwander wells) is found to be in violation of state laws, we would request enforcement action against the driller who constructed the wells. The Department has recommended that Application G-15567 be denied because of potential interference with nearby streams. This determination is documented in Proposed Final Order dated April 9, 2002, in which the Neuschwander wells are identified as Well 1 (CLAC 12700) and Well 2 (CLAC 51287).

We have reviewed the well construction reports for the two wells and have determined that the wells were not properly sealed to prevent commingling of groundwater between the uppermost water-bearing zone(s) and the deeper, water bearing intervals over which the wells are screened. Copies of the Water Well Reports for these two wells (CLAC 12700 and CLAC 51287) are attached. Figure 1 shows the locations of the Newschwander wells and several other wells we have identified in the area. Cross sections including the two Neuschwander wells and three other wells (CLAC 12730, CLAC 12739, and CLAC 12727) are shown on Figures 2 and 3 to provide a picture of the subsurface geology. Figure 1 shows the locations of the cross-sections.

Based on our review of the well logs for the Neuschwander wells and other wells in the surrounding area, we believe there is a continuous layer of clay and/or silt that separates an upper, water-bearing strata from a deeper aquifer throughout the area surrounding the two wells of concern. The locations of the wells we have identified in the area are shown on Figure 1. Table 1 provides information from the logs for the wells shown on Figure 1, including the thickness and approximate elevation of the clay layer identified. Copies of the well logs are attached with this letter. Elevations for these wells have been estimated from a U.S.G.S. topographic map.

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Figure 2 (Cross Section A-A') shows the Tocher well (CLACK 12730) obtains water from the upper aquifer, with the bottom of the well ending in the clay that can be identified in both Neuschwander wells and other wells in the area. The driller noted in both Neuschwander wells that water was first encountered in the first gravel that correlates with the upper aquifer. In Well 1 (CLACK 12700), water was first encountered at 31 feet. In Well 2 (CLACK 51287), water was first found at 40 feet. The driller did not report a static water level for the upper aquifer in the log for Well 1, and he reported a single static water level for all the water bearing zones in Well 2. Based on elevations, it appears the upper aquifer is connected with Bear creek, located to the northwest of Neuschwander Well 1, and the unnamed stream located between the two Neuschwander wells. Therefore, the upper aquifer would be expected to have a different static water level than the deeper aquifer. Recent studies by the Department in the Willamette Basin have identified that there are separate aquifers having different static water levels within the Willamette Valley alluvial aquifer system. However, some drillers continue to report one static water level measurement for all the zones.

Based on recent discussions with Fred Lissner and Donn Miller, we believe that the ground water application would be approved if the upper water-bearing strata in these two wells could be isolated from the deeper water bearing zones by the placement of properly constructed well seals. Therefore, the potential for interference with nearby streams is a function of the construction of the two Neuschwander wells.

Our determination that these wells are improperly constructed is based on the following:

Neuschwander Well 1 (CLAC 12700). The driller reported first encountering ground water at a depth of 31 feet below land surface (bls). This first encountered ground water appears to occur within a thin layer of sand at a depth of 31 feet bls. A cemented gravel is also noted in the log from 42 feet to 63 feet. Based on the logs from other wells in the area, we understand that the cemented gravel serves as a source of ground water for shallow wells. Therefore, it appears that there is an upper aquifer in this well between 31 and 63 feet bls that may be connected with the nearby streams. The driller did not report a static water level for this apparent water-bearing zone.

According to the log, the primary water bearing zones occur from 82 to 102 feet bls and from 115 to 132 feet bls, corresponding to the lower aquifer. The driller noted the same static water level of 30 feet bls for both of these intervals. The two primary water-bearing intervals are separated from the overlying cemented gravel (upper aquifer) by a 19-feet-thick layer of clay and silt that extends from 63 feet to 82 feet bls. The well is perforated over the interval of 88 to 150 feet bls; however, the well seal was placed only to a depth of 20 feet bls. Therefore, the well seal does not extend into the clay and silt layer, nor does it adequately seal off the shallow water-bearing zone(s) which occur from 31 to 63 feet bls. The construction of this well appears to violate OAR 690-200-0043 and OAR 690-210-0140.

Neuschwander Well 2 (CLAC 51287). The driller reported first encountering ground water at a depth of 40 feet below land surface (bls). This first encountered ground water appears to occur within a layer of cemented gravel found at depths between 38 and 54 feet bls (this cemented gravel appears to correspond with the cemented gravel layer in Well 1 from 42 to 63 feet bls and, therefore, represents the upper aquifer). The driller did not report a static water level for this water-bearing zone.

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The driller reported the water-bearing zone from 40 to 140 feet bls. Based on the perforated interval, from 76 to 119 feet bls, it appears that the primary water-bearing deposits in this well include the sands and gravels which occur between 60 and 95 feet (lower aquifer). These sand and gravel layers appear to correspond to the primary water-bearing zones identified by the driller in Well 1. Also, as in Well 1, these sands and gravel units are separated from the overlying cemented gravel by a 6-feet-thick layer of clay which extends from 54 to 60 feet bls. The well seal was placed only to a depth of 50 feet bls. Therefore, this seal does not extend into the clay layer (54 to 60 feet bls) that separates the upper, water-bearing cemented gravel from the deeper sands and gravel which serve as the primary water-bearing aquifer for this well. The construction of this well appears to violate OAR 690-200-0043 and OAR 690-210-0140.

We request that you review the well construction details of the two wells (CLAC 12700 and CLAC 51287) together with the cross-sections, tabulated well data, and well logs attached with this letter and make a determination whether enforcement action is warranted.

Please call Malia Kupillas, Pacific Hydro-Geology Inc., at (503) 632-5016 if you have any questions.

Sincerely,

Malia R. Kupillas R.G., C.W.R.E.

Gregory E. Kupillas, R.G., C.W.R.E.

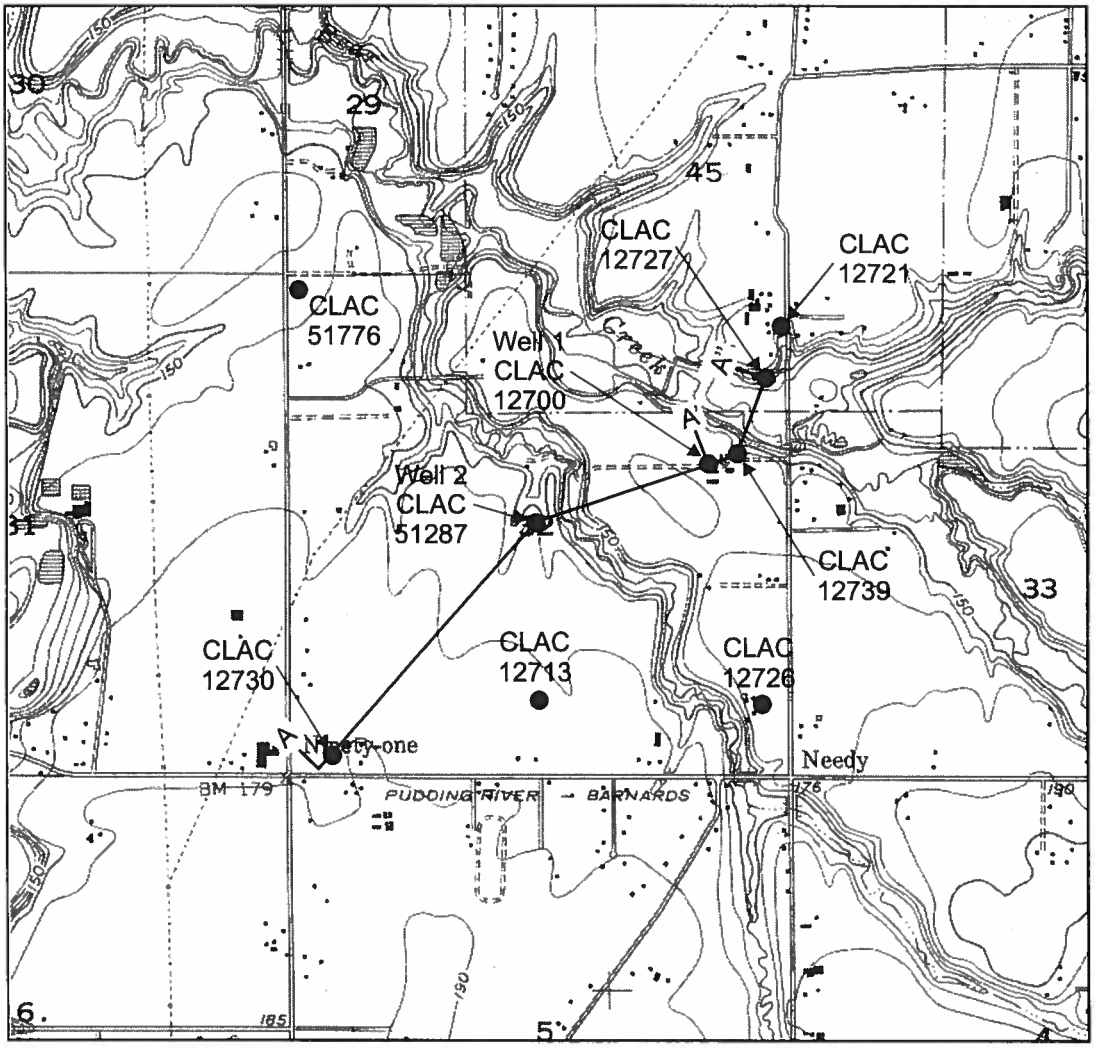
Attachments: Figure 1 - Well and Cross Section Locations
Figure 2 - Cross-Section A-A'
Figure 3 - Cross-Section A'-A"
Table 1 - Well Log Data for Neuschwander Wells and other Are Wells
Water Well Reports for Neuschwander Wells and other Wells in Vicinity

cc: Donn Miller, Oregon Water Resources Department
Joel Neuschwander





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Scale: 1:24000

0 1 Mile

Countour Interval 10 Feet

N

Source: USGS 7.5 Minute Topographic Survey
Map of Yoder Quadrangle, Oregon, 1955
(Photorevised 1985)

Figure 1 - Well and Cross Section Locations

Joel Neuschwander
Application G-15567
T.4S. R.1E Section 32

Pacific Hydro-Geology Inc.

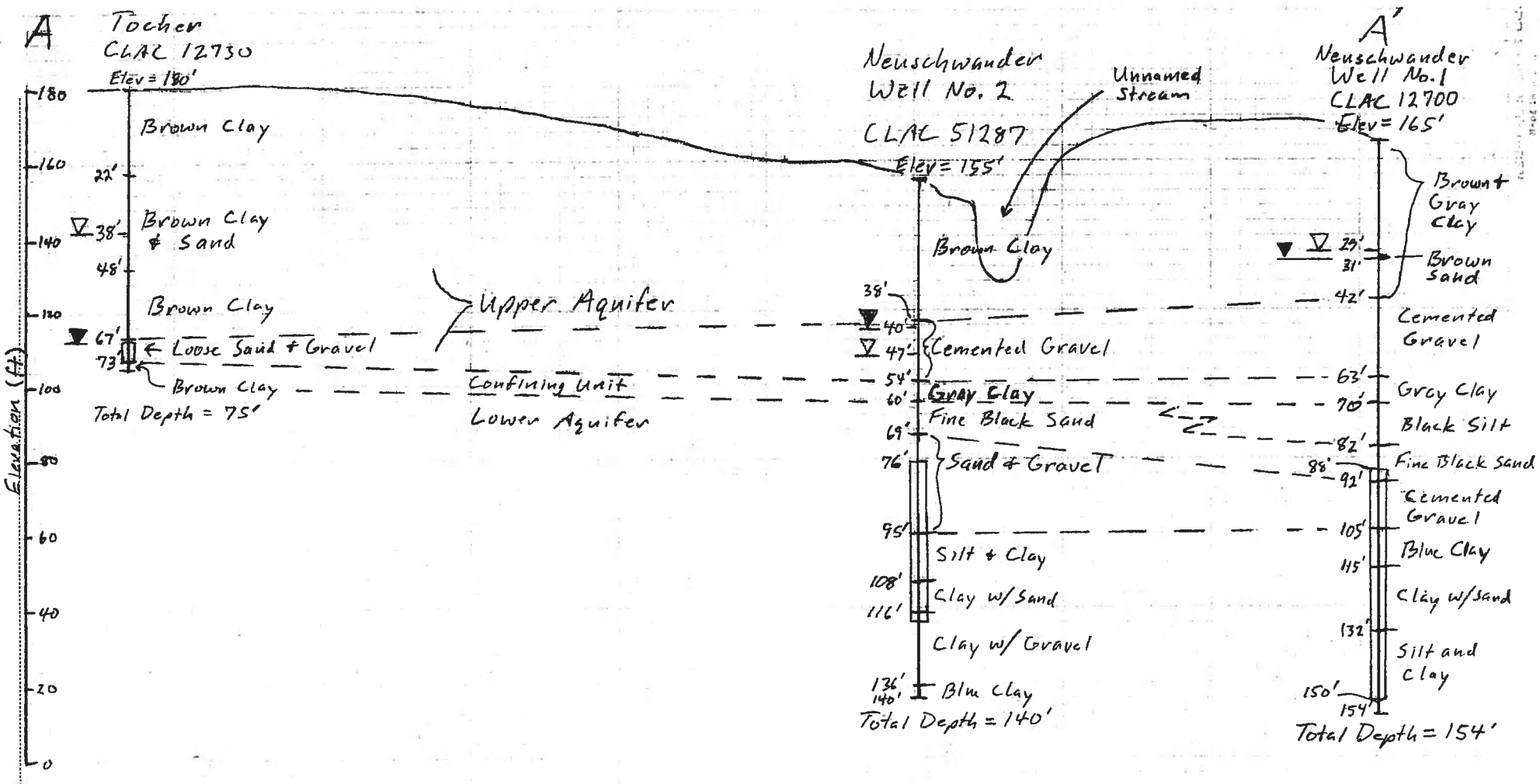


Figure 2 - Cross Section A-A'

Horizontal Scale: 1" = 600'
Vertical Scale: 1" = 40'
▼ Depth at which water first found
▽ Static water level
Perforated interval

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SUBJECT..... SHEET NO.....OF.....
JOB NO.....
DATE.....
CHKD. BY.....DATE.....

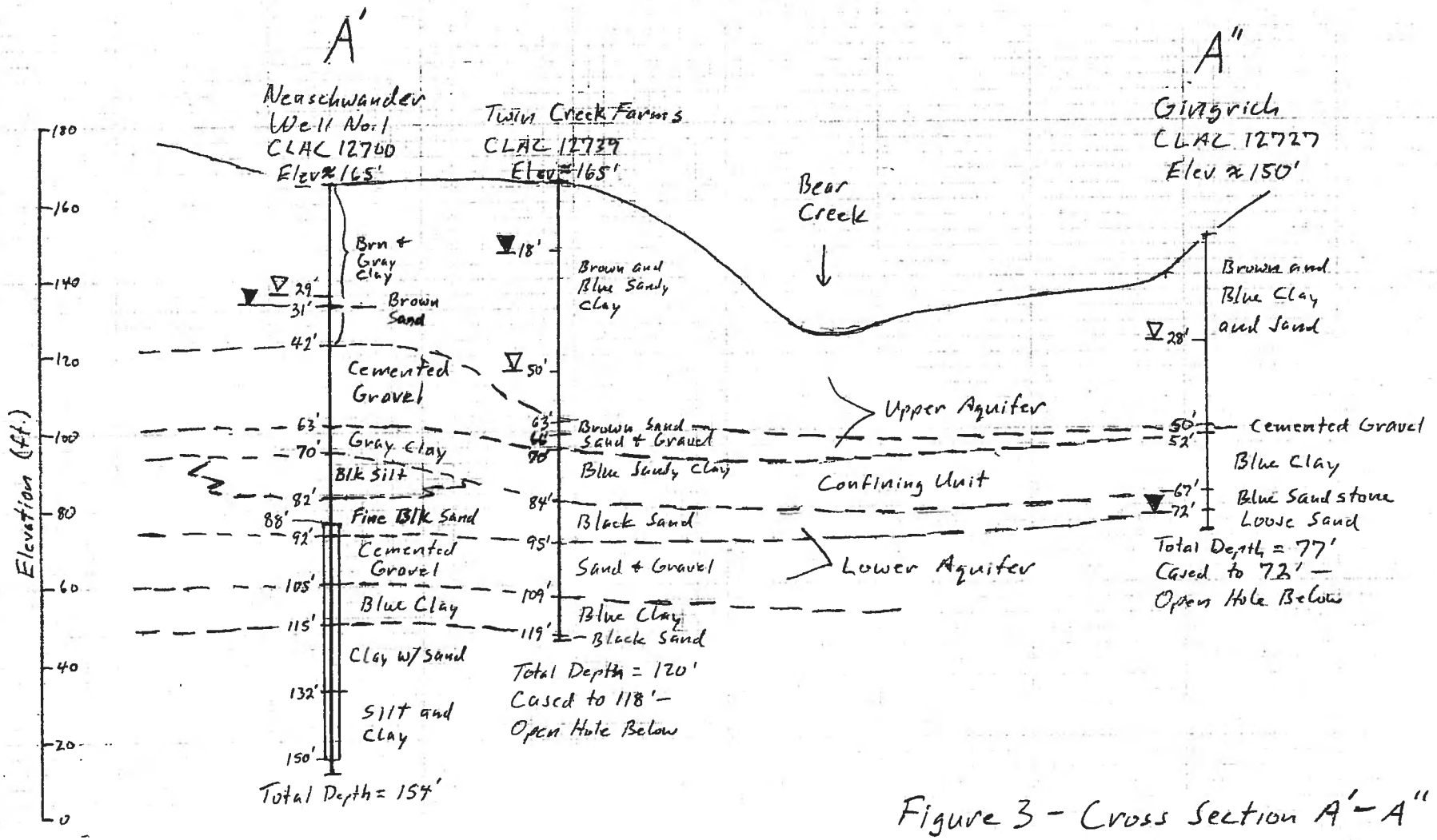


Figure 3 - Cross Section A'–A"

Horizontal Scale: 1" = 200'
Vertical Scale: 1" = 40'
▼ Depth at Which Water First Found
▽ Static Water Level
Perforated Interval

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JOB NO.
HKD. BY. DATE

Table 1. Well Log Information for Neuschwander Wells and Other Wells in Vicinity

Well Log I.D. No.		Legal/ Map No.	Tax Lot Number	Owner Last Name	Estimated Well Head Elevation (ft)*	Estimated Elev. at top of Clay Confining Unit (ft)	Estimated Elev. at bottom of Clay Confining Unit (ft)	Thickness of Clay Confining Unit (ft)
CLAC	12700	4 1E 32	903	Neuschwander	165	102	95	7
CLAC	51287	4 1E 32	900	Neuschwander	155	101	95	6
CLAC	12730	4 1E 32	1505	Tocher	180	107	Unknown	Unknown
CLAC	12713	4 1E 32	1507	Hansen	175	111	81	30
CLAC	12726	4 1E 32	1300	Galer	170	<100	Unknown	Unknown
CLAC	12739	4 1E 32	901	Hansen (now Neuschwander)	165	95	81	14
CLAC	12727	4 1E 32A	100	Gingrich	150	98	83	15
CLAC	12721	4 1E 32	207	Hunnicutt	180	<117	Unknown	Unknown
CLAC	51776	4 1E 32	51776	Martishev	155	81	58	23

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* Elevations are estimated from U.S.G.S. Topographic Map: Yoder Quadrangle, Oregon 7.5 Minute Series, 10-foot contour interval.

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RECEIVED JUN 27 1988 WATER RESOURCES DEPT. SALEM, OREGON

CLF 012700 Well 1 START CARD 530

4S/1E-32L

STATE OF OREGON WATER WELL REPORT

(as requi...

Well Number

(1) OWNER:

Name JOEL NEUSCHWANDER

Address 6059 S WHISKEY HILL RD

City HUBBARD State OR Zip

(2) TYPE OF WORK:

☑ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD

☐ Rotary Air ☐ Rotary Mud ☑ Cable

☐ Other

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☑ Irrigation

☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes ☐ No ☑ Depth of Completed Well 154 ft.

Explosives used Yes ☐ No ☐ Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
12	1	20	GRANULAR BENTONITE	1	20	11
8	20	154				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E

☑ Other GRANULAR BENTONITE METHOD

Backfill placed from ____ ft. to ____ ft. Material ____

Gravel placed from 25 ft. to 90 ft. Size of gravel PEA

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	154	.250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Location of shoe(s) 154

(7) PERFORATIONS/SCREENS:

☑ Perforations Method DRIVE DOWN

☐ Screens Type ____ Material ____

Slom	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
88	150	3/16 X 1 1/4	406			☑	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
500	46	PUMP	1 hr.
300	21	AIR LIFT	3

Temperature of water ____ Depth Artesian Flow Found ____

Was a water analysis done? ☐ Yes By whom ____

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____

Depth of strata: ____

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude ____ Longitude ____

Township 4S N or S, Range 1E E or W, WM.

Section 32 ____ ¼ SE ¼

Tax Lot ____ Lot ____ Block ____ Subdivision ____

Street Address of Well (or nearest address) S. NEEDY RD, CANBY

(10) STATIC WATER LEVEL:

29 ft. below land surface. Date 5/25/88

Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:

Depth at which water was first found 31

From	To	Estimated Flow Rate	SWL
82	102	800 GPM	30
115	132	500 GPM	30

(12) WELL LOG:

Ground elevation ____

Material	From	To	SWL
SOIL	1	3	
CLAY BROWN	3	31	
SAND BROWN	31	31	
CLAY GREY	31	42	
CEMENTED GRAVEL	42	63	
CLAY DK GREY	63	70	
SILT BLACK	70	82	
SAND BLACK FINE	82	92	
CEMENTED GRAVEL	92	105	
CLAY BLUE STICKY	105	115	
CLAY GREY W/ GREY SAND LAYERS	115	132	
CLAY GREEN	132	144	
SILT DARK BROWN.	144	147	
CLAY BLUE GREEN	147	154	
INITIALLY PERFORATED 115 TO 150 I AND PRODUCED 150 GPM, total. THEN GRAVEL PACKED 75-102 & 115-132, perforated 88' TO 115'. THEN PRODUCED 300 GPM WITH 21' DRAWDOWN.			

Date started 5/13/88 Completed 5/25/88

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number ____

Signed ____ Date ____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 245

Signed Richard Beck Date 5/25/88

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9808C 10/86

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OCT 21 2002

WATER RESOURCES DEPT.
SALEM, OREGON

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JAN - 9 1997

WATER RESOURCES DEPT.
SALEM, OREGON

Well 2

IAG # L02078

CLAC 51287

62424

(START CARD) #

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number

Name Neuschwander's Nursery

Address 6097 S. Whiskey Hill Rd

City Hubbard State Or Zip 97032

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[ ] Rotary Air [ ] Rotary Mud [X] Cable [ ] Auger

[ ] Other

(4) PROPOSED USE:

[ ] Domestic [ ] Community [ ] Industrial [X] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [ ] No Depth of Completed Well 140 ft.

Explosives used [ ] Yes [ ] No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12	1	50	Bentonite	1	50	35 sacks
8	50	140				

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E

[X] Other Granular Bentonite method

Backfill placed from ft. to ft. Material

Gravel placed from 60 ft. to 120 ft. Size of gravel pea

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	140	.25	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s) 140

(7) PERFORATIONS/SCREENS: Drive Down

[X] Perforations Method

[ ] Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
76	119	.188	600			[X]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

(8) WELL TESTS: Minimum testing time is 1 hour

[ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
		air line @	1 hr.
220		105	4 hr

Temperature of water 53 Depth Artesian Flow Found

Was a water analysis done? [ ] Yes By whom

Did any strata contain water not suitable for intended use? [ ] Too little

[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude Longitude

Township 4s N or S Range 1e E or W. WM.

Section 32 Se 1/4 Nw 1/4

Tax Lot 900 Lot Block Subdivision

Street Address of Well (or nearest address)

29435 S Needy Rd

(10) STATIC WATER LEVEL:

47 ft. below land surface. Date Sep 10, 1996

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 40

From	To	Estimated Flow Rate	SWL
40	140		47

(12) WELL LOG:

Ground Elevation

Material	From	To	SWL
Soil	1	3	
Clay, Brown	3	38	
Cemented gravel, brown	38	54	
Clay, grey	54	58	
Clay, grey, sandy	58	60	
Sand, black, fine	60	69	
Sand and gravel, black	69	71	
Cemented gravel, sand	71	74	
Sand & gravel	74	95	
Clay, blue	95	98	
clay, grey, silty	98	101	
Silt, dark grey	101	108	
Clay w/black coarse sand	108	116	
Clay, grey w/some cemented gravel	116	136	
Clay, blue	136	140	
Note: 6 inch gravel feed each side of			
8 inch well			

Date started August 8, 1996 Completed Dec 10, 1996

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number

Signed Date

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 243

Signed Richard Beck Date 1/8/97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

CLAC 012730

WATER WELL REPORT

STATE OF OREGON
(Please type or print)
(Do not write above this line)

RECEIVED
JAN 24 1977
WATER RESOURCES DEPT.
SALEM, OREGON

State Well No. 4S/1E-32CC
State Permit No. 7L 1505

(1) OWNER:
Name DICK JOEHER
Address 7171 S BERNARDS RD.
CANBY, OREGON

(2) TYPE OF WORK (check):
New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary [ ] Driven [ ]
Cable [X] Jetted [ ]
Dug [ ] Bored [ ]

(4) PROPOSED USE (check):
Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

CASING INSTALLED:
Threaded [ ] Welded [X]
6 " Diam. from 0 ft. to 68 ft. Gage .250"
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? [ ] Yes [X] No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? [X] Yes [ ] No
Manufacturer's Name JOHNSON
Type Model No.
Diam. 5 Slot size 45 Set from 68 ft. to 73 ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? [ ] Yes [X] No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test 15 gal./min. with 12 ft. drawdown after 1 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used BENTONITE
Well sealed from land surface to ± 20 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 0 sacks
Number of sacks of bentonite used in well seal 3 sacks
Brand name of bentonite NATIONAL
Number of pounds of bentonite per 100 gallons of water 200 lbs./100 gals.
Was a drive shoe used? [X] Yes [ ] No Plug Size: location ft.
Did any strata contain unusable water? [ ] Yes [X] No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? [ ] Yes [X] No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County CLACKAMAS Driller's well number 376
SW ¼ SW ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 67 ft.
Static level 38 ft. below land surface. Date 1/10/77
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing —
Depth drilled 75 ft. Depth of completed well 73 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
TOP SOIL	0	2	
BROWN CLAY	2	22	
BROWN CLAY AND SAND	22	48	
BROWN CLAY	48	67	
LOOSE SAND AND GRAVEL	67	73	38
BROWN CLAY	73	75	

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SALEM, OREGON

Work started 1/6 1977 Completed 1/10 1977
Date well drilling machine moved off of well 1/10 1977

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] O.E. Keller (Drilling Machine Operator) Date 1/12, 1977
Drilling Machine Operator's License No. 329

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name KELLER WELL DRILLING CO. (Person, firm or corporation) (Type or print)
Address 6350 SE BROWNLEE MILWAUKIE
[Signed] O.E. Keller (Water Well Contractor)
Contractor's License No. 462 Date 1/12, 1977

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

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WATER RESOURCES DEPT
SALEM, OREGON

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OCT - 4 1971
STATE ENGINEER
SALEM, OREGON

CLAC

WATER WELL REPORT

STATE OF OREGON (Please type or print)

State Well No. 4/1-32

012713

State Permit No. .....

(Do not write above this line)

NOTICE TO WATER WELL CONTRACTOR: The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON within 30 days from the date of completion.

(1) OWNER:

Name Don Hanson - Twin Creek Farms

Address Rt. Box 340, Canby, Ore. 97013

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

CASING INSTALLED:

Threaded ☐ Welded ☒

12 " Diam. from 0 ft. to 155 ft. Gage .250

18 " Diam. from 0 ft. to 60 ft. Gage .250

" Diam. from ..... ft. to ..... ft. Gage .....

PERFORATIONS:

Perforated? ☐ Yes ☒ No

Type of perforator used .....

Size of perforations ..... in. by ..... in.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

(7) SCREENS:

Well screen installed? ☒ Yes ☐ No

Manufacturer's Name Rossco Moss

Type Louivered Model No. .....

Diam. 12 Slot size 1/4 Set from 105 ft. to 155 ft.

Diam. ..... Slot size ..... Set from ..... ft. to ..... ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? .....

Yield: 500 gal./min. with 30 ft. drawdown after 5 hrs.

800 " 45 " 4 "

1000 " 70 " 10 "

Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.

Artesian flow ..... g.p.m.

Temperature of water ..... Depth artesian flow encountered ..... ft.

(9) CONSTRUCTION:

Well seal—Material used Bentonite - Cement Grout

Well sealed from land surface to 60 ft.

Diameter of well bore to bottom of seal 24 in.

Diameter of well bore below seal 12 in.

Number of sacks of cement used in well seal 8 sacks

Number of sacks of bentonite used in well seal 7 sacks

Brand name of bentonite National

Number of pounds of bentonite per 100 gallons of water ..... lbs./100 gals.

Was a drive shoe used? ☐ Yes ☒ No Plugs ..... Size: location ..... ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? ..... depth of strata .....

Method of sealing strata off .....

Was well gravel packed? ☒ Yes ☐ No Size of gravel: 1/4 - 3/4

Gravel placed from 60 ft. to 160 ft.

(10) LOCATION OF WELL:

County Clackamas Driller's well number .....

¼ ¼ Section 32 T. 4S R. 1E W.M.

Bearing and distance from section or subdivision corner .....

(11) WATER LEVEL: Completed well.

Depth at which water was first found 60 ft.

Static level 32 ft. below land surface. Date .....

Artesian pressure ..... lbs. per square inch. Date .....

(12) WELL LOG:

Diameter of well below casing 6"

Depth drilled 345 ft. Depth of completed well 165 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Topsoil-Brown	0	3	
Clay-Brown	3	20	
Clay-Blue	20	60	
Clay-Bl-Sandy-Blk-Fine-Water trace	60	64	
Clay-Br-Sand seams-Fine-Br	64	94	
Sand-Blk-Fine-Clay-Blue	94	125	
Sand-Blk-Fine-Gravel traces Fine-Clay-Blue	125	160	
Clay-Bl-Sand streaks-Fine gravel	160	180	
Sand-Blk-Claystone-Blue	180	190	
Clay-Green-Blue	190	195	
Clay-Blue	195	200	
Clay-Gray	200	230	
Claystone-Blue	230	275	
Gravel-Lrg-Clay-Blue	275	278	
Claystone-Blue	278	290	
Claystone-Gray-Blue	290	300	(Cont)

Work started 5-29 19 71 Completed 9-7 19 71

Date well drilling machine moved off of well 9-7 19 71

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Kenneth Skinner (Drilling Machine Operator) Date 9-25, 19 71

Drilling Machine Operator's License No. 277

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name S & M Drilling & Supply (Person, firm or corporation) (Type or print)

Address Rt. 1 Box 31, Canby, Ore. 97013

[Signed] Kenneth Skinner (Water Well Contractor)

Contractor's License No. 520 Date 9-25, 19 71

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

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OCT - 4 1971
STATE ENGINEER
SALEM OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

State Well No. 4/1-32

State Permit No. _____

(1) OWNER: (Cont.)

Name _____

Address _____

(2) TYPE OF WORK (check):

New Well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED: Threaded ☐ Welded ☐

_____" Diam. from _____ ft. to _____ ft. Gage _____
_____" Diam. from _____ ft. to _____ ft. Gage _____
_____" Diam. from _____ ft. to _____ ft. Gage _____

PERFORATIONS: Perforated? ☐ Yes ☐ No.

Type of perforator used _____

Size of perforations _____ in. by _____ in.

_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

(7) SCREENS: Well screen installed? ☐ Yes ☐ No

Manufacturer's Name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☐ No If yes, by whom?

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " "
" " " "

Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Artesian flow _____ g.p.m.

Temperature of water _____ Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used _____

Well sealed from land surface to _____ ft.

Diameter of well bore to bottom of seal _____ in.

Diameter of well bore below seal _____ in.

Number of sacks of cement used in well seal _____ sacks

Number of sacks of bentonite used in well seal _____ sacks

Brand name of bentonite _____

Number of pounds of bentonite per 100 gallons of water _____ lbs./100 gals.

Was a drive shoe used? ☐ Yes ☐ No Plugs _____ Size: location _____ ft.

Did any strata contain unusable water? ☐ Yes ☐ No

Type of water? _____ depth of strata _____

Method of sealing strata off _____

Was well gravel packed? ☐ Yes ☐ No Size of gravel: _____

Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County _____ Driller's well number _____

¼ ¼ Section _____ T. _____ R. _____ W.M.

Bearing and distance from section or subdivision corner _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found _____ ft.

Static level _____ ft. below land surface. Date _____

Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG: Diameter of well below casing _____

Depth drilled _____ ft. Depth of completed well _____ ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Claystone-Sandstone seams-Water	300	340	32
Sand-Fine-Gray-Blank	340	345	

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WATER RESOURCES DEPT.
SALEM, OREGON

Work started _____ 19 Completed _____ 19

Date well drilling machine moved off of well _____ 19

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Kenneth Spencer (Drilling Machine Operator) Date _____, 19____

Drilling Machine Operator's License No. _____

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name _____ (Person, firm or corporation) (Type or print)

Address _____

[Signed] Kenneth Spencer (Water Well Contractor)

Contractor's License No. _____ Date _____, 19____

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM 10, OREGON within 30 days from the date of well completion.

NOV 13 1962

WATER WELL REPORT

STATE OF OREGON
(Please type or print)

CLAC 012726

State Well No. 4/1-32

State Permit No. TL 1300

(1) OWNER:

Name John Galer,

Address Rt.2,Box 346,Canby,Ore.

(2) LOCATION OF WELL:

County Clackamas Driller's well number

¼ ¼ Section 32 T. 4S R. 1E W.M.

Bearing and distance from section or subdivision corner

750 Ft.North,300 Ft. West of S.E corner sec.32.

(3) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(6) CASING INSTALLED:

Threaded ☐ Welded ☒

6 " Diam. from 0 ft. to 70 ft. Gage _____

_____ " Diam. from _____ ft. to _____ ft. Gage _____

_____ " Diam. from _____ ft. to _____ ft. Gage _____

(7) PERFORATIONS:

Perforated? ☐ Yes ☐ No

Type of perforator used

Size of perforations _____ in. by _____ in.

_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

(8) SCREENS:

Well screen installed ☐ Yes ☐ No

Manufacturer's Name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(9) CONSTRUCTION:

Well seal—Material used in seal heavy mud and cement

Depth of seal 20 ft. Was a packer used? _____

Diameter of well bore to bottom of seal _____ in.

Were any loose strata cemented off? ☐ Yes ☒ No Depth _____

Was a drive shoe used? ☐ Yes ☐ No

Was well gravel packed? ☐ Yes ☐ No Size of gravel: _____

Gravel placed from _____ ft. to _____ ft.

Did any strata contain unusable water? ☐ Yes ☐ No

Type of water? Depth of strata

Method of sealing strata off

(10) WATER LEVELS:

Static level 27 ft. below land surface Date 10-29-62

Artesian pressure _____ lbs. per square inch Date

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? J.T.Miller

Yield: 50 gal./min. with 23 ft. drawdown after _____ hrs.

" " " "

" " " "

Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Artesian flow _____ g.p.m. Date _____

Temperature of water Was a chemical analysis made? ☐ Yes ☐ No

(12) WELL LOG:

Diameter of well below casing 6

Depth drilled 70 ft. Depth of completed well 70 ft.

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
surface	0	3
clay,yellow	3	23
clay,gray	23	42
clay,blue	42	63
coarse broken sand,gravel water	63	70

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WATER RESOURCES DEPT.
SALEM, OREGON

Work started 10-29- 19 62 Completed 10-31- 19 62

Date well drilling machine moved off of well 19

(13) PUMP:

Manufacturer's Name _____

Type: _____ H.P. _____

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME J.T.Miller (Person, firm or corporation) (Type or print)

Address Box 175,Aurora, Ore.

Drilling Machine Operator's License No. _____

[Signed] J.T.Miller (Water Well Contractor)

Contractor's License No. 101 Date 10-31, 19 62

(USE ADDITIONAL SHEETS IF NECESSARY)

7

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

CLAC
C12739

WATER WELL REPORT
STATE OF OREGON
(Please type or print) House Well
(Do not write above this line)

State Well No. 4S/1E-33dc
State Permit No.

(1) OWNER:
Name TWIN CREEK Farms DON HANSON
Address 29385 S. Needy Rd.
Canby, Oregon 97013

(2) TYPE OF WORK (check):
New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary [X] Driven [ ]
Cable [ ] Jetted [ ]
Dug [ ] Bored [ ]

(4) PROPOSED USE (check):
Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

CASING INSTALLED:
Threaded [ ] Welded [X]
6" Diam. from 0 ft. to 118 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? [ ] Yes [X] No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? [ ] Yes [X] No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? [ ] Yes [X] No If yes, by whom?
Yield: 45 gal./min. with total ft. drawdown after 1 hrs.
AIR ROTARY " " "
" " " "
Baller test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used cement
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 7 sacks
How was cement grout placed? pressure grouted
Was a drive shoe used? [X] Yes [ ] No Plugs Size: location ft.
Did any strata contain unusable water? [ ] Yes [X] No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? [ ] Yes [X] No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County CLACKAMAS Driller's well number D-247-79
SW ¼ SE ¼ Section 33 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 18 ft.
Static level 50 ft. below land surface. Date 2-25-79
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6"
Depth drilled 120 ft. Depth of completed well 120 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
topsoil	0	1	
clay sandy brown	1	28	
clay sandy blue	28	63	
sand brown	63	66	
clay sand & gravel brown medium	66	70	
clay sandy blue	70	84	
sand black	84	95	
sand & gravel blue med.	95	109	
clay blue	109	119	
sand black	119		50

RECEIVED
AUG 2 - 1979
WATER RESOURCES DEPT
SALEM, OREGON

RECEIVED
OCT 1 1 2002
WATER RESOURCES DEPT.
SALEM, OREGON

Work started 7-24 19 79 Completed 7-25 19 79
Date well drilling machine moved off of well 7-25 19 79

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Stephen J Miller (Drilling Machine Operator) Date 7-31, 1979
Drilling Machine Operator's License No. 1290

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name S & M DRILLING & SUPPLY, INC. (Person, firm or corporation) (Type or print)
Address 399 S.E. Walnut St. Canby, Or.
[Signed] Walter Mac (Water Well Contractor)
Contractor's License No. 497 Date 7-31, 19 79

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45658-119

RECEIVED
OCT 21 2002
WATER RESOURCES DEPT
SALEM, OREGON

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of completion.

CLAC 01227 NOV

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

RECEIVED
APR 29 1977
WATER RESOURCES DEPT.
SALEM, OREGON

State Well No. 4S/1E-32aa
State Permit No.

(1) OWNER:
Name DOUG GINGERICH
Address RT 1 Box 118
HUBBARD OREGON 97032

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☒
10" Diam. from +1 ft. to 72 ft. Gage .250"
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☒ Yes ☐ No
Manufacturer's Name JOHNSON
Type Model No.
Diam. 5 Slot size 10 Set from 72 ft. to 77 ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test 35 gal./min. with 9 ft. drawdown after 1 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used BENTONITE
Well sealed from land surface to 23 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 9 sacks
Number of sacks of bentonite used in well seal 4 sacks
Brand name of bentonite NATIONAL
Number of pounds of bentonite per 100 gallons of water 200 lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County CLACKAMAS Driller's well number 384
NE ¼ NE ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 72 ft.
Static level 28 ft. below land surface. Date 4/26/77
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing
Depth drilled 77 ft. Depth of completed well 77 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
TOP SOIL	0	2	
BROWN CLAY	2	13	
SAND AND BROWN CLAY	13	29	
BLUE CLAY	29	31	
BROWN CLAY AND SAND	31	41	
BLUE CLAY	41	50	
CEMENTED GRAVEL	50	52	
BLUE CLAY	52	67	
SOFT BLUE SANDSTONE	67	72	
LOOSE SAND	72	77	28

Work started 4/22 19 77 Completed 4/26 19 77
Date well drilling machine moved off of well 4/27 19 77

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] C K Keller (Drilling Machine Operator) Date 4/27, 19 77
Drilling Machine Operator's License No. 329

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name KELLER WELL DRILLING CO. (Person, firm or corporation) (Type or print)
Address 6350 SE BROWNLEE, MILWAUKIE
[Signed] C K Keller (Water Well Contractor)
Contractor's License No. 462 Date 4/27, 19 77

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the
STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

CLAC 012721

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

RECEIVED
JUN 22 1973
STATE ENGINEER
SALEM OREGON

State Well No. 4S/1E-32
State Permit No. 20/07202

(1) OWNER:
Name Richard Hunnicut
Address Rt 2 Box 124-A, Canby, Oregon

(2) TYPE OF WORK (check):
New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary [X] Driven [ ]
Cable [ ] Jetted [ ]
D[illegible] [ ] Bored [ ]

(4) PROPOSED USE (check):
Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(5) CASING INSTALLED:
Threaded [ ] Welded [X]
6 " Diam. from 0 ft. to 57 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:
Perforated? [ ] Yes [X] No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? [ ] Yes [X] No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? [ ] Yes [X] No If yes, by whom?
[illegible]d: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test 25 gal./min. with 27 ft. drawdown after 1 hrs.
[illegible]esian flow g.p.m.
[illegible]perature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal sacks
Number of sacks of bentonite used in well seal 3 sacks
Brand name of bentonite Wilbur Ellis
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? [X] Yes [ ] No Plugs Size: location ft.
Did any strata contain unusable water? [ ] Yes [X] No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? [ ] Yes [X] No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number 2011 202
¼ ¼ Section 32 T. 4S R. 1E 203 W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 55 ft.
Static level 30 ft. below land surface. Date 5/3/73
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6
Depth drilled 64 ft. Depth of completed well 63 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Soil, Brown	0	2	
Clay, Brown	2	28	
Clay, Gray	28	35	
River Rock, Cemented	35	55	
Sand, Gravel, WB	55	63	30

RECEIVED
OCT 21 2002
WATER RESOURCES DEPT.
SALEM, OREGON

Work started 5/3/73 19 Completed 5/3/73 19
Date well drilling machine moved off of well 5/3/73 19

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] H. B. Blackman (Drilling Machine Operator) Date 5/9/73, 19
Drilling Machine Operator's License No. 681

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name Harvey Blackman (Person, firm or corporation) (Type or print)
Address Rt 1 Box 181K, Mulino, Oregon
[Signed] Harvey Blackman (Water Well Contractor)
Contractor's License No. 537 Date 5/9/73, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45636-119

RECEIVED

RECEIVED JUN - 2 1997

OCT 2 1997

STATE OF OREGON

WATER RESOURCES DEPT.
SALEM, OREGON

Skyles Drilling, Inc.
1169 Molalla Ave.
Oregon City, OR 97045
656-2683

CLAC 5N 1E

L09629

WATER SUPPLY WELL REPORT

(as required by ORS 537.765)

(START CARD) # 98083

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 01

Name Tony Martishey

Address 1040 Tierra Lynn Dr.

City Woodburn State Or. Zip 97071

(2) TYPE OF WORK

☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:

☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger

☒ Other Holte

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation

☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval ☐ Yes ☒ No Depth of Completed Well 235 ft.

Explosives used ☐ Yes ☒ No Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12"	0	18	Bentonite	18	0	16 sacks
9 1/2"	18	250				
9 1/2"	216	225	Cement	223	216	6 sacks

How was seal placed: Method ☐A ☐B ☐C ☐D ☐E

☒ Other Bent Poured/Cement pumped

Backfill placed from 250 ft. to 235 ft. Material 3/8" gravel

Gravel placed from ____ ft. to ____ ft. Size of gravel 18 sacks

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8"	+2	229	250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	None				☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) None

(7) PERFORATIONS/SCREENS:

☐ Perforations Method ____

☐ Screens Type ____ Material ____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
None						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
200		220	1 hr.

Temperature of water 56° Depth Artesian Flow Found ____

Was a water analysis done? ☐ Yes By whom ____

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____

Depth of strata: ____

(9) LOCATION OF WELL by legal description:

County Clackamas Latitude ____ Longitude ____

Township 4 South N or S Range 1 East E or W. WM.

Section 32 NW 1/4 NW 1/4

Tax Lot 500 Lot ____ Block ____ Subdivision ____

Street Address of Well (or nearest address) S. Barlow Canby, Or.

(10) STATIC WATER LEVEL:

30 ft. below land surface. Date 5-17-97

Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:

Depth at which water was first found 57'

From	To	Estimated Flow Rate	SWL
57'	74'	40	30
97'	112'	100	30
223'	249'	200	30

(12) WELL LOG:

Ground Elevation ____

Material	From	To	SWL
Clay Brown Sandy	0	6	
Clay Brown	6	57	
Sand Brown	57	74	
Clay Gray	74	97	
Sand Gray Med Some Gravel	97	112	
Clay Gray	112	223	
Sand Cemented Gray Med	223	249	30
Clay Gray	249	250	

Date started 5-8-97 Completed 5-17-97

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number 553

Signed [signature] Date 5-23-97

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 1592

Signed [signature] Date 5-23-97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

STATE OF OREGON
Water Resources Department
158 12th St. N.E.
Salem, OR 97310

MEMORANDUM

DATE: 10/30/2002

TO: File G-15567
FROM: Donn Miller, Hydrogeologist (503.378.8455 x205)

SUBJECT: Well Enforcement Request Evaluation

I have spoken to Tracy Eichenlaub of enforcement, reviewed the captioned file and studied the request for enforcement on well construction letter dated 10/18/2002.

Malia and Gregory Kupillas wrote the request letter on behalf of the applicant, Joel Neuschwander. Most certainly, the request wishes to accomplish more than just well reconstruction at the driller's expense. The application seeks 720 gpm from two wells for nursery use. The application has been impeded based on my analysis of gw/sw interactions per basin rule and division 9 assessments and surface water availability limitations. From the letter, I must assume that the request is ultimately part of the permitting objective of the application.

If the real interest is permitting, I will jump ahead to that issue. I am not confident that the reconstruction solves the permit issuance problem. I indicated in my email to Malia on July 22, 2002 that the well construction issue is separate from the division 9 issue (sw/gw interaction assessment). Based on the request and my reconsideration of the file, I confirm that position. Development will interfere with surface water flows in Bear creek and the nearby tributary. **I conclude that the proposed well reconstruction will not be sufficient for the application to obtain a favorable gw/sw interaction assessment per division 9.**

In my view, there is some merit in the request for accomplishing proper well construction. Frankly, the cross-sectional analysis doesn't do much for me. The upper aquifer/lower aquifer matter is still debatable. My focus would be on the internal inconsistencies on the well reports. For well #1 (CLAC 12700), what's the deal with first water at 31 feet, two water bearing-zones with 30' swl's and the resulting swl of 29 feet. Based on that, the perceived well misconstruction would seem to be improper sealing off an upper aquifer. For well #2 (CLAC 51287), how do you get first water at 40 feet, seal to 50 feet, take from that first water unit (38-54 feet) and deeper units, and get a final swl of 47 feet? Some commingling seems to be occurring at face value. The well start and completion dates seem odd but could play into the construction issue somehow. I have no views on the matter of continued driller responsibility.

Taking these matters as a whole, the outlook for ground water permitting is bleak and the well reconstruction matter is pretty much off point to that.

RECEIVED

JAN - 9 1997

WATER RESOURCES DEPT.
SALEM, OREGON

TAG # L02028

CLAC 5128 7

62424

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

(START CARD) # _____

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number _____

Name Neuschwander's Nursery

Address 6097 S. Whiskey Hill Rd

City Hubbard State Or Zip 97032

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[ ] Rotary Air [ ] Rotary Mud [X] Cable [ ] Auger

[ ] Other _____

(4) PROPOSED USE:

[ ] Domestic [ ] Community [ ] Industrial [X] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other _____

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [ ] No Depth of Completed Well 140 ft.

Explosives used [ ] Yes [ ] No Type _____ Amount _____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12	1	50	Bentonite	1	50	35 sacks
8	50	140				

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E

[X] Other Granular Bentonite method

Backfill placed from _____ ft. to _____ ft. Material _____

Gravel placed from 60 ft. to 120 ft. Size of gravel pea

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	140	.25	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s) 140

(7) PERFORATIONS/SCREENS: Drive Down

[X] Perforations Method _____

[ ] Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
76	119	.188	600			[X]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

(8) WELL TESTS: Minimum testing time is 1 hour

[ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
		air line @	1 hr.
220		105	4 hr

Temperature of water 53 Depth Artesian Flow Found _____

Was a water analysis done? [ ] Yes By whom _____

Did any strata contain water not suitable for intended use? [ ] Too little

[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other _____

Depth of strata: _____

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude _____ Longitude _____

Township 4s N or S Range 1e E or W. WM.

Section 32 Se 1/4 Nw 1/4

Tax Lot 900 Lot _____ Block _____ Subdivision _____

Street Address of Well (or nearest address) _____

29435 S Needy Rd

(10) STATIC WATER LEVEL:

47 ft. below land surface. Date Sep 10, 1996

Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 40

From	To	Estimated Flow Rate	SWL
40	140		47

(12) WELL LOG:

Ground Elevation _____

Material	From	To	SWL
Soil	1	3	
Clay, Brown	3	38	
Cemented gravel, brown	38	54	
Clay, grey	54	58	
Clay, grey, sandy	58	60	
Sand, black, fine	60	69	
Sand and gravel, black	69	71	
Cemented gravel, sand	71	74	
Sand & gravel	74	95	
Clay, blue	95	98	
clay, grey, silty	98	101	
Silt, dark grey	101	108	
Clay w/black coarse sand	108	116	
Clay, grey w/some cemented gravel	116	136	
Clay, blue	136	140	
Note: 6 inch gravel feed each side of 8 inch well			

Date started August 8, 1996 Completed Dec 10, 1996

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number _____

Signed _____ Date _____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 243

Signed Richard Burk Date 1/4/97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

RECEIVED

JUN 27 1988

WATER RESOURCES DEPT.
SALEM, OREGON

CL 012700

START CARD 530

4S/1E-32

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

Well Number

(1) OWNER:
Name JOEL NEUSCHWANDER
Address 6059 S WHISKEY HILL RD
City HUBBARD State OR Zip

(2) TYPE OF WORK:
☑ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☐ Rotary Air ☐ Rotary Mud ☑ Cable
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☑ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☑ Depth of Completed Well 154 ft.
Explosives used Yes ☐ No ☐ Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks ~~or pounds~~
12	1	20	GRANULAR	1	20	11
			BENTONITE			
8	20	154				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☑ Other GRANULAR BENTONITE METHOD
Backfill placed from ____ ft. to ____ ft. Material ____
Gravel placed from 75 ft. to 90 ft. Size of gravel PEA

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	154	.250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Location of shoe(s) 154

(7) PERFORATIONS/SCREENS:
☑ Perforations Method DRIVE DOWN
☐ Screens Type ____ Material ____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
88	150	3/16 X 1 1/4	400			☑	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
500	46	PUMP	1 hr.
300	21	AIR LIFT	3

Temperature of water ____ Depth Artesian Flow Found ____
Was a water analysis done? ☐ Yes By whom ____
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____
Depth of strata: ____

(9) LOCATION OF WELL by legal description:
County CLACKAMAS Latitude ____ Longitude ____
Township 4S N or S, Range 1E E or W, WM.
Section 32 ____ ¼ SE ¼
Tax Lot ____ Lot ____ Block ____ Subdivision ____
Street Address of Well (or nearest address) S. NEEDY RD, CANBY

(10) STATIC WATER LEVEL:
29 ft. below land surface. Date 5/25/88
Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:
Depth at which water was first found 31

From	To	Estimated Flow Rate	SWL
82	102	800 GPM	30
115	132	500 GPM	30

(12) WELL LOG:
Ground elevation ____

Material	From	To	SWL
SOIL	1	3	
CLAY BROWN	3	31	
SAND BROWN	31	31	
CLAY GREY	31	42	
CEMENTED GRAVEL	42	63	
CLAY DK GREY	63	70	
SILT BLACK	70	82	
SAND BLACK FINE	82	92	
CEMENTED GRAVEL	92	105	
CLAY BLUE STICKY	105	115	
CLAY GREY W/ GREY SAND LAYERS	115	132	
CLAY GREEN	132	146	
SILT DARK BROWN.	146	147	
CLAY BLUE GREEN	147	154	
INITIALLY PERFORATED 115 TO 150' AND PRODUCED 150 GPM, total. THEN GRAVEL PACKED 75-102 & 115-132, perforated 88' TO 115'. THEN PRODUCED 300 GPM WITH 21' DRAWDOWN.			

Date started 5/13/88 Completed 5/25/88

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number ____
Signed ____ Date ____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 243
Signed Richard Beck Date 6/25/88

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9809C 10/86

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MAY 1 1988

WATER RESOURCES DEPT.
SALEM, OREGON

"START CARD"

NOTICE OF BEGINNING OF WELL CONSTRUCTION

(as required by ORS 537.762)

This form must be completed, signed by both the owner (or authorized agent) and constructor, and the original delivered to the Water Resources Department prior to commencement of construction, alteration or abandonment of each well.

Owner's Name and Mailing Address: JOEL NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD OR.

Proposed Commencement Date: MAY 12, 1988

Proposed Well Depth: 160 Diameter: 8

and Use:
☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other

Proposed Well Location: County: CLACKAMAS

Township: 4 S (N or S) Range: 1 E (E or W) Section: 32

At least 2 of these must be provided:
1: ___ 1/4 of SE 1/4 of above section
2. street address of well location:
3. tax lot number of well location:
4. attach approved map with location identified. (see reverse of this form for approved maps)

We hereby certify that we have read the back of this form, and that to the best of our knowledge the information provided herein is accurate and the well is being properly located from septic tanks and septic drain fields.

x Joel Neuschwander
Owner's Signature

Owner
Title

4/16/88
Date

x Richard Beck
Bonded Water Well Constructor

License No. 743

Company BECK WELL DRILLING

Note: This is not a Water Right application. The owner is responsible for obtaining a Water Right through the Water Resources Department if required.

Form 537.762 1987

STATE OF OREGON
Water Resources Department
158 12th St. N.E.
Salem, OR 97310

MEMORANDUM

DATE: 11/20/2002

TO: File G-15567, Joel Neuschwander
FROM: Donn Miller, Hydrogeologist (503.378.8455 x205) DM
SUBJECT: GW/SW Considerations Affirmed

The applicant has not proposed to modify his application. There is an implication of such in the Kupillas' letter of 10/18/02. The purpose of this memo is to address the issue in advance of an application amendment and to package that information with the reconstruction request response.

The "proposed" reconstruction will not alter my conclusion that the application proposal will have the potential for substantial interference with surface water. The wells would still develop a source that is hydraulically connected with Bear Creek or a tributary of Bear Creek.

STATE OF OREGON
Water Resources Department
158 12th St. N.E.
Salem, OR 97310

MEMORANDUM

DATE: 10/30/2002

TO: File G-15567
FROM: Donn Miller, Hydrogeologist (503.378.8455 x205)

SUBJECT: Well Enforcement Request Evaluation

I have spoken to Tracy Eichenlaub of enforcement, reviewed the captioned file and studied the request for enforcement on well construction letter dated 10/18/2002.

Malia and Gregory Kupillas wrote the request letter on behalf of the applicant, Joel Neuschwander. Most certainly, the request wishes to accomplish more than just well reconstruction at the driller's expense. The application seeks 720 gpm from two wells for nursery use. The application has been impeded based on my analysis of gw/sw interactions per basin rule and division 9 assessments and surface water availability limitations. From the letter, I must assume that the request is ultimately part of the permitting objective of the application.

If the real interest is permitting, I will jump ahead to that issue. I am not confident that the reconstruction solves the permit issuance problem. I indicated in my email to Malia on July 22, 2002 that the well construction issue is separate from the division 9 issue (sw/gw interaction assessment). Based on the request and my reconsideration of the file, I confirm that position. Development will interfere with surface water flows in Bear creek and the nearby tributary. **I conclude that the proposed well reconstruction will not be sufficient for the application to obtain a favorable gw/sw interaction assessment per division 9.**

In my view, there is some merit in the request for accomplishing proper well construction. Frankly, the cross-sectional analysis doesn't do much for me. The upper aquifer/lower aquifer matter is still debatable. My focus would be on the internal inconsistencies on the well reports. For well #1 (CLAC 12700), what's the deal with first water at 31 feet, two water bearing-zones with 30' swl's and the resulting swl of 29 feet. Based on that, the perceived well misconstruction would seem to be improper sealing off an upper aquifer. For well #2 (CLAC 51287), how do you get first water at 40 feet, seal to 50 feet, take from that first water unit (38-54 feet) and deeper units, and get a final swl of 47 feet? Some commingling seems to be occurring at face value. The well start and completion dates seem odd but could play into the construction issue somehow. I have no views on the matter of continued driller responsibility.

Taking these matters as a whole, the outlook for ground water permitting is bleak and the well reconstruction matter is pretty much off point to that.

X-Originating-IP: [172.193.76.88]
From: "Scott Ashcom" <ashcoms@msn.com>
To: <jerry.w.gainey@wrd.state.or.us>
Subject: G-15567
Date: Fri, 14 Jun 2002 12:17:04 -0700
X-Mailer: MSN Explorer 7.00.0021.1900
X-Security: MIME headers sanitized on funnel
See http://www.impsec.org/email-tools/sanitizer-intro.html
for details. $Revision: 1.133 $Date: 2002-01-05 17:09:21-08
X-OriginalArrivalTime: 14 Jun 2002 19:19:41.0701 (UTC) FILETIME=[6F107B50:01C213D8]

14 June 2002
To: Jerry Gainey
From: Scott Ashcom
Agent for Joel Nueschwander

Jerry:
Please open the attachment. Thank you.

- Scott Ashcom

Get more from the Web. FREE MSN Explorer download : http://explorer.msn.com


Nueschwander Letter Mid-June.doc

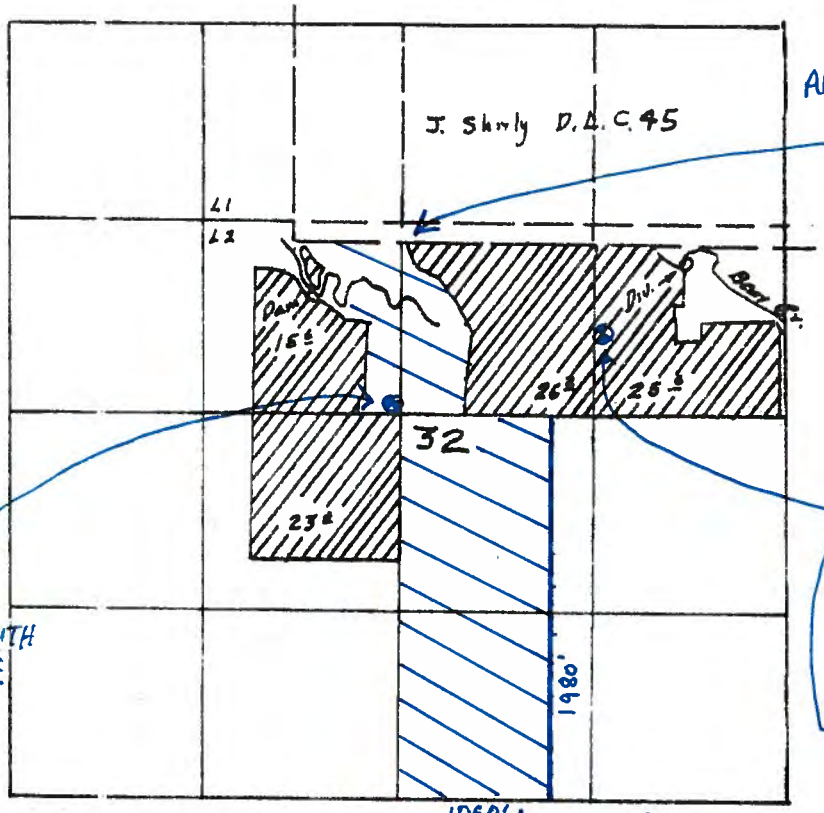
APPLICANT:
JOEL NEUSCHWANDER
6097 S. WHISKEY HILL Rd.
HUBBARD, OR 97032
(503) 651-3253

T. 4 S., R. 1 E., W.M.
SECTION 32

N

(1" = 1320')

appl. MAP



AREA TO BE IRRIGATED IN TAX LOT 900:
13.8 acres in SW1/4 NE1/4
PLUS 24.4 acres in SE1/4 NW1/4.
TOTAL: 37.4 acres

WELL No. 1 is 1,250' from the EAST LINE of the SECTION (32) AND 550' from the SOUTH LINE of the SE1/4 NE1/4 Sec. 32.

WELL No. 2 is 50' WEST & 50' SOUTH of the SE CORNER of the NW1/4 of SECTION 32.

AREA TO BE IRRIGATED IN TAX LOT 1401:
47.69 acres ⇒ 23.845 ac in NW1/4 SE1/4, AND 23.845 ac. in ~~the SW1/4 SE1/4~~

Application No. G-15567
Permit No.

89 acres: = LANDS IRRIGATED UNDER CERTIFICATE 20401 (PERMIT No. 16827) (APP. No. 21449)

= LANDS TO BE IRRIGATED UNDER PERMIT G-15567 WITH THIS APPLICATION.
85.69 acres.

[redacted]

INCLUDING: App. No 21449 Permit No. 16827
IN NAME OF
I. R. Hanson

Surveyed July 8 1963 by H. L. Coffman

AND NEW LANDS.

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SALEM, OR

[redacted]

copied by L

Pacific Hydro-Geology Inc.
18477 S. Valley Vista Rd.
Mulino, OR 97042
(503) 632-5016

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time out til Dec. 17, 02
prop denied substantial interference
talked to Dawn 10-28, he'll talk w/ Fred

October 18, 2002

Oregon Water Resources
Ms. Tracy Eichenlaub
158 12th Street NE
Salem, Oregon 97310-0210

Re: Request for enforcement on well construction for two wells proposed for use under Water Right Application G-15567

Dear Ms. Eichenlaub:

The purpose of this letter is to submit information on behalf of Mr. Joel Neuschwander, the applicant for ground water Application G-15567, for an evaluation of the construction of two wells (CLAC 12700 and CLAC 51287). If the construction of these two wells (Neuschwander wells) is found to be in violation of state laws, we would request enforcement action against the driller who constructed the wells. The Department has recommended that Application G-15567 be denied because of potential interference with nearby streams. This determination is documented in Proposed Final Order dated April 9, 2002, in which the Neuschwander wells are identified as Well 1 (CLAC 12700) and Well 2 (CLAC 51287).

We have reviewed the well construction reports for the two wells and have determined that the wells were not properly sealed to prevent commingling of groundwater between the uppermost water-bearing zone(s) and the deeper, water bearing intervals over which the wells are screened. Copies of the Water Well Reports for these two wells (CLAC 12700 and CLAC 51287) are attached. Figure 1 shows the locations of the Newschwander wells and several other wells we have identified in the area. Cross sections including the two Neuschwander wells and three other wells (CLAC 12730, CLAC 12739, and CLAC 12727) are shown on Figures 2 and 3 to provide a picture of the subsurface geology. Figure 1 shows the locations of the cross-sections.

Based on our review of the well logs for the Neuschwander wells and other wells in the surrounding area, we believe there is a continuous layer of clay and/or silt that separates an upper, water-bearing strata from a deeper aquifer throughout the area surrounding the two wells of concern. The locations of the wells we have identified in the area are shown on Figure 1. Table 1 provides information from the logs for the wells shown on Figure 1, including the thickness and approximate elevation of the clay layer identified. Copies of the well logs are attached with this letter. Elevations for these wells have been estimated from a U.S.G.S. topographic map.

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Figure 2 (Cross Section A-A') shows the Tocher well (CLACK 12730) obtains water from the upper aquifer, with the bottom of the well ending in the clay that can be identified in both Neuschwander wells and other wells in the area. The driller noted in both Neuschwander wells that water was first encountered in the first gravel that correlates with the upper aquifer. In Well 1 (CLACK 12700), water was first encountered at 31 feet. In Well 2 (CLACK 51287), water was first found at 40 feet. The driller did not report a static water level for the upper aquifer in the log for Well 1, and he reported a single static water level for all the water bearing zones in Well 2. Based on elevations, it appears the upper aquifer is connected with Bear creek, located to the northwest of Neuschwander Well 1, and the unnamed stream located between the two Neuschwander wells. Therefore, the upper aquifer would be expected to have a different static water level than the deeper aquifer. Recent studies by the Department in the Willamette Basin have identified that there are separate aquifers having different static water levels within the Willamette Valley alluvial aquifer system. However, some drillers continue to report one static water level measurement for all the zones.

Based on recent discussions with Fred Lissner and Donn Miller, we believe that the ground water application would be approved if the upper water-bearing strata in these two wells could be isolated from the deeper water bearing zones by the placement of properly constructed well seals. Therefore, the potential for interference with nearby streams is a function of the construction of the two Neuschwander wells.

Our determination that these wells are improperly constructed is based on the following:

Neuschwander Well 1 (CLAC 12700). The driller reported first encountering ground water at a depth of 31 feet below land surface (bls). This first encountered ground water appears to occur within a thin layer of sand at a depth of 31 feet bls. A cemented gravel is also noted in the log from 42 feet to 63 feet. Based on the logs from other wells in the area, we understand that the cemented gravel serves as a source of ground water for shallow wells. Therefore, it appears that there is an upper aquifer in this well between 31 and 63 feet bls that may be connected with the nearby streams. The driller did not report a static water level for this apparent water-bearing zone.

According to the log, the primary water bearing zones occur from 82 to 102 feet bls and from 115 to 132 feet bls, corresponding to the lower aquifer. The driller noted the same static water level of 30 feet bls for both of these intervals. The two primary water-bearing intervals are separated from the overlying cemented gravel (upper aquifer) by a 19-feet-thick layer of clay and silt that extends from 63 feet to 82 feet bls. The well is perforated over the interval of 88 to 150 feet bls; however, the well seal was placed only to a depth of 20 feet bls. Therefore, the well seal does not extend into the clay and silt layer, nor does it adequately seal off the shallow water-bearing zone(s) which occur from 31 to 63 feet bls. The construction of this well appears to violate OAR 690-200-0043 and OAR 690-210-0140.

Neuschwander Well 2 (CLAC 51287). The driller reported first encountering ground water at a depth of 40 feet below land surface (bls). This first encountered ground water appears to occur within a layer of cemented gravel found at depths between 38 and 54 feet bls (this cemented gravel appears to correspond with the cemented gravel layer in Well 1 from 42 to 63 feet bls and, therefore, represents the upper aquifer). The driller did not report a static water level for this water-bearing zone.

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The driller reported the water-bearing zone from 40 to 140 feet bls. Based on the perforated interval, from 76 to 119 feet bls, it appears that the primary water-bearing deposits in this well include the sands and gravels which occur between 60 and 95 feet (lower aquifer). These sand and gravel layers appear to correspond to the primary water-bearing zones identified by the driller in Well 1. Also, as in Well 1, these sands and gravel units are separated from the overlying cemented gravel by a 6-feet-thick layer of clay which extends from 54 to 60 feet bls. The well seal was placed only to a depth of 50 feet bls. Therefore, this seal does not extend into the clay layer (54 to 60 feet bls) that separates the upper, water-bearing cemented gravel from the deeper sands and gravel which serve as the primary water-bearing aquifer for this well. The construction of this well appears to violate OAR 690-200-0043 and OAR 690-210-0140.

We request that you review the well construction details of the two wells (CLAC 12700 and CLAC 51287) together with the cross-sections, tabulated well data, and well logs attached with this letter and make a determination whether enforcement action is warranted.

Please call Malia Kupillas, Pacific Hydro-Geology Inc., at (503) 632-5016 if you have any questions.

Sincerely,

Malia R. Kupillas

Malia R. Kupillas R.G., C.W.R.E.

Gregory E. Kupillas, R.G., C.W.R.E.

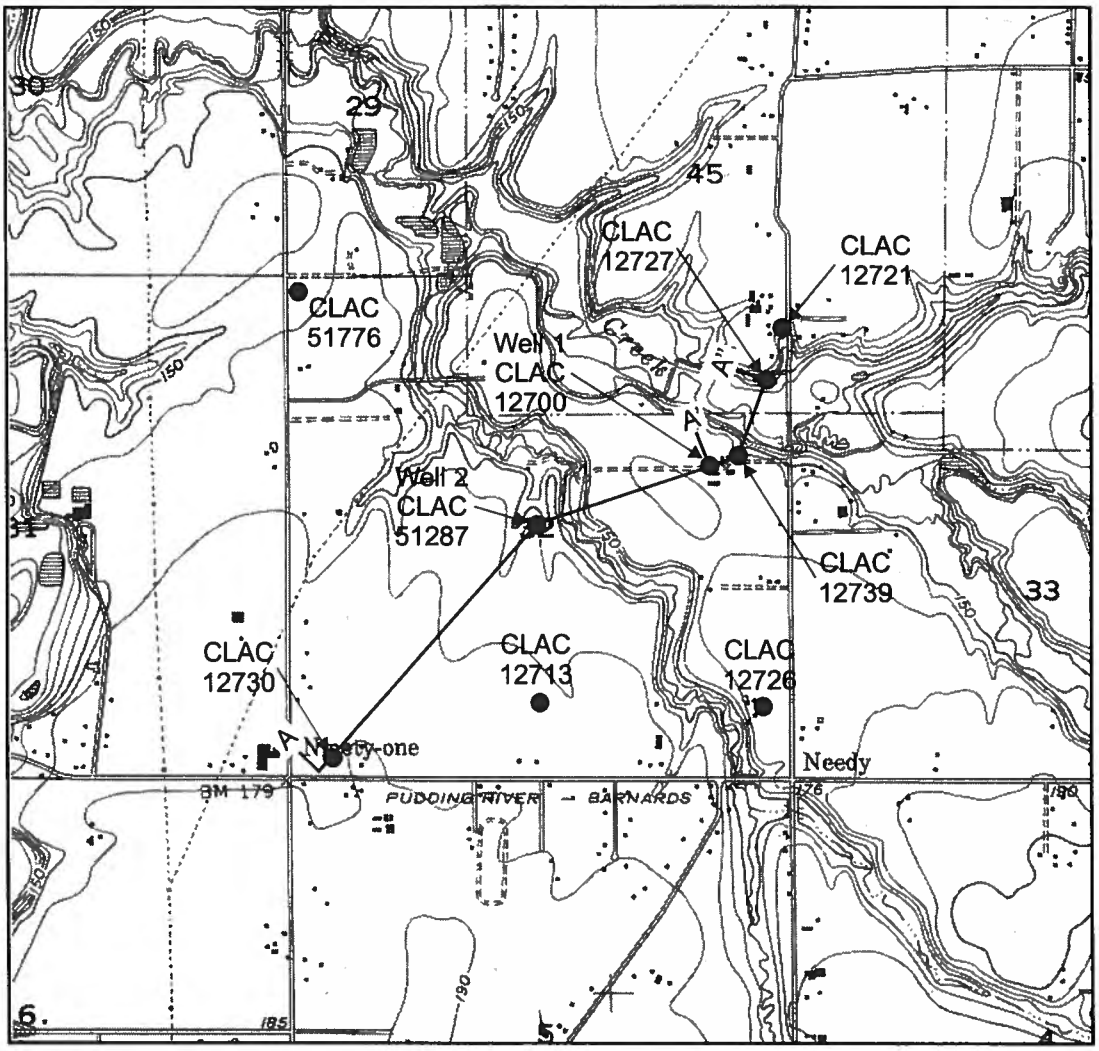
Attachments: Figure 1 - Well and Cross Section Locations
Figure 2 - Cross-Section A-A'
Figure 3 - Cross-Section A'-A"
Table 1 - Well Log Data for Neuschwander Wells and other Are Wells
Water Well Reports for Neuschwander Wells and other Wells in Vicinity

cc: Donn Miller, Oregon Water Resources Department
Joel Neuschwander





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Scale: 1:24000

0 1 Mile

Countour Interval 10 Feet

N

Source: USGS 7.5 Minute Topographic Survey
Map of Yoder Quadrangle, Oregon, 1955
(Photorevised 1985)

Figure 1 - Well and Cross Section Locations

Joel Neuschwander
Application G-15567
T.4S. R.1E Section 32

Pacific Hydro-Geology Inc.

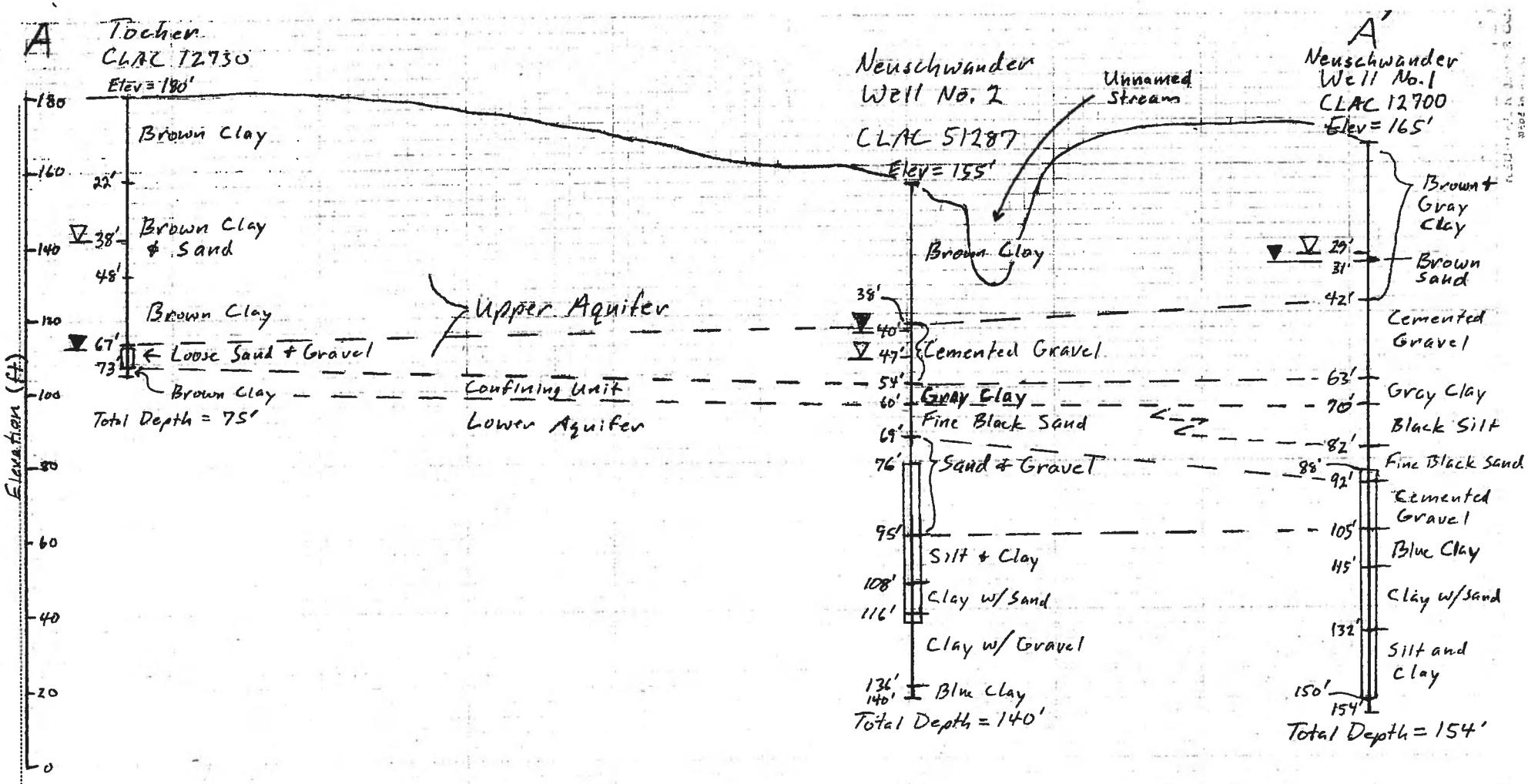


Figure 2 - Cross Section A-A'

Horizontal Scale: 1" = 600'
Vertical Scale: 1" = 40'
▼ Depth at which water first found
▽ Static water level

Perforated interval

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SUBJECT
JOB NO.
SHEET NO. OF
DATE
CHKD. BY DATE

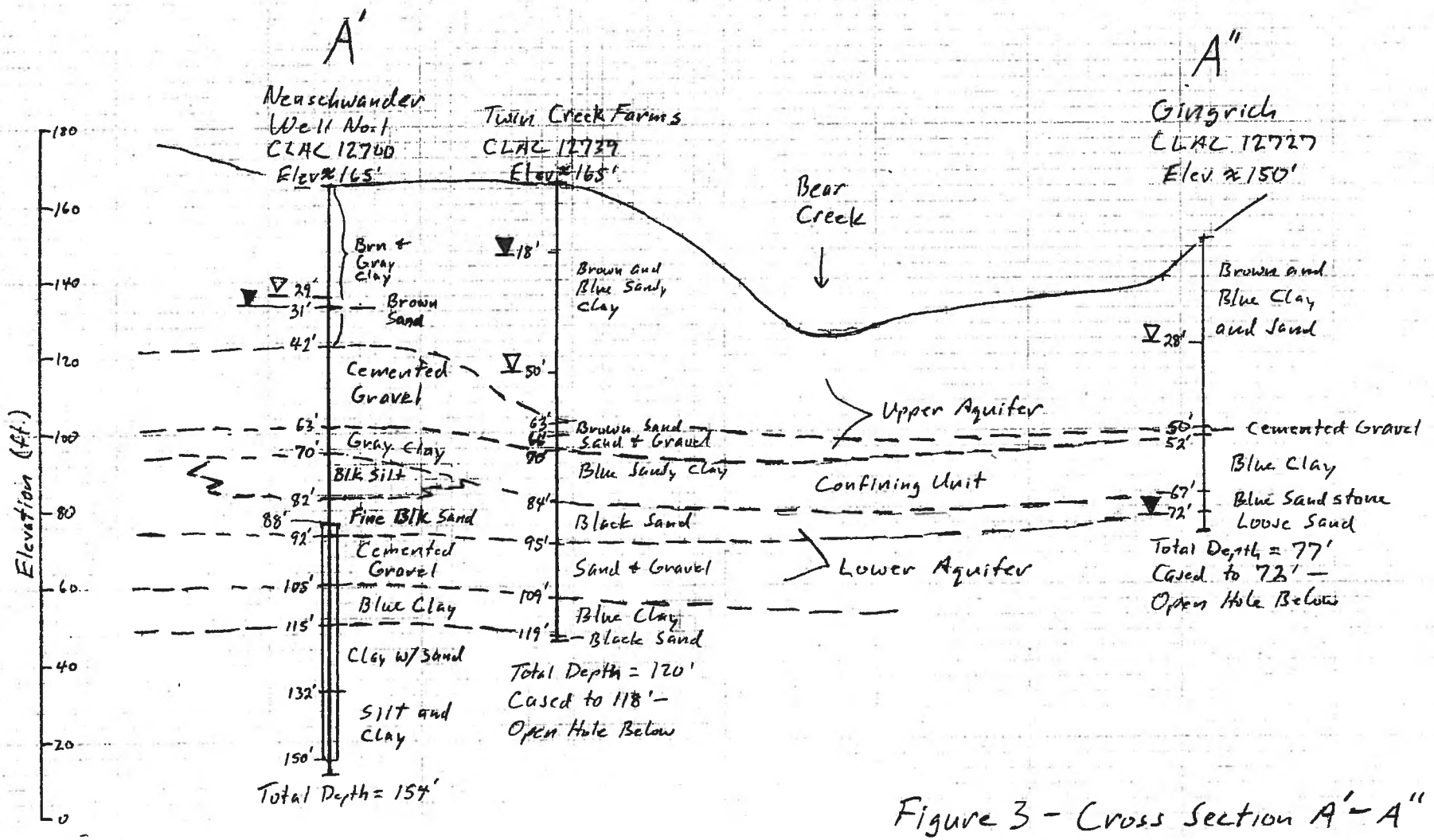


Figure 3 – Cross Section A'–A"

Horizontal Scale: 1" = 200'
Vertical Scale: 1" = 40'
▼ Depth at Which Water First Found
▽ Static Water Level
Perforated Interval

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JOB NO.
DATE
HKD. BY

Table 1. Well Log Information for Neuschwander Wells and Other Wells in Vicinity

Well Log I.D. No.		Legal/ Map No.	Tax Lot Number	Owner Last Name	Estimated Well Head Elevation (ft)*	Estimated Elev. at top of Clay Confining Unit (ft)	Estimated Elev. at bottom of Clay Confining Unit (ft)	Thickness of Clay Confining Unit (ft)
CLAC	12700	4 1E 32	903	Neuschwander	165	102	95	7
CLAC	51287	4 1E 32	900	Neuschwander	155	101	95	6
CLAC	12730	4 1E 32	1505	Tocher	180	107	Unknown	Unknown
CLAC	12713	4 1E 32	1507	Hansen	175	111	81	30
CLAC	12726	4 1E 32	1300	Galer	170	<100	Unknown	Unknown
CLAC	12739	4 1E 32	901	Hansen (now Neuschwander)	165	95	81	14
CLAC	12727	4 1E 32A	100	Gingrich	150	98	83	15
CLAC	12721	4 1E 32	207	Hunnicutt	180	<117	Unknown	Unknown
CLAC	51776	4 1E 32	51776	Martishev	155	81	58	23

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* Elevations are estimated from U.S.G.S. Topographic Map: Yoder Quadrangle, Oregon 7.5 Minute Series, 10-foot contour interval.

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JUN 27 1988 WATER RESOURCES DEPT. SALEM, OREGON

CLK 012700 Well 1 START CARD 530

4S/1E-32L

STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

Well Number

(1) OWNER:

Name JOEL NEUSCHWANDER

Address 6059 S WHISKEY HILL RD

City HUBBARD State OR Zip

(2) TYPE OF WORK:

☑ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD

☐ Rotary Air ☐ Rotary Mud ☑ Cable

☐ Other

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☑ Irrigation

☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes ☐ No ☑ Depth of Completed Well 154 ft.

Explosives used Yes ☐ No ☐ Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
12	1	20	GRANULAR BENTONITE	1	20	11
8	20	154				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E

☑ Other GRANULAR BENTONITE METHOD

Backfill placed from ft. to ft. Material

Gravel placed from 25 ft. to 90 ft. Size of gravel PEA

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	154	.250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Location of shoe(s) 154

(7) PERFORATIONS/SCREENS:

☑ Perforations Method DRIVE DOWN

☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
88	150	3/16 X 1 1/4	400			☑	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
500	46	PUMP	1 hr.
300	21	AIR LIFT	3

Temperature of water Depth Artesian Flow Found

Was a water analysis done? ☐ Yes By whom

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude ' " Longitude ' "

Township 4S N or S, Range 1E E or W, WM.

Section 32 ¼ SE ¼

Tax Lot Lot Block Subdivision

Street Address of Well (or nearest address) S. NEEDY RD, CANBY

(10) STATIC WATER LEVEL:

29 ft. below land surface. Date 5/25/88

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 31

From	To	Estimated Flow Rate	SWL
82	102	800 GPM ☑	30
115	132	500 GPM ☑	30

(12) WELL LOG:

Ground elevation

Material	From	To	SWL
SOIL	1	3	
CLAY BROWN	3	31	
SAND BROWN	31	31	
CLAY GREY	31	42	
CEMENTED GRAVEL	42	63	
CLAY DK GREY	63	70	
SILT BLACK	70	82	
SAND BLACK FINE	82	92	
CEMENTED GRAVEL	92	105	
CLAY BLUE STICKEY	105	115	
CLAY GREY W/ GREY SAND LAYERS	115	132	
CLAY GREEN	132	144	
SILT DARK BROWN.	144	147	
CLAY BLUE GREEN	147	154	
INITIALLY PERFORATED 115 to 150 I AND PRODUCED 150 GPM, total. THEN GRAVEL PACKED 75-102 & 115-132, perforated 88' to 115'. THEN PRODUCED 300 GPM WITH 21' DRAWDOWN.			

Date started 5/13/88 Completed 5/25/88

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number

Signed Date

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 243

Signed Richard Beck Date 5/25/88

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9809C 10/86

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JAN - 9 1997

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SALEM, OREGON

Well 2

TAG # L02078

62424

CLAC 5128 7

STATE OF OREGON WATER SUPPLY WELL REPORT

(as required by ORS 537.765)

(START CARD) # _____

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number _____

Name Neuschwander's Nursery

Address 6097 S. Whiskey Hill Rd

City Hubbard State Or Zip 97032

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[ ] Rotary Air [ ] Rotary Mud [X] Cable [ ] Auger

[ ] Other _____

(4) PROPOSED USE:

[ ] Domestic [ ] Community [ ] Industrial [X] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other _____

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [ ] No Depth of Completed Well 140 ft.

Explosives used [ ] Yes [ ] No Type _____ Amount _____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12	1	50	Bentonite	1	50	35 sacks
8	50	140				

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E

[X] Other Granular Bentonite method

Backfill placed from _____ ft. to _____ ft. Material _____

Gravel placed from 60 ft. to 120 ft. Size of gravel pea

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	140	.25	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s) 140

(7) PERFORATIONS/SCREENS: Drive Down

[X] Perforations Method _____

[ ] Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
75	119	.188	600			[X]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

(8) WELL TESTS: Minimum testing time is 1 hour

[ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
		air line @	1 hr.
220		105	4 hr

Temperature of water 53 Depth Artesian Flow Found _____

Was a water analysis done? [ ] Yes By whom _____

Did any strata contain water not suitable for intended use? [ ] Too little

[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other _____

Depth of strata: _____

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude _____ Longitude _____

Township 4s N or S Range 1e E or W. WM.

Section 32 Se 1/4 Nw 1/4

Tax Lot 900 Lot _____ Block _____ Subdivision _____

Street Address of Well (or nearest address) _____

29435 S Needy Rd

(10) STATIC WATER LEVEL:

47 ft. below land surface. Date Sep 10, 19

Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 40

From	To	Estimated Flow Rate	SWL
40	140		47

(12) WELL LOG:

Ground Elevation _____

Material	From	To	SWL
Soil	1	3	
Clay, Brown	3	38	
Cemented gravel, brown	38	54	
Clay, grey	54	58	
Clay, grey, sandy	58	60	
Sand, black, fine	60	69	
Sand and gravel, black	69	71	
Cemented gravel, sand	71	74	
Sand & gravel	74	95	
Clay, blue	95	98	
clay, grey, silty	98	101	
Silt, dark grey	101	108	
Clay w/black coarse sand	108	116	
Clay, grey w/some cemented gravel	116	136	
Clay, blue	136	140	
Note: 6 inch gravel feed each side of			
8 inch well			

Date started August 8, 1996 Completed Dec 10, 1996

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number _____

Signed _____ Date _____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 748

Signed Richard Beck Date 1/8/97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

CLAC 012730

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

RECEIVED
JAN 24 1977
WATER RESOURCES DEPT.
SALEM, OREGON

State Well No. 4S/1E-32C
State Permit No. TL 1505

(1) OWNER:
Name DICK TOEHER
Address 7171 S BERNARDS RD.
CANBY, OREGON

(2) TYPE OF WORK (check):
New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary [ ] Driven [ ]
Cable [X] Jetted [ ]
Dug [ ] Bored [ ]

(4) PROPOSED USE (check):
Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

CASING INSTALLED:
Threaded [ ] Welded [X]
6" Diam. from 0 ft. to 68 ft. Gage .250"
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? [ ] Yes [X] No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? [X] Yes [ ] No
Manufacturer's Name JOHNSON
Type Model No.
Diam. 5 Slot size 45 Set from 68 ft. to 73 ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? [ ] Yes [X] No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test 15 gal./min. with 12 ft. drawdown after 1 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used BENTONITE
Well sealed from land surface to ± 20 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 0 sacks
Number of sacks of bentonite used in well seal 3 sacks
Brand name of bentonite NATIONAL
Number of pounds of bentonite per 100 gallons of water 200 lbs./100 gals.
Was a drive shoe used? [X] Yes [ ] No Plug Size: location ft.
Did any strata contain unusable water? [ ] Yes [X] No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? [ ] Yes [X] No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County CLACKAMAS Driller's well number 376
SW ¼ SW ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 67 ft.
Static level 38 ft. below land surface. Date 1/10/77
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing —
Depth drilled 75 ft. Depth of completed well 73 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
TOP SOIL	0	2	
BROWN CLAY	2	22	
BROWN CLAY AND SAND	22	48	
BROWN CLAY	48	67	
LOOSE SAND AND GRAVEL	67	73	38
BROWN CLAY	73	75	

RECEIVED
OCT 21 2002
WATER RESOURCES DEPT.
SALEM, OREGON

Work started 1/6 19 77 Completed 1/10 19 77
Date well drilling machine moved off of well 1/10 19 77

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] O.O. Keller (Drilling Machine Operator) Date 1/12, 19 77
Drilling Machine Operator's License No. 329

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name KELLER WELL DRILLING CO. (Person, firm or corporation) (Type or print)
Address 6350 SE BROWNLEE MILWAUKIE
[Signed] O.O. Keller (Water Well Contractor)
Contractor's License No. 462 Date 1/12, 19 77

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*48656-119

RECEIVED
OCT 21 2002
WATER RESOURCES DEPT.
SALEM, OREGON

RECEIVED
OCT - 4 1971
STATE ENGINEER
SALEM, OREGON

NOTICE TO WATER WELL CONTRACTOR: The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

WATER WELL REPORT

STATE OF OREGON (Please type or print) (Do not write above this line)

CLAC 012713

State Well No. 4/1-32

State Permit No.

(1) OWNER:

Name Don Hanson - Twin Creek Farms

Address Rt. Box 340, Canby, Ore. 97013

(2) TYPE OF WORK (check):

New Well ☑ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

CASING INSTALLED:

Threaded ☐ Welded ☒

12 " Diam. from 0 ft. to 155 ft. Gage .250
18 " Diam. from 0 ft. to 60 ft. Gage .250
" Diam. from ft. to ft. Gage

PERFORATIONS:

Perforated? ☐ Yes ☒ No

Type of perforator used

Size of perforations in. by in.

perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☒ Yes ☐ No

Manufacturer's Name Rossco Moss

Type Louivered Model No.

Diam. 12 Slot size 1/4 Set from 105 ft. to 155 ft.

Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom?

Yield: 500 gal./min. with 30 ft. drawdown after 5 hrs.
800 " 45 " 4 "
1000 " 70 " 10 "

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Bentonite - Cement Grout

Well sealed from land surface to 60 ft.

Diameter of well bore to bottom of seal 24 in.

Diameter of well bore below seal 12 in.

Number of sacks of cement used in well seal 8 sacks

Number of sacks of bentonite used in well seal 7 sacks

Brand name of bentonite National

Number of pounds of bentonite per 100 gallons of water lbs./100 gals.

Was a drive shoe used? ☐ Yes ☒ No Plugs Size: location ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☒ Yes ☐ No Size of gravel: 1/4 - 3/4

Gravel placed from 60 ft. to 160 ft.

(10) LOCATION OF WELL:

County Clackamas Driller's well number

¼ ¼ Section 32 T. 4S R. 1E W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 60 ft.

Static level 32 ft. below land surface. Date

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 6"

Depth drilled 345 ft. Depth of completed well 165 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Topsoil-Brown	0	3	
Clay-Brown	3	20	
Clay-Blue	20	60	
Clay-Bl-Sandy-Blk-Fine-Water trace	60	64	
Clay-Br-Sand seams-Fine-Br	64	94	
Sand-Blk-Fine-Clay-Blue	94	125	
Sand-Blk-Fine-Gravel traces Fine-Clay-Blue	125	160	
Clay-Bl-Sand streaks-Fine gravel	160	180	
Sand-Blk-Claystone-Blue	180	190	
Clay-Green-Blue	190	195	
Clay-Blue	195	200	
Clay-Gray	200	230	
Claystone-Blue	230	275	
Gravel-Lrg-Clay-Blue	275	278	
Claystone-Blue	278	290	
Claystone-Gray-Blue	290	300	(Cont)

Work started 5-29 19 71 Completed 9-7 19 71

Date well drilling machine moved off of well 9-7 19 71

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Kenneth Skinner (Drilling Machine Operator) Date 9-25, 19 71

Drilling Machine Operator's License No. 277

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name S & M Drilling & Supply (Person, firm or corporation) (Type or print)

Address Rt. 1 Box 31, Canby, Ore. 97013

[Signed] Kenneth Skinner (Water Well Contractor)

Contractor's License No. 520 Date 9-25, 19 71

(USE ADDITIONAL SHEETS IF NECESSARY)

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
OCT - 4 1971
STATE ENGINEER
SALEM OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

State Well No. 4/1-32

State Permit No. _____

(1) OWNER: (Cont.)

Name _____

Address _____

(2) TYPE OF WORK (check):

New Well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:

Threaded ☐ Welded ☐

_____" Diam. from _____ ft. to _____ ft. Gage _____
_____" Diam. from _____ ft. to _____ ft. Gage _____
_____" Diam. from _____ ft. to _____ ft. Gage _____

PERFORATIONS:

Perforated? ☐ Yes ☐ No.

Type of perforator used _____

Size of perforations _____ in. by _____ in.

_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☐ No

Manufacturer's Name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☐ No If yes, by whom?

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

" " " "

" " " "

Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Artesian flow _____ g.p.m.

Temperature of water _____ Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used _____

Well sealed from land surface to _____ ft.

Diameter of well bore to bottom of seal _____ in.

Diameter of well bore below seal _____ in.

Number of sacks of cement used in well seal _____ sacks

Number of sacks of bentonite used in well seal _____ sacks

Brand name of bentonite _____

Number of pounds of bentonite per 100 gallons of water _____ lbs./100 gals.

Was a drive shoe used? ☐ Yes ☐ No Plugs _____ Size: location _____ ft.

Did any strata contain unusable water? ☐ Yes ☐ No

Type of water? _____ depth of strata _____

Method of sealing strata off _____

Was well gravel packed? ☐ Yes ☐ No Size of gravel: _____

Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County _____ Driller's well number _____

¼ ¼ Section _____ T. _____ R. _____ W.M.

Bearing and distance from section or subdivision corner _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found _____ ft.

Static level _____ ft. below land surface. Date _____

Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing _____

Depth drilled _____ ft. Depth of completed well _____ ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Claystone-Sandstone seams-Water	300	340	32
Sand-Fine-Gray-Blank	340	345	

RECEIVED
OCT 21 2002
WATER RESOURCES DEPT.
SALEM, OREGON

Work started _____ 19 Completed _____ 19

Date well drilling machine moved off of well _____ 19

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Bennett Skinner Date _____, 19____
(Drilling Machine Operator)

Drilling Machine Operator's License No. _____

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name _____
(Person, firm or corporation) (Type or print)

Address _____

[Signed] Bennett Skinner
(Water Well Contractor)

Contractor's License No. _____ Date _____, 19____

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM 10, OREGON within 30 days from the date of well completion.

RECEIVED NOV 13 1962

WATER WELL REPORT
STATE OF OREGON
(Please type or print)

CLAC 012726

State Well No. 4/1-32

State Permit No. TL 1300

(1) OWNER:
Name John Galer,

Address Rt.2,Box 346,Canby,Ore.

(2) LOCATION OF WELL:
County Clackamas Driller's well number

¼ ¼ Section 32 T. 4S R. 1E W.M.

Bearing and distance from section or subdivision corner
750 Ft.North,300 Ft. West of S.E corner sec.32.

(3) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(6) CASING INSTALLED:
Threaded ☐ Welded ☒
6 " Diam. from 0 ft. to 70 ft. Gage
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(7) PERFORATIONS:
Perforated? ☐ Yes ☐ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(8) SCREENS:
Well screen installed ☐ Yes ☐ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:
Well seal—Material used in seal heavy mud and cement
Depth of seal 20 ft. Was a packer used?
Diameter of well bore to bottom of seal in.
Were any loose strata cemented off? ☐ Yes ☐ No Depth
Was a drive shoe used? ☐ Yes ☐ No
Was well gravel packed? ☐ Yes ☐ No Size of gravel:
Gravel placed from ft. to ft.
Did any strata contain unusable water? ☐ Yes ☐ No
Type of water? Depth of strata
Method of sealing strata off

(10) WATER LEVELS:
Static level 27 ft. below land surface Date 10-29-62
Artesian pressure lbs. per square inch Date

(11) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☒ Yes ☐ No If yes, by whom? J.T.Mill
Yield: 50 gal./min. with 23 ft. drawdown after hrs
" " " "
" " " "
Bailer test gal./min. with ft. drawdown after hrs
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? ☐ Yes ☐ No

(12) WELL LOG:
Diameter of well below casing 6
Depth drilled 70 ft. Depth of completed well 70 ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
surface	0	3
clay,yellow	3	23
clay,gray	23	42
clay,blue	42	63
coarse broken sand,gravel water	63	70

RECEIVED
OCT 21 2002
WATER RESOURCES DEPT.
SALEM, OREGON

Work started 10-29- 19 62 Completed 10-31- 19 62
Date well drilling machine moved off of well 19

(13) PUMP:
Manufacturer's Name
Type: H.P.

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME J.T.Miller (Person, firm or corporation) (Type or print)

Address Box 175,Aurora, Ore.

Drilling Machine Operator's License No.

[Signed] J.T. Miller (Water Well Contractor)

Contractor's License No. 101 Date 10-31, 19 62

(USE ADDITIONAL SHEETS IF NECESSARY)

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

CLAC 012739

WATER WELL REPORT
STATE OF OREGON
(Please type or print) House Well
(Do not write above this line)

State Well No. 4s/1E-33cb
State Permit No.

(1) OWNER:
Name TWIN CREEK Farms DON HANSON
Address 29385 S. Needy Rd.
Canby, Oregon 97013

(2) TYPE OF WORK (check):
New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary [X] Driven [ ]
Cable [ ] Jetted [ ]
Dug [ ] Bored [ ]

(4) PROPOSED USE (check):
Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(5) CASING INSTALLED:
Threaded [ ] Welded [X]
6" Diam. from 0 ft. to 118 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? [ ] Yes [X] No.
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? [ ] Yes [X] No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? [ ] Yes [X] No If yes, by whom?
Yield: 45 gal./min. with total ft. drawdown after 1 hrs.
AIR ROTARY " " "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used cement
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 7 sacks
How was cement grout placed? pressure grouted
Was a drive shoe used? [X] Yes [ ] No Plugs Size: location ft.
Did any strata contain unusable water? [ ] Yes [X] No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? [ ] Yes [X] No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County CLACKAMAS Driller's well number D-247-79
SW ¼ SE ¼ Section 33 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 18 ft.
Static level 50 ft. below land surface. Date 2-25-79
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6"
Depth drilled 120 ft. Depth of completed well 120 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
topsoil	0	1	
clay sandy brown	1	28	
clay sandy blue	28	63	
sand brown	63	66	
~~clay~~ sand & gravel brown medium	66	70	
clay sandy blue	70	84	
sand black	84	95	
sand & gravel blue med.	95	109	
clay blue	109	119	
sand black	119		50

RECEIVED
AUG 2 - 1979
WATER RESOURCES DEPT
SALEM, OREGON

RECEIVED
OCT 2 1 2002
WATER RESOURCES DEP
SALEM, OREGON

Work started 7-24 19 79 Completed 7-25 19 79
Date well drilling machine moved off of well 7-25 19 79

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Stephen J Mills (Drilling Machine Operator) Date 7-31, 1979
Drilling Machine Operator's License No. 1290

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name S & M DRILLING & SUPPLY, INC. (Person, firm or corporation) (Type or print)
Address 399 S.E. Walnut St. Canby, Or.
[Signed] (Water Well Contractor)
Contractor's License No. 497 Date 7-31, 19 79

(USE ADDITIONAL SHEETS IF NECESSARY)

RECEIVED
OCT 21 2002
WATER RESOURCES DEPT
SALEM, OREGON

CLAC
01427

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of completion.

WATER WELL REPORT
STATE OF OREGON

(Please type or print)
(Do not write above this line)

RECEIVED
APR 29 1977
WATER RESOURCES DEPT
SALEM, OREGON

State Well No. 4S/1E-32a
State Permit No.

(1) OWNER:
Name DOUG GINGERICH
Address RT 1 BOX 118
HUBBARD OREGON 97032

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED: Threaded ☐ Welded ☒
10" Diam. from +1 ft. to 72 ft. Gage .250"
_____" Diam. from _____ ft. to _____ ft. Gage _____
_____" Diam. from _____ ft. to _____ ft. Gage _____

PERFORATIONS: Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

(7) SCREENS: Well screen installed? ☒ Yes ☐ No
Manufacturer's Name JOHNSON
Type _____ Model No. _____
Diam. 5 Slot size 10 Set from 72 ft. to 77 ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " "
" " " "
Bailer test 35 gal./min. with 9 ft. drawdown after 1 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:
Well seal—Material used BENTONITE
Well sealed from land surface to 23 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 9 sacks
Number of sacks of bentonite used in well seal 4 sacks
Brand name of bentonite NATIONAL
Number of pounds of bentonite per 100 gallons of water 200 lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs _____ Size: location _____ ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:
County CLACKAMAS Driller's well number 3804
NE ¼ NE ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 72 ft.
Static level 28 ft. below land surface. Date 4/26/77
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing
Depth drilled 77 ft. Depth of completed well 77 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
TOP SOIL	0	2	
BROWN CLAY	2	13	
SAND AND BROWN CLAY	13	29	
BLUE CLAY	29	31	
BROWN CLAY AND SAND	31	41	
BLUE CLAY	41	50	
CEMENTED GRAVEL	50	52	
BLUE CLAY	52	67	
SOFT BLUE SANDSTONE	67	72	
LOOSE SAND	72	77	28

Work started 4/22 19 77 Completed 4/26 19 77
Date well drilling machine moved off of well 4/27 19 77

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] C.C. Keller (Drilling Machine Operator) Date 4/27, 19 77
Drilling Machine Operator's License No. 329

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name KELLER WELL DRILLING CO. (Person, firm or corporation) (Type or print)
Address 6350 SE BROWNLEE, MILWAUKIE
[Signed] C.C. Keller (Water Well Contractor)
Contractor's License No. 462 Date 4/27, 19 77

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the
STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date of well completion.

CLAC 012721

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

RECEIVED
JUN 22 1973
STATE ENGINEER
SALEM OREGON

State Well No. 4S/1E-32
State Permit No. 20107202

(1) OWNER:
Name Richard Hunnicut
Address Rt 2 Box 124-A, Canby, Oregon

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
[illegible] ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☒
6 " Diam. from 0 ft. to 57 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
[illegible]: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test 25 gal./min. with 27 ft. drawdown after 1 hrs.
[illegible]esian flow g.p.m.
[illegible]perature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal sacks
Number of sacks of bentonite used in well seal 3 sacks
Brand name of bentonite Wilbur Ellis
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Clackamas Driller's well number 2011 202
¼ ¼ Section 32 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 55 ft.
Static level 30 ft. below land surface. Date 5/3/73
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6
Depth drilled 64 ft. Depth of completed well 63 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Soil, Brown	0	2	
Clay, Brown	2	28	
Clay, Gray	28	35	
River Rock, Cemented	35	55	
Sand, Gravel, WB	55	63	30

RECEIVED
OCT 21 2002
WATER RESOURCES DEPT.
SALEM, OREGON

Work started 5/3/73 19 Completed 5/3/73 19
Date well drilling machine moved off of well 5/3/73 19

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] H. Blackman (Drilling Machine Operator) Date 5/9/73, 19
Drilling Machine Operator's License No. 681

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name Harvey Blackman (Person, firm or corporation) (Type or print)
Address Rt. 1 Box 181K, Mulino, Oregon
[Signed] Harvey Blackman (Water Well Contractor)
Contractor's License No. 537 Date 5/9/73, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

SP-5656-119

RECEIVED

RECEIVED

OCT 2 1997

WATER RESOURCES DEPT.
SALEM, OREGON

STATE OF OREGON JUN - 2 1997

WATER RESOURCES DEPT.
SALEM, OREGON

Skyles Drilling, Inc.
1164 Molalla Ave.
Oregon City, OR 97045
656-2683

CLAC 5776 L09629

WATER SUPPLY WELL REPORT

(START CARD) # 98083

Please read instructions for completing this report on the last page of this form.

(1) OWNER: Well Number 01

Name Tony Martishev

Address 1040 Tierra Lynn Dr.

City Woodburn State Or. Zip 97071

(2) TYPE OF WORK

☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:

☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger

☒ Other Holte

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation

☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval ☐ Yes ☒ No Depth of Completed Well 235 ft.

Explosives used ☐ Yes ☒ No Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12"	0	18	Bentonite	18	0	16 sacks
9 1/2"	18	250				
9 1/2"	216	225	Cement	223	216	6 sacks

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E

☒ Other Bent Poured/Cement pumped

Backfill placed from 250 ft. to 235 ft. Material 3/8" gravel

Gravel placed from ____ ft. to ____ ft. Size of gravel 18 sacks

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8"	+2	229	250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	None				☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) None

(7) PERFORATIONS/SCREENS:

☐ Perforations Method ____

☐ Screens Type ____ Material ____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
None						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
200		220	1 hr.

Temperature of water 56° Depth Artesian Flow Found ____

Was a water analysis done? ☐ Yes By whom ____

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____

Depth of strata: ____

(9) LOCATION OF WELL by legal description:

County Clackamas Latitude ____ Longitude ____

Township 4 South N or S Range 1 East E or W. WM.

Section 32 NW 1/4 NW 1/4

Tax Lot 500 Lot ____ Block ____ Subdivision ____

Street Address of Well (or nearest address) S. Barlo Canby, Or.

(10) STATIC WATER LEVEL:

30 ft. below land surface. Date 5-17-97

Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:

Depth at which water was first found 57'

From	To	Estimated Flow Rate	SWL
57'	74'	40	30
97'	112'	100	30
223'	249'	200	30

(12) WELL LOG:

Ground Elevation ____

Material	From	To	SWL
Clay Brown Sandy	0	6	
Clay Brown	6	57	
Sand Brown	57	74	
Clay Gray	74	97	
Sand Gray Med Some Gravel	97	112	
Clay Gray	112	223	
Sand Cemented Gray Med	223	249	30
Clay Gray	249	250	

Date started 5-8-97 Completed 5-17-97

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number 553

Signed Kenneth D. Skyles Date 5-23-9

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 1592

Signed Steven C. Bland Date 5-23-97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

Oregon
John A. Kitzhaber, M.D., Governor

Water Resources Department
Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130
www.wrd.state.or.us

June 18, 2002

Scott Ashcom
PO Box 4323
Portland, OR 97208

RE: Application G-15567

Dear Mr. Ashcom:

On May 28, 2002, the Department received your request for an administrative hold on processing of the above referenced application until such time to submit additional well information to the department.

The Department will not take any action on this application until **December 17, 2002**. Please let us know if you are ready to proceed sooner.

If you have any questions, please give me a call. I can be reached at (503) 378-8455, extension 458 or e-mail me at Jerry.W.GAINEY@wrd.state.or.us.

Sincerely,

Jerry W. Gainey
Water Rights Processing Technician

cc: Watermaster District 16
Donn Miller, WRD
Joel Nueschwander
6097 S Whiskey Hill Rd
Hubbard, OR 97032

Water Resources Department

MEMO

Sept 4, 2001

TO Application G- 15567

FROM GW: Dan Miller
(Reviewer's Name)

SUBJECT Scenic Waterway Interference Evaluation

☐ Yes
☒ No

The source of appropriation is within or above a Scenic Waterway.

☐ Yes
☒ No

Use the Scenic Waterway condition (Condition 7J).

PREPONDERANCE OF EVIDENCE FINDING: (Check box only if statement is true)

☒ At this time the Department is unable to find that there is a preponderance of evidence that the proposed use of ground water will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife.

FLOW REDUCTION: *(To be filled out only if Preponderance of Evidence box is not checked)*

Exercise of this permit is calculated to reduce monthly flows in _____ Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

O: Water Rights Section Sept 4, 199__

ROM: Groundwater/Hydrology Section D. Wall 11/20/02
Reviewer's Name

JBJECT: Application G- 15567 (Well #2)

GROUNDWATER/SURFACE WATER CONSIDERATIONS

PER THE Willamette Basin rules, one or more of the proposed POA's is/is not within
N/A ____ feet/mile of a surface water source (~~Bear~~ Bear Ck) and taps a groundwater source ~~hydraulically connected~~ unconfined alluvium to the surface water.

BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use

(a.) X will, or have the potential for substantial interference with the nearest
b. ___ will not surface water source, namely Bear Ck trib ; or
c. ___ will if properly conditioned, adequately protect the surface water from interference:
i. ___ The permit should contain condition #(s)____;
ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
iii. ___ The permit should be conditioned as indicated in item 4 below; or
d. will, with well reconstruction, adequately protect the surface from substantial interference.

GROUNDWATER AVAILABILITY CONSIDERATIONS

BASED UPON available data, I have determined that groundwater for the proposed use
a. ___ will, or likely be available in the amounts requested without injury to prior rights
b. ___ will not and/or within the capacity of the resource; or
(c.) X will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
(i.) X The permit should contain condition #(s) 7E ; March
ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
iii. ___ The permit should be conditioned as indicated in item 4 below; or

a. ___ THE PERMIT should allow groundwater production from no deeper than____ft. below land surface;
b. ___ The permit should allow groundwater production from no shallower than____ft. below land surface;
c. ___ The permit should allow groundwater production only from the____ groundwater reservoir between approximately ____ft. and ____ft. below land surface;
d. ___ Well reconstruction is necessary to accomplish one or more of the above conditions.
e. ___ One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS:

(Well Construction Considerations on Reverse Side)

O: Water Rights Section

Sept 4, 2001

ROM: Groundwater/Hydrology Section D M.Ob 11/20/02
Reviewer's Name

UBJECT: Application G- 15567 Well #1

GROUNDWATER/SURFACE WATER CONSIDERATIONS

PER THE Willamette Basin rules, one or more of the proposed POA's is/is not within 1/4 feet/mile of a surface water source (Bear Ck + tributary) and taps a groundwater source hydraulically connected to the surface water. N/A unconfined alluvial

BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use

a. X will, or have the potential for substantial interference with the nearest
b. ___ will not surface water source, namely Bear CK ; or
c. ___ will if properly conditioned, adequately protect the surface water from interference:
   i. ___ The permit should contain condition #(s)_____;
   ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
   iii. ___ The permit should be conditioned as indicated in item 4 below; or
d. will, with well reconstruction, adequately protect the surface from substantial interference.

GROUNDWATER AVAILABILITY CONSIDERATIONS

BASED UPON available data, I have determined that groundwater for the proposed use

a. ___ will, or likely be available in the amounts requested without injury to prior rights
b. ___ will not and/or within the capacity of the resource; or
c. X will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
   i. X The permit should contain condition #(s) 7E ; March
   ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
   iii. ___ The permit should be conditioned as indicated in item 4 below; or

a. ___ THE PERMIT should allow groundwater production from no deeper than_____ft. below land surface;
b. ___ The permit should allow groundwater production from no shallower than_____ft. below land surface;
c. ___ The permit should allow groundwater production only from the_____ groundwater reservoir between approximately _____ft. and _____ft. below land surface;
d. ___ Well reconstruction is necessary to accomplish one or more of the above conditions.
e. ___ One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS:_____

(Well Construction Considerations on Reverse Side)

Lisca-ODF

Form 2 - Lower Columbia/Statewide

ODFW DIVISION 33 APPLICATION REVIEW SHEET

Recommendations for Water Right Applications that may affect the Habitat of Sensi
Species, OAR 690-33-310 through 340.

FILE#: G 15567
JOEL NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD, OR 97032

Date: 2/1/02 **21 day Deadline Date:** 2/22/02 **Application #** ____

Applicant's Name: _____

1) Will the proposed use occur in an area that may affect the essential habitat of sensitive, threatened, or endangered fish species? [690-33-330(1)]

(NO) / YES Species: _____ Status: Sensitive, Threatened, Endangered

IF ANSWER TO QUESTION (1) IS YES, CONTINUE ON THIS PAGE TO QUESTION (2),
IF ANSWER IS NO, FILL OUT PUBLIC INTEREST REVIEW SHEET ☞ (PAGE 2)

What stage or value is at risk (circle all that apply): Spawning, Incubation, Rearing, Passage, Habitat Value

2) Will the proposed use result in a **LOSS** in the essential habitat of THREATENED OR ENDANGERED SPECIES or a **NET LOSS** in the habitat of a SENSITIVE SPECIES?

(NO) / YES

A) Standard of NET LOSS applies to sensitive species statewide. [690-33-330(2)(a)]
B) Standard of LOSS applies to T or E species outside the Columbia Basin. [690-33-330(2)(b)]

3) Can conditions be applied to mitigate the impact to the essential habitat of a S, T or E species?

NO / YES [690-33-330(3)]

Which conditions are recommended? _____
_____
_____
_____
_____
(Try to select conditions from the Menu of Conditions)

4) **If conditions cannot be identified to offset impacts to the essential habitat of S, T or E species, would the proposed use harm the species?**

NO / YES [690-33-330(4)]

If YES, please explain: _____
_____
_____
_____

ODFW RECOMMENDATION:

RECEIVED
FEB 14 2002
WATER RESOURCES DEPT.
SALEM, OREGON

_____ Approval with fishery conditions.

__✓__ Approval without fishery conditions.

_____ Denial.

ODFW Representative: Name: David P. Lisca Date: 2/10/02

WRD Contact: Kerry Lefever, Acting Interagency Coordinator, Water Rights Division
1-800-624-3199 ext: 276 / Fax: 503-378-6203 / e-mail: Kerry.A.LEFEVER@wrd.state.or.us

Revised: 02/23/01

ODFW PUBLIC INTEREST REVIEW SHEET

Application # _____ Applicant's Name: _____

1) Will the proposed use occur in an area that may affect the habitat of fish or wildlife species?

NO / YES Species: _____
Other: _____

What stage or value is at risk (circle all that apply): Spawning, Incubation, Rearing, Passage, Habitat Value

2) Will the proposed use result in a loss of habitat? **NO / YES**

3) Can conditions be applied to mitigate the impact to the loss of habitat? **NO / YES**

Which conditions are recommended? _____
_____
_____
_____
_____
_____
(Try to select conditions from the Menu of Conditions)

4) If conditions cannot be identified to offset impacts to the habitat, would the proposed use harm the species?
NO / YES

If YES, please explain: _____
_____
_____
_____
_____
_____

ODFW RECOMMENDATION:

_____ **Approval with conditions.**

_____ **Approval without conditions.**

_____ **Denial.**

ODFW Representative: Name: _____ Date: _____.

WRD Contact: Kerry Lefever, Acting Interagency Coordinator, Water Rights Division
1-800-624-3199 ext: 276 / Fax: 503-378-6203 / e-mail: Kerry.A.LEFEVER@wrd.state.or.us

Revised: 02/23/01

Wmp#

WATERMASTER DIVISION 33 APPLICATION WORK SHEET

Recommendations for Water Right Applications that may affect the Habitat of Sensitive, Thr
OAR 690-33-310 through 340.

FILE#: G 15567
JOEL NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD, OR 97032

Date: 2/1/02 **21 day Deadline Date:** 2/22/02 **Application #** ____

Applicant's Name: _____

SOURCE OF WATER: ☒ GROUNDWATER ☐ SURFACE WATER ☐ STORAGE

DESCRIPTION OF THE SOURCE: Two wells
(A spring, well, sump, exempt pond, unnamed stream, etc.)

1) If from surface water, does the water at the proposed diversion location flow into another water body? N/A

☐ YES ☐ NO ☐ SOMETIMES

If sometimes, describe the time period, Between: _____ and _____.

2) Does the source ever go dry in the area of the proposed diversion?

☐ YES ☒ NO, not to my knowledge

3) To your knowledge, has the requested source of water been regulated because of insufficient flow to satisfy existing water rights including instream water rights?

☐ YES ☒ NO,

If YES, please explain: _____

4) Is there sufficient flow at the proposed point of diversion to satisfy all existing water rights and provide the quantity of water requested under this application?

☐ YES ☐ NO ☒ Don't Know

5) Did you meet with staff from another agency to discuss this application?

☐ YES ☒ NO

Who: _____ Agency: _____ Date: _____

6) Is mitigation an option?

☐ YES ☐ NO N/A

If YES, please explain: _____

Comments: _____

Name: Bill Lee Date: 2.26.2002 Title: WM 16

WRD Contact: Kerry Lefever, Acting Interagency Coordinator, Water Rights Division
1-800-624-3199 ext: 276 / Fax: 503-378-6203 / e-mail: Kerry.A.LEFEVER@wrd.or.state.us

Revised: 02/23/01

Schaedel DEQ

DIVISION 33 APPLICATION REVIEW SHEET FOR USE BY DEQ

Recommendations for Water Right Applications that may affect the Habitat of Sensitive, Threatened or Endangered Species, OAR 690-33-310 through 340.

FILE#: G 15567
JOEL NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD, OR 97032
BW rec'd 2/21

Date: 2/1/02 **21 day Deadline Date:** 2/22/02 Application

Applicant's Name: _____

1) Is there a connection to a 303(d) listed water quality limited waterbody? NO / (YES)

Explain: Bear Creek flows into Pudding River, listed for temperature.

2) What is the potential for this use to impact a water quality limited waterbody: (HIGH) MEDIUM LOW

Explain: Reducing flow in Bear Creek will result in temperature increase. This would increase temperature in Pudding River, and Willamette River, further downstream.

3) If the answer to question (2) is HIGH or MEDIUM, will the proposed use still result in diminution of water quality for the habitat of sensitive, threatened, or endangered fish species? NO / (YES)

If YES, how? Temperature is an important parameter for quality of aquatic habitat.

4) Can conditions be applied to mitigate the impact of the use? (NO) / YES

Which conditions are recommended? (Try to select conditions from the Menu of Conditions)

5) If conditions cannot be identified to offset impacts, would the proposed use affect the Habitat of Sensitive, Threatened, or Endangered Fish Species? NO / (YES)

If YES, please explain: _____

DEQ RECOMMENDATION:

RECEIVED
FEB 11 2002
DEQ - MEDFORD

_____ Approval with conditions.

_____ Approval without conditions.

C Denial.

DEQ Representative: Name: Beth L. Woodward Date: Feb 22, 2002

WRD Contact: Kerry Lefever, Senior Water Rights Technician, Water Rights Division
503-378-8455 ext: 276 / Fax: 503-378-6203 / e-mail: Kerry.A.LEFEVER@wrd.or.state.us

OREGON WATER RESOURCES DEPARTMENT

State of Oregon
Water Resources Department
158 12th ST NE, Salem, OR 97301
(503) 378-8455
www.wrd.state.or.us

FAX TRANSMITTAL

TO: Scott Ashcom FAX NUMBER: 503-639-4754

DATE: 2-14-02 PAGES: 2, INCLUDING COVER SHEET

FROM: Jerry Gainey PHONE: (503) 378-8455 EXT. 458

COMMENTS:

STOP PROCESSING FORM PER OUR
Telephone Conversation.
Jerry Gainey

DIRECTOR'S OFFICE
- Water Resources Commission
- Legislation and Rules
- Public Information

FIELD & TECHNICAL SERVICES
- Hydrographics
- Ground Water
- Information Services
- GIS/Mapping

FAX: (503) 378-2496

ADMINISTRATIVE SERVICES
- Fiscal / Accounting
- Human Resources / Personnel
- Water Development Loan Fund
- Support Services

FIELD & TECHNICAL SERVICES
- Dam Safety
- Enforcement
- Regional Liaisons
- Transfers

FAX: (503) 378-8130

WATER RIGHTS
- Water Rights information
- Adjudications
- Hydroelectric
- Certifications / Final Proofs
- Hearings / Contested Cases

NORTHWEST REGION
- District 16 Watermaster

FAX: (503) 378-6203

STOP PROCESSING

Notification to withdraw Water Right Application # _____ WAB #_____

After looking over the Initial Review materials, I am requesting that the processing of my application stopped and the fees (minus a $50 examination fee) be refunded. I understand that without a permit I m not legally use the water as requested in my application.

Signed:_____ Date:_____

Signed:_____ Date:_____
(authorized agent)

Under ORS 537.150(sw)/537.620(gw), timely submission of this request authorizes that the water rig application process be stopped and all filing fees, except $50, be returned.

This notice must be received by the Water Resources Department by: _____

STOP PROCESSING

Notification to withdraw Water Right Application # _____ WAB #_____

After looking over the Initial Review materials, I am requesting that the processing of my application b stopped and the fees (minus a $50 examination fee) be refunded. I understand that without a permit I ma not legally use the water as requested in my application.

Signed:_____ Date:_____

Signed:_____ Date:_____
(authorized agent)

Under ORS 537.150(sw)/537.620(gw), timely submission of this request authorizes that the water rig application process be stopped and all filing fees, except $50, be returned.

This notice must be received by the Water Resources Department by: _____

Oregon
John A. Kitzhaber, M.D., Governor

Water Resources Department
Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130
www.wrd.state.or.us

February 1, 2002

PLACED IN U.S. MAIL
FEB 1 2002
OREGON WATER RESOURCES DEPT.

JOEL NEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD, OREGON 97032

(503) 651-3253

Reference: File G-15567

Dear Mr. Neuschwander:

THIS IS NOT A PERMIT AND IS SUBJECT TO CHANGE AT THE NEXT PHASE OF PROCESSING.

This letter is to inform you of the unfavorable preliminary analysis of your water use permit application and to describe your options. In determining whether a water use permit application may be approved, the Department must consider the factors listed below, all of which must be favorable to the proposed use if it is to be allowed. Based on the information you have supplied, the Water Resources Department has made the following preliminary determinations:

Initial Review Determinations:

1. The proposed use is not prohibited by law or rule.

2. The use of water from TWO WELLS IN BEAR CREEK BASIN for NURSERY USE OF 176.29 ACRES **is not a classified use** under OAR 690-502-120, Molalla River - Pudding River Subbasin of the Willamette Basin Program. The Department's Groundwater Section has determined that the two wells have the potential for are hydraulicly interference with surface water. The surface waters of Bear Creek and tributaries are classified for storage only (OAR 690-502-120(1)(e)).

3. The Department has determined, based upon OAR 690-09, that the proposed groundwater use will have the potential for substantial interference with the nearest surface water source, namely Bear Creek. Therefore limitations to the surface water source must be applied to this application also.

4. Surface water in the amount of 1.6 CUBIC FEET PER SECOND (CFS) **is not available** at any time of the year. The surface waters of Bear Creek and tributaries are withdrawn by order of the State Engineer, Volume 7, Page 229, dated August 13, 1951.

5. Because water is not available for a full season, NURSERY USE OF 176.29 ACRES cannot be allowed.

Summary of Allowable Water Use

Because items #4 and #5 above are unfavorable, the use of 1.6 CUBIC FEET PER SECOND (CFS), BEING 1.11 CFS WELL 1 AND 0.49 CFS WELL 2 of water from TWO WELLS IN BEAR CREEK BASIN for NURSERY USE OF 176.29 ACRES is not allowable, and it appears unlikely that you will be issued a permit. At this time, you must decide whether to proceed or to withdraw your application as described below.

Please reference the application number when sending any correspondence regarding the conclusions of this initial review. Comments received within the comment period will be evaluated at the next phase of the process.

Withdrawal Refunds:

If you choose not to proceed, you may withdraw your application and receive a refund (minus a $50 processing charge per application.) To accomplish this you must notify the Department in writing by **Friday, February 15, 2002**. For your convenience you may use the enclosed "STOP PROCESSING" form.

To Proceed With Your Application:

If you choose to proceed with your application, you do not have to notify the Department. Your application will automatically be placed on the Department's Public Notice to allow others the opportunity to comment. After the comment period the Department will complete a public interest review and issue a proposed final order.

If A Permit Is Issued It Will Likely Include The Following Conditions:

1. Measurement, recording and reporting conditions:

   A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

   B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

2. To monitor the effect of water use from the well(s) authorized under this permit, the Department requires the water user to make and report annual static water level measurements. The static water level shall be measured in the month of March. Reports shall be submitted to the Department within 30 days of measurement.

Measurements must be made according to the following schedule:

Before Use of Water Takes Place
Initial and Annual Measurements
The Department requires the permittee to submit an initial water level measurement in the month specified above once well construction is complete and annually thereafter until use of water begins; and

After Use of Water has Begun
Reference Water Level Determination
Following the first year of water use, the user shall submit one static water level measurement in the month specified above which will establish the reference level against which future annual measurements will be compared. The water user is not required to measure additional water levels after the reference level has been determined unless required by the Director. The additional measurements may be required in a different month. If the measurement requirement is stopped, the Director may restart it at any time.

All measurements shall be made by a certified water rights examiner, registered professional geologist, registered professional engineer, licensed well constructor or pump installer licensed by the Construction Contractors Board and be submitted to the Department on forms provided by the Department. The Department requires the individual performing the measurement to:

(A) Identify each well with its associated measurement; and
(B) Measure and report water levels to the nearest tenth of a foot as depth-to-water below ground surface; and
(C) Specify the method used to obtain each well measurement; and
(D) Certify the accuracy of all measurements and calculations submitted to the Department.

The water user shall discontinue use of, or reduce the rate or volume of withdrawal from, the well(s) if annual water level measurements reveal any of the following events:

(A) An average water level decline of three or more feet per year for five consecutive years; or
(B) A water level decline of 15 or more feet in fewer than five consecutive years; or
(C) A water level decline of 25 or more feet; or
(D) Hydraulic interference leading to a decline of 25 or more feet in any

neighboring well with senior priority.

The period of non or restricted use shall continue until the annual water level rises above the decline level which triggered the action or until the Department determines, based on the permittee's and/or the Department's data and analysis, that no action is necessary because the aquifer in question can sustain the observed declines without adversely impacting the resource or senior water rights. The water user shall in no instance allow excessive decline, as defined in Commission rules, to occur within the aquifer as a result of use under this permit. If more than one well is involved, the water user may submit an alternative measurement and reporting plan for review and approval by the Department.

3. The amount of water used for NURSERY OPERATIONS is limited to a diversion of 0.15 cubic foot per second per acre. For the irrigation of **containerized nursery plants**, the amount of water diverted is limited to ONE-FORTIETH of one cubic foot per second (or its equivalent) and 5.0 acre feet per acre per year. For the irrigation of **in ground nursery plants** the amount of water diverted is limited to ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 2.5 acre feet per acre per year. The use of water for NURSERY OPERATIONS may be made at anytime, during the period of allowed use specified above, that the use is beneficial. For the irrigation of **any other crop**, the amount of water diverted is limited to ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 2.5 acre feet per acre during the irrigation season of each year.

4. The tentative priority date for this application is JULY 25, 2001.

The water source identified in your application is in an area in which an Agricultural Water Quality Management Area Plan is being developed. These plans are developed by the Oregon Department of Agriculture (ODA) with the cooperation of local landowners and other interested stakeholders. These plans help make sure that current and new appropriations of water are done in a way that does not adversely harm the environment. You are encouraged to contact Mike Wolf, (503) 986-4711 at the ODA to learn more about the plan and how it may affect your proposed water use.

Information obtained from the Department of Environmental Quality (DEQ)indicates that the source of water identified in your application is "Water Quality Limited". That means that there are water quality concerns. DEQ will be looking at information from your application to see if additional conditions or restrictions are needed to protect the water quality situation. One possible outcome is that the Water Resources Department will propose in the proposed final order that your application be denied. You are encouraged to contact Andy Schaedel (503)229-6121at DEQ to discuss the specifics of your application. Often, this information exchange can allow the water use to occur and at the same time keep the water quality situation from worsening.

If you have any questions:

Questions about the status of your application, processing timelines, or your upcoming Proposed Final Order should be directed to our Water Right Information Group at (503) 378-8455 extension 499. Feel free to call me at (503) 378-8455 extension 458 if you have any questions regarding the contents of this letter. Please have your application number available if you call. Address all other correspondence to: Water Rights Section, Oregon Water Resources Department, 158 12th ST. NE Salem, OR 97310, Fax: (503)378-6203.

Sincerely,

Jerry W. Gainey
Water Right Processing Technician

cc: Regional Manager, Watermaster District 16, Water Availability Section

enclosures: Flow Chart of Water Right Process
Stop Processing Form

G-15567
wab 02-151
pou 02-151
gw A

APPLICATION FACT SHEET

Mail to: Applicant, Watermaster, District Biologist (ODFW)
If necessary, also mail to : Regional Water quality manager (DEQ), and DOA

Application File Number: G-15567

Applicant: JOEL NEUSCHWANDER

County: CLACKAMAS

Watermaster: District 16

Priority Date: JULY 25, 2001

Source: TWO WELLS IN BEAR CREEK BASIN

Use: NURSERY USE OF 176.29 ACRES

Quantity: 1.6 CUBIC FEET PER SECOND (CFS), BEING 1.11 CFS WELL 1 AND 0.49 CFS WELL 2

Basin Name & Number: Willamette, #02

Stream Index Reference: Volume 15A BEAR CR

Well Locations: Well #1: SENE, SECTION 32, T 4S, R1E, W.M.; 550 FEET NORTH & 1250 FEET WEST FROM THE E 1/4 CORNER OF SECTION 32

WELL #2: SENW, SECTION 32, T 4S, R1E, W.M.; 50 FEET NORTH & 50 FEET WEST FROM THE C 1/4 CORNER OF SECTION 32

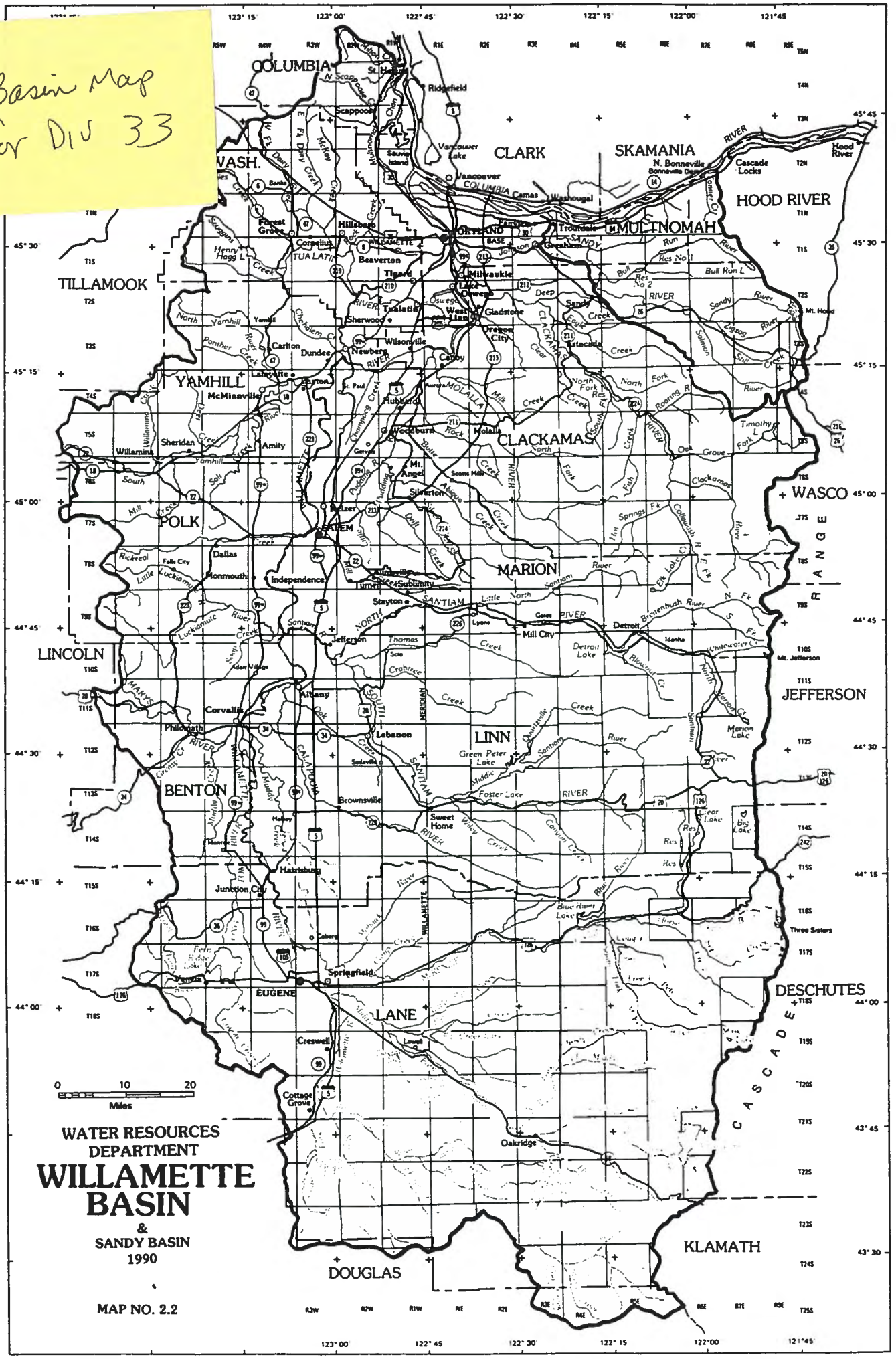
Place of Use: SWNE 40.0 ACRES, SENE 25.6 ACRES, SENW 40.0 ACRES, NESW 23.0 ACRES, NWSE 23.845 ACRES, SWSE 23.845 ACRES, SECTION 32, TOWNSHIP 4 SOUTH, RANGE 1 EAST, W.M.

14 DAY STOP PROCESSING DEADLINE DATE: Friday, February 15, 2002

PUBLIC NOTICE DATE: Tuesday, February 19, 2002

30 DAY COMMENT DEADLINE DATE: Thursday, March 21, 2002

Basin Map for Div 33



State of Oregon
Water Resources Department
158 12th Street NE, Salem, OR 97310
(503)378-8455 • (800)624-3199
www.wrd.state.or.us

Application for a Permit to Use Ground Water

Please type or print in dark ink. If your application is found to be incomplete or inaccurate, we will return it to you. If any requested information does not apply to your application, insert "n/a." Please read and refer to the instructions when completing your application. Thank you.

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JUL 25 2001
WATER RESOURCES DEPT
SALEM, OR

1. APPLICANT INFORMATION

A. Individuals

Applicant: JOEL NEUSCHWANDER
First Last

Co-applicant: _____
First Last

Mailing address: 6097 S. WHISKEY HILL ROAD

HUBBARD OR 97032
City State Zip

Phone: (503) 651-3253
Home Work Other

*Fax: _____ *E-Mail address: _____

B. Organizations

(Corporations, associations, firms, partnerships, joint stock companies, cooperatives, public and municipal corporations)

Name of organization: _____

Name and title of person applying: _____

Mailing address of organization: _____

_____
City State Zip

Phone: _____
Day Evening

*Fax: _____ *E-Mail address: _____

**Optional information*

For Department Use

App. No. G-15567 Permit No. _____ Date 7-25-01

2. PROPERTY OWNERSHIP

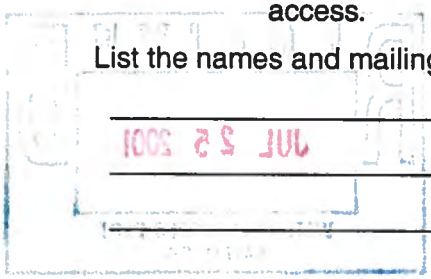
Do you own all the land where you propose to divert, transport, and use water?

☑ Yes *(Skip to section 3 "Ground water Development.")*

☐ No Please check the appropriate box below.

- ☐ I have a recorded easement or written authorization permitting access.
- ☐ I do not currently have written authorization or easement permitting access.

List the names and mailing addresses of all affected landowners.*



If more than 25 landowners are involved, a list is not required. See instructions.

3. GROUND WATER DEVELOPMENT

A. Number of well(s): 2 B. Name of nearest surface water body: BEAR CREEK

C. Distance from well(s) to nearest stream or lake: 1) 1/4 and 1/2 MILE

2) _____ 3) _____ 4) _____

D. If distance from surface water is less than one mile, indicate elevation difference between nearest surface water and well head. 1) 25'

2) 25' 3) _____ 4) _____

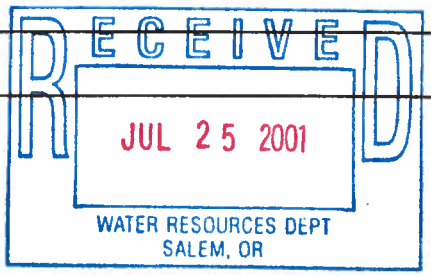
E. Well Characteristics

Wells must be constructed according to standards set by the Department for the construction and maintenance of water wells. If the well is already constructed, please enclose a copy of the well constructor's log and the well ID number, if available, for each well with this application. Identify each well with a number corresponding to the wells designated on the map and proceed to question F in this section of the form. If the well has not been constructed, or if you do not have a well log, please complete the following:

Well(s) will be constructed by: SEE ATTACHED WELL LOGS. WELL LOG CLAC 51287 AND CLAC 12700

Address: _____

Completion date: _____



2. Please provide a description of your well development. *(Attach additional sheets if needed.)*

Well No.	Diameter	Type and size of casing	No. of feet of casing	Intervals casing is perforated (in feet)	Seal depth	Est. depth to water	Est. depth to water bearing stratum	Type of access port or measuring device	Total well depth
			SEE ATTACHED WELL LOGS.						

F. Artesian Flows

If your water well is flowing artesian, describe your water control and conservation works:

N/a

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4. WATER USE

Please read the instruction booklet for more details on "type of use" definitions, how to express how much water you need and how to identify the water source you propose to use. You must fill out a supplemental form for some uses as they require specific information for that type of use.

A. Type(s) of Use(s)

See list of beneficial uses provided in the instructions.

- If your proposed use is **domestic**, indicate the number of households to be supplied with water: _____
- If your proposed use is **irrigation**, please attach Form **I**
- If your proposed use is **mining**, attach Form **R**
- If your proposed use is **municipal or quasi-municipal**, attach Form **M**
- If your proposed use is **commercial/industrial**, attach Form **Q**

Application No. 81 53671
Permit No.

B. Amount of Water

Provide the production rate in gallons per minute (gpm) and the total annual amount of water you need from each well, from each source or aquifer, for each use. You do not need to provide source information if you are submitting a well log with your application.

Well No.	Source or aquifer	Type of use	Total rate of water requested (in gpm)	Total annual quantity (in gallons)	Production rate of well (in gpm)
1	AQUIFER	NURSERY USE (AGRICULTURAL USE)	500 gpm		500 gpm
2	AQUIFER	NURSERY USE (AGRICULTURAL USE)	220 gpm		220 gpm

C. Maximum Rate of Use Requested

What is the maximum, instantaneous rate of water that will be used? 720 gpm

(The fees for your application will be based on this amount.)

D. Period of Use

Indicate the time of year you propose to use the water: YEAR-ROUND

(For seasonal uses like irrigation give dates when water use would begin and end, e.g. March 1–October 31.)

E. Acreage

If you will be applying water to land, please give the total number of acres where water will be applied or used: 174.09 acres

(This number should be consistent with you application map.)

5. WATER MANAGEMENT

A. Diversion

What equipment will you use to pump water from your well(s)?

☑ Pump (give horsepower and pump type) SEE ATTACHED WELL LOGS / 25 hp SUBMERSIBLES each (2

☐ Other means (describe) _____

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B. Transport

How will you transport water to your place of use?

☐ Ditch or canal (give average width and depth)

Width _____ Depth _____

Is the ditch or canal to be lined? ☐ Yes ☐ No

☑ Pipe (give diameter and total length)

Diameter 4" MAINLINE Length (2) QUARTER MILE MAINLINES INTO HAND LINES, then 18" RISERS.

☐ Other (describe) _____

C. Application/Distribution Method

What equipment will you use to apply water to your place of use? Low Head Sprinklers.

Irrigation or land application method (check all that apply):

- ☐ Flood
- ☐ High-pressure sprinkler
- ☑ Low pressure sprinkler
- ☐ Drip
- ☐ Water cannons
- ☐ Center pivot system
- ☑ Hand lines
- ☐ Wheel lines
- ☐ Siphon tubes or gated pipe with furrows
- ☐ Other, describe_____

Distribution method

- ☑ Direct pipe from source
- ☐ In-line storage (tank or pond)
- ☐ Open canal

D. Conservation

What methods will you use to conserve water? Why did you choose this distribution or application method? For example, if you are using sprinkler irrigation rather than drip irrigation, explain. If you need additional space, attach a separate sheet.

Hand Lines.

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6. PROJECT SCHEDULE

Indicate the anticipated dates that the following construction tasks should begin. If construction has already begun, or is completed, please indicate that date.

Proposed date construction will begin 1 August 2001

Proposed date construction will be completed 1 August 2001

Proposed date beneficial water use will begin 1 August 2001

7. REMARKS

If you would like to clarify any information you have provided in the application, please do so here and reference the specific application question you are addressing.

We apply here for 89 acres of Agriculture use @ 2.5 AF/ac for all lands irrigated under permit 16827 (certificate 20401) = 222.5 AF.
And we apply for 85.09 acres of Nursery use @ 5 AF/ac = 425.45 AF.

Application No. 71567
Permit No.

8. MAP REQUIREMENTS

The Department cannot process your application without accurate information showing the source of water and location of water use. You must include a map with this application form that clearly indicates the township, range, section, and quarter/quarter section of the proposed well location and place of use. The map must provide tax lot numbers. See the map guidelines sheet for detailed map specifications.

9. SIGNATURE

By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application packet.
- I cannot legally use water until the Water Resources Department issues a permit to me.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be canceled.
- The water use must be compatible with local comprehensive land use plans.
- Even if the Department issues a permit to me, I may have to stop using water to allow senior water right holders to get water they are entitled to, and

I swear that all information provided in this application is true and correct to the best of my knowledge:

Signature of Applicant — Date: 25 July 2001

Signature of Co-applicant — Date

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SALEM, OR

Before you submit your application be sure you have:

- Answered each question completely.
- Attached a legible map which includes township, range, section, quarter/quarter and tax lot number.
- Included a Land Use Information Form or receipt stub signed by a local official.
- Included the legal description of all the property involved with this application. You may supply a copy of the deed, land sales contract, or title insurance policy, to meet this requirement.
- Included a check payable to the Oregon Water Resources Department for the appropriate amount.

Oregon Water Resources Department
Land Use Information Form

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WATER RESOURCES DEPT
SALEM, OR

This information is needed to determine compatibility with local comprehensive plans as required by ORS 197.180. The Water Resources Department will use this and other information to evaluate the water use application. DO NOT fill out this form if water is to be diverted, conveyed, or used only on federal lands.

To Be Completed By Applicant

The following section includes information about proposed water use. This section must be completed by the individual or group that is filing an application for a water right with the Water Resources Department.

A. Applicant

Name: JOEL NEUSCHWANDER

Address: 6097 S. WHISKEY HILL ROAD

City: HUBBARD State: OR Zip: 97032 Day Phone: (503) 651-3253

B. Land and Location

Please provide information as requested below for all tax lots on or through which water will be diverted, conveyed, or used. Check "diverted" if water is diverted (taken) from its source on tax lot, "conveyed" if water is conveyed (transported) on tax lot, and "used" if water will be put to beneficial use on tax lot. More than one box may be checked. (Attach extra sheets as necessary.) Applicants for municipal use, or irrigation uses within irrigation districts, may substitute existing and proposed service area boundaries for the tax lot information requested below.

Tax Lot I.D.	Plan Designation (e.g. Rural Residential/RR-5)	Water to be: *(check all that apply)*		
900 – 905		☑ Diverted	☑ Conveyed	☑ Used
1401		☑ Diverted	☑ Conveyed	☑ Used
4-1E-32		☐ Diverted	☐ Conveyed	☐ Used

List counties and cities where water is proposed to be diverted, conveyed, or used. CLACKAMAS COUNTY

C. Description of Water Use

Indicate what the water will be used for. Include the beneficial use (found in the instruction booklet for your water right application) and use the space below to describe the key characteristics of the project.

Beneficial Use(s): IRRIGATION (NURSERY USE)

Briefly describe: COMMERCIAL NURSERY USE WITH CONTAINERIZED NURSERY STOCK AND IN-GROUND NURSERY STOCK

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SALEM, OR

Application No. G15567
Permit No.

D. Source

Indicate the source for the proposed water use:

☐ Reservoir/Pond ☑ Ground Water ☐ Surface Water _____ (source)

E. Quantity

Indicate the estimated quantity of water the use will require:

647.95 ☐ CFS ☐ GPM ☑ Acre-Feet

For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless your project will be located entirely within the city limits. In this case, only the city planning agency must complete this form. Please request additional forms as needed or feel free to copy.

A. Allowed Use

Check the appropriate box below and provide requested information.

☑ Land uses to be served by proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): 401. Go to section B "Approval" below

☐ Land uses to be served by proposed water uses (including proposed construction) involve discretionary land use approvals as listed in the table below.

Type of Land Use Approval Needed (e.g. plan amendments, rezones, conditional use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	*Check the item that applies:* Land Use Approval:	
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued

Note: *Please attach documentation of applicable local land use approvals which have already been obtained. (Record of Action plus accompanying findings is sufficient.)*

B. Approval

Please provide printed name and written signature.

Name: Terry Curry Date: 12 JULY 01

Title: SR. Planner Phone: (503) 353 4500

Signature: Terry Curry

C. Additional Comments

Local governments are invited to express special land use concerns or make recommendations to the Department regarding this proposed use of water below, or on a separate sheet.

N/A

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SALEM, OR

Note: *If this form cannot be completed while the applicant waits, sign and detach the receipt stub as instructed below. You will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD will presume the land use associated with the proposed water right is compatible with local comprehensive plans. (See attached letter.)*

//
/ ATTENTION /
/ WATER RIGHTS SECTION!!! /
//

The following point of diversions may have been filed on a restricted stream

Application	Stream	Restriction
G 15566	UNN STR > BEAR CR	WTHDRWN SEO V7 P229
G 15566	UNN STR > BEAR CR	WTHDRWN SEO V7 P229
G 15567	UNN STR > BEAR CR	WTHDRWN SEO V7 P229
G 15567	UNN STR > BEAR CR	WTHDRWN SEO V7 P229

Oregon Water Resources Department

FORM I

FOR IRRIGATION WATER USE

1. Please indicate whether you are requesting a primary or supplemental irrigation water right.

☑ Primary ☐ Supplemental

If supplemental, please indicate the number of acres that will be irrigated for each type of use.

Primary: 174.09 Acres

Secondary: _____ Acres

List the permit or certificate number of the primary water right: CERTIFICATE 20401 PERMIT 16827 no. _____

2. Please list the anticipated crops you will grow and whether you will be irrigating them for a full or partial season:

1. NURSERY STOCK CONTAINERS ☑ Full season ☐ Partial season (from:_____ to _____) YEAR-ROUND
2. _____ ☐ Full season ☐ Partial season (from:_____ to _____)
3. _____ ☐ Full season ☐ Partial season (from:_____ to _____)
4. _____ ☐ Full season ☐ Partial season (from:_____ to _____)

3. Indicate the maximum total number of acre-feet you expect to use in an irrigation season:

647.95 acre-feet

(1 acre-foot equals 12 inches of water spread over one acre, or 43,560 cubic feet, or 325,851 gallons.)

4. How will you schedule your applications of water? Will you be applying water in the evenings, twice a week, daily?

☐ Daily during daytime hours
☑ Daily during nighttime hours
☐ Two or three times weekly during daytime
☐ Two or three times weekly during nighttime
☐ Weekly, during daytime hours
☐ Weekly, during nighttime hours
☐ Other, explain: _____

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SALEM, OR

Application No. G-15567
Permit No.

STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

JUN 27 1988

WATER RESOURCES DEPT.
SALEM, OREGON

CLK 012700

START CARD 52

4S/1E-32

(1) OWNER:

Name JOEL NEUSCHWANDER

Address 6059 S WHISKEY HILL RD

City HUBBARD State OR Zip

Well Number

(2) TYPE OF WORK:

☑ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD

☐ Rotary Air ☐ Rotary Mud ☑ Cable

☐ Other

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☑ Irrigation

☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes ☐ No ☑ Depth of Completed Well 154 ft.

Explosives used Yes ☐ No ☐ Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks ~~or pounds~~
12	1	20	GRANULAR BENTONITE	1	20	11
8	20	154				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E

☑ Other GRANULAR BENTONITE METHOD

Backfill placed from ____ ft. to ____ ft. Material ____

Gravel placed from 75 ft. to 90 ft. Size of gravel PEA

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	154	.250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Location of shoe(s) 154

(7) PERFORATIONS/SCREENS:

☑ Perforations Method DRIVE DOWN

☐ Screens Type ____ Material ____

Perforations From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
88	150	3/16 X 1 1/4	400			☑	☐
						☐	☐
						☑	☐
						☐	☐
						☐	☐
						☐	☐

Application No. 49387

Permit No.

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
500	46	PUMP	1 hr.
300	21	AIR LIFT	3

Temperature of water ____ Depth Artesian Flow Found ____

Was a water analysis done? ☐ Yes By whom ____

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____

Depth of strata: ____

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude ____ Longitude ____

Township 4S N or S, Range 1E E or W, WM

Section 32 ¼ SE ¼

Tax Lot ____ Lot ____ Block ____ Subdivision ____

Street Address of Well (or nearest address) S. NEEDY RD, CANBY

(10) STATIC WATER LEVEL:

29 ft. below land surface. Date 5/25/

Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:

Depth at which water was first found 31

From	To	Estimated Flow Rate	S
82	102	800 GPM	
115	132	500 GPM	

(12) WELL LOG:

Ground elevation ____

Material	From	To	S
SOIL	1	3	
CLAY BROWN	3	31	
SAND BROWN	31	31	
CLAY GREY	31	42	
CEMENTED GRAVEL	42	63	
CLAY DK GREY	63	70	
SILT BLACK	70	82	
SAND BLACK FINE	82	92	
CEMENTED GRAVEL	92	105	
CLAY BLUE STICKY	105	115	
CLAY GREY W/ GREY SAND LAYERS	115	132	
CLAY GREEN	132	144	
SILT DARK BROWN.	144	147	
CLAY BLUE GREEN	147	154	
INITIALLY PERFORATED 115 TO 150 I AM PRODUCED 150 GPM, total. THEN GRAVEL PACKED 75-102 & 115-132, perforations 88' TO 115'. THEN PRODUCED 300 GPM WITH 21' DRAWDOWN.			

Date started 5/13/88 Completed 5/25/88

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my knowledge and belief.

RECEIVED JUL 25 2001 WATER RESOURCES SALEM, OREGON

WWC Number ____

Signed ____ Date ____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 245

Signed Richard Beck Date 5/25/88

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9809C

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"START CARD"

NOTICE OF BEGINNING OF WELL CONSTRUCTION

(as required by ORS 537.762)

MAY 1988
WATER RESOURCES DEPT.
SALEM, OREGON

This form must be completed, signed by both the owner (or authorized agent) and constructor, and the original delivered to the Water Resources Department prior to commencement of construction, alteration or abandonment of each well.

Owner's Name and Mailing Address: JOEL WEUSCHWANDER
6097 S WHISKEY HILL RD
HUBBARD OR.

Proposed Commencement Date: MAY 12, 1988

Proposed Well Depth: 160 Diameter: 8

and Use:
- ☐ Domestic
- ☐ Community
- ☐ Industrial
- ☒ Irrigation
- ☐ Thermal
- ☐ Injection
- ☐ Other

Proposed Well Location: County: CLACKAMAS

Township: 4 S (N or S) Range: 1 E (E or W) Section: 32

At least 2 of these must be provided:
1. ¼ 1/4 of SE 1/4 of above section
2. street address of well location
3. tax lot number of well location
4. attach approved map with location identified. (see reverse of this form for approved maps)

We hereby certify that we have read the back of this form, and that to the best of our knowledge the information provided herein is accurate and the well is being properly located from septic tanks and septic drain fields.

x Joel Weuschwander
Owner's Signature

Owner
Title

4/16/88
Date

x Richard Beck
Bonded Water Well Constructor

License No. 743

Company Beck Well Drilling

Note: This is not a Water Right application. The owner is responsible for obtaining a Water Right through the Water Resources Department if required.

Form 537.762 1987

Application No. gr 5567
Permit No.

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Well Log Report - Page 1 of 1

Township: 4S, Range: 1E, Section: 32, County: CLAC, Last Name contains: neuschwander, Well Log ID: CLAC 12700

Click on the column heading to re-sort the results, Click on Well Log to view image, Click here if you are having problems

Well Log	T-R-S/ Q-QQ	Taxlot	Street of Well	Owner	Company	Well Type	First Water	Completed Depth	Static Water Level	Yield	Completed Date	Received Date	E Co
CLAC 12700	4S-1E-32 -SE		S NEEDY RD, CANBY 97013	NEUSCHWANDER , JOEL		W	31	154	29	500	5/25/1988	6/27/1988	RI

Go to page: 1

WELL 1

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Application No. g-15567
Permit No.

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SALEM, OREGON

CLAC 51287

TAG # L02078

62424

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

(START CARD) #

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number

Name Neuschwander's Nursery

Address 6097 S. Whiskey Hill Rd

City Hubbard State Or Zip 97032

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[ ] Rotary Air [ ] Rotary Mud [X] Cable [ ] Auger

[ ] Other

(4) PROPOSED USE:

[ ] Domestic [ ] Community [ ] Industrial [X] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [ ] No Depth of Completed Well 140 ft.

Explosives used [ ] Yes [ ] No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12	1	50	Bentonite	1	50	35 sacks
8	50	140				

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E

[X] Other Granular Bentonite method

Backfill placed from ft. to ft. Material

Gravel placed from 60 ft. to 120 ft. Size of gravel pea

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	0	140	.25	X		X	
Liner:								

Final location of shoe(s) 140

(7) PERFORATIONS/SCREENS: Drive Down

[X] Perforations Method

[ ] Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
76	119	.188	600			X	

Application No. 75567
Permit No.

(8) WELL TESTS: Minimum testing time is 1 hour

[ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
		air line @	1 hr.
220		105	4 hr

Temperature of water 53 Depth Artesian Flow Found

Was a water analysis done? [ ] Yes By whom

Did any strata contain water not suitable for intended use? [ ] Too little

[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other

(9) LOCATION OF WELL by legal description:

County CLACKAMAS Latitude Longitude

Township 4s N or S Range 1e E or W. WI

Section 32 Se 1/4 Nw 1/4

Tax Lot 900 Lot Block Subdivision

Street Address of Well (or nearest address)

29435 S Needy Rd

(10) STATIC WATER LEVEL:

47 ft. below land surface. Date Sep 10

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 40

From	To	Estimated Flow Rate
40	140	

(12) WELL LOG:

Ground Elevation

Material	From	To	S
Soil	1	3	
Clay, Brown	3	38	
Cemented gravel, brown	38	54	
Clay, grey	54	58	
Clay, grey, sandy	58	60	
Sand, black, fine	60	69	
Sand and gravel, black	69	71	
Cemented gravel, sand	71	74	
Sand & gravel	74	95	
Clay, blue	95	98	
clay, grey, silty	98	101	
Silt, dark grey	101	108	
Clay w/black coarse sand	108	116	
Clay, grey w/some cemented gravel	116	136	
Clay, blue	136	140	
Note: 6 inch gravel feed each side of			
8 inch well			

Date started August 8, 1996 Completed Dec 10, 1996

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or aband of this well is in compliance with Oregon water supply well construction stan Materials used and information reported above are true to the best of my knov and belief.

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WWC Number

Signed Date

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment wo performed on this well during the construction dates reported above. All wor performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and b

WWC Number 74

Well Log Report - Page 1 of 1

Township: 4S, Range: 1E, Section: 32, Last Name contains: neuschwander, Well Log ID: CLAC 51287

Click on the column heading to re-sort the results, Click on Well Log to view image, Click here if you are having problems

Well Log	T-R-S/ Q-QQ	Taxlot	Street of Well	Owner	Company	Well Type	First Water	Completed Depth	Static Water Level	Yield	Completed Date	Received Date	Bo Cons
CLAC 51287	4S-1E-32 SE-NW	900	29435 S NEEDY RD	NEUSCHWANDER , JOEL	NEUSHWANDERS NURSERY	W	40	140	47	220	12/10/1996	1/9/1997	B RIC BEC DRI

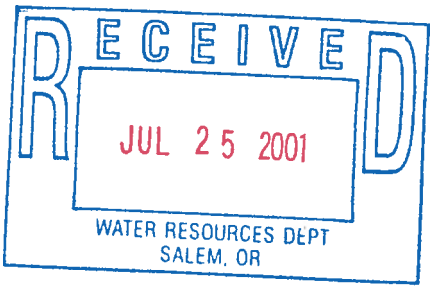
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WELL 2

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▶Return to GRID Query Screen



Application No. GX 3567
Permit No.

20T
30

WARRANTY DEED

A. JOEL NEUSCHWANDER and CAROLYN R. NEUSCHWANDER, husband and wife, Grantors, convey to A. JOEL NEUSCHWANDER and CAROLYN R. NEUSCHWANDER Trustees or their successors in trust, under the NEUSCHWANDER 001 LIVING TRUST DATED January 14, 1994, and any amendments thereto, Grantee, the following described real property situated in the county of Clackamas, state of Oregon:

SEE EXHIBIT "A" ATTACHED HERETO

Grantors covenant that Grantors are seized of an indefeasible estate in the real property described above in fee simple, that Grantors have good right to convey the property, that the property is free from encumbrances except as specifically set forth herein, and that Grantors warrant and will defend the title to the property against all persons who may lawfully claim the same by, through, or under Grantors, provided that the foregoing covenants are limited to the extent of coverage available to Grantors under any applicable standard or extended policies of title insurance, it being the intention of the Grantors to preserve any existing title insurance coverage.

This deed is executed to partially fund a trust of Grantors, and the true and actual consideration stated in terms of dollars is NONE. a WD

The following is the notice as required by Oregon law: "THIS INSTRUMENT WILL NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES AND TO

MAIL TAX STATEMENTS TO:

No Change

AFTER RECORDING RETURN TO:

A. Joel and Carolyn Neuschwander
6097 S. Whiskey Hill Road
Hubbard, OR 97032

Application No. G 5567
Permit No.

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EXHIBIT A

41E32 00900

PARCEL I:

BEGINNING 237 rods North of the Southeast corner of the Southwest one-quarter of Section 32, Township 4 South, Range 1 East of the Willamette Meridian; running thence West 10.00 rods; thence South 70.00 rods; thence East 10.00 rods; thence North 70.00 rods to the place of beginning.

ALSO, beginning at a point 25.00 chains North and 25.00 chains East of the Southwest corner of said Section 32; thence running East 12.50 chains; thence North 32.00 chains; thence West 12.50 chains and thence South 32.00 chains to the place of beginning.

ALSO, Lots 3 and 4, of said Section 32, Township 4 South, Range 1 East of the Willamette Meridian.

EXCEPT the following:

BEGINNING at the Northwest corner of the James Wilson land above described in Section 32, Township 4 South, Range 1 East of the Willamette Meridian; thence East 200 feet, more or less, to the East line of a tract of land conveyed to Carl E. Hilton in Book 124, Page 437, Clackamas County Deed Records; thence South along the East line of said Hilton land, 100 feet, more or less, to the Southeast corner thereof; thence West along the South line of said Hilton land 200 feet, more or less, to the West line of said James Wilson land; thence North on West line of said James Wilson land, 100 feet, more or less, to the place of beginning.

EXCEPTING THEREFROM a tract of land in the Northeast one-quarter of Section 32, Township 4 South, Range 1 East of the Willamette Meridian, described as follows:

BEGINNING at a point on the South line of that tract conveyed to Ivan R. Hanson and wife, by Deed Recorded June 1, 1945, in Book 345, Page 65, Clackamas County Deed Records, which is 208 feet West of the East one-quarter corner of said Section 32; thence continuing West along said South line 1959.20 feet to a point; thence North parallel with the East line of said Section 32, a distance of 1237.50 feet to a point on the North line of said Hanson Tract; thence East along said North line 2167.20 feet to the East line of said Section 32; thence South along said East line 1029.50 feet to the Northeast corner of that tract conveyed to Joseph C. Dula and wife, by Deed Recorded January 18, 1973, Recorder's Fee No. 73-1774, Clackamas County Records; thence West along the North line of said Dula Tract 208 feet to the Northwest corner thereof; thence South 208 feet along the West line of said Dula Tract to the place of beginning.

EXCEPT that portion lying within public roads.

PARCEL II:

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Application No. S51537
Permit No.

4 1E32 00980

That part of Section 32, Township 4 South, Range 1 East of the Willamette Meridian, in Clackamas County, Oregon, described as follows:

2640 2640 165' 165' 790

BEGINNING at a point that is 160 rods East and 160 rods North and 10 rods West and 60 rods South of the Southwest corner of said Section; thence East 10 rods; thence North to the South line of that certain tract conveyed to Ivan R. Hanson, et ux, by Deed Recorded June 1, 1945 in Book 345, Page 65, Clackamas County Deed Records; thence West along the South line of said Hanson Tract 10 rods to a re-entrant corner of said Hanson Tract; thence South along an East line of said Hanson Tract to the place of beginning.

980

PARCEL III: 165' 4 1E32 00990

Part of the Southeast one-quarter of Section 32, Township 4 South, Range 1 East of the Willamette Meridian, in Clackamas County, Oregon, described as follows:

BEGINNING at the Northwest corner of that certain tract conveyed to Solon Kinzer, et ux, by Deed Recorded November 23, 1946, in Book 379, Page 201, Clackamas County Deed Records, said point being the center of said Section 32 and also the Southwest corner of Government Lot 3 of said Section; thence East along the South line of said Government Lot 3, 15 chains to a point 25 chains East of the East one-quarter corner of said Section; thence South 10 chains; thence West 15 chains to the one-quarter section line; thence North along said one-quarter section line 10 chains to the point of beginning.

990

PARCEL IV:

Application No. 69567
Permit No.

An Easement for ingress and egress described as follows:

The West 20.0 feet of a tract of land described as:

ESMT

A tract of land being a part of the Southeast one-quarter of Section 32, Township 4 South, Range 1 East of the Willamette Meridian, in Clackamas County, Oregon, described as follows:

BEGINNING at a point on the North and South centerline of said Section 32, which is South 660 feet from the center of said Section 32, said point also being the Southwest corner of that tract of land conveyed to Ivan R. Hanson, et ux, by Deed recorded September 14, 1951 in Deed Book 448, Page 511, Clackamas County Deed Records; thence continuing South along the centerline of said Section 32, 1980 feet to the South line of said Section 32; thence East along the South line of Section 32, 1320 feet to the Southwest corner of the Southeast one-quarter of the Southeast one-quarter of said Section 32; thence North along the West line of the East one-half of the Southeast one-quarter of said Section 32, 1980 feet to the South line of that tract of land conveyed to Glenn E. Ruud, et ux, by Deed Recorded August 17, 1950 in Deed Book 435, Page 81, Clackamas County Deed Records; thence West along the South line of the said Ruud Tract and the South line of the said Hanson Tract 1320 feet to the point of beginning.

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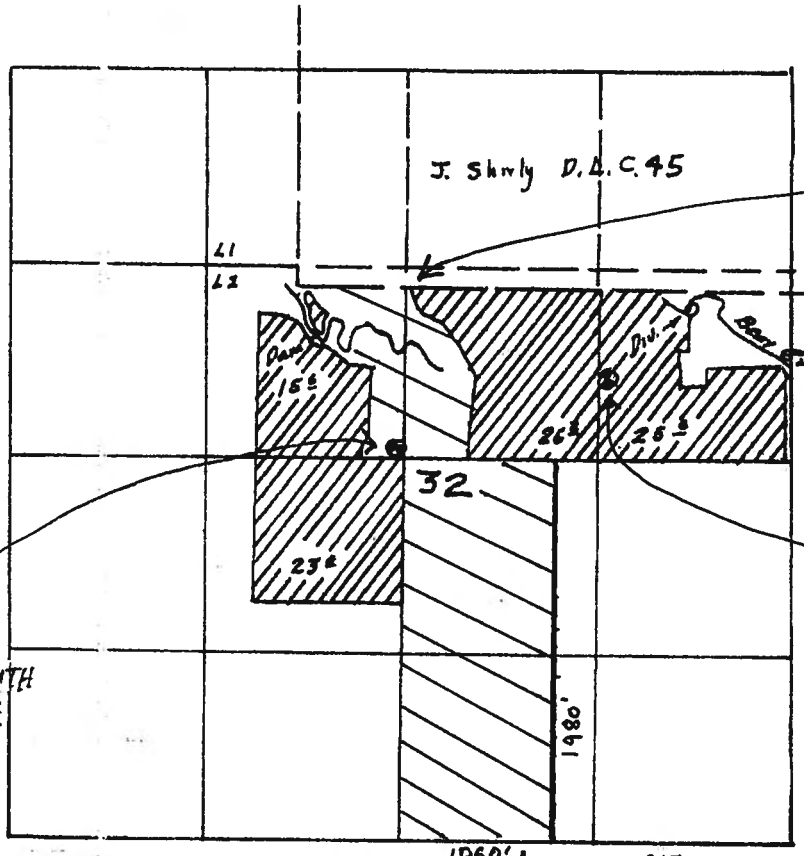
94-0578??3

APPLICANT:
JOEL NEUSCHWANDER
6097 S. WHISKEY HILL Rd.
HUBBARD, OR 97032
(503) 651-3253

T. 4 S., R. 1 E., W.M.
SECTION 32

N

(1" = 1320')



AREA TO BE IRRIGATED IN TAX LOT 900:
13.8 acres in SW1/4 NE1/4
PLUS 24.4 acres in SE1/4 NW1/4.
TOTAL: 37.4 acres

WELL No. 1 is 1,250' from the EAST LINE of the SECTION (32), AND 550' from the SOUTH LINE of the SE1/4 NE1/4 Sec. 32.

WELL No. 2 is 50' WEST & 50' SOUTH of the SE CORNER of the NW1/4 of SECTION 32.

AREA TO BE IRRIGATED IN TAX LOT 1401:
47.69 acres ⇒ 23.845 ac in NW1/4 SE1/4; AND 23.845 ac. in SW1/4 SE1/4

Application No. G-15567
Permit No.

= 89 acres: LANDS IRRIGATED UNDER CERTIFICATE 20401 (PERMIT No. 16827) (APP. No. 21449)

= LANDS TO BE IRRIGATED UNDER PERMIT G-15567 WITH THIS APPLICATION.
85.09 ACRES.

[redacted]

INCLUDING: App. No 21449 Permit No. 16827
IN NAME OF
I. R. Hanson

Surveyed July 8 1963 by H. L. Coffman

AND NEW LANDS.

[redacted]

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