

Claim Of Beneficial Use And Site Report
Application G-13889, Permit G-13090
Paul A. Liddell

INFORMATION:

The project is for use of waters of a well in the Milton Creek Basin for Nursery Operations. The permittee's address and the site location are at 31612 Pittsburg Road St. Helens, Oregon 97051.

Paul Liddell was interviewed at the site by the CWRE on March 10, 2003. He assisted the CWRE in locating the irrigated area and provided information about the crops grown and water use.

SUMMARY:

Of the 11.75 acres permitted, 1.57 acres has been developed as determined by measurement on March 27, 2003. The pump capacity is 0.66 cfs at 36 psi.

WATER SOURCE:

The water source is one well in the Milton Creek Basin not from two wells as stated in the permit.

DIVERSION POINT AND LOCATION:

The well location measured from the center of Section 27, Township 5 North, Range 2 West, Willamette Meridian, Columbia County, Oregon on March 10, 2003. It is south 344.87 feet and east 552.58 feet from the section corner. The location as requested in the permit is south 326.04 feet and east 555.39 feet.

NURSERY OPERATIONS INFORMATION:

The green houses are watered by a combination of rainbird nozzles (2.16 gpm) and spinners (0.462 gpm), 162 in all.

The outside runs are watered by 22 rainbird nozzles (2.1 gpm). There is approximately 335 feet of 6" pipe, 327 feet of 4" pipe and 3061 feet of 2" pipe.

COMPUTATIONS:

Maximum rate allowed by permit. Maximum rate 0.969 cfs. Area 11.75 acres. $0.969 \div 11.75 \text{ acres} = 0.0825 \text{ cfs} \times 1.57 \text{ acres} = 0.1295 \times 60 \times 60 \times 24 \times 365 = 4,083,120.2 \text{ cubic feet per year} \times 7.4825 = 30,543,781 \text{ gallons per year.}$

Maximum rate allowance by formula. $1/40 \text{ cfs} = 0.025 \text{ cfs} \times 1.57 \text{ acres} = 0.03925.$

$5 \text{ acre feet} = 5 \times 43560 \times 1.57 = 341,946 \text{ cubic feet} \div 365 \div 24 \div 60 \div 60 = 0.0108 \text{ cfs.}$

$0.039 + 0.011 = 0.050 \text{ cubic feet per second per year} = 11,795,252 \text{ gallons per year.}$

Actual use by measurement. 300 gpm @ 36 psi. 5 hours per day. 3 days per week. $3 \times 52 = 156$ days per year. $300 \times 60 \times 5 \times 156 = 14,040,000$ gallons per year $\div 7.4805 = 1,876,882$ cubic feet per year $\div 365 \div 24 \div 60 \div 60 = 0.060$ cfs.

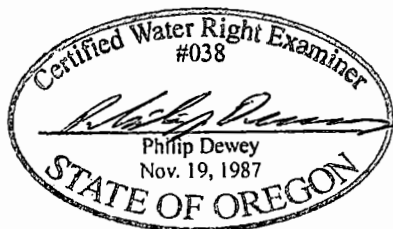
PERMIT CONDITIONS:

- A. A flow meter has been installed in the mainline near the wellhead and was in good working order on March 27, 2003, when viewed by the CWRE.
- B. The watermaster may have access to the meter with reasonable notice to the permittee.
- C. As of this time the director has not required time limits for start of construction and complete application of the water have been met, including the allowance for extension of time issued by Oregon Department of Water Resources.

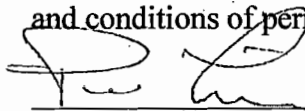
CERTIFICATION:

The final proof survey and inspection of the use as found to be complete under the terms and conditions of permit G-13090 was completed by me on March 27, 2003. The facts contained in this report and accompanying final proof survey map are correct to the best of my knowledge.

Philip Dewey, P.L.S.
Certified Water Rights Examiner



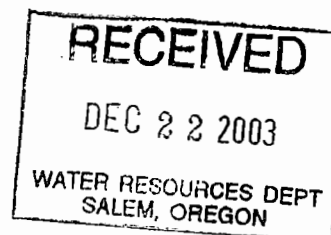
I, Paul A. Liddell, the permittee, agree to the findings of the CWRE and submit this site report and map as my Claim of Beneficial Use of the water as provided under the terms and conditions of permit G-13090.



Paul A. Liddell

12/22/03

Date



Center of Section 27
2" Iron Pipe found

S 88°32'33"E 330.00'

Basis of Bearings
(S88°32'33"E 1315.39') CS 3820
S88°32'33"E 1315.37' measured

S 88°32'33"E 330.00'

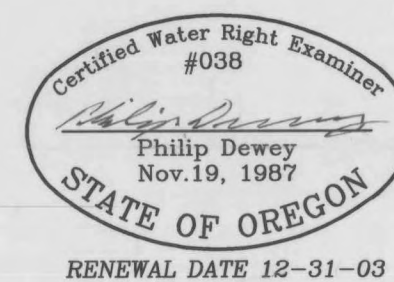
S 88°32'33"E 655.37'

East 1/16 Corner
1-1/2" Iron Pipe
Found in Road

N

Scale: 1" = 50'

DF 03020
SF 03020
FB 433, PG 22-33



Surveyed By
Dewey Surveying Inc.
County Courthouse
St. Helens, Oregon 97051
(503) 397-2316

Final Proof Survey for Application No.
G-13889 and Permit No. G13090 for
Paul Liddell
in the N.W. 1/4 of the S.E. 1/4 of
Section 27, T.5 N., R.2 W., W.M.
Columbia County, Oregon

May 19, 2003

Disclaimer:

Preparation of this map is for the
purpose of identifying the location of
the Water Right only. There is no intent
to provide dimensions or location of
property ownership lines.

Legend:

- Denotes Monument found as noted.
- ◆ Denotes Well location.
- Denotes Calculated Point not set or found.
- ⊕ Denotes Stand Pipe.
- ⊙ Denotes Fire Hydrant.
- 6—6—6— Denotes 6" Pipeline.
- 4—4—4— Denotes 4" Pipeline.
- 2—2—2— Denotes 2" Pipeline.

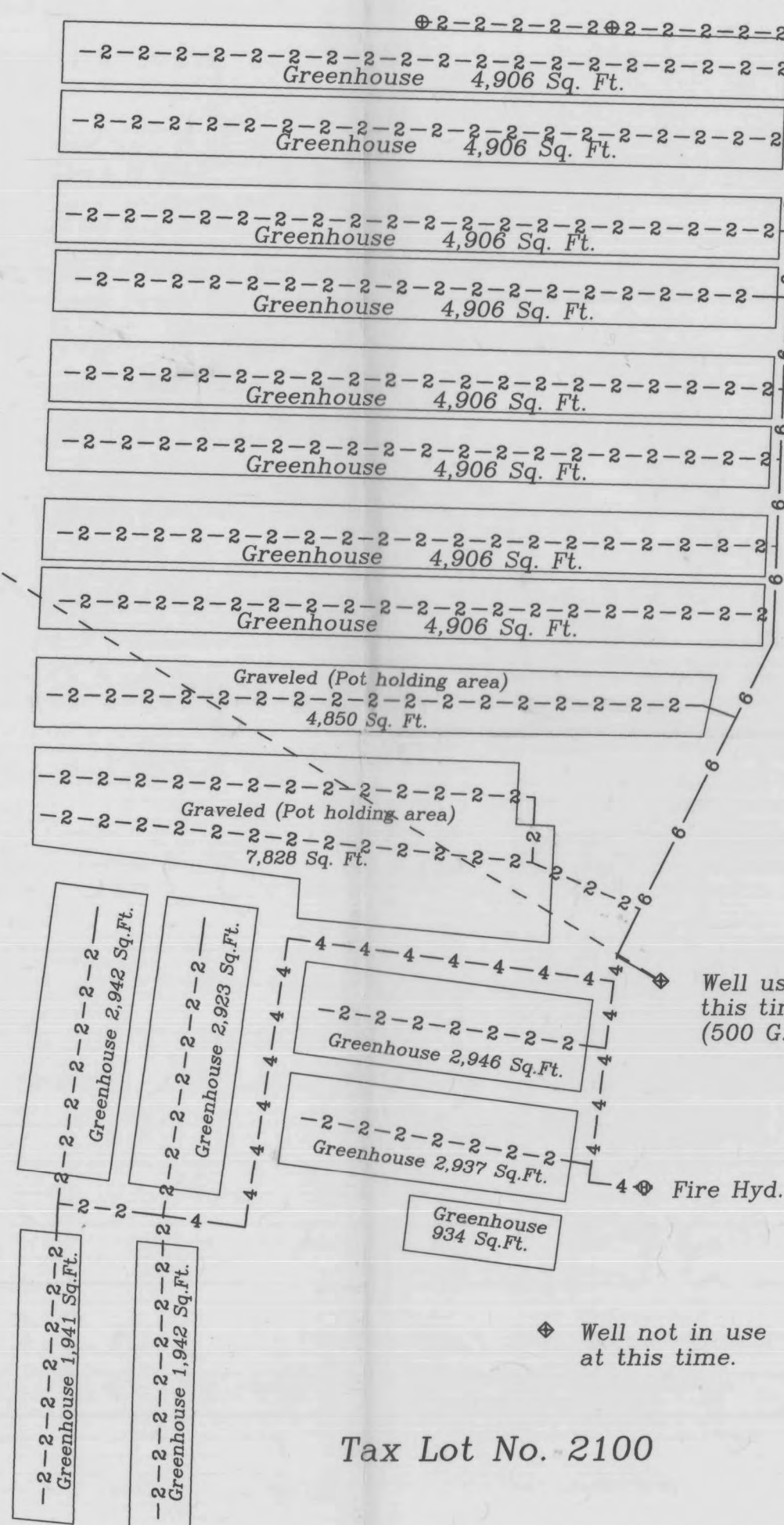
Notes:

Area within Greenhouses, 55,813 Square Feet.
Area outside of Greenhouses, 12,678 Square Feet.
Total area watered is 68,491 Square Feet. (1.57 Ac.)

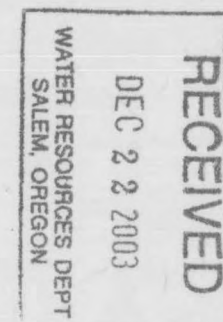
The total length 6" Pipe is 335 Feet.
The total length 4" Pipe is 327 Feet.
The total length 2" Pipe is 3,061 Feet.

This map was prepared holding data
from County Survey map No.3820.

S 00°34'06"W



Tax Lot No. 2100





Oregon

Theodore R. Kulongoski, Governor

Water Resources Department

North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1266
503-986-0900
FAX 503-986-0904

December 1, 2008

PAUL LIDDELL
31612 PITTSBURG RD
SAINT HELENS, OR 97051

Subject: Water Right Permit Number G- 13090

Dear Permit holder,

Oregon Administrative Rule 690-217-0020(1) requires that ground water permit holders with a priority date after December 20, 1988, submit the results of a pump test before the Water Resources Department can issue a water right certificate. A copy of your permit is enclosed. The purpose of this letter is to remind you of the pump test requirement.

Pump tests are intended to provide aquifer and well information for ground water resource characterization and to help solve well problems. There is no penalty for not submitting a pump test.

If there is a reason why a pump test cannot be performed on a well, the owner may request from the Director an exemption from the pump test requirement. Requests shall be in writing and include the reason why a pump test cannot be performed. Exemptions, or conditioned exemptions, shall be granted if the reasons are found to be valid and eliminating the problem would place an unreasonable burden on the well owner. Exemptions shall be granted for public water supply wells if pump testing will cause interruption of service to customers.

Pump tests shall not be required of wells with diameters greater than 36 inches and depths less than 30 feet. Pump tests shall not be required of collector-type wells or infiltration galleries. If your well meets one of these two requirements please let us know.

If you are interested in conducting the pump test yourself, you should first review the requirements at http://arcweb.sos.state.or.us/rules/OARS_600/OAR_690/690_217.html or ask that a copy of the rules be sent to you.

A copy of the pump test form has been included. If you have questions, if you are not the owner of a ground water permit or if you have moved, please call the Department at 503-986-0900.

Sincerely,

Diana Durbin
Water Rights Certificate Staff

C: Permit File



690-217-0050

Qualifications for Conducting Pump Tests

Only pump tests conducted by the well owner, a full-time employee of the well owner who routinely works with and is familiar with wells and pumps, or a qualified individual authorized by the well owner shall be accepted by the Director. Individuals in the following groups will be considered qualified and authorized provided they have significant experience conducting pump tests:

- (1) Oregon licensed water well constructors.
- (2) Oregon registered professional geologists or certified engineering geologists.
- (3) Certified water rights examiners.
- (4) Oregon registered professional engineers.
- (5) Individuals whose primary occupation involves, wholly or in significant part, pump installation, service or testing.

STATE OF OREGON

COUNTY OF COLUMBIA

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

PAUL A. LIDDELL
31612 PITTSBURG RD
ST HELENS, OREGON 97051

(503) 397-3830

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

APPLICATION FILE NUMBER: G-13889

SOURCE OF WATER: TWO WELLS IN MILTON CREEK BASIN

PURPOSE OR USE: AGRICULTURAL USE AND IRRIGATION OF 11.75 ACRES

MAXIMUM RATE: 0.969 CUBIC FOOT PER SECOND

PERIOD OF USE: YEAR ROUND FOR AGRICULTURAL USE; MARCH 1 THROUGH OCTOBER 31 FOR IRRIGATION

DATE OF PRIORITY: NOVEMBER 23, 1994

POINT OF DIVERSION LOCATION: NW 1/4 SE 1/4, SECTION 27, T5N, R2W, W.M.;
WELL #1 - 517.28 FEET EAST AND 447.98 FEET SOUTH, WELL #2 - 555.39 FEET
EAST AND 326.04 FEET SOUTH, BOTH FROM THE C 1/4 CORNER OF SECTION 27

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 of the year 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.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

PARCEL 2 SW 1/4 NE 1/4 1.0 ACRE
PARCEL 1 NW 1/4 NE 1/4 10.75 ACRES
SECTION 27
TOWNSHIP 5 NORTH, RANGE 2 WEST, W.M.

Application G-13889 Water Resources Department

PERMIT G-13090

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.
- 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.
- C. The Director may require the permittee to keep and maintain a record of the amount (volume) of water used and may require the permittee to report water use on a periodic schedule as established by the Director. In addition, the Director may require the permittee to report general water use information, the periods of water use and the place and nature of use of water under the permit. The Director may provide an opportunity for the permittee to submit alternative reporting procedures for review and approval.

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.

STANDARD CONDITIONS

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.

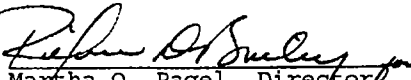
By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

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.

Actual construction of the well shall begin within one year from permit issuance, and shall be completed on or before October 1, 1998. Complete application of the water to the use shall be made on or before October 1, 1999.

Issued January 22, 1997



Martha O. Pagel, Director
Water Resources Department

Application G-13889 Water Resources Department
Basin 02 Volume 4, MILTON CREEK & MISC.
 MGMT.CODES 7BG, 7BR

PERMIT G-13090
District 01

Oregon Water Resources Department
PUMP TEST FORM COVER SHEET

Well Owner:

Name: _____
Address: _____
County: _____
City: _____ State: _____ Zip: _____
Original owner (from well log): _____

Well Location:

Township: _____ (N/S) Range: _____ (E/W)
Section: _____ 1/4: _____ 1/16: _____ 1/64: _____
Well depth: _____ Date drilled: _____
Owners well no. (if any): _____
POD ID: _____

Water Right Information:

Application: _____ Permit: _____ 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: _____ Well Owner? ☐ Yes
Company: _____
Address: _____ Date of Test: _____
City: _____ State: _____ Zip: _____
Daytime phone: _____

Method of discharge measurement (see our brochure for acceptable methods): _____

Method of water-level measurement (pick one or enter other method used): _____

Length of air line (if used): _____

Pump type (pick one or enter other method used): _____

Was the pump test conducted during normal use of the well? ☐ Yes Note: _____

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: _____

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 1/4 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 _____ surface water body.

Description of measuring point (e.g. top port of 1 inch port pipe, west side) _____

Measuring point distance _____ land surface _____ 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
_____	_____	_____
_____	_____	_____
_____	_____	_____

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)
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Time pump turned on: Date _____ Time _____
Time pump turned off: Date _____ Time _____
Total pumping time: _____ 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 2/9/2000

Required Signature: _____

PUMP TEST DATA SHEET

Page ____ of ____

Application: _____ Permit: _____ Certificate: _____ Pod Id: _____

Drawdown Data

Recovery Data

[illegible]

TO: Water Rights Section

Aug 12, 1996

FROM: Groundwater/Hydrology Section Doug Woodcock

Reviewer's Name

SUBJECT: Application G- 13889

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE W.I.L. Basin rules, one or more of the proposed POA's is/is not within 1/4 feet/mile of a surface water source (MILTON CR) and taps a groundwater source hydraulically connected to the surface water.
2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use
 - a. will, or have the potential for substantial interference with the nearest
 - b. ✓ will not surface water source, namely MILTON CR; 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

3. 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. ✓ will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
 - i. ✓ The permit should contain condition #(s) 7B;
 - 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
4.
 - 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: THIS REVIEW — BASED UPON NEW DATA SUBMITTED
BY APPLICANT — SUPERCEDES REVIEW OF 12/13/94.

(Well Construction Considerations on Reverse Side)

G-13889

TO: Water Rights Section

Dec 13, 1994

FROM: Groundwater/Hydrology Section D. Woodcock

Reviewer's Name

SUBJECT: Application G- 13889

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE _____ Basin rules, one or more of the proposed POA's is/is not within _____ feet/mile of a surface water source (_____) and taps a groundwater source hydraulically connected to the surface water.
2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use
 - a. ☒ will, or _____ have the potential for substantial interference with the nearest
 - b. ☐ will not _____ surface water source, namely MILTON CR; 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

3. 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. ☒ will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
 - i. ☒ The permit should contain condition #(s) 4E;
 - 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
4.
 - 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)

13889

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)

MEMO

April 12, 1996

FROM GW: Down Malle
(Reviewer's Name)

☐ Yes☐ No☐ Yes☒ No☒[illegible]

WATER RESOURCES DEPARTMENT MEMORANDUM

TO: Groundwater/Hydrology Files

Date Dec 13, 1994FROM: D. WoodcockSUBJECT: Groundwater Application G- 13884⁹

Phone: _____

Name: _____

Applicant(s) seek 435 gpm(_____ cfs) from 2 well(s) in the COLUMBIA basinProposed use: _____ MILTON CR sub basin
_____ sub basin.

Pertinent 7 1/2 - minute quads

TRENHOLM

Well 1 WRD# NOT ASSIGNED T 5 N R 2 W S 27 Q 00 NW SE County COLUMBIA
 Legal Description APPROX. 517' E + 447' S OF CENTER OF SEC 27
 Well is ~ 80 ft from MILTON CR (river/stream)
 Well is _____ ft from _____ (river/stream)
 Well elevation ~ 250 ft River/stream elevation CLOSE ft.
 Well elevation - river/stream elevation 20 ft ? (FROM APPLICATION)
 Well depth 54' SWL 11 on 8-2-80
 Sealed to 18' Depth first water found 30'
 Cased to 29' Perforations/screens _____
 Lined to _____ Perforations/screens _____
 Well tests and types _____
 Confined or unconfined? UNCON TO SEMI Hydraulically connected? YES
 Potential to cause substantial interference? YES

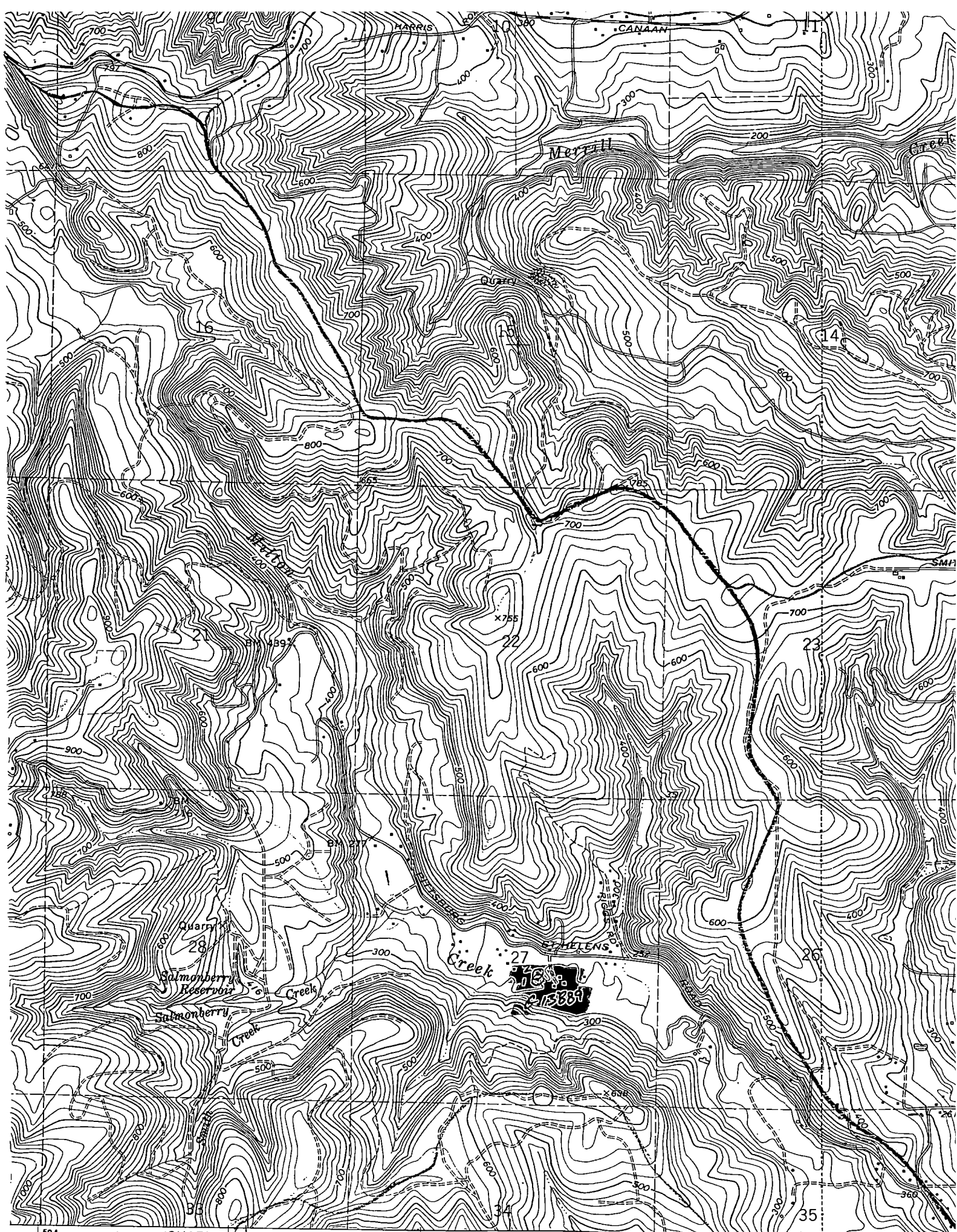
Well 2 WRD# COLL 854 T 5 N R 2 W S 27 Q 00 NW SE County _____
 Legal Description APPROX. 326' S + 555' E OF CENTER OF SEC 27
 Well is ~ 90 ft from MILTON CR (river/stream)
 Well is _____ ft from _____ (river/stream)
 Well elevation ~ 250 ft River/stream elevation CLOSE ft.
 Well elevation - river/stream elevation 20 ft (?)
 Well depth 300 SWL 20 on 6-7-94
 Sealed to 18 Depth first water found 40 ft
 Cased to 19 Perforations/screens _____
 Lined to _____ Perforations/screens _____
 Well tests and types _____
 Confined or unconfined? UNCON TO SEMI Hydraulically connected? YES
 Potential to cause substantial interference? YES

Conditioned water rights in area: 0Other nearby water rights of record: SEE ATTACHED STREAM INDEX

Density of nearby wells of record: _____

Comments WELLS DEVELOPED IN FRACTURED (?) SANDSTONE. THEY'RE CASED 19 & 29 FEET RESPECTIVELY. BOTH ARE LESS THAN 100 FT FROM MILTON CR. FIRST WATER FOUND IS SHALLOW (30 & 40 FT). WELL LOGS INDICATE SWLS ARE VERY CLOSE TO SURFACE WATER ELEVATION. LOW YIELD FORMATION, YET WELL 2 INDICATES 400 GPM AIR TEST. - QUESTIONABLE WHETHER IT CAN SUSTAIN THIS RATE OF APPROPRIATION. POTENTIAL FOR INTERFERENCE. - (AND WATER FIRST FOU
 References used: _____

* NOTE: WELL 2 IS MISLOCATED ON LOG



(CHAPMAN)
1475 IV SW
SCALE 1:24,000

W

REVIEW CHECKLIST

FOR G- 13889

- ☒ Xerox appropriate parts of the stream index.
- ☒ Estimate number of wells within one mile radius and identify types.
- ☒ Verify that the well log is in application file. If not, provide one.
- ☒ List of state observation wells within five mile radius.
- ☒ List groundwater permits within five mile radius with extraordinary conditions.

WELLS:

Colu 1

	DO	UN	IR	
5N 2W 27 NWN E	16	1		17
26	10			10
23	8	2		10
22	1			1
21	7			7
28	3			3
33	1			1
34	4			4
35	16	2	2	10
	56	5	2	63

OBSERVATION WELLS:

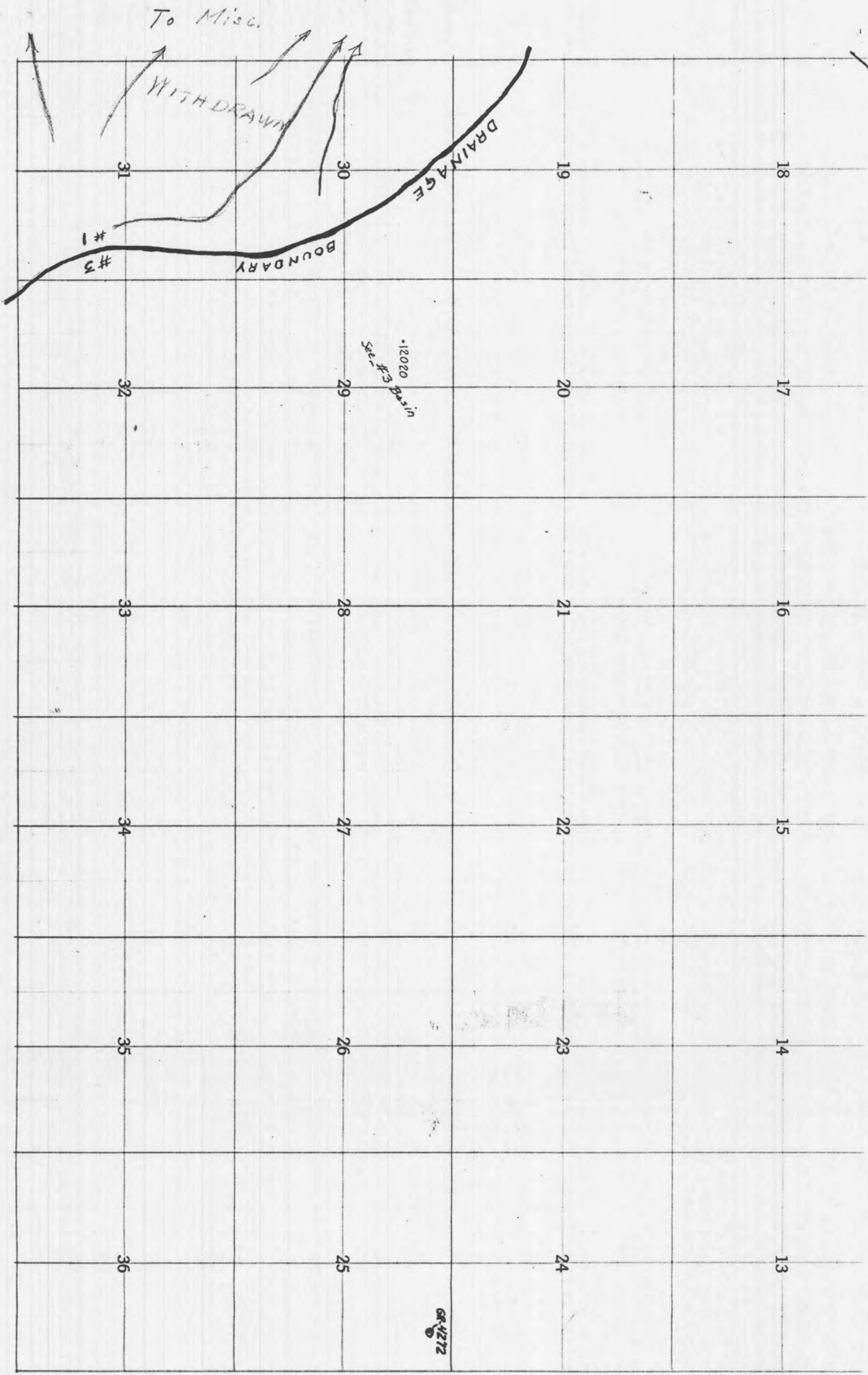
-0-

APPLICATIONS WITH PERMIT CONDITONS:

-0-

RVW.CKLST

Can I take the 100 from
your old one? as I need it to
use checkout card?



SP-45656-119

Phone Call GREG BENNETT

#1 86' from CR
10.5' BLS 94L

98' from CR
11.5' BLS

MILTON CR 13' BELOW
WELLS

LIDDELL 397-3830

Well Number: 4-1

City ST HELENS State OR Zip 97051

9809C 10

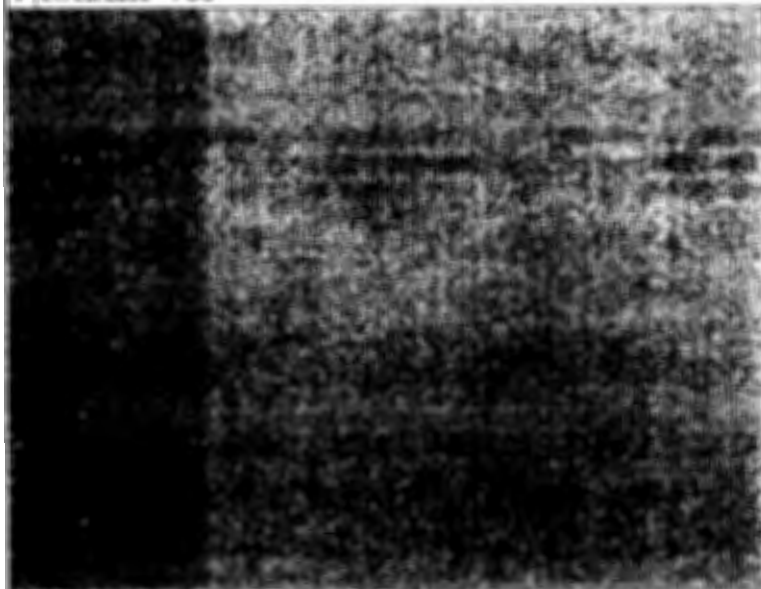
WbDataEntry: OWRD Water Right Data Entry Application:

File New Wr Update Wr View

Wr Search	Owner	owrd Directory	Related Docs	Limits		Comments			
	POU Use	POU Loc	POU Loc Del	POU Loc Xfer		StreamCodes			
	POD Loc	POD Use	POD Reserv	POD Instream			Workflow		
Water Right	Claim	Application	Permit	Certificate	Order	Decree	Transfer	Merge	History

Search Results:

Date	Title
01/06/2006	POU



Selected Information:

Date: 01/06/2006

Type: Misc

Title: POU

Comment: BASED ON THE INFORMATION CONTAINED ON THE APP MAP, THE FPS MAP AND THE AERIAL PHOTO, POU IS ACTUALLY IN THE NWSE, SECTION 27.

Records Returned: 1 ☒ Keep Search Results?

Select

Clear

Update

Delete

Query Time:

*** Updated Successfully ***

Displaying Comment data.

Exit

Owner: LIDDELL, PAUL, A

Snr Origin: Permit

Wr Status: Non-Cancelled

Stage: Complete

Decree:

Claim Nbr:

App Nbr: G 13889

Permit Nbr: G 13090

Cert Nbr:

Transfer:

Snr ID: 23724

App: G 13889 Permit: G 13090 Snapshot: 23724**Auditing checklist**

- ☐ Does the shape on the map generally match the shape on the screen?
☐ Was the correct map/existing data used?
☐ Is the geo-referenced map accurate to the layer the editor deemed to be the best?
☐ Is the right digitized in the correct TRSQQ?
☐ Are all the pou/pod id accounted for and do they correspond to the correct geometry?
☐ Are tech initials, agency, date added, and feature quality code fields populated?
☐ Are overages/underages accounted for in the delta size field?
☐ Have appropriate remarks been entered?

Snapshot

SnapshotID	Type	Status	Expiration Date	Authority	License Nbr	License Type	Contract Nbr	Contract Type	Snapshot Origin	Snapshot Status	WRID	FamilyID
23724	GW	NC							PR	AC	23724	23724

Application

Application	Received	Additional Record	Scanned Image
G 13889	11/23/1994	N	Image NOT linked Image NOT scanned

Permit

Permit	Signature	Drought Name	Begin Date	End Date	Additional Record	Scanned Image	Final Proof Image
G 13090	01/22/1997				N	Image linked Image scanned	Image linked Image scanned

Certificate**Claim****Decree****Orders****Transfer****Owner**

First Name	Middle	Last Name	Company	Other Name	Entity Type	Street1	Street 2	City	State	Zip	County	Email	Home Phone	Company Phone	Fax	Inactive	Begin Date	End Date	Additional Record
PAUL	A	LIDDELL				31612 PITTSBURG RD		SAINT HELENS	OR	97051	COLU		(503)397- 3830			N			N

County

County
Columbia

Related Docs

PODs

POD Loc ID	POD Nbr	POD Name	Src Type	Streamcode	Source	Tributary to	Location (QQ-S-T-R)	River Mile	Lat/ Long	Legal Description	Def	ST Flow	Max Rate	Rate	Max Acre Feet	Acre Feet	POD Type	Status	Remarks	Mapped?
10078	1	WELL 1	WE	SMITH CR > MILTON CR - 02001011200010010190	A WELL	MILTON CR	NWSE 27 05.00N 02.00W WM			447.98 FEET SOUTH & 517.28 FEET EAST FROM C1/4 CORNER, SECTION 27	P	N	0.969	0.4845 (est)			GW	NC		No
Uses from this Point of Diversion																				
Use	P/S	Priority Date	Start Date	End Date	ST Flow	Rate/Acre	Duty	Max Rate	Rate	Max Acre Feet	Acre Feet	Surface Elevation	Households	Status	Remarks					
AG	P	11/23/1994	1/1	2/29	N			0.969	0.4845 (est)					NC						
AG	P	11/23/1994	3/1	10/31	N			0.969	0.2422 (est)					NC						
AG	P	11/23/1994	11/1	12/31	N			0.969	0.4845 (est)					NC						
NU	P	11/23/1994	3/1	10/31	N	1/80	2.5	0.969	0.2422 (est)					NC	IN GROUND					
NU	P	11/23/1994	3/1	10/31	N	1/40	5.0	0.969	0.2422 (est)					NC	CONTAINERIZED					
NU	P	11/23/1994	3/1	10/31	N	1/80	2.5	0.969	0.2422 (est)					NC	ANY OTHER CROP					
10079	2	WELL 2	WE	MILTON CR > SCAPPOOSE BAY - 02001011200010010	A WELL	MILTON CR	NWSE 27 05.00N 02.00W WM			326.04 FEET SOUTH & 555.39 FEET EAST FROM C1/4 CORNER, SECTION 27	P	N	0.969	0.4845 (est)			GW	NC		No
Uses from this Point of Diversion																				
Use	P/S	Priority Date	Start Date	End Date	ST Flow	Rate/Acre	Duty	Max Rate	Rate	Max Acre Feet	Acre Feet	Surface Elevation	Households	Status	Remarks					
AG	P	11/23/1994	1/1	2/29	N			0.969	0.4845 (est)					NC						
AG	P	11/23/1994	3/1	10/31	N			0.969	0.2422					NC						

									(est)						
AG	P	11/23/1994	11/1	12/31	N			0.969	0.4845 (est)					NC	
NU	P	11/23/1994	3/1	10/31	N	1/80	2.5	0.969	0.2422 (est)					NC	IN GROUND
NU	P	11/23/1994	3/1	10/31	N	1/40	5.0	0.969	0.2422 (est)					NC	CONTAINERIZED
NU	P	11/23/1994	3/1	10/31	N	1/80	2.5	0.969	0.2422 (est)					NC	ANY OTHER CROP
										Totals:	0.969		0		

Limits

Max Rate CFS	Acre Feet	Rate/Acre	Duty	Acres	Surf Elev	Begin Season	End Season
0.969		1/40	5.0	11.75		1/1	12/31
0.969		1/80	2.5	11.75		1/1	12/31

POUs

000

POU Use Id	Use	P/S	Priority Date	Use Status	Acres	Remarks	Mapped?																																				
14350	NU	P	11/23/1994	NC	11.75		No																																				
<table><tr><th>Acres</th><th>QQ</th><th>SCTN</th><th>Twp</th><th>Range</th><th>DLC/Lot</th><th>Status</th><th>Remarks</th><th>Taxlot</th></tr><tr><td>10.75</td><td>NWNE</td><td>27</td><td>5.0 N</td><td>2.0 W</td><td></td><td>NC</td><td>PARCEL 1</td><td></td></tr><tr><td>1.0</td><td>SWNE</td><td>27</td><td>5.0 N</td><td>2.0 W</td><td></td><td>NC</td><td>PARCEL 2</td><td></td></tr><tr><td colspan="9">Total Acres: 11.75</td></tr></table>								Acres	QQ	SCTN	Twp	Range	DLC/Lot	Status	Remarks	Taxlot	10.75	NWNE	27	5.0 N	2.0 W		NC	PARCEL 1		1.0	SWNE	27	5.0 N	2.0 W		NC	PARCEL 2		Total Acres: 11.75								
Acres	QQ	SCTN	Twp	Range	DLC/Lot	Status	Remarks	Taxlot																																			
10.75	NWNE	27	5.0 N	2.0 W		NC	PARCEL 1																																				
1.0	SWNE	27	5.0 N	2.0 W		NC	PARCEL 2																																				
Total Acres: 11.75																																											
157593	AG	P	11/23/1994	NC			No																																				
<table><tr><th>Acres</th><th>QQ</th><th>SCTN</th><th>Twp</th><th>Range</th><th>DLC/Lot</th><th>Status</th><th>Remarks</th><th>Taxlot</th></tr><tr><td></td><td>NWNE</td><td>27</td><td>5.0 N</td><td>2.0 W</td><td></td><td>NC</td><td>PARCEL 1</td><td></td></tr><tr><td></td><td>SWNE</td><td>27</td><td>5.0 N</td><td>2.0 W</td><td></td><td>NC</td><td>PARCEL 2</td><td></td></tr><tr><td colspan="9">Total Acres: 0</td></tr></table>								Acres	QQ	SCTN	Twp	Range	DLC/Lot	Status	Remarks	Taxlot		NWNE	27	5.0 N	2.0 W		NC	PARCEL 1			SWNE	27	5.0 N	2.0 W		NC	PARCEL 2		Total Acres: 0								
Acres	QQ	SCTN	Twp	Range	DLC/Lot	Status	Remarks	Taxlot																																			
	NWNE	27	5.0 N	2.0 W		NC	PARCEL 1																																				
	SWNE	27	5.0 N	2.0 W		NC	PARCEL 2																																				
Total Acres: 0																																											

Comments

Sequence	Type	Date	Title	Comment
	MS	01/06/2006	POU	BASED ON THE INFORMATION CONTAINED ON THE APP MAP, THE FPS MAP AND THE AERIAL PHOTO, POU IS ACTUALLY IN THE NWSE, SECTION 27.

Water Right Genealogy

No genealogy records available for this water right, try the family link below instead. If you are aware of the correct genealogy, please forward this information to [WRIS Genealogy](#)

Document Process

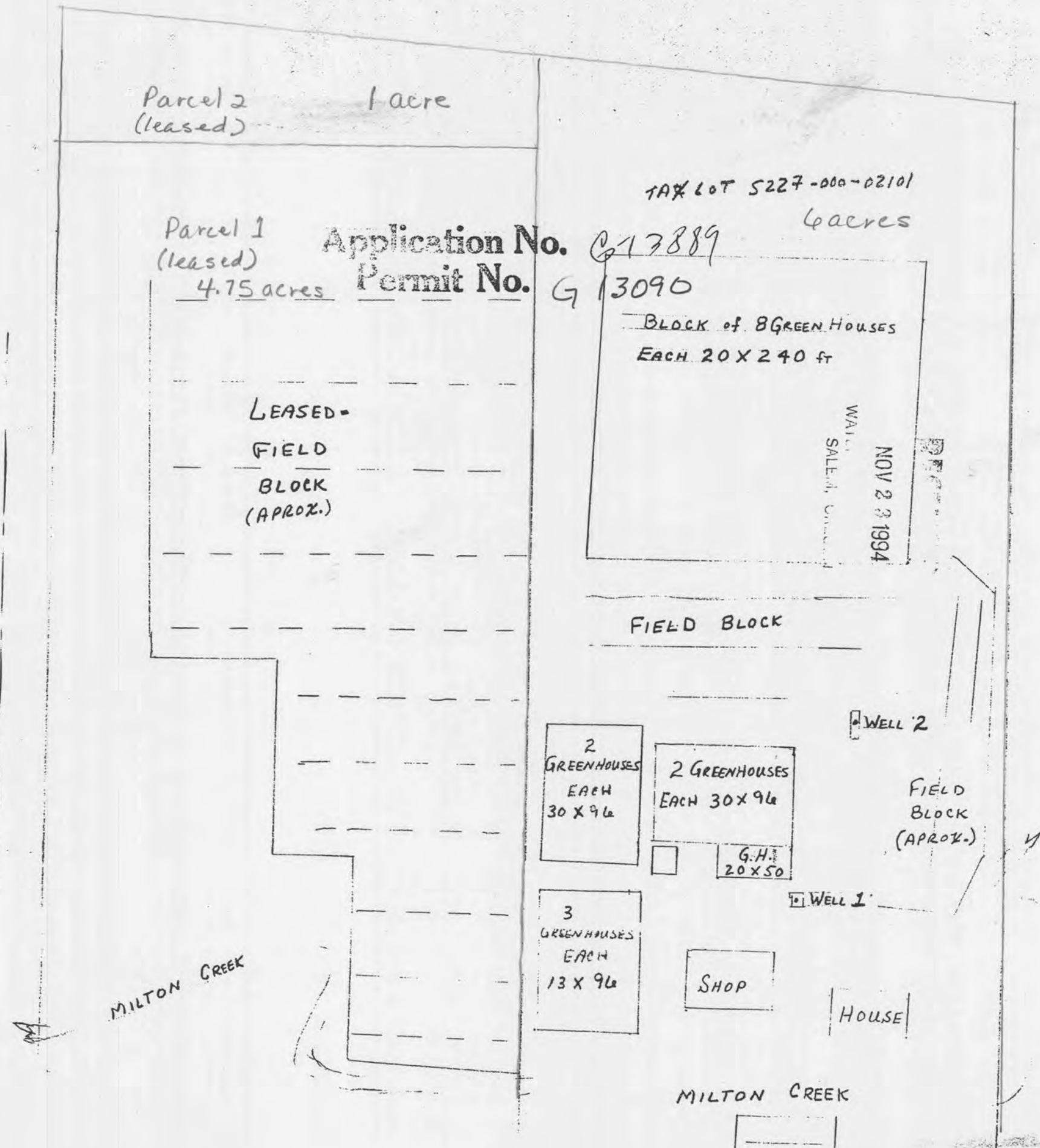
Action	Completed Date	Staff Person	Proposed Action
Permit G 13090			
Permit Issued	01/22/1997	NULL	
Completion Due Date (C Date)	10/01/2000	NULL	
Claim of Beneficial Use Received	12/22/2003	PHILIP DEWEY	

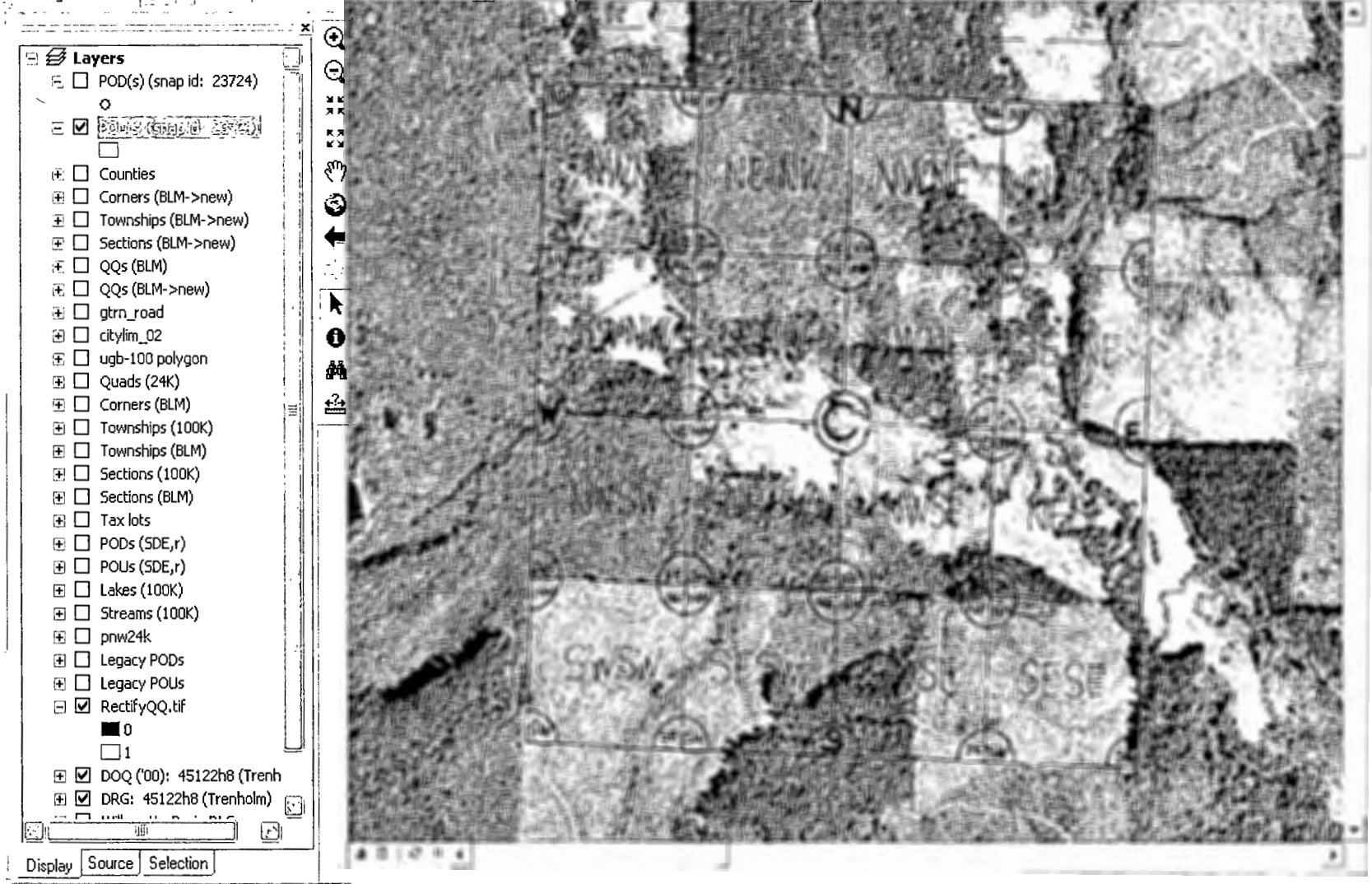
OCT 24 1995
WATER
SALEM, OREGON

DESCRIPTION OF
TAX LOTS 5227-000-02100 & 5227-000-02101

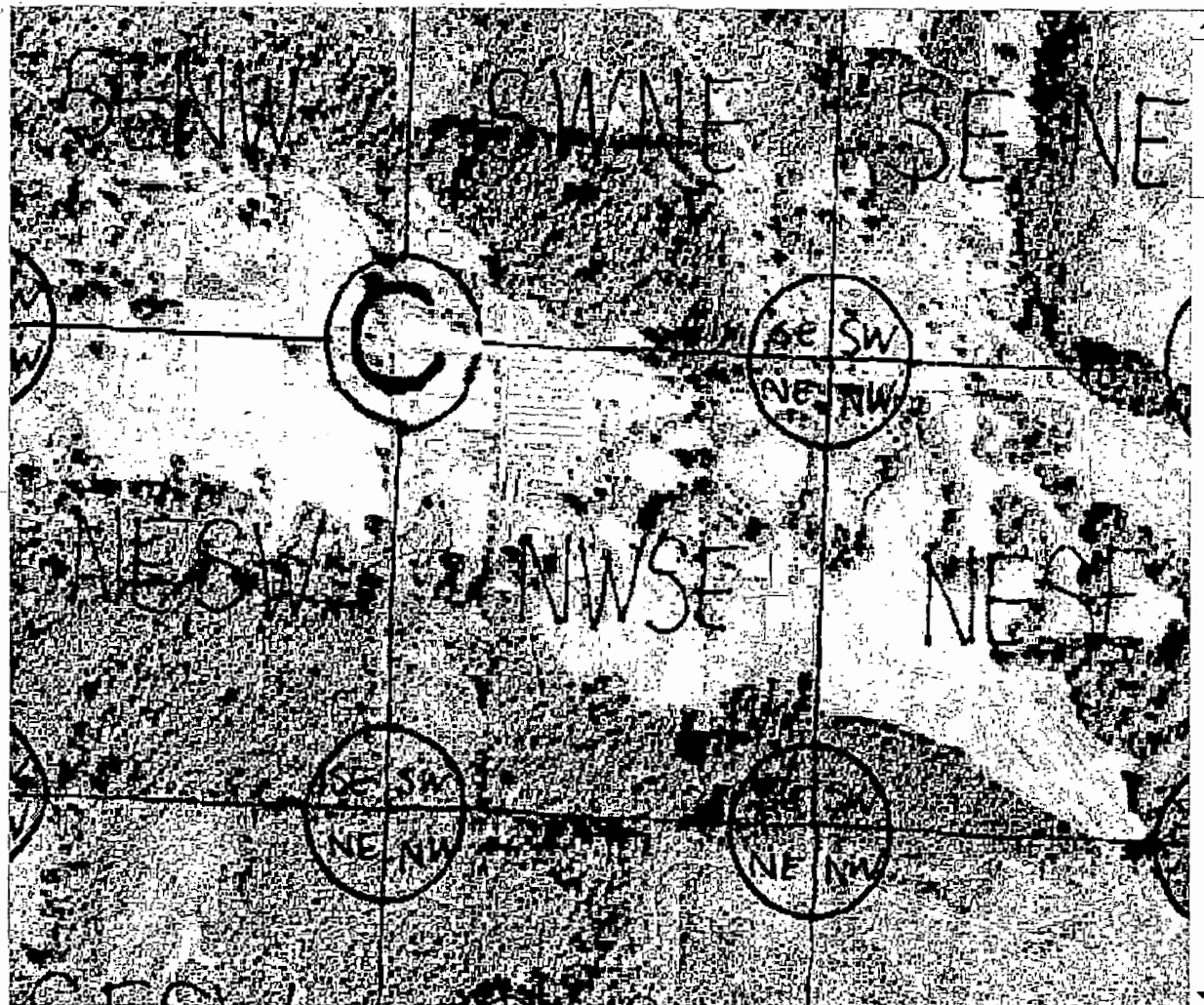
Beginning at the Northwest corner of the Northwest quarter of the Southeast quarter of Section 27, Township 5 North, Range 2 West of the Willamette Meridian, Columbia County, Oregon; thence East on the North line of said Northwest quarter of the Southeast quarter of said Section 27, a distance of 20 rods to a point; said last named point being the beginning point of the following described trace of land; thence South and parallel with the West boundary line of said Northwest quarter of the Southeast quarter of Section 27 a distance of 80 rods to the South line of said quarter; thence East on the South line 20 rods to a point; thence North and parallel with the West line of said above described tract 80 rods to the North line of said Northwest quarter of the Southeast quarter of Section 27; thence West along said North line of said Northwest quarter of the Southeast quarter of Section 27, a distance of 20 rods to the place of beginning, excepting a right of way for water main to the City of St. Helens, Oregon.

LOCATION OF WELL '1'





- Layers**
- ☐ POD(s) (snap id: 23724)
 - ☒ POU(s) (snap id: 23724)
 - ☐ Counties
 - ☐ Corners (BLM->new)
 - ☐ Townships (BLM->new)
 - ☐ Sections (BLM->new)
 - ☐ QQs (BLM)
 - ☐ QQs (BLM->new)
 - ☐ gtrn_road
 - ☐ citylim_02
 - ☐ ugb-100 polygon
 - ☐ Quads (24K)
 - ☐ Corners (BLM)
 - ☐ Townships (100K)
 - ☐ Townships (BLM)
 - ☐ Sections (100K)
 - ☐ Sections (BLM)
 - ☐ Tax lots
 - ☐ PODs (SDE,r)
 - ☐ POUs (SDE,r)
 - ☐ Lakes (100K)
 - ☐ Streams (100K)
 - ☐ pnw24k
 - ☐ Legacy PODs
 - ☐ Legacy POUs
 - ☒ RectifyQQ.tif
 - ☐ 0
 - ☐ 1
 - ☒ DOQ ('00): 45122h8 (Trenh)
 - ☐ DRG: 45122h8 (Trenholm)
- Display Source Selection



Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-13889

Superseding Final Order

Application History

On November 23, 1994, PAUL A. LIDDELL submitted an application to the Department for a water use permit. The Department issued a Proposed Final Order on August 27, 1996. The protest period closed October 11, 1996, and no protest was filed. On October 29, 1996 a Final Order was issued stating that a permit would be issued upon submission of a suitable map and evidence of ownership of, or written authorization or easement to use, all lands involved in the proposed use.

The proposed use would not impair or be detrimental to the public interest, but the Department's continuing evaluation reveals that the Final Order dated October 29, 1996 requires modification to correctly describe permit requirements. Notwithstanding the requirements of OAR 690-310-050 (renumbered from OAR 690-11-070), the application map on file shall be accepted in lieu of the requested map in the previous Final Order.

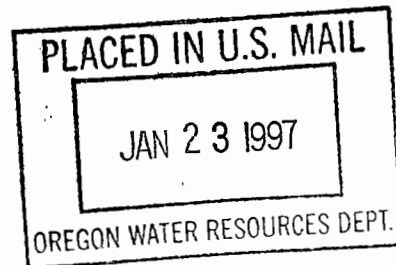
Furthermore, no copy of the written authorization, easement or evidence of ownership lands involved in the proposed use shall be required.

Order

Application G-13889 therefore is approved as provided in Permit G-13090.

DATED January 22, 1997

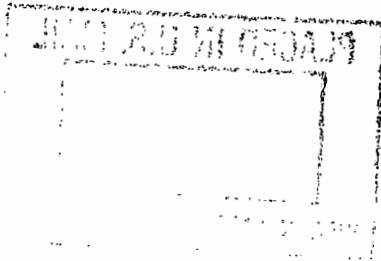

Martha O. Pagel
Director



Hearing and Appeal Rights

Under the provisions of ORS 537.170 and ORS 537.622, the applicant may request a contested case hearing by submitting the information required for a protest under ORS 537.153(6) or ORS 537.621(7) to the Department within 14 days after the date of mailing of this order as shown below. If a contested case hearing is requested, the Department must schedule one. In the contested case hearing, however, only those issues based on the above modifications to the proposed final order may be addressed.

Under the provisions of ORS 183.484, the applicant or any person having standing may appeal this order by filing a petition for review in the Circuit Court for Marion County or the circuit court for the county in which the applicant resides or has a principal business office. The petition for review must be filed within 60 days after the date this order is served.



STATE OF OREGON

COUNTY OF COLUMBIA

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

PAUL A. LIDDELL
31612 PITTSBURG RD
ST HELENS, OREGON 97051

(503) 397-3830

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

APPLICATION FILE NUMBER: G-13889

SOURCE OF WATER: TWO WELLS IN MILTON CREEK BASIN

PURPOSE OR USE: AGRICULTURAL USE AND IRRIGATION OF 11.75 ACRES

MAXIMUM RATE: 0.969 CUBIC FOOT PER SECOND

PERIOD OF USE: YEAR ROUND FOR AGRICULTURAL USE; MARCH 1 THROUGH OCTOBER 31 FOR IRRIGATION

DATE OF PRIORITY: NOVEMBER 23, 1994

POINT OF DIVERSION LOCATION: NW 1/4 SE 1/4, SECTION 27, T5N, R2W, W.M.;
WELL #1 - 517.28 FEET EAST AND 447.98 FEET SOUTH, WELL #2 - 555.39 FEET
EAST AND 326.04 FEET SOUTH, BOTH FROM THE C 1/4 CORNER OF SECTION 27

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 of the year 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.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

PARCEL 2 SW 1/4 NE 1/4 1.0 ACRE
PARCEL 1 NW 1/4 NE 1/4 10.75 ACRES
SECTION 27

TOWNSHIP 5 NORTH, RANGE 2 WEST, 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.
- 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.
- C. The Director may require the permittee to keep and maintain a record of the amount (volume) of water used and may require the permittee to report water use on a periodic schedule as established by the Director. In addition, the Director may require the permittee to report general water use information, the periods of water use and the place and nature of use of water under the permit. The Director may provide an opportunity for the permittee to submit alternative reporting procedures for review and approval.

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.

STANDARD CONDITIONS

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.

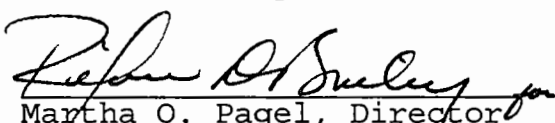
By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

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.

Actual construction of the well shall begin within one year from permit issuance, and shall be completed on or before October 1, 1998. Complete application of the water to the use shall be made on or before October 1, 1999.

Issued January 22, 1997


Martha O. Pagel, Director
Water Resources Department

MAR 20 1992

RECEIVED

OCT 24 1995

WAL
SALEM, OREGON

Application No. G 13889
Permit No. G 13090

FIELD BLOCK
(APPROX.)

Beginning at the Northwest corner of the Northwest quarter of the Southeast quarter of Section 27, Township 5 North, Range 2 West of the Willamette Meridian, Columbia County, Oregon; thence East on the North line of said Northwest quarter of the Southeast quarter of said Section 27, a distance of 40 rods to a point; said last named point being the beginning point of the following; thence South and parallel with the West boundary line of said Northwest quarter of the Southeast quarter of Section 27 a distance of 27.15 rods, more or less, to a point; thence West a distance of 8.65 rods, more or less, to the location of well '1'.

LOCATION OF WELL '2'

Beginning at the Northwest corner of the Northwest quarter of the Southeast quarter of Section 27, Township 5 North, Range 2 West of the Willamette Meridian, Columbia County, Oregon; thence East on the North line of said Northwest quarter of the Southeast quarter of said Section 27, a distance of 40 rods to a point; said last named point being the beginning point of the following; thence South and parallel with the West boundary line of said Northwest quarter of the Southeast quarter of Section 27 a distance of 19.76 rods, more or less, to a point; thence West a distance of 6.34 rods, more or less, to the location of well '2'.

TAX LOT DESCRIPTION OF LAND LEASED FROM ROBERT NOLAN

Parcel 1: Beginning at the northwest corner of the Northwest quarter of the Southeast quarter of Section 27 in Township 5 North of Range 2 West of the Willamett Meridian; thence running East 20 rods; thence South 50 rods; thence West 20 rods; and thence North 50 rods to the place of beginning.

Parcel 2: A parcel of land in the Southwest quarter of the Northeast quarter of Section 27 in Township 5 North, Range 2 West, Willamette Meridian, as follows: Beginning at the Southwest corner of said Southwest quarter of Northeast quarter of said Section 27, thence northerly 40 rods along subdivision line, thence easterly 20 rods, thence southerly 40 rods to the south line of said Southwest quarter of Northeast quarter of Section 27, thence westerly 20 rods along subdivision line to point of beginning, excepting that portion thereof lying south of Pittsburg-St. Helens highway, also excepting portion within the boundaries of said highway.

WATER USE MAP PLUS
LOCATION of WELLS #1 & #2

TAX LOT
5227-000-02100

SCALE: 1/8" = 10 FT



Oregon

Theodore R. Kulongoski, Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
503-378-3739
FAX 503-378-8130

February 3, 2003

Certified mail number 1105 2066
Return receipt requested

PAUL A LIDDELL
31612 PITTSBURG RD
ST HELENS OR 97051

Reference: Application G13889, Permit G13090

Dear Permit Holder:

This letter is in regard to your water use permit as referenced above. Your permit required you to complete the development of your water use by October 1, 1999.

In order for the Department to consider issuance of a certificate of water right, you are required by law to hire a certified water right examiner to prepare and submit a claim of beneficial use, to include a final proof survey map of the development. The map and claim of beneficial use was to have been submitted to our Department within one year of October 1, 1999. A list of certified water right examiners is enclosed for your use.

If you are not finished with the development of your permit, you need to file for an extension of time to complete your development. An extension form is also enclosed with this letter.

In the event that you are no longer using water as allowed by this permit, you should cancel it so that we may clear our records. A cancellation form is enclosed, if you are interested in this option.

If you have not submitted either a Claim of Beneficial Use or a request for an extension of time of your permit, within 60 days of the date of this letter (April 4, 2003) the Department may cancel your permit without further notice.

Please give me a call if you have questions. My phone number is 503-378-8455 extension 274.

Sincerely,

Jerry Sauter
Water Rights Program Analyst

Enclosures (3)

cc: OWRD Watermaster District 1
File G13889

*LARINA LIDDELL CALLED. DID NOT KNOW THIS
WAS NEEDED, W/LET IT WILL BE EXPENSIVE
BUT WILL CONTACT CHAIR
JMS 2/05/2003*

*LETTER FROM PHILIP DENNY 3-27-2003
COPY IN PROGRESS. WILL BE DONE IN APPROX 30 DAYS
STOP CLOCK
JMS 3/31/03*

PHILIP DOWNEY

503-397-2316

APP. G-13889 DEL. G-13090



DEWEY SURVEYING, INC.

P.O. BOX 687 / COLUMBIA COUNTY COURTHOUSE
ST. HELENS, OREGON 97051
OFFICE: 503-397-2316 / FAX: 503-397-2415

RECEIVED

MAR 27 2003

WATER RESOURCES DEPT.
SALEM, OREGON

March 25, 2003

RE: Final Proof Survey for Permit No. G13090

Dear Paul,

We are in the process of completing the final proof survey for water right. We have completed the field portion of the survey and will probably have the survey complete within the next 30 days.

Sincerely,

Philip Dewey

Certified Water Right

Examiner No. 038



HAPPY HOLLOW GARDENS

31612 Pittsburg Road
St. Helens, Oregon 97051
Phone: (503) 397-3830

June 1, 2001

Water Resources Department
158 12th Street NE
Salem, OR 97310-0210

RE: Permit G-13090

Dear Sirs:

I recently retired; one of my first retirement tasks was to go through our files and documents to see what could be archived or destroyed. In doing so, I came across these documents in our Water Resources folder; since these look like originals to me, I can't be sure they were ever sent in to the Water Resources Department.

Please insert these forms into the appropriate file concerning our permit G-13090 (application no. is G-13889). If you already have these documents on file, please discard, since I have made copies. Please let me know if there is anything else I need to do.

Sincerely,

Laura L. Liddell

RECEIVED

JUN 04 2001

WATER RESOURCES DEPT.
SALEM, OREGON

JUN 04 2001

Form C (690-9-77)

WATER RESOURCES DEPT.

SALEM, OREGON

IMPORTANT—This form is a notice to the Water Resources Director that permittee is ready to make final proof to the extent to which the water has actually been applied to the intended use under the terms of the permit. Permittee is cautioned that Certificate of Water Right will be issued based on the extent of the quantity and use as determined by the final proof inspection and survey which will be made in response to the filing of this Form C.

NOTE: In the case of an irrigation permit, this Form C should not be mailed to the Water Resources Department until all of the land described in the permit, which it is intended to irrigate under this permit at any time, has actually been irrigated.

Fill out, detach and mail to the Water Resources Department, Salem, OR 97310, when all of the water has been applied.

Application No. G-13889

NOTICE OF COMPLETE APPLICATION OF WATER TO A BENEFICIAL USE

I, Paul A. Liddell, the holder of Permit No. G-13090 to appropriate the public waters of the state of Oregon, completely applied the waters to a beneficial use in accordance with the terms of said permit, on the 22nd day of August, 1994.

Remarks: _____

IN WITNESS WHEREOF, I have hereunto set my hand this 30th day of August, 1999.

(Signature of Applicant)

31612 Pittsburg Rd., St. Helens, OR 97051

(Address)

Form B (690-9-77)

Application No. G-13889

NOTICE OF COMPLETION OF CONSTRUCTION

I, Paul A. Liddell, the holder of Permit No. G-13090 to appropriate the public waters of the state of Oregon, completed the construction of the works described therein on the 21st day of August, 1994.

Remarks: Irrigation lines installed, complete with sprinklers.

If the works have less capacity than described in the permit, or you have definitely abandoned part of the proposed development, you should so state in order that our records may not be unnecessarily encumbered.

IN WITNESS WHEREOF, I have hereunto set my hand this 30th day of August, 1999.

(Signature of Applicant)

31612 Pittsburg Rd., St. Helens, OR 97051

(Address)

Fill out, detach and mail to the Water Resources Department, Salem, OR 97310, when construction work is completed.

Form A (690-9-77)

Application No. G-13889

NOTICE OF BEGINNING OF CONSTRUCTION

I, Paul A. Liddell, the holder of Permit No. G-13090 to appropriate the public waters of the state of Oregon, began the actual construction of the works described therein on the 30th day of May, 1994.

Remarks: Well drilling begun 5/30 and completed on 6/7/94. Electrical hooked up; Queen pump installed.

The appropriator must state the manner of beginning of construction, the amount of work completed and the type of equipment acquired for the water system up to the date of this statement, and any additional information which shows a substantial beginning of construction as authorized by your permit.

IN WITNESS WHEREOF, I have hereunto set my hand this 30th day of August, 1999.

(Signature of Applicant)

31612 Pittsburg Rd., St. Helens, OR 97051

(Address)

Fill out, detach and mail to the Water Resources Department, Salem, OR 97310, when construction work is begun.

JUN 04 2001

Form C (690-9-77)

WATER RESOURCES DEPT.
SALEM, OREGON

IMPORTANT—This form is a notice to the Water Resources Director that permittee is ready to make final proof to the extent to which the water has actually been applied to the intended use under the terms of the permit. Permittee is cautioned that Certificate of Water Right will be issued based on the extent of the quantity and use as determined by the final proof inspection and survey which will be made in response to the filing of this Form C.

NOTE: In the case of an irrigation permit, this Form C should not be mailed to the Water Resources Department until all of the land described in the permit, which it is intended to irrigate under this permit at any time, has actually been irrigated.

Fill out, detach and mail to the Water Resources Department, Salem, OR 97310, when all of the water has been applied.

Application No. G-13889

NOTICE OF COMPLETE APPLICATION OF WATER TO A BENEFICIAL USE

Paul A. Liddell, the holder of Permit No. G-13090 to appropriate the public waters of the state of Oregon, completely applied the waters to a beneficial use in accordance with the terms of said permit, on the 12th day of October, 1980.

Remarks:

IN WITNESS WHEREOF, I have hereunto set my hand this 30th day of August, 1999.

(Signature of Applicant)

31612 Pittsburg Rd., St. Helens, OR.

(Address)

97051

Application No. G-13889

NOTICE OF COMPLETION OF CONSTRUCTION

Paul A. Liddell, the holder of Permit No. G-13090 to appropriate the public waters of the state of Oregon, completed the construction of the works described therein on the 10th day of October, 1980.

Remarks: Completed installation of irrigation lines and sprinklers.

If the works have less capacity than described in the permit, or you have definitely abandoned part of the proposed develop-

ment, you should so state in order that our records may not be unnecessarily encumbered.

IN WITNESS WHEREOF, I have hereunto set my hand this 30th day of August, 1999.

(Signature of Applicant)

31612 Pittsburg Rd., St. Helens, OR 97051

(Address)

Fill out, detach and mail to the Water Resources Department, Salem, OR 97310, when construction work is completed.

Form A (690-9-77)

Application No. G-13889

NOTICE OF BEGINNING OF CONSTRUCTION

I, Paul A. Liddell, the holder of Permit No. G-13090 to appropriate the public waters of the state of Oregon, began the actual construction of the works described therein on the 1st day of August, 1990.

Remarks: Well drilled; pump installed; electrical installed.

The appropriator must state the manner of beginning of construction, the amount of work completed and the type of equipment acquired for the water system up to the date of this statement, and any additional information which shows a substantial beginning of construction as

authorized by your permit.

IN WITNESS WHEREOF, I have hereunto set my hand this 30th day of August, 1999.

(Signature of Applicant)

31612 Pittsburg Rd., St. Helens, OR 97051

(Address)

Fill out, detach and mail to the Water Resources Department, Salem, OR 97310, when construction work is begun.



NURSERY EQUIPMENT FOR SALE

“Smart Move” Potting Systems, Flat Fillers, Soil Mix Systems, Material Hoppers, Conveyors, Wagons, Carts, Tree Dollies, and More!

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Mitchell Ellis Cell #(334) 402-6466

Fax (334) 649-6602

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RECEIVED

JUN 04 2001

**WATER RESOURCES DEPT.
SALEM, OREGON**

Application G-13889

COPY CHECK-OFF SHEET FOR PROPOSED FINAL ORDERS

/CC: FILE # G-13889

/WATERMASTER # 01

REGIONAL MANAGER: NORTHWEST

/ODF&W - Columbia County:

CWRE (if agent):

DEQ

OTHER STATE AGENCY IF NECESSARY:

DIVISION 33 LIST: COLUMBIA RIVER INTERTRIBAL FISH COMMISSION; U.S. FISH & WILDLIFE;
(CHECK ONLY IF APPLICABLE) NORTHWEST POWER PLANNING COUNCIL & NATIONAL MARINE FISHERIES

POWER BUILDER UPDATER; FRONT COUNTER

OTHER ADDRESSES OF PEOPLE WHO PAID THE \$10 FEE:

PEOPLE WITH OBJECTIONS, COMMENTS OR REQUESTED COPY W/O \$10 (SEND THE \$10 LETTER):

ROBERT NOLAN	31494 PITTSBURG ROAD	ST. HELENS, OREGON 97051
JAMES D GRAHAM	6509 SE 34TH AVENUE	PORTLAND, OREGON 97202

CASEWORKER : GH

Application No.

G-13889



State of Oregon

WATER RESOURCES DEPARTMENT

Application for a Permit to Appropriate Groundwater

Applicant(s) Paul A. Liddell

(Please print or type - use dark ink)

Mailing Address: 31612 Pittsburg Rd.

St. Helens

City

OR

State

97051

Zip

503/397-3830

Daytime Phone No.

I (We) make application for a permit to appropriate the following described ground waters of the State of Oregon:

1. **THE DEVELOPMENT** (number of wells, tile lines, infiltration galleries, etc.): _____

2 wells: tributary of Milton Creek basin; wells are withdrawing from a consolidated aquifer and not in hydrolic connection with Milton Creek.

If development is less than one mile from a natural stream, give the following:

Distance from development to stream: Well #1: 84'; well #2: 93'

Elevation difference between streambed and development: 20'

NOTE: 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 driller's log with this application, and skip to Section 2 below.

Diameter of well: #1: 6"; #2: 8" Depth in feet: #1: 54'; #2: 300'

Type and size of well casing: #1: steel/6"; #2: steel/8" No. of feet: #1: 29'; #2: 19'

Estimated depth to water: #1: 11'; #2: 20' (static level)

Type of access port or measuring device: _____

Wells to be drilled by: Well-drillers' logs are attached

Address: _____

If the water well is flowing artesian, describe your water control and conservation works: _____

Not flowing artesian

2. **TOTAL AMOUNT OF WATER** to be applied to beneficial use: _____ cubic feet per second, OR 435 gallons per minute. If water is to be used from more than one groundwater source, give the quantity of water from each: _____

#1: 35 gallons per minute; #2: 400 gallons per minute

3. **INTENDED USE(s) OF WATER:** Irrigation of nursery stock and agricultural use.

If for more than one use, give the quantity of water from each source for each use; N/A

If for **DOMESTIC** use, state the number of households to be supplied; Well #1 also supplies exempt domestic needs

If for **MUNICIPAL OR QUASI-MUNICIPAL** use, state the present population to be served, and an estimate of the future requirements; (List population projections, water needs, anticipated areas to be provided water.)

N/A

If for **MINING** use, state the nature (gold, silver, etc.) of the mines to be served; N/A

If for **IRRIGATION**, or other land area use, state the **TOTAL** number of acres to be developed under each use;

Irrigation 11.75 acres nursery use

Other (describe) _____

4. **DESCRIPTION OF WATER DELIVERY SYSTEM:** Include dimensions and type of construction of diversion works, length and dimensions of supply ditches or pipelines, size and type of pump and motor. If for irrigation, describe the type of system (i.e., flood, wheel line, hand line, drip, other).

#1: pump/motor is a Sears 3-horse submersible. 625' of 3" PVC to 480' of 3" aluminum and 80' of 2" aluminum handlines.

#2: pump/motor is 8-stage, 6" Berkeley with 6" 20-horse Franklin motor. 360' of 6" PVC mainline, 360' of 4" sub main, 3000' of 2" irrigation line (PVC)

5. **PROJECT SCHEDULE:** (List month and year)

Proposed date construction work will begin 6/8/94

Proposed date construction work will be completed 8/31/94

? Proposed date water use will be completed 8/31/94

NOTE: A map prepared by a Certified Water Right Examiner (CWRE) and a complete legal description of the subject property are required under ORS 537.140 and OAR 690 as a part of your application. The legal description may be copied from your deed, title insurance policy, or land sales contract.

6. a) In the event any deficiencies are noted involving the application map enclosed herein, please return the map with instructions for correction to (check one):

X Applicant CWRE Other (Identify in REMARKS section)

b) In the event any deficiencies are noted involving the application, please return the application with instructions for correction to (check one):

X Applicant CWRE Other (Identify in REMARKS section)

7. Are all lands involved (including the proposed diversion site, place of use, and access for conveying the water) under your ownership? No. If not, list in the REMARKS section below, or on an attached sheet, the names and mailing addresses of the legal owners of all property involved in the proposed development.

NOTE: Prior to receiving a certificate of water right, the permit holder must submit to the Water Resources Department the results of a pump test meeting the department's standards. The Director will require water level or pump test results every ten years thereafter.

REMARKS: Robert Nolan, 31494 Pittsburg Rd, St. Helens, OR 97051

I/We certify that the information I have provided in this application is an accurate representation of the proposed water use and is true and correct to the best of my knowledge:


Signature

10/10/94
Date

Signature

Date

NOTE: The permit, when issued, is for the beneficial use of water without waste. 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. It is possible the land use you propose may not be allowed if it is not in keeping with the goals and acknowledged plan. Your city or county planning agency can advise you about the land-use plan in your area.


Signature of Applicant

10/10/94
Date

Signature of Co-Applicant, if any

Date

FOR WATER RESOURCES DEPARTMENT USE ONLY

Dear Applicant:

I certify that I have examined the foregoing application, together with the accompanying information, and am returning it to you for:

In order to retain its tentative priority, this application must be returned with the requested corrections or additions on or before:

_____, 19____.

WITNESS my hand this _____ day of _____, 19____.

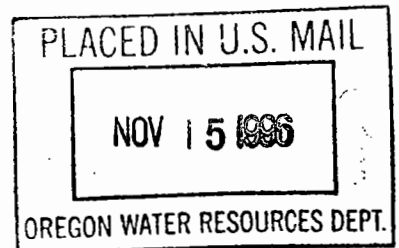
Water Resources Director

By: _____

This instrument was first received in the office of the Water Resources Director at SALMON, Oregon, on the 23 day of Nov, 19 94, at 8 o'clock, A M.

APPLICATION NO: 6-13889

Oregon Water Resources Department
Water Rights Division



Water Rights Application
Number G-13889

Final Order

Application History

On November 23, 1994, PAUL A. LIDDELL submitted an application to the Department for a water use permit. The Department issued a Proposed Final Order on August 27, 1996. The protest period closed October 11, 1996, and no protest was filed.

The proposed use would not impair or be detrimental to the public interest. However, the application map does not meet the standards of OAR 690-310-050. The map must show the location of the place of use identified by tax lot, Township, Range, Section, and by quarter-quarter section (40 acre parcel) and must include a notation of the number of acres in each quarter-quarter section.

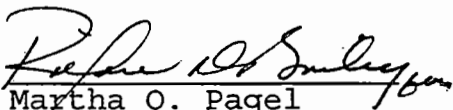
Further, no permit shall be issued until the permittee has obtained written authorization, or easement or ownership of all lands involved in the proposed use, including the point of diversion and any lands crossed by the proposed ditch, pipeline or other means of conveyance and provided the Department with a copy of the written authorization, easement or evidence of ownership.

Order

Upon submission of a suitable map and written authorization or easement as described above, Application G-13889 shall be approved as proposed by the Proposed Final Order and as provided on the attached draft permit.

Written authorization or easement and a suitable map shall be submitted no later than 60 days from the date of this Final Order. Failure to submit a suitable map within 60 days from the date of this Final Order will result in the proposed rejection of Application G-13889.

DATED October 29, 1996


Martha O. Pagel
Director

Appeal Rights

Under the provisions of ORS 183.484, the applicant may appeal this order by filing a petition for review in the Circuit Court for Marion County or the circuit court for the county in which the applicant resides or has a principal business office. The petition for review must be filed within 60 days after the date this order is served.

STATE OF OREGON

COUNTY OF COLUMBIA

DRAFT PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS DRAFT PERMIT IS HEREBY ISSUED TO

PAUL A. LIDDELL
31612 PITTSBURG RD
ST HELENS, OREGON 97051

(503) 397-3830

The specific limits for the use are listed below along with conditions of use.

APPLICATION FILE NUMBER: G-13889

SOURCE OF WATER: TWO WELLS IN MILTON CREEK BASIN

PURPOSE OR USE: AGRICULTURAL USE AND IRRIGATION OF 11.75 ACRES

MAXIMUM RATE: 0.969 CUBIC FOOT PER SECOND

PERIOD OF USE: YEAR ROUND FOR AGRICULTURAL USE; MARCH 1 THROUGH OCTOBER 31 FOR IRRIGATION

DATE OF PRIORITY: NOVEMBER 23, 1994

POINT OF DIVERSION LOCATION: NW 1/4 SE 1/4, SECTION 27, T5N, R2W, W.M.; WELL #1 - 517.28 FEET EAST AND 447.98 FEET SOUTH, WELL #2 - 555.39 FEET EAST AND 326.04 FEET SOUTH, BOTH FROM THE C 1/4 CORNER OF SECTION 27

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 of the year 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.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

PARCEL 2 SW 1/4 NE 1/4 1.0 ACRE
PARCEL 1 NW 1/4 NE 1/4 10.75 ACRES
SECTION 27
TOWNSHIP 5 NORTH, RANGE 2 WEST, 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.
- 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.
- C. The Director may require the permittee to keep and maintain a record of the amount (volume) of water used and may require the permittee to report water use on a periodic schedule as established by the Director. In addition, the Director may require the permittee to report general water use information, the periods of water use and the place and nature of use of water under the permit. The Director may provide an opportunity for the permittee to submit alternative reporting procedures for review and approval.

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.

STANDARD CONDITIONS

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.

Actual construction of the well shall begin within one year from permit issuance, and shall be completed on or before October 1, 1998. Complete application of the water to the use shall be made on or before October 1, 1999.

{DATE}

DRAFT

Martha O. Pagel, Director
Water Resources Department

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-13889

Proposed Final Order

Summary of Recommendation: The Department recommends that the attached draft permit be issued with conditions.

Application History

On November 23, 1994, PAUL A LIDDELL submitted an application to the Department for the following water use permit:

- Amount of Water: 0.969 cubic foot per second (435.0 gallons per minute), being 0.078 cfs from Well #1 and 0.891 cfs from Well #2
- Use of Water: Irrigation and Agriculture use on 11.75 acres for Nursery Operations
- Source of Water: Two Wells in Milton Creek Basin
- Area of Proposed Use: Columbia County within
SECTION 27
TOWNSHIP 5 NORTH, RANGE 2 WEST, W.M.

On APRIL 25, 1996, the Department mailed the applicant notice of its Initial Review, determining that the well has the potential for substantial interference with surface water and water is not available for Irrigation and Agriculture use. The applicant did not notify the Department to stop processing the application within 14 days of that date.

On MAY 14, 1996, 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.

Within 30 days of the Department's public notice, written comments were received from Paul A Liddell.

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 following uses: Irrigation and Agriculture use.

No senior water rights exist on two wells or on downstream waters.

The two wells are not within or above a State Scenic Waterway.

Water is available for further appropriation for the period year round.

The Department finds that no more than 1.763 cfs would be necessary for the proposed use. The amount of water requested, 0.969 cfs, is allowable.

The two wells are not within a designated critical ground water area.

The Department determined, based upon a revised OAR 690-09, that the proposed groundwater use will not have the potential for substantial interference with the nearest surface water source, namely **Milton Creek**.

The Groundwater Section finds that 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.

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 proposed use requested in this application is allowed in the Willamette Basin Plan.

No preference for this use is granted under the provisions of ORS 536.310(12).

Water is available for the proposed use.

The proposed use will not injure other water rights.

The proposed use complies with rules of the Water Resources Commission.

The proposed use complies with the State Agency Agreement for land use.

No proposed flow rate and duty of water higher than the general basin-wide standard is needed.

For these reasons, the required presumption has been established.

Under the provisions of ORS 537.621, once the presumption has been established, it may be overcome by a preponderance of evidence that either:

- (a) One or more of the criteria for establishing the presumption are not satisfied; or
- (b) The proposed use would not ensure the preservation of the public welfare, safety and health as demonstrated in comments, in a protest . . . or in a finding of the department that shows:
 - (A) The specific aspect of the public welfare, safety and health under ORS 537.525 that would be impaired or detrimentally affected; and
 - (B) Specifically how the identified aspect of the public welfare, safety and health under ORS 537.525 would be impaired or be adversely affected.

In this application, all criteria for establishing the presumption have been satisfied, as noted above. The presumption has not been overcome by a preponderance of evidence that the proposed use would impair or be detrimental to the public interest.

The Department therefore concludes that water is available in the amount necessary for the proposed use; the proposed use will not result in injury to existing water rights; and the proposed use would ensure the preservation of the public welfare, safety and health as described in ORS 537.525.

Recommendation

The Department recommends that the attached draft permit be issued with conditions.

DATED August 27, 1996



Steven P. Applegate
Administrator

Water Rights and Adjudications Division

Protest Rights

Under the provisions of ORS 537.621(7), you have the right to submit a protest against 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 that a contested case hearing be held. If you do not request a hearing, the Department will presume that you do not wish for a hearing to be held.

Your protest must be received in the Water Resources Department no later than **October 11, 1996**.

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.

GH

DRAFT

This is not a permit!!!
STATE OF OREGON

DRAFT

COUNTY OF Columbia

DRAFT PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS DRAFT PERMIT IS HEREBY ISSUED TO

PAUL A LIDDELL
31612 PITTSBURG RD
ST HELENS, OREGON 97051

(503) 397-3830

The specific limits for the use are listed below along with conditions of use.

APPLICATION FILE NUMBER: G-13889

SOURCE OF WATER: TWO WELLS IN MILTON CREEK BASIN

PURPOSE OR USE: IRRIGATION AND AGRICULTURE USE OF 11.75 ACRES

MAXIMUM RATE: 0.969 CUBIC FOOT PER SECOND

PERIOD OF USE: YEAR ROUND FOR AGRICULTURE USE AND MARCH 1 THROUGH
OCTOBER 31 FOR IRRIGATION USE

DATE OF PRIORITY: NOVEMBER 23, 1994

POINT OF DIVERSION LOCATION: NW 1/4 SE 1/4, SECTION 27, T5N, R2W, W.M.;
WELL #1 - 517.28 FEET EAST AND 447.98 FEET SOUTH, WELL #2 - 555.39 FEET
EAST AND 326.04 FEET SOUTH, BOTH FROM C1/4 CORNER, SECTION 27

THE PLACE OF USE IS LOCATED AS FOLLOWS:

NW 1/4 NE 1/4 11.75 ACRES
SECTION 27
TOWNSHIP 5 NORTH, RANGE 2 WEST, 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.
- 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.

Application G-13889 Water Resources Department

PERMIT DRAFT

- C. The Director may require the permittee to keep and maintain a record of the amount (volume) of water used and may require the permittee to report water use on a periodic schedule as established by the Director. In addition, the Director may require the permittee to report general water use information, the periods of water use and the place and nature of use of water under the permit. The Director may provide an opportunity for the permittee to submit alternative reporting procedures for review and approval.

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 of the year 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.

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.

STANDARD CONDITIONS

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.

Actual construction of the well shall begin within one year from permit issuance, and shall be completed on or before October 1, 1998. Complete application of the water to the use shall be made on or before October 1, 1999.

Issued _____, 199_

DRAFT - THIS IS NOT A PERMIT

Water Resources Department
Director

Application G-13889 Water Resources Department
Basin 02 Volume 4 MILTON CREEK AND MISC.
GH MGMT.CODE

PERMIT DRAFT
District 01

TAX LOT 5227-000-02101

Application No. C-17889
Permit No.

Superseded
10-24-95

DESCRIPTION OF
TAX LOTS 5227-000-02100 & 5227-000-02101

Beginning at the Northwest corner of the Northwest quarter of the Southeast quarter of Section 27, Township 5 North, Range 2 West of the Willamette Meridian, Columbia County, Oregon; thence East on the North line of said Northwest quarter of the Southeast quarter of said Section 27, a distance of 20 rods to a point; said last named point being the beginning point of the following described trace of land; thence South and parallel with the West boundary line of said Northwest quarter of the Southeast quarter of Section 27 a distance of 80 rods to the South line of said quarter; thence East on the South line 20 rods to a point; thence North and parallel with the West line of said above described tract 80 rods to the North line of said Northwest quarter of the Southeast quarter of Section 27; thence West along said North line of said Northwest quarter of the Southeast quarter of Section 27, a distance of 20 rods to the place of beginning, excepting a right of way for water main to the City of St. Helens, Oregon.

LOCATION OF WELL '1'

Beginning at the Northwest corner of the Northwest quarter of the Southeast quarter of Section 27, Township 5 North, Range 2 West of the Willamette Meridian, Columbia County, Oregon; thence East on the North line of said Northwest quarter of the Southeast quarter of said Section 27, a distance of 40 rods to a point; said last named point being the beginning point of the following; thence South and parallel with the West boundary line of said Northwest quarter of the Southeast quarter of Section 27 a distance of 27.15 rods, more or less, to a point; thence West a distance of 8.65 rods, more or less, to the location of well '1'.

LOCATION OF WELL '2'

Beginning at the Northwest corner of the Northwest quarter of the Southeast quarter of Section 27, Township 5 North, Range 2 West of the Willamette Meridian, Columbia County, Oregon; thence East on the North line of said Northwest quarter of the Southeast quarter of said Section 27, a distance of 40 rods to a point; said last named point being the beginning point of the following; thence South and parallel with the West boundary line of said Northwest quarter of the Southeast quarter of Section 27 a distance of 19.76 rods, more or less, to a point; thence West a distance of 6.34 rods, more or less, to the location of well '2'.

MILTON CREEK

MILTON CREEK

LEASED -
FIELD
BLOCK
(APPROX.)

BLOCK of 8 GREEN HOUSES
EACH 20 X 240 ft

FIELD BLOCK

2
GREENHOUSES
EACH
30 X 96

2 GREENHOUSES
EACH 30 X 96

G.H.
20 X 50

3
GREENHOUSES
EACH
13 X 96

SHOP

HOUSE

WELL 2

FIELD
BLOCK
(APPROX.)

WELL 1

FIELD BLOCK
(APPROX.)

WATER USE MAP PLUS
LOCATION of WELLS #1 & #2

TAX LOT
5227-000-02100

SCALE: $\frac{1}{8}$ " = 10 ft

FILE # G1 3889

FO CHECKLIST

REVIEW DATE: 10/17/96

WEEK # 57

PFO TO FO CONVERSION

INITIALS : JTG

In preparing the FO, you should check the following:

1. Y / ☒ Were comments or protests received in response to the PFO?
2. ☒ If #1 = "Y", from whom were the comments received and when?
3. ☒ Verify names and addresses on the PFO CC list. ALL commentors (regardless of comment date), affected landowners (were they notified?), and those who paid the \$10 fee should be listed.
4. ☒ Verify payment of recording fees (circle the appropriate option)
200
100
4
100
(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
5. Y / ☒ Is the file lacking a signed oath of accuracy for the application?
6. Y / ☒ Has ODFW asked for self certification on screening condition?
7. Y / ☒ Is water use prohibited for one or more months of the normal use period?
8. Y / ☒ If # 7 = "Y", is short season letter on file? Note: If short season letter is lacking prepare FO with Draft permit giving applicant 60 days to submit letter.
9. Y / N Is further processing possible? If not state reason: _____
10. _____ Notify applicant of additional information or fees required prior to permit issuance (SEND CERTIFIED LETTER & use standard wording from M:\T\FO\TOOLS if possible)
11. _____ Assign permit numbers to files with oath, fees, and no protests or other issues

DENIAL FO w/o PERMIT
LARRY JERRYRoute to: (circle one)
FO & PERMIT COMMENTS
JEREMY DOUG713 well location given in
Roads From C-W-E 64
corner. Convert to be
(Rad = 162 ft)
well 1 = 448' S + 143' W
well 2 = 326' S + 105' W
Initials JTG

Modify FO as needed to:

12. ☒ Respond to significant comments, issues, or disputes related to the proposed use of water (see notes, if any, listed above)
13. ☒ Include or exclude permit conditions and management codes
14. ☒ Correct PFO errors (such as POD or POU location (verify from map), Permit format)

Once FO document is completed:

15. ☒ Save WordPerfect document in M:\T\FO\WEEK 57 & delete duplicates
16. ☒ Print final draft of document and submit to team leader for review
17. Y / N Team leader review completed

200 - E
100 - 10 AC
4 2x2

100
404

Requirements for Map to Accompany Application for Water Use Permit

condensed from OAR 690-310-050

The map submitted with this water use applications does not meet the following criteria:

✓ The application map shall be of permanent quality and drawn in ink or otherwise printed in an indelible form with sufficient clarity so as to be easily reproduced.

✓ Maps shall be drawn on good-quality paper. If the map is larger than 11 inches by 17 inches, four copies must be submitted or the map must be drawn on tracing linen, tracing vellum or mylar.

All maps shall be drawn to a standard, even scale of not less than 4 inches = 1 mile. All maps must include the scale to which the map is drawn and a north directional symbol.

The location of each diversion point, well, or dam by reference to a recognized public land survey corner. The locations may be shown by distance and bearing or by coordinates (distance north or south and distance east or west from the corner).

✓ The location of main canals, ditches, pipelines, or flumes.

✓ The location of the place where water is to be used identified by tax lot, township, range, section and nearest quarter-quarter section along with a notation of the acreage of the proposed place of use, if appropriate. The Department also shall accept any locational coordinate information that the applicant may wish to provide, including latitude and longitude as established by a global positioning system. If for irrigation, the area to be irrigated in each quarter-quarter of a section shall be indicated by shading or hatchuring and the number of acres in each quarter-quarter section, donation land claim, government lot or other recognized public land survey lines indicated.

Notwithstanding
map deficiencies, I have been
instructed to issue a permit (prepare
document for consideration by director)
using the substandard map on file.
This instruction is from Dwight after
my review of the map, documented
above, was over ruled.

DB
1/21/97

DB
10/22/96
* Deficiencies as compared to min.
standards spelled out in OAR 690-11-070
dated 8/20 or OAR 690-310-050
dated 1/21/96, being rules in effect
at time of filing or at
time of review.

Oregon Water Resources Department
Water Rights Division

1. Need EASEMENT
From Robt Nolan
2. ^{should have} ~~Need~~ ^{reproducible} Map Showing
Area to be irrigated
(hatched) & Northern
etc.

Water Rights Application
Number G-13889

UN assign Permit #

Final Order

Application History

On November 23, 1994, PAUL A. LIDDELL submitted an application to the Department for a water use permit. The Department issued a Proposed Final Order on August 27, 1996. The protest period closed October 11, 1996, and no protest was filed.

The proposed use would not impair or be detrimental to the public interest.

→ m:IT/FO/TOOLS/EASE

Order

Application G-13889 therefore is approved as proposed by the Proposed Final Order, and ~~Permit G-12935 is issued~~ as limited by the conditions ~~proposed by the Proposed Final Order.~~

included in the attached draft permit

DATED October , 1996

Martha O. Pagel
Director

Appeal Rights

Under the provisions of ORS 183.484, the applicant may appeal this order by filing a petition for review in the Circuit Court for Marion County or the circuit court for the county in which the applicant resides or has a principal business office. The petition for review must be filed within 60 days after the date this order is served.

STATE OF OREGON

COUNTY OF COLUMBIA

Draft →

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS ~~PERMIT~~ IS HEREBY ISSUED TO

PAUL A. LIDDELL
31612 PITTSBURG RD
ST HELENS, OREGON 97051

(503) 397-3830

The specific limits for the use are listed below along with conditions of use.

APPLICATION FILE NUMBER: G-13889

SOURCE OF WATER: TWO WELLS IN MILTON CREEK BASIN

PURPOSE OR USE: IRRIGATION ~~AND~~ AGRICULTURAL USE ^{AND} OF 11.75 ACRES

MAXIMUM RATE: 0.969 CUBIC FOOT PER SECOND

PERIOD OF USE: YEAR ROUND FOR AGRICULTURAL USE; MARCH 1 THROUGH OCTOBER 31 FOR IRRIGATION

DATE OF PRIORITY: NOVEMBER 23, 1994

POINT OF DIVERSION LOCATION: NW 1/4 SE 1/4, SECTION 27, T5N, R2W, W.M.; WELL #1 - 517.28 FEET EAST AND 447.98 FEET SOUTH, WELL #2 - 555.39 FEET EAST AND 326.04 FEET SOUTH, BOTH FROM THE C 1/4 CORNER OF SECTION 27

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 of the year 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.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

Note: Parcel 12
Parcel 1

SW 1/4 SE 1/4
NW 1/4 NE 1/4 11.0 Ac
SECTION 27
TOWNSHIP 5 NORTH, RANGE 2 WEST, 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.
- 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.
- C. The Director may require the permittee to keep and maintain a record of the amount (volume) of water used and may require the permittee to report water use on a periodic schedule as established by the Director. In addition, the Director may require the permittee to report general water use information, the periods of water use and the place and nature of use of water under the permit. The Director may provide an opportunity for the permittee to submit alternative reporting procedures for review and approval.

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.

STANDARD CONDITIONS

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.

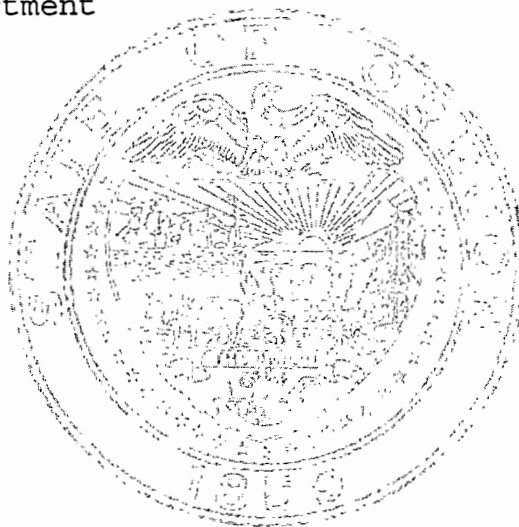
Actual construction of the well shall begin within one year from permit issuance, and shall be completed on or before October 1, 1998. Complete application of the water to the use shall be made on or before October 1, 1999.

Issued ~~October~~, 1996

EDATE3

DRAFT

Martha O. Pagel, Director
Water Resources Department



Application G-13889
Basin 02

Water Resources Department
Volume 4, MILTON CREEK & MISC.
MGMT.CODES 7BG, 7BR

PERMIT G-12985
District 01

April 25, 1996

PAUL A LIDDELL
31612 PITTSBURG RD
ST HELENS, OREGON 97051

Reference: File G-13889

Dear Applicant:

**THIS IS NOT A PERMIT AND IS
SUBJECT TO CHANGE DURING NEXT PHASE OF PROCESS**

This letter is to inform you of the unfavorable analysis of your proposed use of water and to describe some of your options. Based on the information you have supplied, the Water Resources Department has reached the following conclusions:

Initial Review Determinations:

1. Your application is complete and not defective.
2. The proposed use is not prohibited by law or rule.
3. Based on a groundwater review, the Department has determined this well will have the potential for substantial interference with Milton Creek, tributary to Scappoose Bay. Therefore, rules and laws applying to surface water will affect the proposed use for groundwater from this well for this application.
4. The use of water for IRRIGATION OF NURSERY STOCK ON 11.75 ACRES AND AGRICULTURAL USE ON 11.75 ACRES is not allowed under OAR 502, the Willamette Basin Program (OAR 690-502-150(1)(d)).
5. The use of 0.97 cubic foot per second (cfs), or 435.0 gallons per minute (gpm), being 0.08 cfs (35.0 gpm) from Well 1 and 0.89 cfs (400.0 gpm) from Well 2 for IRRIGATION OF NURSERY STOCK ON 11.75 ACRES AND AGRICULTURAL USE ON 11.75 ACRES is not available July 1 through December 31 and during the month of April.



Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

Paul A. Liddell
File G-13889
April 25, 1996
Page 2

Summary of Allowable Water Use

The use of 0.97 cubic foot per second (cfs), or 435.0 gallons per minute (gpm), being 0.08 cfs (35.0 gpm) from Well 1 and 0.89 cfs (400.0 gpm) from Well 2, from two wells in the Columbia River basin, for IRRIGATION OF NURSERY STOCK ON 11.75 ACRES AND AGRICULTURAL USE ON 11.75 ACRES is not allowed at any time.

It is not likely that you will be issued a permit due to #3 and 4 above. 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 May 9, 1996. 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. You may be required to measure the amount of water used and report that use annually.
2. You will be required to comply with state and federal water quality standards.

Paul A. Liddell
File G-13889
April 25, 1996
Page 3

3. 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.
4. The priority date of this application is November 23, 1994.

If you have any questions:

Feel free to call me at (503) 378-8455 ext. 455 or 1 (800) 624-3199 if you have any questions. Please have your application number available if you call.

Sincerely,


Kerry Lefever
Water Rights Specialist

cc: Regional Manager, Watermaster, Water Availability
Section

enclosures: Flow Chart of Water Right Process
Stop Processing Form

May 21, 1996

Paul A. Liddell
31612 Pittsburg RD
St Helens OR 97051

Reference File Number: G13889

Dear Mr. Liddell,

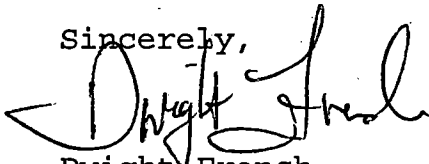
I am in receipt of your request asking the Department to withhold processing on your application referenced above.

The Department can put a hold on processing for up to 180 days. This extension can be extended again, for good cause shown. By asking for an extension you are waiving your rights to expedient processing. After the hold period has passed, the Department will continue to process your application.

No action will take place on this application until after August 15, 1996.

If you have any questions or concerns please give me a call.

Sincerely,



Dwight French
Water Right Section Manager

cc: file



Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

COMPLETED

COMPLETENESS DETERMINATION CHECKLIST

FEEs
o/c

Application #	Review Date	Reviewer
G - 13889	7/1/95	JG

A checkmark (✓) indicates that the item is incomplete or defective.

- ☐ 1. Examination fees.
- ☐ 2. Name and address of the applicant, and title if applicable.
- ☐ 3. Source of water.
- ☐ 4. Use of water.
- ☐ 5. Amount of water.
- ☐ 6. Description of delivery system.
- ☐ 7. A statement of whether the applicant has written authorization or easements permitting access to lands owned by others.
- ☐ 8. Name(s) and address(es) of the owners of any lands involved, but not owned by the applicant.
- ☐ 9. Proposed dates of beginning and completion of construction, and complete application of water.
- ☐ 10. If for municipal use, the present population to be served and expected future water requirements.
- ☐ 11. If for mining use, the type of mines and methods of supplying & utilizing the water.
- ☐ 12. If for a reservoir:
 - ☐ a. The height of the dam.
 - ☐ b. The storage capacity.
 - ☐ c. The area submerged.
 - ☐ d. The maximum depth.
 - ☐ e. The construction method (earthfill, concrete, flashboard, etc.).
 - ☐ f. A description of the outlet conduit.
 - ☐ g. A description of the spillway.
- ☐ 13. If for groundwater, the horizontal distance from the well to the nearest surface water source (if within one mile), and the difference in land surface elevation between them.
- ☐ 14. If the application was made under HB 2107:
 - ☐ a. Name and address of each adjacent property owner and verification that each owner has been mailed a copy of the completed notice.
 - ☐ b. A description of the proposed water used and related project, the condition it will address, and the benefits that are expected to result from the project.
 - ☐ c. The number of reservoirs per application is appropriate as per OAR 690-11-049 (3)(b)
- ☐ 15. An oath that the application information is true and correct.
- ☐ 16. The signature of the applicant(s).
- ☒ 17. A satisfactory map of the proposed POD & POU.
- ☐ 18. A Land Use Information Form or receipt.
- ☒ 19. A legal description of the property where water will be used.

Examination fee

200.00

Recording fees

Irrigation 100.00
(10 acres) 4.00

Domestic 125.00

Power

#1

5.00

#2

20.00

Total \$ 454.00

CERTIFIED MAIL
Return Receipt Requested

WATER
RESOURCES
DEPARTMENT

September 26, 1995

PAUL A LIDDELL
31612 PITTSBURG RD
ST HELENS OREGON 97051

RE: Application File # G-13889

Dear Paul:

On **September 5, 1995**, a letter was sent from the Department requesting additional information necessary to complete your application for water use. As of today, these items have not been received:

- ▶ A map showing the place where water is to be used and the point where water will be diverted. The map must identify the tax lot, township, range, section, and nearest quarter-quarters where the water will be diverted and used.
- OK ▶ A legal (metes and bounds) description of the property where water is to be used, such as that found on your deed or title insurance contract.

Please submit these items by **OCTOBER 27, 1995**. If we do not receive the items requested above by this date, we will reject your application consistent with ORS Chapter 537. 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.

Should you have any questions regarding your application or the required materials listed above, or if you need to request an extension of time, please call me personally at 1-800-624-3199, extension 458.

Sincerely,


Jerry Gainey
Completeness Team

Enclosures



Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

C-12889
Land Use Information Form: Permits, Hydroelectric Licenses, Water Uses in
Addition to Classified Uses

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, and/or used only on federal lands.

Applicant's Name: Paul A. Liddell
Address: 31612 Pittsburg Rd.
City: St. Helens, State: OR Zip: 97051 Day Phone: 397-3830

Please provide information as requested below for all tax lots on or through which water will be diverted or used. (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 or Local I.D.#	Plan Designation/Zoning (e.g. Rural Residential/RR-5)	Check All That Apply		
		Water Diverted	Water Conveyed	Water Use
5227-02100, 02101	Farmland			X

Please list all counties and cities within which water is proposed to be diverted, conveyed, and/or used. Columbia

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

For Local Government Use Only

Local planning officials are to complete the remainder of this form. If it cannot be completed while the applicant waits, sign and detach the receipt as instructed below. You will receive notice when the applicant's water right request is filed with the Water Resources Department (WRD). You will have 30 days from the notice date to return this completed land use form to WRD. If no land use information is received from you within that period, WRD may presume the land use associated with the proposed water right is compatible with your comprehensive plan.

a) 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): 602.2 Zoning Ord.. Go to section b) on reverse side.

☐ Land uses to be served by proposed water uses (including proposed construction) involve discretionary land use approvals as listed in the table below. **Note:** Please attach documentation of applicable local land use approvals which have already been obtained. (Record of Action plus any accompanying findings is sufficient.)

Type of Land Use Approvals Needed (e.g.: plan amendments, rezones, conditional use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Please check the box that applies:		
		Already Obtained	Already Denied	Being Pursued Satisfactorily

Receipt for Request for Land Use Information

(over)

WRD Applicant Name: _____

This receipt must be signed by a local government representative and returned to the applicant for inclusion in the WRD application IF the local government cannot provide the above requested land use information while the applicant waits.

City or County: _____

Staff Contact: _____ Phone: _____

Signature: _____ Date of Information Request: _____

(For Local Use Continued)

b) Please provide printed name and written signature.

Name: Glen C. Higgins

Title: Chief Planner

Signature: Ge. C. [Signature]

Date: 7/8/94

Phone: 397-1561

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.

Additional Comments:

(START CARD) # 49534

9809C K

December 16, 1996

WATER
RESOURCES
DEPARTMENT

PAUL A LIDDELL
31612 PITTSBURG RD
ST HELENS, OREGON 97051

REFERENCE: REFUND, APPLICATION FILE G13889

Enclosed is a check, no. 4321050, in the amount of \$50. This is a refund of excess recording fees paid for the above referenced application file. Your permit is not affected by this refund of excess fees.

If you need further assistance please contact the Water Rights Section at the address listed below or phone (503)378-3739.

Sincerely,



Douglas L. Baer
Senior Water Rights Technician

enclosure

CC: Watermaster #1

enclosure



Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

INTEROFFICE MEMO

TO: FISCAL SECTION

DATE: 10/17/96

FROM: ~~XXXXXXXXXX~~
Authorized Examiner

SUBJECT: Request for transfer of fees or refund check

Please transfer \$ _____ Receipt _____ from file
_____ to file _____ for:
_____ Examination fee
_____ Permit Recording Fee

Please refund \$ 50.00 to Paul Liddell
file 426-13689, receipt 119114. These funds are
refunded due to:

Paul Liddell
31612 Pittsburg Rd.
St. Helens, OR 97051

_____ Application rejected
_____ Application withdrawn
☒ Excess fees collected for application/PON
_____ Payment of PON
_____ Protest Filing Fees
_____ Other: _____

NOV 15 1996

OK [Signature] 10/23/96

IR CHECKLIST

Application #: G 13889 Vol Subbasin
 Basin: Willamette WAB: 0303 POU-WAB 0303
 Township 5N Range 2W Section 27 1/4 1/4

- ☒ 1. Completeness checklist verified. ☒ N or No Checklist
- ☒ 2. Indicators that the process should not continue (ie - protest, items missing, letter to file indicating hold, or other) Y / N
- ☒ 3. Groundwater review (A) B 4I-7B Milton Creek 435 gpm = 0.97 cfs being
☒ a. Is the well located in a groundwater limited area? Y / ☒ N 0.08 cfs (35 gpm) from well #1 &
☒ b. SWW Y / ☒ N "X" 0.89 cfs (400 gpm) from well #2 for
IRRIG & AGRIC (Mussel)
ON 11.75 acres
- ☒ 4. SWW restrictions Y / ☒ N
- ☒ 5. TMDL Basin? Y / ☒ N Tualatin, Yamhill, Pudding
- ☒ 6. Basin Program limitations? ☒ N 690-502-1500(d) Milton Creek withdrawn
except Dom & storage
season allowed
- ☒ 7. Withdrawal? ☒ N 0.25 538.300
- ☒ 8. Basin Maps have been checked. ☒ N The River Mile is Milton Cr > Scappoose Bay
- ☒ 9. Water Availability (50% < July 17, 1992 **80% [50% storage] > July 17, 1992) NA water avail Jan 1 - Mar 31
& May 1 - June 30
- ☒ 10. Rate 1/80 Duty 2 1/2 (gw) Season IRRIG Mar 1 - Oct 31 AGRIC year round 690-502-040(6)
- ☒ 11. Use IRRIG, AGRIC Period of Allowed Use NOT allowed
- ☒ 12. Priority Date(s) 11/23/94
- ☒ 13. B.O.R. project Y / N contract #
- ☒ 14. Division 33 ☒ N (Abv Bonn > July 17, 1992 & B/w Bonn > April 18, 1994 or June 3, 1994) water quality
- ☒ 15. Conflicts Y / ☒ N
- ☒ 16. Land use approval OK'd needs approval county notified NA Columbia Co.
- ☒ 17. Conditions? (BOR, GW, other) Y / N 7B
- ☒ 18. Watermaster District #: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
- ☒ 19. Regional Office (NWR) NCR, ER, SCR, or SWR
- ☒ 20. IR has been saved to m:\t\ir\sent\app # from m:\t\ir\work\app #

cc: Robert Nolan, 31494 Pittsburg Rd, St. Helens, OR 97051

Name: Kerry Leferer Date: 4/23/96

(5) 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:

- (a) Fish Creek tributary to Clackamas River;
- (b) Foster Creek tributary to Clackamas River;
- (c) Wash Creek tributary to Fish Creek;
- (d) Eagle Creek tributary to Clackamas River;
- (e) Clear Creek tributary to Clackamas River;
- (f) Richardson Creek tributary to Clackamas River;
- (g) Rock Creek tributary to Clackamas River;
- (h) Deep Creek tributary to Clackamas River.

(6) The waters of natural lakes with surface elevations above 3,000 feet mean sea level are classified only for domestic, excluding irrigation of lawn and noncommercial garden, livestock and public instream uses. No storage shall be allowed on these lakes.

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

Columbia Subbasin

690-502-150. The Columbia Subbasin includes the Willamette River main stem below Willamette Falls near river mile 27 and its tributaries, and all other stream systems in the Willamette Basin except for the Tualatin River and Clackamas River Subbasins. It includes the Multnomah Channel and Columbia Slough but does not include the main stem Columbia River. Surface water classification:

(1) The following streams and tributaries are withdrawn from further appropriation except storage:

(a) Johnson Creek and tributaries, except Crystal Springs Creek and tributaries for flows in excess of ten cubic feet per second measured at the mouth, are withdrawn, by act of the Legislature, from further appropriation except for protection of fish life therein and power development not to exceed 25 theoretical horsepower.

Appropriation and storage are allowed on Johnson Creek tributaries, but not the main stem, from December 1 through June 1 of each year, ORS 538.170;

(b) Scappoose Creek is withdrawn, by act of the Legislature, from further appropriation, except for protecting fish life therein, domestic, livestock, municipal, fish culture, esthetic, recreation and public park purposes, ORS 538.251(5) and 538.260;

(c) McNulty Creek, tributary to Scappoose Bay, is withdrawn, by act of the Legislature, from further appropriation except for storage during the period November 1 through March 31 each year, ORS 538.280;

(d) Milton Creek is withdrawn by act of the Legislature from further appropriation except for domestic use year-round and storage during the period November 1 through April 30 each year, ORS 538.300;

(e) Little Creek and tributaries, being tributaries to Scappoose Creek, are withdrawn from further appropriation except for storage, by order of the State Engineer dated August 13, 1951;

(f) An unnamed stream, a tributary to the Columbia River flowing through Section 25, Township 1 North, Range 2 East, Willamette Meridian and Sections 19 and 20, Township 1 North, Range 3 East, Willamette Meridian is withdrawn from further appropriation by order of the State Engineer dated September 22, 1950.

(2) The Willamette River main stem below Willamette Falls is classified for domestic, livestock, municipal, industrial, commercial, agricultural, mining, power,

fish life, wildlife, recreation, pollution abatement, wetland enhancement and public instream uses.

(3) Multnomah Channel and drainage waters originating within drainage districts are classified for domestic, livestock, municipal, industrial, irrigation, commercial, agricultural, mining, power, fish life, wildlife, recreation, pollution abatement, wetland enhancement and public instream uses.

(4) Except as specified in subsections (1)(a), (b) and (c) of this rule, all stream systems in the Columbia Subbasin and Columbia Slough are classified year-round only for domestic, commercial use for customarily domestic purposes not to exceed 0.01 cfs, livestock and public instream uses.

Stat. Auth.: ORS 536.300 & 536.340

Hist.: WRD 4-1992, f. & cert. ef. 3-13-92

Groundwater Classifications and Conditions

690-502-160 (1) Use of groundwater from the basalt aquifer within the Cooper-Bull Mountain Critical Groundwater Area shall be as described in the State Engineer's order designating the Cooper-Bull Mountain Critical Groundwater Area dated May 17, 1974.

(2) Groundwater Classification: The ground-water resources of the Willamette Basin are classified for domestic, livestock, ~~irrigation~~, municipal, industrial, ~~agricultural~~, commercial, power, mining, recreation, fish life, wildlife, pollution abatement, wetland enhancement and statutorily exempt groundwater uses with the following exceptions:

(a) Groundwater from the *shallow* Troutdale aquifer and the specially designated portion of the *deep* Troutdale aquifer in the Sandy-Boring area is classified for exempt uses only. The Sandy-Boring Groundwater Limited Area is as described and shown in Exhibit 1. Groundwater applications pending on October 4, 1991 shall be processed according to the classifications in effect on the date the application was filed and shall contain the Special Permit Conditions specified in section (4) of this rule. Applications may be rejected if the aquifer displays any of the adverse impacts defined in OAR 690-08. Applications submitted after October 4, 1991 shall be processed according to the requirements of these rules and classifications;

(b) Groundwater from the basalt aquifers in the Damascus, Glad Tidings, Kingston, Mt. Angel, Parrett Mountain, and Stayton-Sublimity areas, and the Troutdale aquifer in the Damascus area is classified for exempt uses only:

(A) The Damascus Groundwater Limited Area is as described and shown in Exhibit 2. The Glad Tidings Groundwater Limited Area is as described and shown in Exhibit 3. The Kingston Groundwater Limited Area is as described and shown in Exhibit 4. The Mt. Angel Groundwater Limited Area is as described and shown in Exhibit 5. The Parrett Mountain Groundwater Limited Area is as described and shown in Exhibit 9. The Stayton-Sublimity Groundwater Limited Area is as described and shown in Exhibit 7;

(B) Groundwater applications pending on October 4, 1991 shall be processed according to the classifications in effect on the date the application was filed. Permits may be issued for a period not to exceed five years and shall contain the Special Permit Conditions specified in section (3) of this rule. Permits may be extended for additional five-year periods if the Director finds that the groundwater resource can probably support the extended use. Applications may be rejected or permit or certificate extensions may be denied if the aquifer displays any of the adverse impacts defined in OAR 690-08. Applications submitted after October 4, 1991 shall be processed according to the requirements of these rules and classifications. Within two years of permit issuance, the applicant shall prepare a plan for the Water

Resources Commission which shall indicate the steps for obtaining an alternate long-term water supply.

(c)(A) Except as provided in paragraph (B) of this subsection, groundwater from the basalt aquifers in the Sherwood-Damascus-Wilsonville Groundwater Limited Area as described and shown in Exhibit 6 is classified for exempt uses only;

(B) Groundwater applications G-12155 (City of Sherwood) and G-13353 (Manke Lumber Co.) shall be processed according to the classifications in effect on the date the application was filed. Permits shall contain the Special Permit Conditions specified in Section (3) of this rule.

(d) Groundwater in the basalt aquifers in the Chehalem Mountain, Eola Hills and South Salem Hills Groundwater Limited Areas is classified for exempt uses, irrigation and rural residential fire protection systems only. Permits may be issued, for a period not to exceed five years, for fire protection and for drip or equally efficient irrigation provided the Director finds the proposed use and amount do not pose a threat to the groundwater resource or existing permit holders. The amount of water used for irrigation shall be further limited to one acre-foot per acre per year. Permits may be extended for additional five-year periods if the Director finds that the groundwater resource can probably support the extended use. Applications may be rejected or permit or certificate extensions may be denied if the aquifer displays any of the adverse impacts defined in OAR 690-08:

(A) The Chehalem Mountain Groundwater Limited Area is as described and shown in Exhibit 8. The Eola Hills Groundwater Limited Area is as described and shown in Exhibit 10. The South Salem Hills Groundwater Limited Area is as described and shown in Exhibit 11;

(B) Groundwater applications pending on October 4, 1991 shall be processed according to the classifications in effect on the date the application was filed. Permits may be issued for a period not to exceed five years and shall contain the Special Permit Conditions specified in section (3) of this rule. Permits may be extended for additional five-year periods if the Director finds that the groundwater resource can probably support the extended use. Applications submitted after October 4, 1991 shall be processed according to the requirements of these rules and classifications. Within two years of permit issuance, the applicant shall prepare a plan for the Water Resources Commission which shall indicate the steps for obtaining an alternate long-term water supply;

(e) Groundwater — Surface water hydraulic connection: These rules are in addition to the requirements of OAR 690-09. Groundwater in unconfined alluvium within 1/4 mile of the banks of a stream or surface water source is presumed to be in hydraulic connection with the surface water source, unless the applicant or appropriator provides satisfactory information or demonstration to the contrary. This hydraulically connected groundwater shall be classified the same as the surface source. This section shall not apply to those groundwater uses exempted by ORS 537.545. Notwithstanding such classification, permits may be issued for the use of water from a well in an unconfined aquifer that is hydraulically connected to groundwater, within a quarter mile of a stream, provided that surface water impacts are mitigated through storage releases.

(3) Special Columbia River Basalt Group Aquifer Permit Conditions: New permits issued to appropriate groundwater from Columbia River Basalt Group aquifers shall be specially conditioned. The conditions shall specify:

(a) A static water level measurement be made and submitted before any use of water may commence at the well;

(b) The permittee/appropriator install a meter or other suitable measuring device approved by the Director and submit an annual report of water used to the Department;

(c) Limits on acceptable amounts of depletion and interference with other users;

(d) Use of water from the well be controlled or shut off if limits specified in the permit to protect the resource from depletion, and prior appropriators from interference, are exceeded;

(e) The Department shall determine, from measurements submitted by the permittee/ appropriator, or other data on file in the department, the initial and subsequent water levels from which the previously cited declines are referenced;

(f) Following the issuance of a permit, the permittee/appropriator shall measure the water levels in the permitted well each year between March 1 and March 31 (spring high-water level) and submit the data to the Department within 90 days of measurement. Water level measurements shall be made by a certified water rights examiner, licensed water well driller, licensed pump installer, registered geologist, licensed land surveyor, registered professional engineer or the permittee/ appropriator;

(g) Any other conditions derived from OAR 690-08 as deemed necessary to protect the groundwater resource.

(4) Special Permit Conditions: New permits issued to appropriate groundwater from aquifers within the Sandy-Boring Groundwater Limited Area and the Troutdale aquifer in the Damascus Groundwater Limited Area shall be specially conditioned. The conditions shall specify:

(a) A static water level measurement be made and submitted before any use of water may commence at the well;

(b) Limits on acceptable amounts of depletion and interference with other users;

(c) Use of water from the well be controlled or shut off if limits specified in the permit to protect the resource from depletion, and prior appropriators from interference, are exceeded;

(d) The Department shall determine, from measurements submitted by the permittee/ appropriator, or other data on file in the department, the initial and subsequent water levels from which the previously cited declines are referenced;

(e) Following the issuance of a permit, the permittee/appropriator shall measure the water levels in the permitted well each year between March 1 and March 31 (spring high-water level) and submit the data to the Department within 90 days of measurement. Water level measurements shall be made by a certified water rights examiner, licensed water well driller, licensed pump installer, registered geologist, licensed land surveyor, registered professional engineer or the permittee/ appropriator;

(f) Any other conditions as specified in OAR 690-08 as deemed necessary to protect the groundwater resource.

[ED. NOTE: The Exhibit(s) referenced in this rule is not printed in the OAR Compilation. Copies are available from the Water Resources Department.]

Stat. Auth.: ORS Ch. 536 & 537

Hist.: WRD 4-1992, f. & cert. ef. 3-13-92; WRD 12-1993, f. & cert. ef. 9-9-92; WRD 3-1994, f. & cert. ef. 3-10-94, WRD - 1994, f. & cert. ef. 11-7-94

WATER AVAILABILITY TABLE

Basin: WILLAMETTE

Exceedance Level: 80

Water Availability Subbasin: 0303000000000000 (and Nested Subbasins)

Time: 13:48

Date: 04/23/1996

Item #	W.A. Subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Sto
1	0300000000000000	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	YES	YES	YES
2	0303000000000000	YES	YES	YES	NO	YES	YES	NO	NO	NO	NO	NO	NO	YES

STREAM NAMES

Basin: WILLAMETTE

Water Availability Subbasin: 0303000000000000 (and Nested Subbasins)

Time: 13:48

Date: 04/23/1996

WAB #	Stream Name	Tributary to
0300000000000000	MILTON CR	SCAPPOOSE BAY
0303000000000000	MILTON CR	SCAPPOOSE BAY

LIMITING WATER AVAILABILITY SUBBASINS

Water Availability Subbasin: 0303000000000000

Basin: WILLAMETTE

Exceedance Level: 80

Time: 13:48

Date: 04/23/1996

Month	Limiting Subbasin	Stream Name	Water Available?	Net Water Available
1	0303000000000000	MILTON CR	YES	2.3
2	0303000000000000	MILTON CR	YES	7.7
3	0303000000000000	MILTON CR	YES	4.8
4	0303000000000000	MILTON CR	NO	-5.4
5	0303000000000000	MILTON CR	YES	10.4
6	0300000000000000	MILTON CR	YES	2.0
7	0300000000000000	MILTON CR	NO	-6.7
8	0300000000000000	MILTON CR	NO	-7.2
9	0300000000000000	MILTON CR	NO	-4.7
10	0300000000000000	MILTON CR	NO	-3.1
11	0303000000000000	MILTON CR	NO	-21.5
12	0303000000000000	MILTON CR	NO	-9.2
Stor	0303000000000000	MILTON CR	YES	7840.0

No WATER April & Jul 1 - Dec 31

Due to Negative Flows: July 1 - Oct 31

Due to ISMR: April, Nov & Dec

Date: 04/23/1996

DETAILED REPORT OF ISWRs

Date: 04/23/1996

APP # :	133A	0	0	0	0	RESULTANT
STATUS:	Cert.					
1	25.0	0.0	0.0	0.0	0.0	25.0 C
2	25.0	0.0	0.0	0.0	0.0	25.0 C
3	25.0	0.0	0.0	0.0	0.0	25.0 C
4	25.0	0.0	0.0	0.0	0.0	25.0 C
5	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0
11	25.0	0.0	0.0	0.0	0.0	25.0 C
12	25.0	0.0	0.0	0.0	0.0	25.0 C

PFO CHECKLIST

Application #: G-13889 Vol _____ Subbasin _____

Basin: 2 WAB: _____

township SN Range 2W Section 27 1/4 1/4 _____

- ☒ 1. Completeness checklist verified? (Y) / N
- ☐ 2. Indicators that the process should not continue (e - protest, items missing, letter to file indicating hold, other) Y / N
- ☒ 3. Groundwater review A (B) C D
 - ☒ a. Is second groundwater review necessary? Y / (N) reason _____
 - ☒ b. Is the well located in a groundwater limited area? Y / (N)
- ☒ 4. SWW Y / (N) Triage Y / N conditions/restrictions Y / N _____
- ☒ 5. Basin Program limitations? Y / (N) _____
- ☒ 6. Withdrawal? Y / (N) season allowed _____
- ☒ 7. Basin Maps have been checked (Y) / N The River Mile is _____
- ☒ 8. Water Availability (50% < July 17, 1992 OR 80% [50% storage] > July 17, 1992) (NA)
 - a. Notify Ken Stahr Y / N (Q, Duty, or Season) _____
- ☒ 9. Rate/Duty/Season varies
- ☒ 10. Use Irrig & Agr. Period of Allowed Use _____
- ☒ 11. Priority Date(s) Nov. 23, 1994 TR / IR mail date _____
- ☒ 12. B.O.R. project Y / (N) contract # _____
- ☒ 13. TMDL Basin? Y / (N) (Tualatin, Yamhill, Pudding) Division 33 Y / N (Abv Bonn. > July 17, 92 / Elw Bonn. > April 18, 94 or June 3, 94)
- ☐ 14. Conflicts Y / N _____
- ☐ 15. Objections? Y / N PFO different from IR/TR Y / N _____
- ☐ 16. Conditions (from IR/TR/ or Additional) Y / N (macro series 4-7) 7B
- ☒ 17. Land use approval (OK'd) needs approval county notified NA
- ☐ 18. SIZE Small (≤ 0.1 ch, ≤ 9.2 AF), Medium (> 0.1 or < 1.5 ch, > 9.2 or < 100 AF) Large (≥ 1.5 ch, ≥ 100 AF)?
- ☒ 19. Watermaster Dist: (1 2 16 18 - NWR) (3 4 5 - NCR) (6 8 9 10 - ER) (11 12 17 - SCR) (14 15 19 - SWR)

SECTION 27 T.5N. R.2W. W.M.
COLUMBIA COUNTY

THIS MAP HAS BEEN PREPARED FOR ASSESSMENT PURPOSES ONLY
SCALE 1" = 400' CURRENT REVISION DATE: 9 / 17 / 93

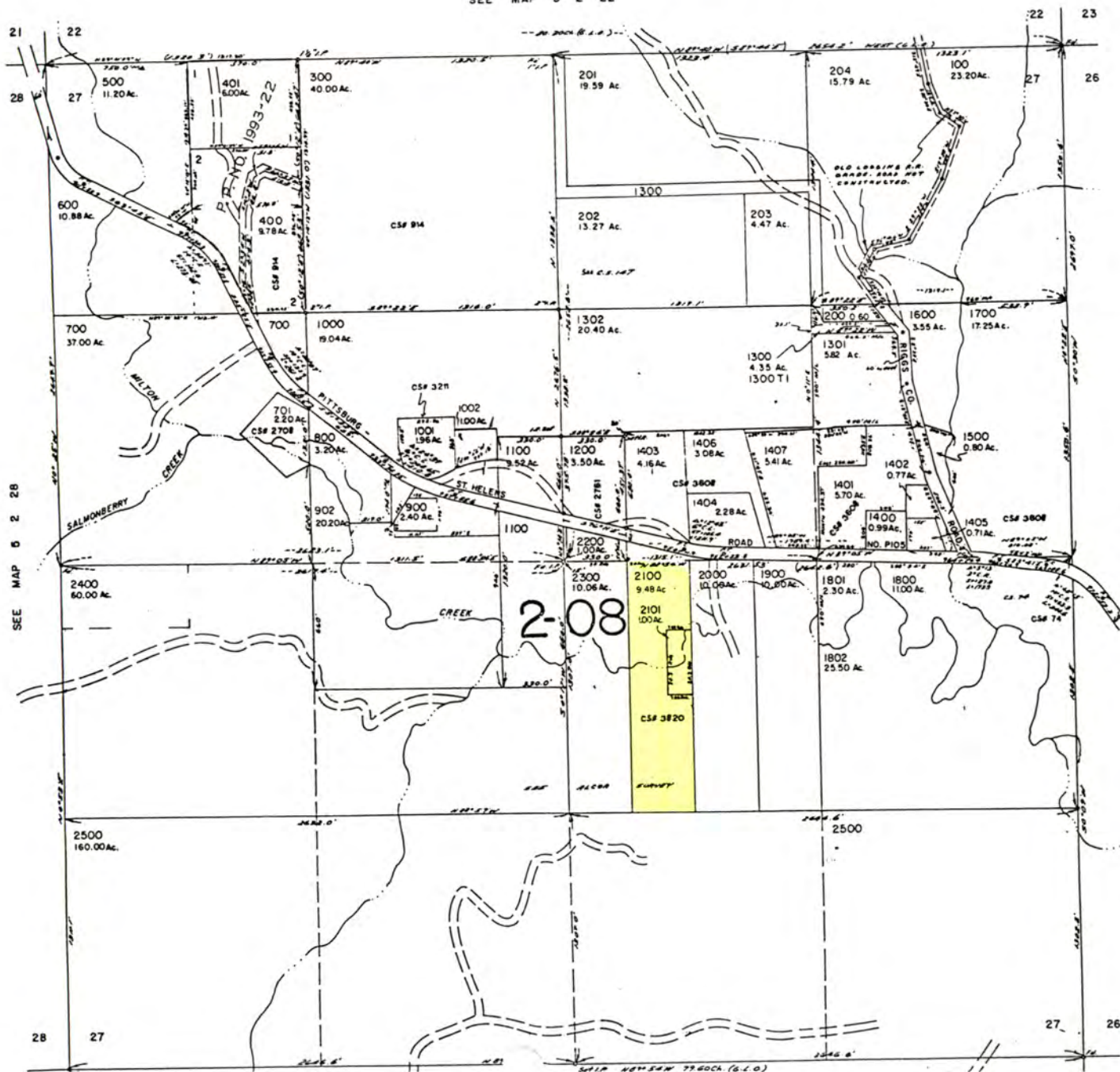
5 2 27

CS# 147
CS# 471
CS# 3758

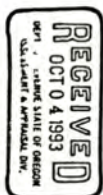
SEE MAP 5 2 22

1 rd = 16.5 ft

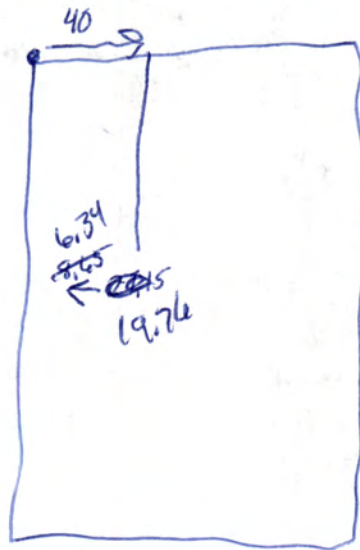
SCALE 1:9600.



SEE MAP 5 2 26



517.28 ft 447.98 ft
 31.35 east & 27.15 south from
 C_{1/4} corner



555.39 east
 326.04 south

OREGON WATER RESOURCES PLAT CARD: Township 5.00 N Range 2.00 W SECTION 27

4/23/1996

4/23/1996

TO: Water Rights Section Aug 12, 1996
FROM: Groundwater/Hydrology Section Doug Woodcock
SUBJECT: Application G- 17889 Reviewer's Name

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE W.I. Basin rules, one or more of the proposed POA's is/is not within 1/4 feet/mile of a surface water source (MILTON CR) and taps a groundwater source hydraulically connected to the surface water.
2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use
 - a. ☐ will, or have the potential for substantial interference with the nearest
 - b. ☒ will not surface water source, namely MILTON CR; 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

3. 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. ☒ will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
 - i. ☒ The permit should contain condition #(s) 7B;
 - 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
4.
 - 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: THIS REVIEW — BASED UPON NEW DATA SUBMITTED
BY APPLICANT — SUPERCEDES REVIEW OF 12/13/94.

(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 _____ t current well construction standards based upon:

a. ☐ review of the well log;
b. ☐ field inspection by _____
c. ☐ report of CWRE _____
d. ☐ other: (specify) _____

NOTE NEW D-9
REVIEW.
Done

6. THE WELL construction deficiency:

a. ☐ constitutes a health threat under D
b. ☐ commingles water from more than _____
c. ☐ permits the loss of artesian head;
d. ☐ permits the de-watering of one or more water 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)

MEMO

April 12, 1996

FROM GW: Down Miller
(Reviewer's Name)

SUBJECT Scenic Waterway Interference Evaluation

☐ Yes

The source of appropriation is within or above a Scenic Waterway.

☒ No☐ Yes

Use the Scenic Waterway condition (Condition 7J).

☒ No

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.

[illegible]

TO: Water Rights Section

Dec 13, 1994

FROM: Groundwater/Hydrology Section D. Woodcock

Reviewer's Name

SUBJECT: Application G- 13884

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE _____ Basin rules, one or more of the proposed POA's is/is not within _____ feet/mile of a surface water source (_____) and taps a groundwater source hydraulically connected to the surface water.
2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use
 - a. ☒ will, or _____ have the potential for substantial interference with the nearest
 - b. ☐ will not _____ surface water source, namely MILTON CR; 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

3. 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. ☒ will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
 - i. ☒ The permit should contain condition #(s) 4I;
 - 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
4.
 - 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: _____

(Signature)

HAPPY HOLLOW GARDENS
Paul Liddell
31612 Pittsburg Road
St. Helens, OR 97051
FAX (503) 397-7728

If there is any difficulty in receiving this telecopy, please call
Paul Liddell, 397-3830.

DATE: 5/6/96 TIME SENT: 9:10 P.M.
NUMBER OF PAGES (INCLUDING COVER): 2
TO: KERRY LEFEVER FAX NO.: (503) 378-8130
SUBJECT: FILE G-13889

A hard copy of this letter is being mailed to you
5/7/96, a.m.

FAX RECEIVED
NOTIFIED Kerry
TIME 10:39 AM PM
INITIALS CN



HAPPY HOLLOW GARDENS

31612 Pittsburg Road
St. Helens, Oregon 97051
Phone: (503) 397-3830

May 6, 1996

Kerry Lefever
Oregon Water Resources Department
158 12th Street NE
Salem, OR 97310-0210

Reference: File G-13889

Dear Mr. Lefever:

In response to your letter dated April 25, 1996, concerning my request for water rights, I request that the PFO be delayed until the hydrolic connection is resolved with Doug Woodcock.

Sincerely,

Paul A. Liddell

c: Doug Woodcock



Principals
Group

Environmental & Water Resources

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WATER RESOURCES DEPT.
SALEM, OREGON

August 7, 1996

Doug Woodcock
Hydrogeologist, Groundwater and Hydrology Section
Oregon Water Resources Department
158 12 th. St. NE
Salem, OR. 97310-3199

RE: *Evidence to refute Division 9 determination for Paul Liddell Nursery Well.*
Water Resources Department Permit Application No. G-13889. Principals Group
Project No. 96-8-1.LID.

Dear Mr. Woodcock:

The purpose of this letter is to offer evidence to refute your Division 9 determination for Mr. Liddell's nursery well. His nursery is located in the NW 1/4 of the SE 1/4 of Section 27, T5N, R2W. The location of the property is marked in Enclosure 1.

Mr. Liddell's well is located approximately 100 feet north and in the floodplain of Milton Creek. I have included the well log for this well and the nearby house well as Enclosures 2 and 3, respectively. As can be seen in these enclosures, both of these wells are open hole wells drilled predominately in sandstone bedrock. The surface casing is founded in the sandstone. In both wells, the static water levels are above the level that water was first found, indicating that the wells are confined and slightly artesian. Enclosure 4, an August 2, 1996 letter from Greg Beaman, Watermaster, to Paul Liddell confirms that the wells are in bedrock and that the water level of Milton Creek is about 1.5 to 2.5 feet below groundwater.

The sandstone unit is probably the Astoria Formation or another sandstone/siltstone such as the Nestucca or Nye Formation. In the roadcuts in the area, I interpreted the formation as one of the turbidite sequences of sandstones and siltstones. What the drillers saw as clay near the ground surface was actually a mudstone or siltstone that is common in the Coast Range. It dips beneath the Columbia River Basalt in the vicinity of the town of St. Helens. Milton Creek is entrenched in this fine grained, poorly indurated bedrock in the reach by the Liddell Nursery (see photos 1-4 in Enclosures 5 and 6).

I have also enclosed a couple of samples for your inspection and use. LID1 is a sample of the bed material of Milton Creek in the reach by the well. As can be seen, it is a poorly sorted sand with minor amounts of silt. However, much of the pool areas were blanketed by a few grain thickness of silts. Only one foot below this sample, the

sands changed to the clayey bedrock seen in Photos 1 and 2. LID2 is a sample of material and it is almost all clay and silt in size. LID3 is another sample of the fine grained material found below the creek channel about 300 feet upstream of the well.

My point in the above 3 paragraphs is that the geology shows that these are rock wells and are well-sealed from the overlying soil and creek. It is extremely unlikely that the creek provides any water to groundwater in this reach. Also, given that there is a pervasive clay horizon (it is a turbidite sequence and therefore laterally extensive), it would be unlikely that groundwater contributes significantly to surface water in this reach given that there is artesian pressure and a thick confining layer.

The geology is pretty conclusive. However, based on your advice, we did conduct an 8 hour pump test and a 2 hour recovery test on August 4, 1996. The nursery well was pumped at 270 gallons and water levels were monitored in this well and the house well which is approximately 120 feet south of the pumping well. The nursery well had not been used for several days prior to the test. Also, the test began early in the morning, so there had not been much water use from the house well. We monitored the groundwater level for 1 hour before the test and it was static (Enclosure 7).

The data base from the pump test is shown in Enclosure 7. I have included a disk copy of the data in case you should choose to perform any independent analysis. A couple of notes about the data:

- There is no good early time data from the nursery well. The well had enough iron and scale that the electric probe did not provide repeatable water levels until 70 minutes. Therefore, this analysis is not possible. This is not a problem since the house well provided good early time data. Also, the recovery data allows for early time analysis.
- Mr. Liddell changed sprinkler settings at 12:15, which also affected water use. This can be seen as a temporary flattening of the data in the nursery well at 200 to 300 minutes.

The nursery and house well data is plotted in Enclosures 8 and 9, respectively. The recovery data is plotted for these wells in Enclosures 10 and 11.

As can be seen in the calculations on Enclosure 8 and 9, the transmissivity of the well is approximately 17,000 g.p.d./ft. Storativity, as calculated by the house well is 0.0016. The transmissivity shows that the well is a moderate producer with about 4 feet of drawdown per log cycle of time. The storativity shows that the well is confined which makes sense because it is an artesian, rock well. Mr. Liddell also made note that there was no sound of cascading water at the nursery well during the recovery period, indicating a good well seal and a lack of connection with overlying groundwater or surface water.

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ER RESOURCES
SALEM OREGO

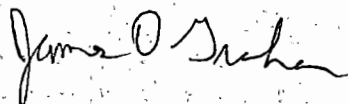
The pump test does not show a sign of inflection which could be caused by a permeable boundary (Milton Creek). The test, arguably, is not of the duration that we may want to see. However, the house well, which is further than the stream from the nursery well, showed nearly 8 ft. of drawdown during the pump test (Enclosure 9). During the pump tests, the cone of depression extended well past the stream and the pump test did not show a recharge boundary. This strongly indicates that the creek is separated from groundwater in this reach.

We also conducted a limited water quality investigation of Milton Creek and the groundwater. Enclosure 12 shows the results from water quality sampling of the well and creek. As can be seen in Enclosure 12, the creek has lower conductivity and pH than the well and higher water temperature than the well. These differences, although not sufficient by themselves to indicate the different sources of water, do support that surface and groundwater are not strongly connected. And, the iron content of the groundwater is much higher than the creek (6 versus < 1 ppm), which indicates that the creek and groundwater are different sources of water. I believe that it would be unlikely for water migrating from the creek towards the well to leach 5 ppm of iron on a consistent basis in that short of distance.

Finally, we measured the temperature of the groundwater and the creek during the pump test on August 4. The temperature of the creek varied from 14.2 C at 0725 to 15 C at 1530. The groundwater temperature, during that time, was 12.0 to 12.1 C.

In conclusion, Mr. Woodcox, I believe that we have demonstrated that this well, even though it is close to Milton Creek, does not impact the creek within the boundaries of Division 9. This proof can be seen in the geology of the area, the pump test that we performed, and the water quality measurements, as discussed in this report. If you have any questions regarding this report, pump test data, or any of the enclosures, please call me at 503.777.6588.

Sincerely,
PRINCIPALS GROUP



James D. Graham, RPG
Managing Principal

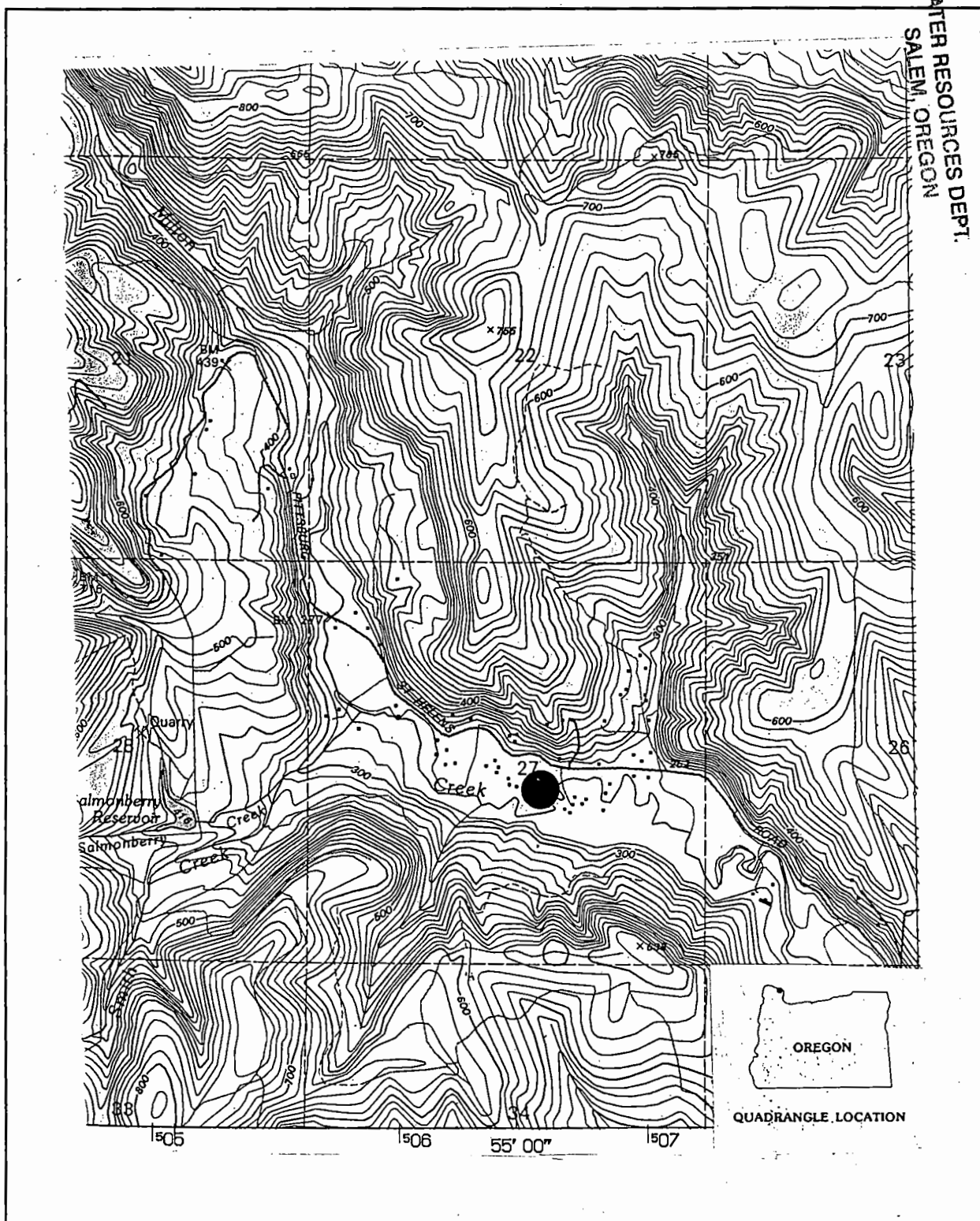
Enclosures: 12 enclosures
3 material samples
1 floppy disk

CC: Paul Liddell
Central Files, 96-8-1.LID

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SALEM, OREGON



Enclosure 1. Location map of Liddell Nursery. Source USGS Trenholm Quadrangle. Approximate Scale 1:24,000.

WATER WELL REPORT

WATER RESOURCES DEPARTMENT.
SALEM, OREGON 97310
within 30 days from the date
of well completion.

STATE OF OREGON
(Please type or print)

(Do not write above this line)

State Well No. 5N 2W-27

State Permit No. _____

(1) OWNER:

Name Paul Liddell
Address Rt. 1 Box 1266 St. Helens, 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 ☒
" Diam. from 0 ft. to 29 ft. Gage 250
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

(6) PERFORATIONS:

Perforated? ☐ Yes ☒ No.

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 48 gal./min. with 21 ft. drawdown after 1 hrs.

Artesian flow _____ g.p.m.

Temperature of water 50 Depth artesian flow encountered _____ ft.

CONSTRUCTION:

Well seal—Material used cement
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.
Number of sacks of cement used in well seal 5 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 Columbia Driller's well number _____
1/4 1/4 Section 27 T. 5N R. 2W W.M.
Bearing and distance from section or subdivision corner _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found 30 ft.
Static level 11 ft. below land surface. Date 8/280
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 6"

Depth drilled 54 ft. Depth of completed well 54 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	1	
Clay Red	1	16	
Sandstone Blue	16	54	11

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SALEM, OREGON

Work started 8/1 19 80 Completed 8/2 19 80
Date well drilling machine moved off of well 8/2 19 80

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] Dr. L. L. Luttrell Date 8/2, 1980
(Drilling Machine Operator)

Drilling Machine Operator's License No. 1074

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 Luttrell Well Drilling
(Person, firm or corporation) (Type or print)

Address Rt. 1 Box 1630 St. Helens, Oregon

[Signed] L. L. Luttrell
(Water Well Contractor)

Contractor's License No. 238 Date 8/2, 1980

Enclosure 4

WATER
RESOURCES
DEPARTMENT

August 2, 1996

Mr. Paul Liddell
31612 Pittsburg Rd
St. Helens, OR 97051

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WATER RESOURCES DEPT.
SALEM, OREGON

RE: Static Water Levels on wells 1 and 2 and Milton Cr.

Dear Mr. Liddell:

This letter is in response to our phone conversation earlier today and a review of the well inspections I completed on your property on May 1, 1996.

As I mentioned, a review of your well reports indicate that the aquifer your wells draw from is a consolidated aquifer; however the consolidated formation is very close to ground level and OWRD's Groundwater Section believes there may be hydrologic connection between the wells and nearby Milton Cr.

The well inspections began at 1200 hrs. and no pumping of the wells took place on May 1, 1996 prior to my inspection. Well reports further indicate that the consolidated formation begins at 16 feet in well # 1 and at 12 feet in well # 2. I also sounded the static water levels in well # 1 at 10.5 feet and in well # 2 at 11.5 feet; Milton Cr. showed a water surface level at 13.0 feet.

Location of well # 1 is 150 feet north and 86 feet west of Milton Cr. and well # 2 is 120 feet north of well # 1 and 98 feet west of Milton Cr. Milton Cr. flows from west to east on your property then turns 90 degrees to the north for about 300 feet then to the east again as it leaves your east property boundary.

If you notice any major discrepancies with the above please call 397-0633.

Sincerely,



Greg Beaman
Watermaster, District 1

a020112

John A. Kitzhaber
Governor



Watermaster District No. 1
Columbia County Courthouse
St. Helens, OR 97051
Phone: (503) 397-0633
FAX: (503) 397-7257

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WATER RESOURCES DEPT.
SALEM, OREGON

Enclosure 5



Photo 1. Soil horizon overlying clay and siltstone. Gray horizon is a clay rich horizon that extends laterally across bank exposure.



Photo 2. This photo shows Milton Creek incised in bedrock. The sandy deposit at foreground is location of samples LID1 and LID2.

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WATER RESOURCES DEPT.
SALEM, OREGON

Enclosure 6



Photo 3. Soil horizon overlying siltstone (just above water line). Photo is approximately 100 feet upstream of Photos 1 and 2.



Photo 4. Road cut showing sandstone and siltstone horizons. Red color of rock is due to iron rich minerals, possibly the cause of high iron groundwater in the vicinity.

Pump test data- Paul Liddell Nursury and House Well

August 4, 1996

Discharge 270 gpm

Distance of House well-122 feet.

Distance to Milton Creek-97 ft.

Nursury Well

Time	Elapsed	Depth	Drawdown
07:30	-40	9.42	
07:55	-15	9.42	
08:10	0.01	9.42	
09:10	60	30.04	20.62
09:13	63	31.83	22.41
09:20	70	33	23.58
09:25	75	33.48	24.06
09:30	80	33.48	24.06
09:40	90	33.82	24.4
09:50	100	34.02	24.6
10:00	110	34.25	24.83
10:30	140	34.81	25.39
11:00	170	35.21	25.79
11:30	200	35.54	26.12
12:00	230	35.77	26.35
12:30	260	35.83	26.41
13:00	290	35.85	26.43
13:30	320	36	26.58
14:00	350	36.21	26.79
14:30	380	36.25	26.83
15:00	410	36.45	27.03
15:30	440	36.56	27.14
16:00	470	36.69	27.27
16:15	485	36.88	27.46
16:16	1	27.13	9.75
16:17	2	24	12.88
16:18	3	22.65	14.23
16:19	4	21.83	15.05
16:20	5	21.2	15.68
16:21	6	20.75	16.13

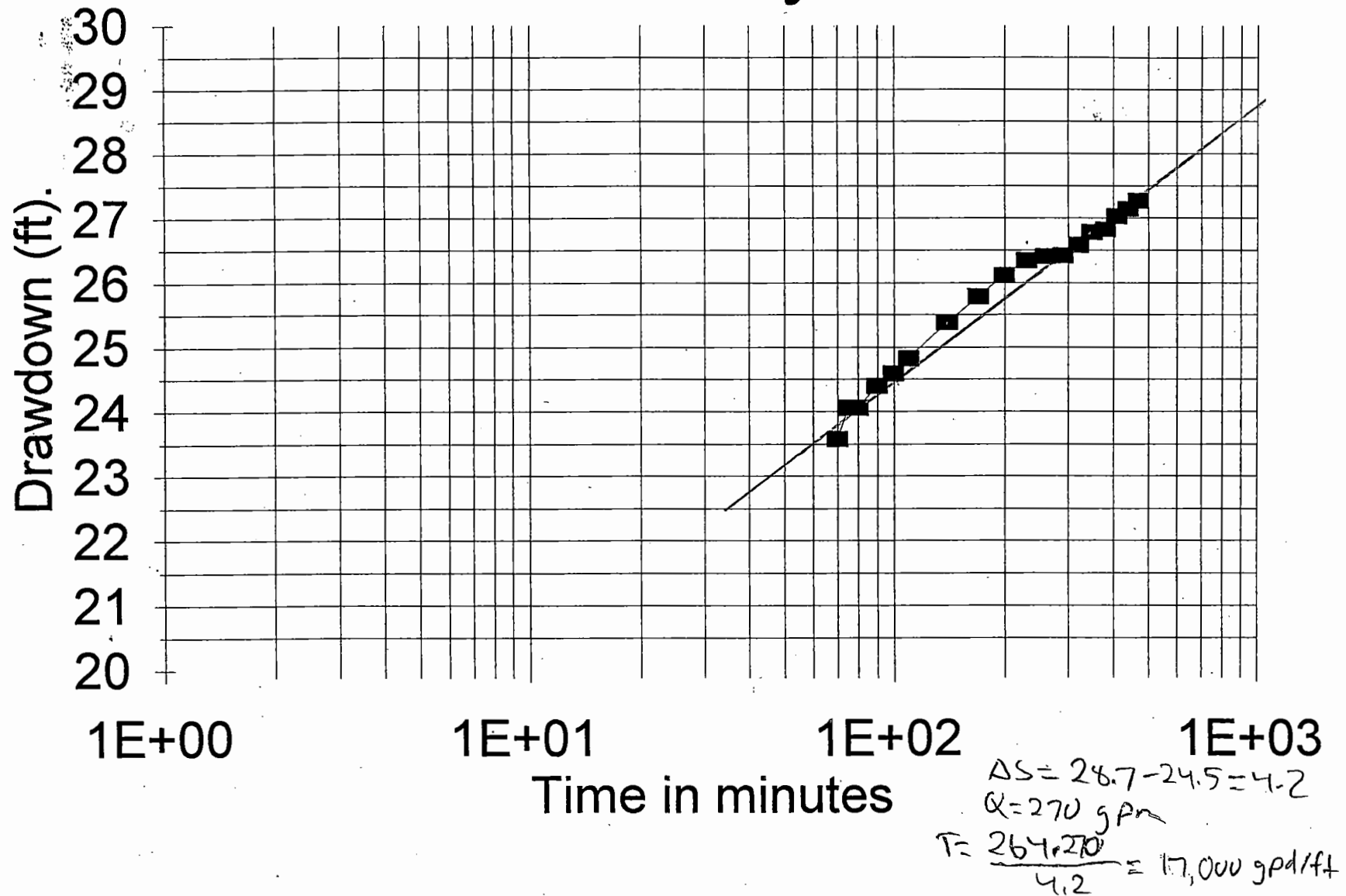
House Well

Time	Elapsed	Depth	Drawdown
07:10	-60	10.23	
07:50	-20	10.23	
08:10	0.01	10.23	
08:12	2	10.46	1.04
08:13	3	10.52	1.1
08:14	4	10.58	1.16
08:15	5	10.7	1.28
08:16	6	10.81	1.39
08:17	7	10.87	1.45
08:18	8	10.98	1.56
08:19	9	11	1.58
08:20	10	11.06	1.64
08:21	11	11.19	1.77
08:22	12	11.23	1.81
08:23	13	11.33	1.91
08:24	14	11.4	1.98
08:25	15	11.46	2.04
08:26	16	11.52	2.1
08:30	20	11.69	2.27
08:35	25	11.98	2.56
08:40	30	12.21	2.79
08:45	35	12.52	3.1
08:50	40	12.56	3.14
08:55	45	12.85	3.43
09:00	50	13.02	3.6
09:05	55	13.29	3.87
09:10	60	13.35	3.93
09:15	65	13.48	4.06
09:20	70	13.63	4.21
09:25	75	13.77	4.35

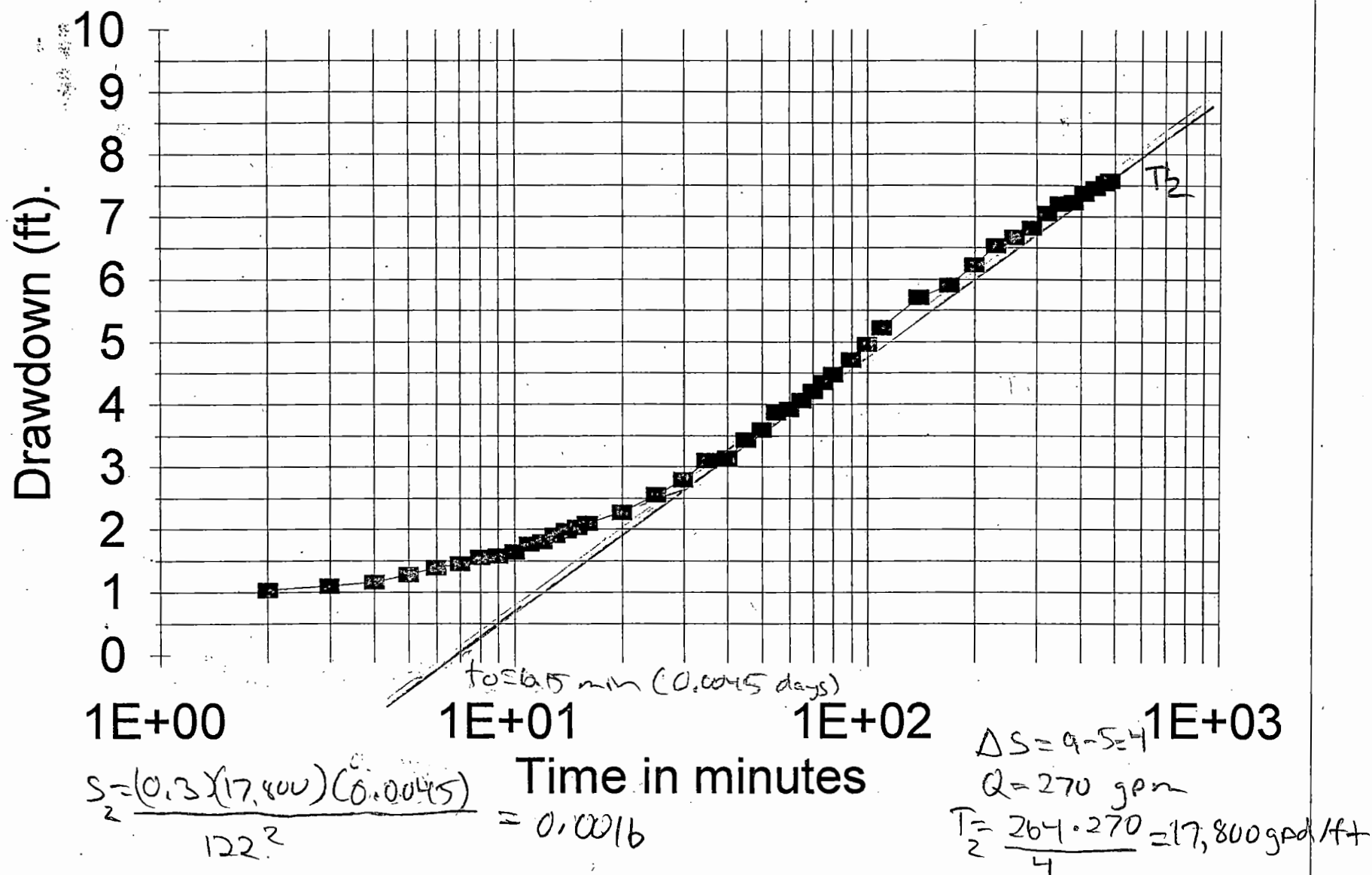
16:22	7	20.23	16.65	09:30	80	13.9	4.48
16:23	8	19.92	16.96	09:40	90	14.13	4.71
16:24	9	19.66	17.22	09:50	100	14.38	4.96
16:25	10	19.4	17.48	10:00	110	14.65	5.23
16:26	11	19.1	17.78	10:30	140	15.13	5.71
16:27	12	18.9	17.98	11:00	170	15.33	5.91
16:28	13	18.68	18.2	11:30	200	15.65	6.23
16:29	14	18.5	18.38	12:00	230	15.96	6.54
16:30	15	18.31	18.57	12:30	260	16.09	6.67
16:35	20	17.73	19.15	13:00	290	16.24	6.82
16:40	25	17.15	19.73	13:30	320	16.48	7.06
16:45	30	16.71	20.17	14:00	350	16.63	7.21
16:50	35	16.33	20.55	14:30	380	16.65	7.23
16:55	40	16.05	20.83	15:00	410	16.79	7.37
17:00	45	15.73	21.15	15:30	440	16.88	7.46
17:05	50	15.5	21.38	16:00	470	16.96	7.54
17:10	55	15.33	21.55	16:15	485	17.01	7.59
17:15	60	15	21.88	16:16	1	16.98	0.03
17:25	70	14.66	22.22	16:17	2	16.79	0.22
17:35	80	14.42	22.46	16:18	3	16.79	0.22
17:45	90	14.15	22.73	16:19	4	16.66	0.35
17:55	100	13.66	23.22	16:20	5	16.52	0.49
18:05	110	13.6	23.28	16:21	6	16.51	0.5
18:15	120	13.35	23.53	16:22	7	16.44	0.57
				16:23	8	16.35	0.66
				16:24	9	16.29	0.72
				16:25	10	16.23	0.78
				16:26	11	16.18	0.83
				16:27	12	16.11	0.9
				16:28	13	16.06	0.95
				16:29	14	15.98	1.03
				16:30	15	15.95	1.06
				16:35	20	15.83	1.18
				16:40	25	15.66	1.35
				16:45	30	15.46	1.55
				16:50	35	15.32	1.69
				16:55	40	15.13	1.88
				17:00	45	15	2.01
				17:05	50	14.84	2.17
				17:10	55	14.8	2.21
				17:15	60	14.66	2.35

17:25	70	14.46	2.55
17:35	80	14.23	2.78
17:45	90	14	3.01
17:55	100	13.82	3.19
18:05	110	13.71	3.3
18:15	120	13.61	3.4

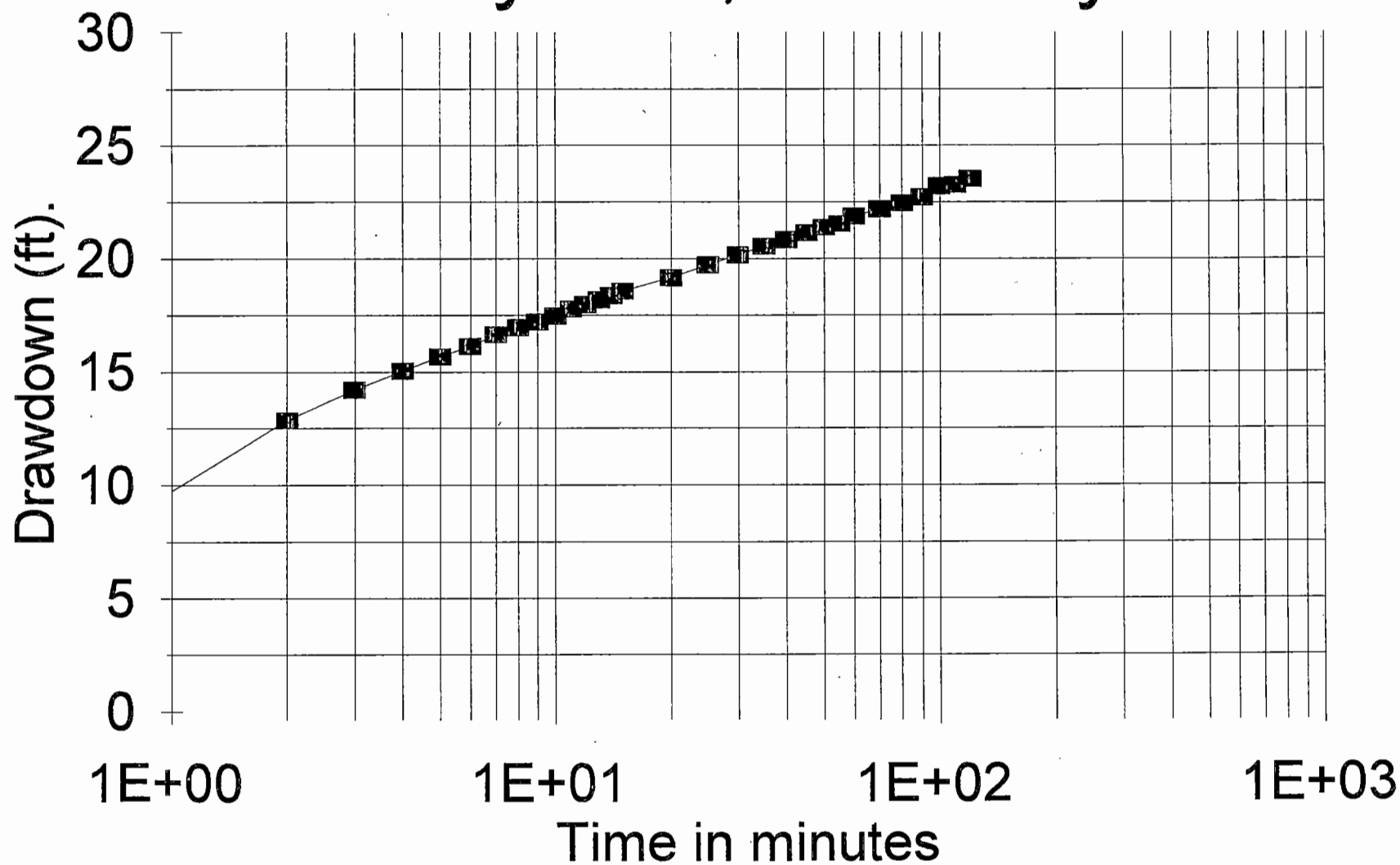
Liddell Nursery Well



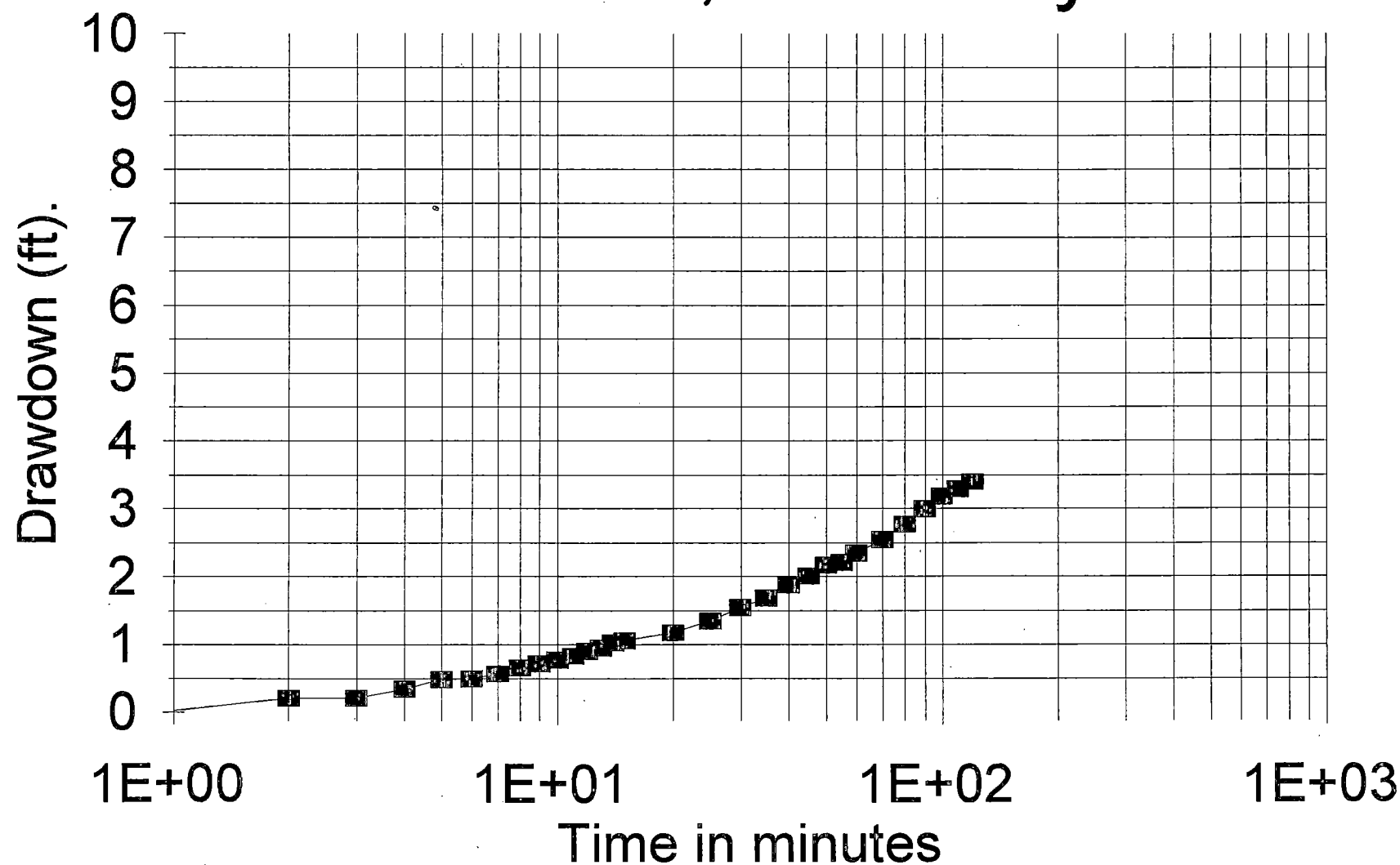
Liddell House Well



Liddell Nursery Well, Recovery Phase



Liddell House Well, Recovery Phase





Coastal
The Energy People

Enclosure 12

June 7, 1996

Mr. Paul Liddell
Happy Hollow Nursery
31612 Pittsburg Rd.
St. Helens, OR
97051

RE: Water testing-irrigation well & Milton creek

Dear Mr. Liddell,

On the afternoon of June 2, 1996 the Columbia County Extension Agent, Chip Bubl, assisted me in sampling your primary irrigation well located along the west side of your drive way about one half the distance from Pittsburg road and your home. We also sampled Milton Creek at the northern end of your bridge.

The pH meter was calibrated at 7.0 and 4.0 just prior to sampling.

The conductivity meter was calibrated at 100 and 1000 micromhos/cm just prior to sampling.

Irrigation well:

The well had been used during the morning for irrigation. The well was pumped for about 5 minutes before sampling. Conductivity readings were taken until a constant reading was maintained. The conductivity, pH and temperature was then taken and recorded.

Time: 1500 hr.

Conductivity = 230 micromhos

pH #1 = 6.15 @ 13.1 degrees C.

#2 = 6.30 @ 12.2 degrees C.

A water sample was taken in a clean 500 ml plastic bottle for iron analysis at the laboratory. The sample was refrigerated until the test was run on June 3, 1996.

Iron = 6 ppm

Milton Creek:

Conductivity readings were taken. They ranged from 44 to 49 micromhos.

Time: 1520 hr.

Conductivity = 49 micromhos

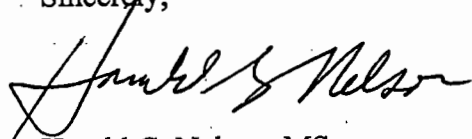
pH = 5.5 @ 15.5 degrees C.

A water sample was taken in a clean 500 ml plastic bottle for iron analysis at the laboratory. The sample was refrigerated until the test was run on June 3, 1996.

Iron = less than 1 ppm

If you need further information, please call me at 503-397-7502.

Sincerely,

A handwritten signature in cursive script, appearing to read "Harold G. Nelson".

Harold G. Nelson, MS
Environmental Engineer