

G-12177

Mailing List for Final Certificate

Application: G-12177

Permit: G-12561

Certificate: 97159

Permit/Certificate Holder:

THOMAS G. STRAND
18880 NW LONE PINE LANE
TERREBONNE OR 97760

Is the Permit Holder(s) of record currently identified as a landowner of any tax lots involved as confirmed by the County records? **NO**

Copies of Proposed Certificate to be sent to:

1. Watermaster District #: 11
2. File
3. Vault

Other persons to receive copies: (include map):

4. William Tye, CWRE
5. **Current Landowner**
Four Lazy F Ranch LLC
18880 NW Lone Pine Lane
Terrebonne OR 97760

Copies Mailed	
by:	<u>KMWF</u>
	(STAFF)
on:	<u>JUL 07 2023</u>
	(DATE)

Map #187
folder E

STATE OF OREGON

COUNTY OF CROOK

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

THOMAS G STRAND
18880 NW LONE PINE LANE
TERREBONNE OR 97760

confirms the right to the use of water perfected under the terms of Permit G-12561. The amount of water used to which this right is entitled is limited to the amount used beneficially, and shall not exceed the amount specified, or its equivalent in the case of rotation, measured at the point of diversion from the source. The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-12177

SOURCE OF WATER: TWO WELLS WITHIN THE CROOKED RIVER BASIN

PURPOSE or USE: IRRIGATION OF 69.4 ACRES AND SUPPLEMENTAL IRRIGATION OF 23.1 ACRES

VOLUME OF USE: 1.16 CUBIC FEET PER SECOND (CFS); BEING 0.85 CFS FROM WELL 1 AND 0.31 CFS FROM WELL 2

PERIOD OF USE: MARCH 1 THROUGH OCTOBER 31

DATE OF PRIORITY: JULY 16, 1990

The wells are located as follows:

Twp	Rng	Mer	Sec	Q-Q	Measured Distances
14 S	14 E	WM	8	NW SW	WELL 1 - 1348 FEET NORTH AND 33 FEET EAST FROM SW CORNER, SECTION 8
14 S	14 E	WM	8	SW NW	WELL 2 - 3116 FEET NORTH AND 267 FEET EAST FROM SW CORNER, SECTION 8

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 3.0 acre-feet per acre for each acre irrigated during the irrigation season of each year.

The place of use is located as follows:

IRRIGATION					
Twp	Rng	Mer	Sec	Q-Q	Acres
14 S	14 E	WM	5	SE NW	21.6
14 S	14 E	WM	5	NE SW	2.9

NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW

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

IRRIGATION					
Twp	Rng	Mer	Sec	Q-Q	Acres
14 S	14 E	WM	5	SW SW	24.8
14 S	14 E	WM	5	SW SW	5.0
14 S	14 E	WM	5	SE SW	8.6
14 S	14 E	WM	8	NW NW	0.9
14 S	14 E	WM	8	SW NW	5.6

SUPPLEMENTAL IRRIGATION					
Twp	Rng	Mer	Sec	Q-Q	Acres
14 S	14 E	WM	5	NE SW	10.0
14 S	14 E	WM	5	NE SW	13.1

Measurement, recording and reporting conditions:

- A. The water user shall maintain the meter or other suitable measuring device as approved by the Director in good working order.
- B. The water user shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.
- C. The Director may require the water user to keep and maintain a record of the amount (volume) of water used and may require the water user to report water use on a periodic schedule as established by the Director. In addition, the Director may require the water user to report general water use information, the periods of water use and the place and nature of use of water under the right. The Director may provide an opportunity for the water user 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 right, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

Use of water under authority of this right may be regulated if analysis of data available after the right is issued discloses that the appropriation 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 in effect as of the priority date of the right or as those quantities may be subsequently reduced.

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

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

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

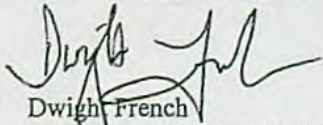
This right is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

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

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

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

Issued JUL 07 2023



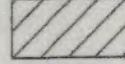
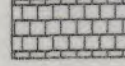
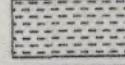

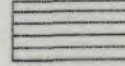



Dwight French
Water Right Services Division Administrator, for
Douglas E. Woodcock, Acting Director
Oregon Water Resources Department

FINAL PROOF MAP

(PERMIT# G-12561)
(APPLICATION # G-12177)
FOR THOMAS STRAND
TAX LOTS 300 & 400

LOCATED IN SECTION 5 AND SECTION 8, TOWNSHIP 14 SOUTH, RANGE
14 EAST, OF THE WILLAMETTE MERIDIAN, CROOK COUNTY, OREGON

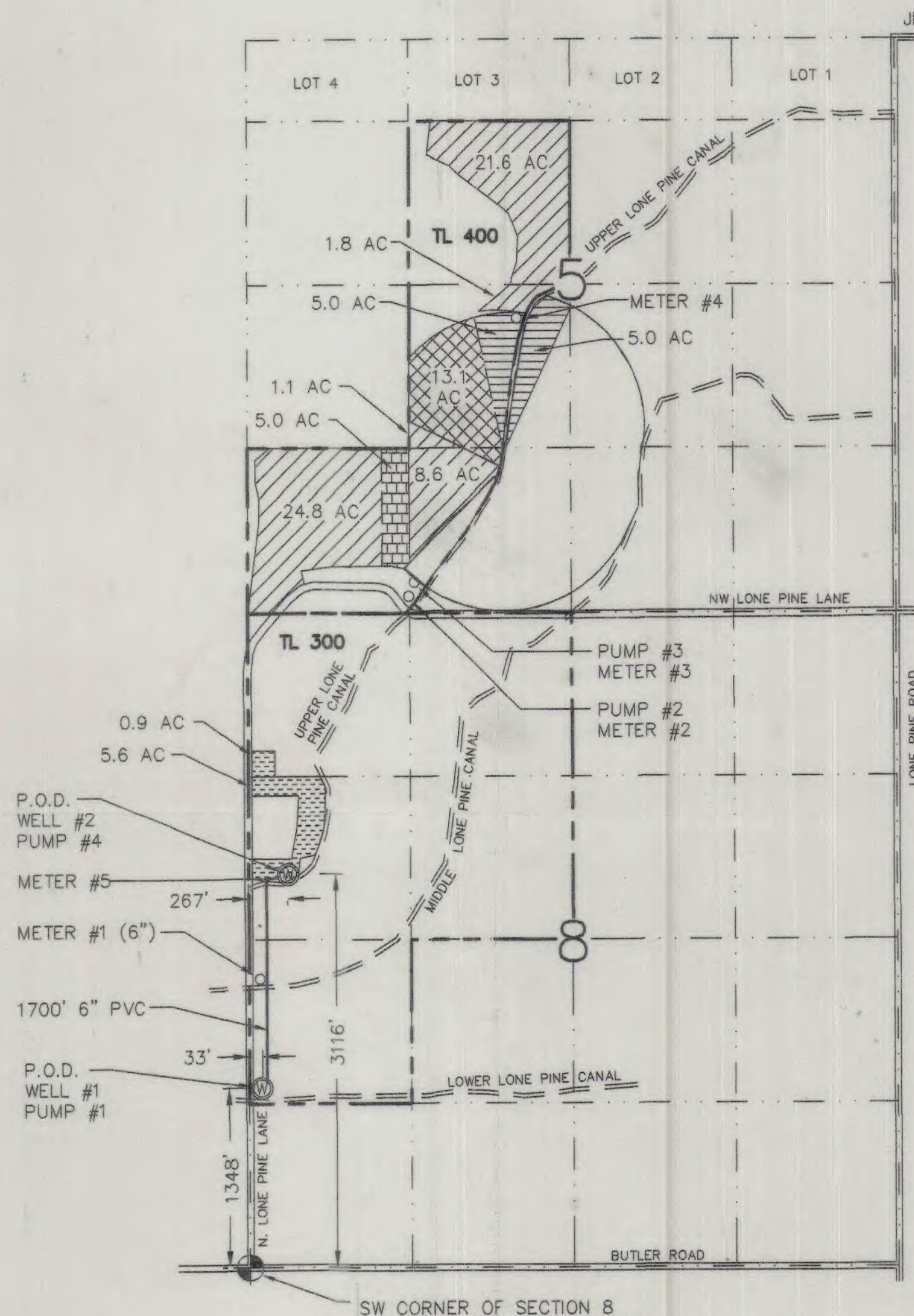
LEGEND

-  PRIMARY IRRIGATION 57.9 AC
-  PRIMARY WELL NO. 2 - 5.0 AC
-  PRIMARY WELL NO. 2 - 6.5 AC
PREVIOUS CERTIFICATE G-12561
-  TOTAL PRIMARY 69.4 AC
-  WELL NO. 1 SUPPLEMENTAL IRRIGATION 10.0 AC
-  WELL NO. 2 - SUPPLEMENTAL IRRIGATION 13.1 AC
-  WELL
-  SECTION CORNER

RECEIVED

SEP 29 2005

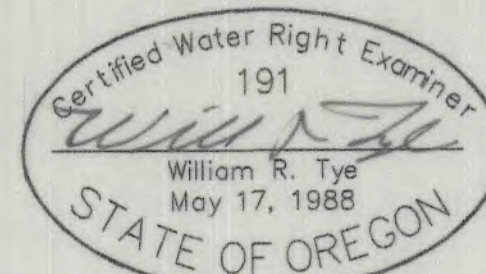
WATER RESOURCES DEPT
SALEM OREGON



SCALE: 1"=1000'

I, William R. Tye, Certified Water Right Examiner
in the State of Oregon, hereby certify the above
final proof map was prepared under my direct
supervision.

The preparation of this map is for the purpose
of identifying the location of the water right only
and has no intent to provide dimensions or locations
of property ownership lines.



RENEWAL: JUNE 30, 2006

COBU MAP #0187

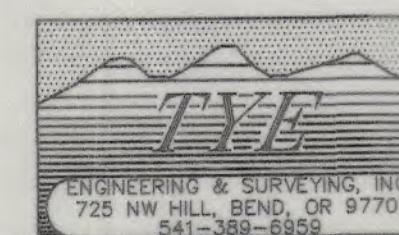
WELL NO.1 - PRIMARY						
PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
1	30	SUBMERSIBLE	380	1	62.9	W 1/2 SECTION 5
2	20	CENTRIFUGAL	140-160	2	24.8	SW 1/4 SW 1/4 SECTION 5
3	30	CENTRIFUGAL	520-620	3	8.6	SE 1/4 SW 1/4 SECTION 5
3				3	1.1	NE 1/4 SW 1/4 SECTION 5
3				4	1.8	NE 1/4 SW 1/4 SECTION 5
3				4	21.6	SE 1/4 NW 1/4 SECTION 5
TOTAL					57.9	

WELL NO.1 SUPPLEMENTAL			
PUMP #		IRRIGATION ACRES	LOCATION
3		10	SE 1/4 SW 1/4 SECTION 5
TOTAL		67.9	

WELL NO. 2 - PRIMARY						
PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
4	15	SUBMERSIBLE	160	5	0.9 *	NW 1/4 NW 1/4 SECTION 8
4				5	5.6 *	SW 1/4 NW 1/4 SECTION 8
3					5.0	SW 1/4 SW 1/4 SECTION 5
TOTAL					11.5	

WELL NO.2 SUPPLEMENTAL						
PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
4				5	13.1	SE 1/4 NW 1/4 SECTION 8
TOTAL					24.6	

* PREVIOUS CERTIFICATE



TITLE: FINAL PROOF MAP
JOB NO: 703-22 TOM STRAND
SCALE: 1"=1000' BY: JLC
FIELD BOOK: DATE: 9-27-05
DWG: 703-22-8-18-05 SHEET: 1 OF 1

0187

Mailing List for Proposed Certificate

Application: G-12177

Permit: G-12561

Certificate:

Permit/Certificate Holder:

THOMAS G. STRAND
18880 NW LONE PINE LANE
TERREBONNE OR 97760

Is the Permit Holder(s) of record currently identified as a landowner of any tax lots involved as confirmed by the County records? NO

Copies of Proposed Certificate to be sent to:

1. Watermaster District #: 11
2. File

Other persons to receive copies: (include map):

3. William Tye, CWRE
4. **Current Landowner**
Four Lazy F Ranch LLC
18880 NW Lone Pine Lane
Terrebonne OR 97760

Copies Mailed	
by:	<u>KMWF</u>
	(STAFF)
on:	<u>MAR 10 2023</u>
	(DATE)



Oregon

Tina Kotek, Governor

Water Resources Department

725 Summer St NE, Suite A

Salem, OR 97301

(503) 986-0900

www.oregon.gov/owrd

Date Mailed:

MAR 10 2023

Reference: Application G-12177 Permit G-12561

PROPOSED

Enclosed is a proposed certificate of water right and map. The map and proposed certificate represent the extent water was used within the terms of the permit based upon Claims of Beneficial Use, prepared by a Certified Water Right Examiner, that either you or a previous permit holder submitted.

The certificate is the final step in the water right process. The Department encourages you to review these proposals. If you do not agree with the proposed certificate, Oregon Administrative Rule 690-330-010 (2) allows the permittee or landowner 60 days from the mailing date of this notice to request the Department to reconsider the contents of the proposed certificate.

If you agree with the proposed certificate, no response to this notice is required. Sometime after comment period, the recorded certificate of water right will be mailed to the permit holder of record.

If your name is not listed on the proposed certificate, and you are the current landowner, and would like to have the final certificate issued in your name, you may apply through the Department to have the permit assigned to you. If you have any questions about the assignment process, please contact Mary Bjork at 503-979-9895.

If you have any questions please contact Jonnine Skaug 503-979-3943.

Sincerely,

Dwight French
Administrator
Water Right Services

STATE OF OREGON
COUNTY OF CROOK
CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

THOMAS G STRAND
18880 NW LONE PINE LANE
TERREBONNE OR 97760

confirms the right to the use of water perfected under the terms of Permit G-12561. The amount of water used to which this right is entitled is limited to the amount used beneficially, and shall not exceed the amount specified, or its equivalent in the case of rotation, measured at the point of diversion from the source. The specific limits and conditions of the use are listed below.

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14 S	14 E	WM	8	NW NW	0.9
14 S	14 E	WM	8	SW NW	5.6

SUPPLEMENTAL IRRIGATION					
Twp	Rng	Mer	Sec	Q-Q	Acres
14 S	14 E	WM	5	NE SW	10.0
14 S	14 E	WM	5	NE SW	13.1

Measurement, recording and reporting conditions:

- A. The water user shall maintain the meter or other suitable measuring device as approved by the Director in good working order.
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The use of water shall be limited when it interferes with any prior surface or ground water rights.

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

Issued _____

PROPOSED

Water Right Services Division Administrator, for
Douglas E. Woodcock, Acting Director
Oregon Water Resources Department

PROPOSED
Certificate *****

2005
List

G

MEMO - Proof to Satisfaction

Application #	9-12177	Permit #	G-12561	Transfer #	
WRD Reviewer	J Skana	Date	Jan 2022		
WRD Peer Reviewer	M. [signature]	Date	2/9/2023		

Research

- ☒ Organize file in chronological order
- ☒ Pull CBU Report & Map(s), Application Map, relevant Permit, Certificate, or Transfer Order, most recent Assignments, Extension Orders, SWL Measurements, Fish Screen Certification Documents, Water Use Reports & Pump Tests
- ☒ Search for Water Right Location using Interactive Mapper. Identify Tax Lots & check for Area of Interest (AOI)
- ☒ Water Organization identified using AOI? ☒ No ☐ Yes
 - If "Yes" cc: _____ & Add to Mailing List
- ☐ Print Tax Lot Map from ormap.net for the original Place of Use, and confirm Current Ownership & Address with County Assessor **tax lot 400: 300**
- ☒ If there is a new owner, Add to Mailing List, including the owner(s) name & tax lot number
- ☐ Print Platcard & check for Place of Use Conflict? ☒ No ☐ Yes
 - If "Yes", provide copy of certificate & relevant map
- ☒ Print BLM Cadastral Survey
- ☒ Does Claim Map identify correct DLC, Gov't Lots, QQ's? ☐ No ☒ Yes
 - If "No", either _____ WRD amend map OR _____ prepare Order of Certification

Reviewing Claim

Have conditions on relevant permit, certificate, or transfer order been complied with? Yes, No, OR N/A

- ☐ Fish Conditions
- ☒ Meter/measuring device **Sept 1998**
- ☐ Water Use Reporting
- ☒ Pump Test (post December 19, 1988) - **approved = 9/2008 - 5-2017**
- ☐ Other Conditions _____
- ☐ SWL
- ☒ C-Date **10/1/1999 ext c date = 10/1/2004 (claim is vague - we recovered But report was done 9/2004 2005)**
- ☒ Run Capacity Calculator and Print Findings (for pump, sprinklers, pipes, ditches, as appropriate)

NOTES:

1) William Tye, owner

2) Current owner: tax lots 300-400

Four Lazy F Ranch LLC

18880 NW Lone Pine Ln

Terrebonne OR 97760

3) Current landowner: tax lot 300

Fehrenbacher Revocable Trust

Real Fehrenbacher, trustee: Nancy Fehrenbacher,

7025 NW Lone Pine Ln, Terrebonne OR 97760

No section
Wrong owner is
this section
going prosed
(some changed to
supp)
Trustee

Determination

☐ I've determined that the permit/transfer was fully developed as authorized and that a FINAL Certificate should be issued.

☒ I've determined that the permit/transfer was not fully developed as authorized and that a PROPOSED Certificate should be issued. A proposed Certificate should be issued for the following reason(s):

Claiming Supp IR - well #1 - 0.85 cfs 67.9 ac @ 1/80 = 0.85 cfs
well #2 - 0.31 cfs 24.6 ac @ 1/80 = 0.31 cfs

☐ I've determined that beneficial use was NOT made within the terms and conditions and that a Proposed Order of Certification (denial) should be issued. A proposed Order of Certification should be issued for the following reason(s):

Processing

☐ Stamp PROPOSED or Assign CERT# _____ or ORDER OF CERTIFICATION (circle one)

☐ Draft Certificates or Proposed Order of Certifications are available in the Application directory.

☐ Prepare Mailing List. Include Applicant(s); Receiving Landowner(s); Current Owner(s); Water Organizations; CWRE. Indicate records to be marked.

Record marking: App _____	Permit _____	Cert _____
App _____	Permit _____	Cert _____
App _____	Permit _____	Cert _____
App _____	Permit _____	Cert _____

NOTES:

Well 1
→ Pump 1 Sub 30 HP 80 psi 320' = 380 gpm = 0.85 cfs
Pump 2 Cent 30 HP 60 psi 50' = 160 gpm = 0.36 cfs
Pump 3 Cent 20 HP 60 psi 10' = 650 gpm = 1.45 cfs
Well 2
→ Pump 4 Sub 15 HP 60 psi 30' = 160 gpm = 0.36 cfs
claim just says Well 2 = 140 gpm = 0.31 cfs
1.21 cfs

5/32" 40 psi 80' = 320 gpm = 0.71 cfs

? Something else but little info on that

FINAL PROOF MAP

(PERMIT# G-12561)
(APPLICATION # G-12177)
FOR THOMAS STRAND
TAX LOTS 300 & 400

LOCATED IN SECTION 5 AND SECTION 8, TOWNSHIP 14 SOUTH, RANGE
14 EAST, OF THE WILLAMETTE MERIDIAN, CROOK COUNTY, OREGON

COPY
COBU MAP
0187

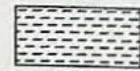
LEGEND



PRIMARY IRRIGATION 57.9 AC



PRIMARY WELL NO. 2 - 5.0 AC



PRIMARY WELL NO. 2 - 6.5 AC
PREVIOUS CERTIFICATE G-12561

TOTAL PRIMARY 69.4 AC

← Never certificated!



WELL NO. 1 SUPPLEMENTAL IRRIGATION 10.0 AC



WELL NO. 2 - SUPPLEMENTAL IRRIGATION 13.1 AC



WELL



SECTION CORNER

RECEIVED

SEP 29 2005

WATER RESOURCES DEPT
SALEM, OREGON

Permit G-12561
Allows:

• Total of 92.5 AC
of Irrigation

• 1.16 cfs

T. 14S, R. 14E

Sec 5: SENW - 20.0

NESW - 23.5

SWSW - 28.5

SESW - 14.0

Sec. 8: NWNW - 0.5

SWNW - 6.0

total: 92.5 AC

WELL NO.1 - PRIMARY

PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
1	30	SUBMERSIBLE	380	1	62.9	W 1/2 SECTION 5
2	20	CENTRIFUGAL	140-160	2	24.8	SW 1/4 SW 1/4 SECTION 5
3	30	CENTRIFUGAL	520-620	3	8.6	SE 1/4 SW 1/4 SECTION 5
3				3	1.1	NE 1/4 SW 1/4 SECTION 5
3				4	1.8	NE 1/4 SW 1/4 SECTION 5
3				4	21.6	SE 1/4 NW 1/4 SECTION 5
TOTAL					57.9	

WELL NO.1 SUPPLEMENTAL

PUMP #	IRRIGATION ACRES	LOCATION
3	10	SE 1/4 SW 1/4 SECTION 5
TOTAL		67.9

WELL NO. 2 - PRIMARY

PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
4	15	SUBMERSIBLE	160	5	0.9 *	NW 1/4 NW 1/4 SECTION 8
4				5	5.6 *	SW 1/4 NW 1/4 SECTION 8
3					5.0	SW 1/4 SW 1/4 SECTION 5
TOTAL					11.5	

WELL NO.2 SUPPLEMENTAL

PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
4				5	13.1	SE 1/4 NW 1/4 SECTION 8
TOTAL					24.6	

67.9 AC

+ 24.6 AC

92.5 AC total

#0187

* PREVIOUS CERTIFICATE
Proposed ↑
(Never issued).



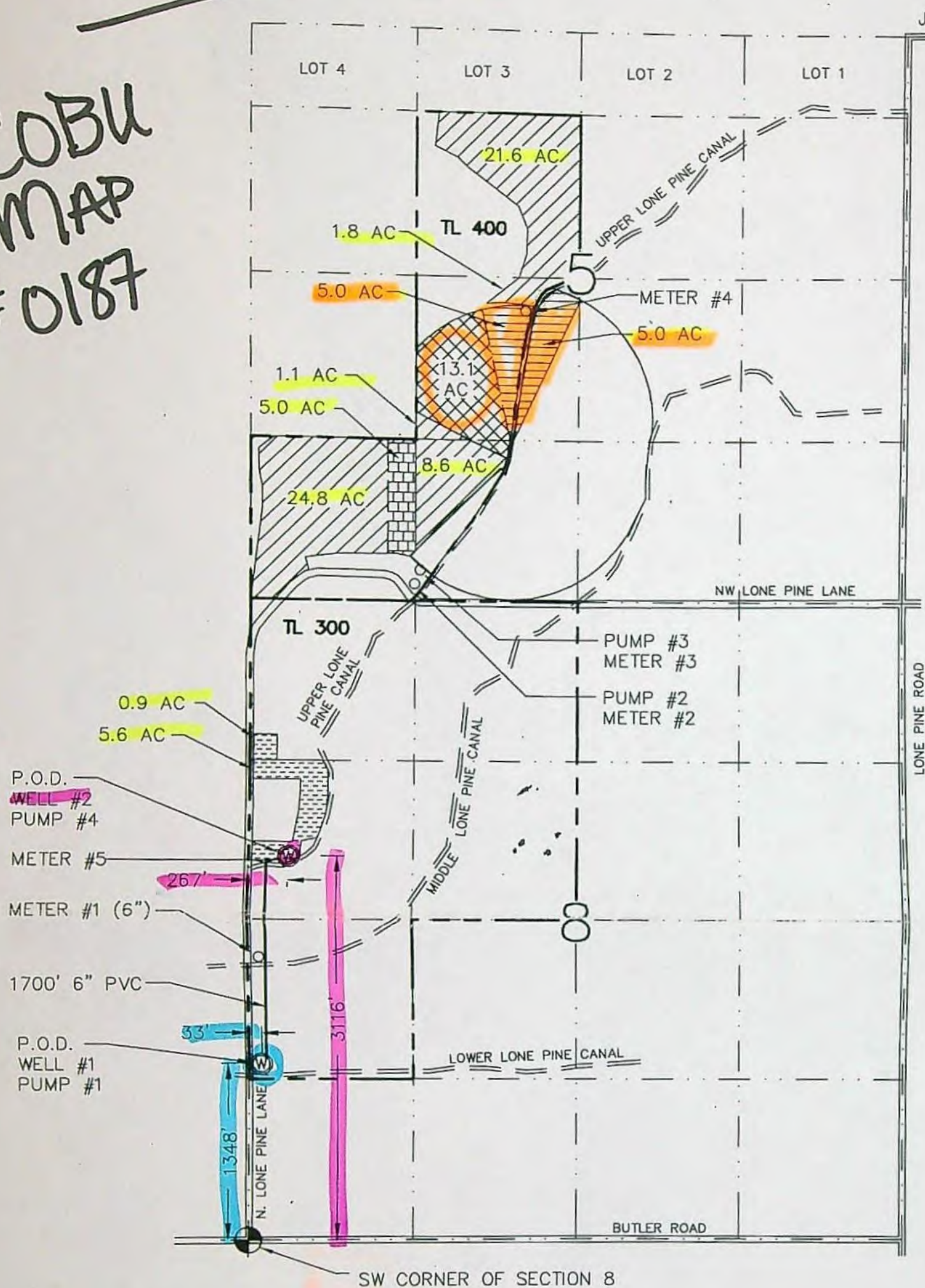
TITLE: FINAL PROOF MAP
JOB NO: 703-22 TOM STRAND
SCALE: 1"=1000' BY: JLC
FIELD BOOK: DATE: 9-27-05
DWG: 703-22-8-18-05 SHEET: 1 OF 1

L. JARAMILLO
4-14-06

COPY

Appl # G-12177 (Permit # G-12561)

COBU
MAP
0187



JEFFERSON COUNTY
CROOK COUNTY

← Acreage
shown here
matches
listing on
COBU for
Permit
G-12561.

SCALE: 1"=1000'

I, William R. Tye, Certified Water Right Examiner
in the State of Oregon, hereby certify the above
final proof map was prepared under my direct
supervision.

The preparation of this map is for the purpose
of identifying the location of the water right only
and has no intent to provide dimensions or locations
of property ownership lines.



RENEWAL: JUNE 30, 2006

COBU MA

L. JARAMILLO
4-14-06

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(PERMIT# G-12561)
(APPLICATION # G-12177)
FOR THOMAS STRAND
TAX LOTS 300 & 400

LOCATED IN SECTION 5 AND SECTION 8, TOWNSHIP 14 SOUTH, RANGE
14 EAST, OF THE WILLAMETTE MERIDIAN, CROOK COUNTY, OREGON

COPY
COBU MAP
0187

LEGEND



PRIMARY IRRIGATION 57.9 AC



PRIMARY WELL NO. 2 - 5.0 AC



PRIMARY WELL NO. 2 - 6.5 AC
PREVIOUS CERTIFICATE G-12561

← Never certificated!

TOTAL PRIMARY 69.4 AC



WELL NO. 1 SUPPLEMENTAL IRRIGATION 10.0 AC



WELL NO. 2 - SUPPLEMENTAL IRRIGATION 13.1 AC



WELL



SECTION CORNER

RECEIVED

SEP 29 2005

WATER RESOURCES DEPT
SALEM, OREGON

Permit G-12561
Allows:

• Total of 92.5 AC
of Irrigation

• 1.16 cfs

T. 14s, R. 14E

Sec 5: SENW - 20.9
NESW - 23.5
SWSW - 28.5
SESW - 14.0

Sec. 8: NWNW - 0.5
SWNW - 6.0

total: 92.5 AC

WELL NO.1 - PRIMARY

PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
1	30	SUBMERSIBLE	380	1	62.9	W 1/2 SECTION 5
2	20	CENTRIFUGAL	140-160	2	24.8	SW 1/4 SW 1/4 SECTION 5
3	30	CENTRIFUGAL	520-620	3	8.6	SE 1/4 SW 1/4 SECTION 5
3				3	1.1	NE 1/4 SW 1/4 SECTION 5
3				4	1.8	NE 1/4 SW 1/4 SECTION 5
3				4	21.6	SE 1/4 NW 1/4 SECTION 5
TOTAL					57.9	

WELL NO.1 SUPPLEMENTAL

PUMP #	IRRIGATION ACRES	LOCATION
3	10	SE 1/4 SW 1/4 SECTION 5
TOTAL		67.9

WELL NO. 2 - PRIMARY

PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
4	15	SUBMERSIBLE	160	5	0.9 *	NW 1/4 NW 1/4 SECTION 8
4				5	5.6 *	SW 1/4 NW 1/4 SECTION 8
3					5.0	SW 1/4 SW 1/4 SECTION 5
TOTAL					11.5	

WELL NO.2 SUPPLEMENTAL

PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
4				5	13.1	SE 1/4 NW 1/4 SECTION 8
TOTAL					24.6	

67.9 AC ←

+ 24.6 AC ←

92.5 AC total

#0187

* PREVIOUS CERTIFICATE
Proposed ↑
(Never issued).



TITLE: FINAL PROOF MAP
JOB NO: 703-22 TOM STRAND
SCALE: 1"=1000' BY: JLC
FIELD BOOK: DATE: 9-27-05
DWG: 703-22-8-18-05 SHEET: 1 OF 1

L. JARAMILLO
4-14-06



Crook County Ownership Report

REAL PROPERTY ACCOUNT NAMES

Account Number: 395

Map Tax Lot: 14140800-00300-395

Owner: 18880 NW LONE PINE LN
TERREBONNE

OR 97760-
9156

Party Name	Party Type	Ownership Percentage
FOUR LAZY F RANCH LLC	OWNER	100.00
FOUR LAZY F RANCH LLC	Taxpayer	100.00



Crook County Ownership Report

REAL PROPERTY ACCOUNT NAMES

Account Number: 18914

Map Tax Lot: 14140800-00301-18914

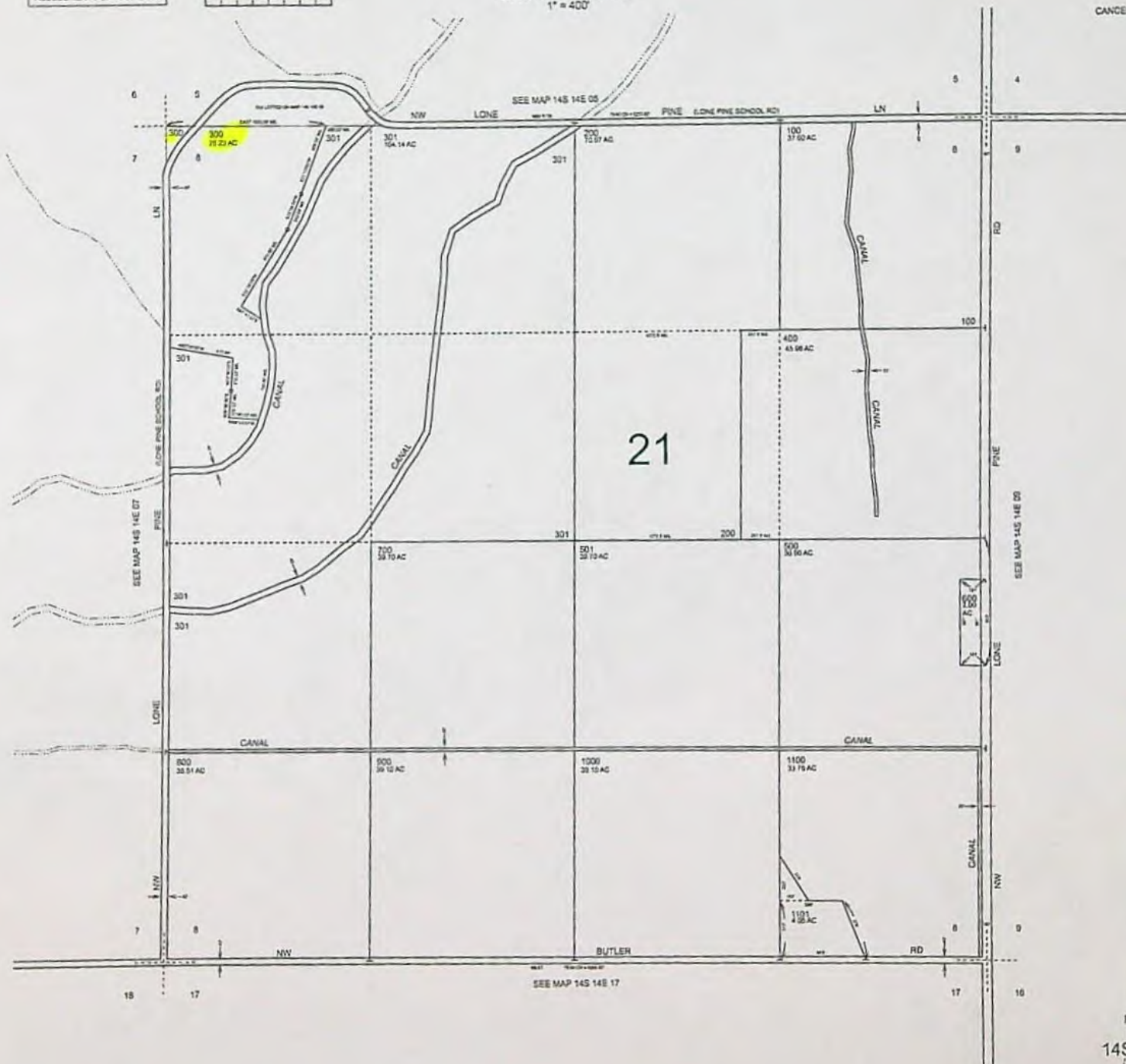
Owner: 18880 NW LONE PINE LN
TERREBONNE

OR 97760

Party Name	Party Type	Ownership Percentage
FOUR LAZY F RANCH LLC	OWNER	100.00
FOUR LAZY F RANCH LLC	Taxpayer	100.00

1" = 400'

CANCELLED:



Revised: JK
4/28/2010
14S14E08



Crook County Ownership Report

REAL PROPERTY ACCOUNT NAMES

Account Number: 378

Map Tax Lot: 14140500-00400-378

Owner: 18880 NW LONE PINE LN
TERREBONNE

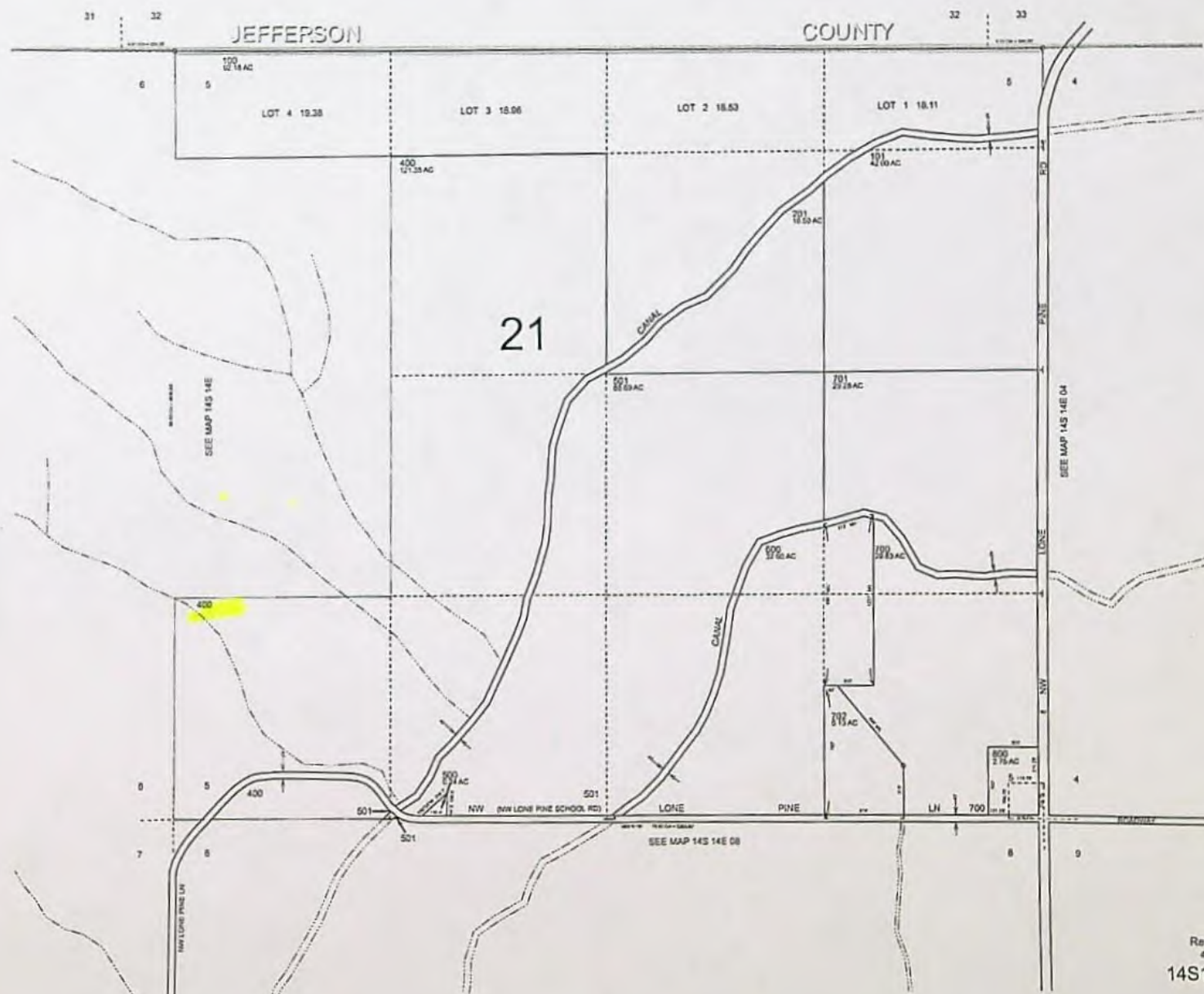
OR 97760-
9156

Party Name	Party Type	Ownership Percentage
FOUR LAZY F RANCH LLC	OWNER	100.00
FOUR LAZY F RANCH LLC	Taxpayer	100.00

Same 2/9/2023
JC

$1^\circ = 400$

CANCELLED:
200
300



Revised: JK
4/28/2010
14S14E05



Oregon

Kate Brown, Governor

Water Resources Department

North Mall Office Building

725 Summer St NE, Suite A

Salem, OR 97301

Phone (503) 986-0900

Fax (503) 986-0904

www.wrd.state.or.us

February 23, 2016

Northwest Farm Credit Services
P.O. Box 607
Redmond, Oregon 97756

Reference: Application G-12177, Permit G-12561

The assignment from Northwest Farm Credit Services, ACA to **Thomas G. Strand** has been recorded in the records of the Water Resources Department.

The Departments records will now show Thomas G. Strand as the permit holder of record.

Our records have been changed accordingly and the original request is enclosed. Receipt number 118912 covering the recording fee is also enclosed.

A permit is not a perfected water right, and has conditions and timelines that must be satisfied prior to a Certificate of Water Right being issued. Please review the permit to be familiar with the conditions and timelines contained in the permit.

Sincerely,

Jerry Sauter
Water Rights Program Analyst
Water Right Services Division

Enclosure: Receipt 118912

cc: Watermaster 11
Thomas G. Strand
Data Center, OWRD (cover letter & request)
Hydrographics
File

STATE OF OREGON

COUNTY OF CROOK

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

THOMAS G STRAND
RT 1 BOX 53
TERREBONNE, OREGON 97760

(541) 548-5747

~~NORTHWEST FARM CREDIT SERVICES, ACA~~
~~PO BOX 607~~
~~REDMOND, OREGON 97756~~

*Removed
by assignment*

(541) 548-2126

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

APPLICATION FILE NUMBER: G-12177

SOURCE OF WATER: TWO WELLS WITHIN THE CROOKED RIVER BASIN

PURPOSE OR USE: IRRIGATION OF 92.5 ACRES

23.1 Supp

VOLUME OF USE: 1.16 CUBIC FOOT PER SECOND

*being 0.85 cfs from well 1
1
0.36 cfs from well 2*

PERIOD OF USE: MARCH 1 THROUGH OCTOBER 31

DATE OF PRIORITY: JULY 16, 1990

POINT OF DIVERSION LOCATION: SW 1/4 NW 1/4, NW 1/4 SW 1/4, SECTION 8, T14S, R14E, W.M.; WELL 1 - 1348 FEET NORTH AND 33 FEET EAST; WELL 2 - 3116 FEET NORTH AND 267 FEET EAST, BOTH FROM THE SW CORNER OF SECTION 8

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 3.0 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SE 1/4 NW 1/4 20.0 ACRES
NE 1/4 SW 1/4 23.5 ACRES
SW 1/4 SW 1/4 28.5 ACRES
SE 1/4 SW 1/4 14.0 ACRES

SECTION 5

NW 1/4 NW 1/4 0.5 ACRE
SW 1/4 NW 1/4 6.0 ACRES

SECTION 8

TOWNSHIP 14 SOUTH, RANGE 14 EAST, W.M.

*21.6
22.9
29.8
8.6*

*Supp
ncsw 23.1*

Application G-12177 Water Resources Department

PERMIT G-12561

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.

Use of water under authority of this permit may be regulated if analysis of data available after the permit is issued discloses that the appropriation 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 in effect as of the priority date of the right or as those quantities may be subsequently reduced.

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.

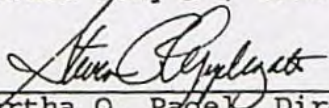
The use of water shall be limited when it interferes with any prior surface or ground water rights.

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 wells 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 July 8, 1996

BC 24


for Martha O. Page, Director
Water Resources Department

Pump Capacity Calculator

using Department designed formula:

well 1

$(hp)(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$

Efficiency:

Centrifugal = 6.61

Turbine = 7.04

Data Entry (fill in underlined blanks)

HP = 30
Efficiency = 7.04
Lift = 320
PSI = 0

Results Calculated

$(hp)(\text{efficiency}) = 211.2$
Head based on psi = 0.0
Total dynamic head = 320.0
(head + lift)

Pump Capacity = 0.660 cubic feet per second

Pump Capacity Calculator
using Department designed formula:

well 2

$(hp)(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$

Efficiency:

Centrifugal = 6.61

Turbine = 7.04

Data Entry (fill in underlined blanks)

HP = 15
Efficiency = 7.04
Lift = 300
PSI = 60

Results Calculated

$(hp)(\text{efficiency}) = 105.6$
Head based on psi = 152.4
Total dynamic head = 452.4
(head + lift)

Pump Capacity = 0.233 cubic feet per second

Sprinkler Capacity Calculator

Data Entry (fill in underlined blanks)

Sprinkler group 1 Nozzle size = 5/32 inch (type an apostrophe before the size)
 Pressure = 40 PSI
 Number of heads = 80

Sprinkler group 2 Nozzle size = _____ inch (type an apostrophe before the size)
 (if applicable) Pressure = _____ PSI
 Number of heads = _____

Sprinkler group 3 Nozzle size = _____ inch (type an apostrophe before the size)
 (if applicable) Pressure = _____ PSI
 Number of heads = _____

Results calculated

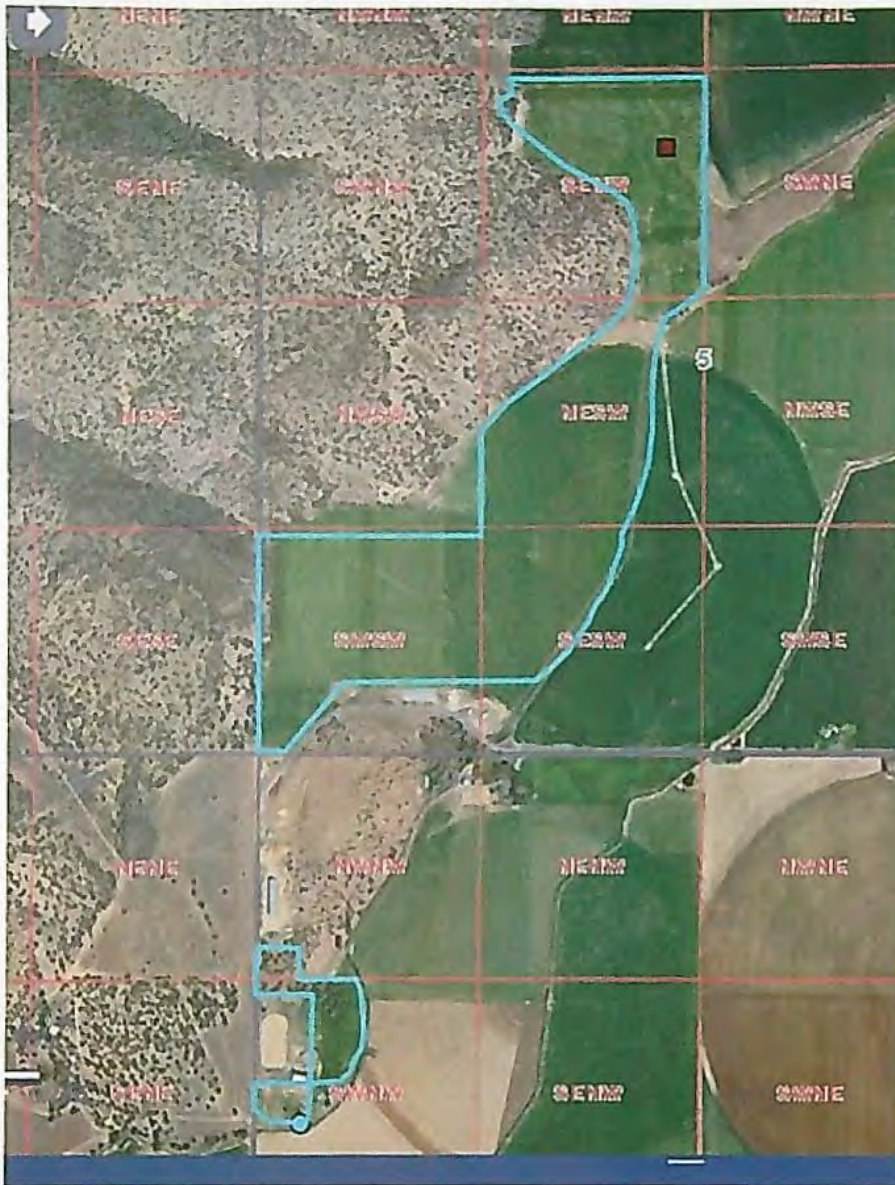
Sprinkler group 1 capacity = 352 gpm, or 0.784 cfs
 Sprinkler group 2 capacity = 0 gpm, or 0.000 cfs
 Sprinkler group 3 capacity = 0 gpm, or 0.000 cfs

Total sprinkler capacity = 352 gpm, or 0.784 cfs

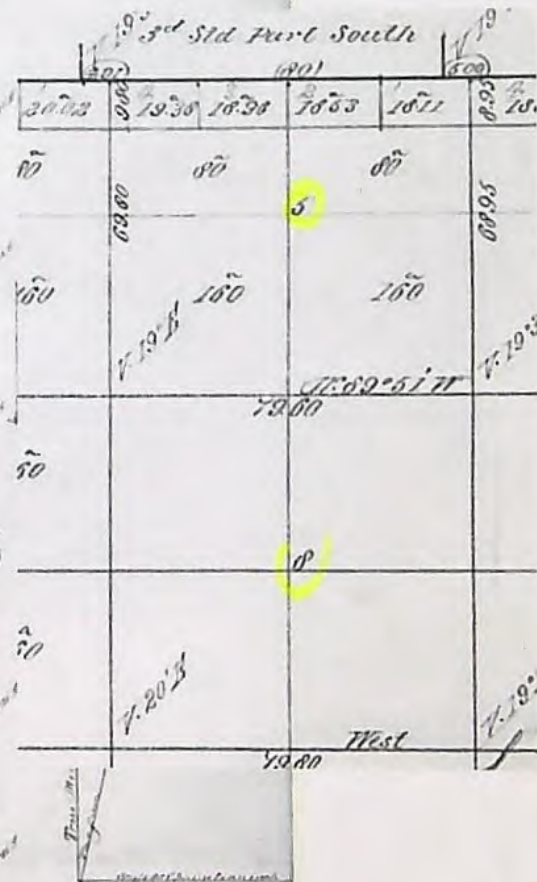
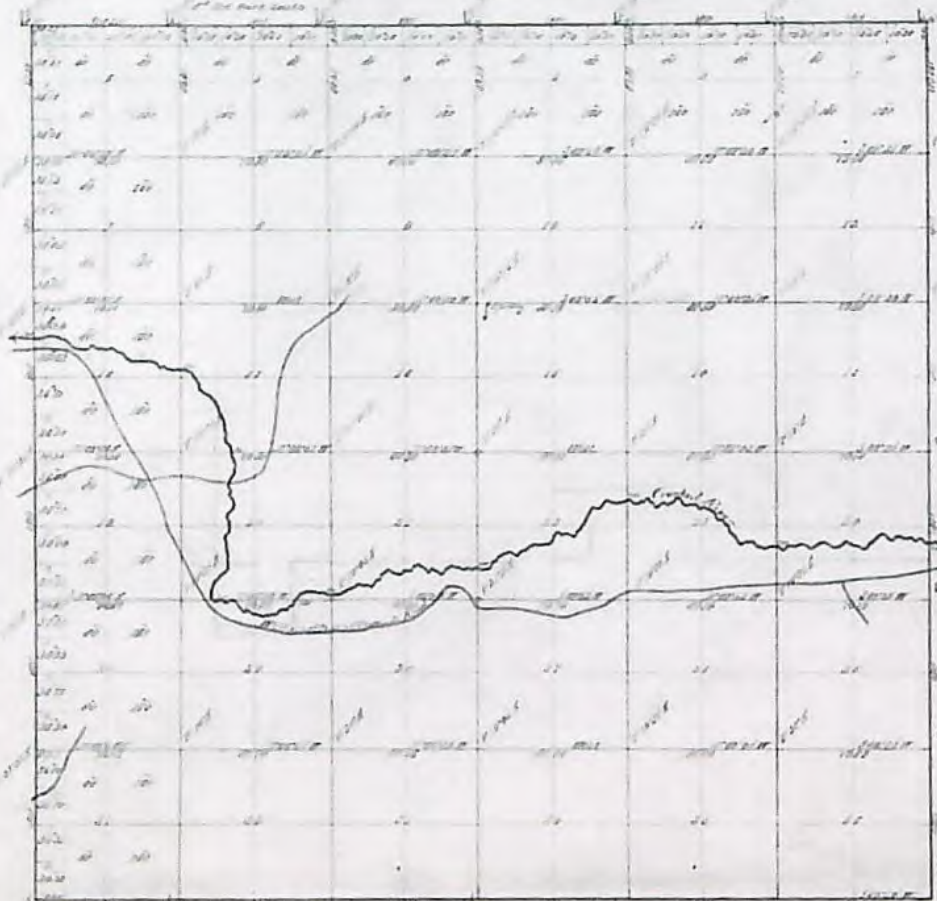
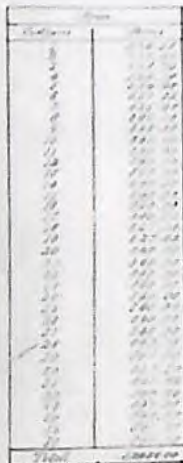
Note: If entered values return a result of 0 gpm or "#N/A", then the sprinkler capacity chart does not contain a rate for that nozzle size and PSI.
 A rough alternate calculation can be made using this formula:
 $28.93 \times (\text{orifice size in decimal, squared}) \times (\text{square root of pressure})$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

Rainbird Nozzle Size Reference

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



Mapper does not have
any county information



Project	Construction	Firm Price		Market Price		Performance	Completion
		Price	Quantity	Price	Quantity		
1. Additions	2. Additions	3. Additions	4. Additions	5. Additions	6. Additions	7. Additions	8. Additions

The above copy of T-104 is a list of 1942-43 program
is directly cognate to original paid copy of list
showing change on file in file of the same name
from 1941-42 and approved
Director, Bureau of Tax
Chicago, Ill. Oct 19 1943

E.T. Shepard
Director

E. L. M. 1890

No conflict

Places of Use from Water Rights in the Same Area

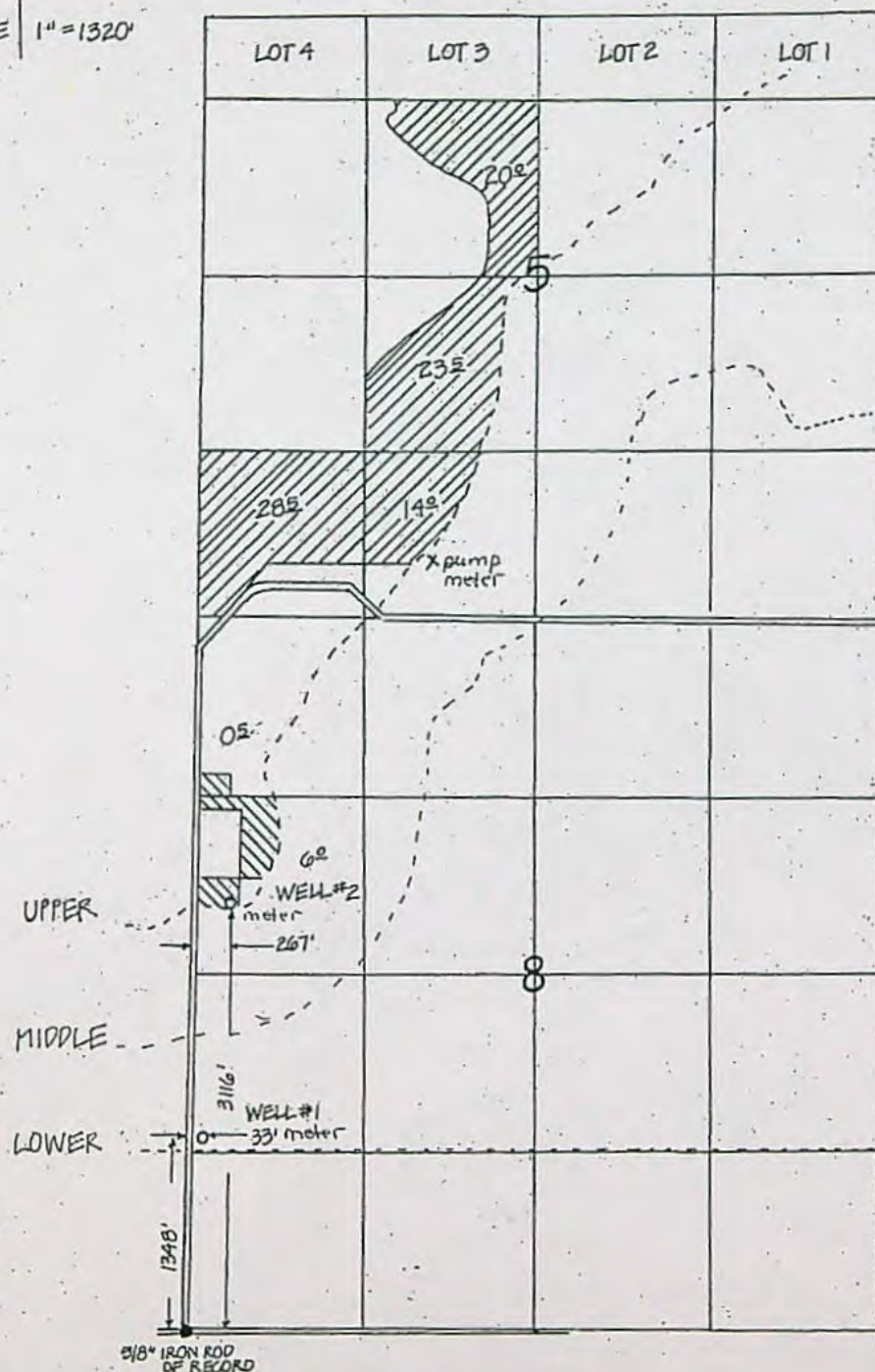
The following rights have acreage in the same quarter-quarter as Permit: G 12561 *

Right	Name	Decree	App	Permit	Cert	Priority	Status	Use	T-R-S-QQ	DI
<u>CERT:72197 CF CR *</u>	CROOK COUNTY IMPROVEMENT DISTRICT 1	DESCHUTES RIVER (F)			72197	10/31/1900	NC	IR	14.00S-14.00E-08-SWNW	
								IR	14.00S-14.00E-08-NWNW	
								IR	14.00S-14.00E-05-SESW	
								IR	14.00S-14.00E-05-SESW	
								IR	14.00S-14.00E-05-NESW	
								IR	14.00S-14.00E-05-NESW	
<u>PERMIT: G 17116 *</u>	A J DAIRY LLC		G-12176	G-17116		7/16/1990	NC	IR	14.00S-14.00E-05-	
								IR	14.00S-14.00E-05-	
								IR	14.00S-14.00E-05-	
								IR	14.00S-14.00E-05-	
<u>CERT:76714 CF *</u>	CENTRAL OREGON IRRIGATION DISTRICT		S-13180	S-23256	76714	2/28/1913	NC	IS	14.00S-14.00E-05-NESW	
								IS	14.00S-14.00E-05-NESW	
								IS	14.00S-14.00E-05-SESW	
								IS	14.00S-14.00E-05-SESW	
								IS	14.00S-14.00E-08-NWNW	
								IS	14.00S-14.00E-08-SWNW	

APPLICATION MAP
APPROPRIATION OF WATER
T.14S., R.14E., W.M.

Application No. 6-12177
Permit No.

SCALE 1" = 1320'



JEFFERSON COUNTY
CROOK COUNTY

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APR 28 1993

WATER RESOURCES DEPT.
SALEM, OREGON

NO REPRESENTATION IS
INTENDED TO PROVIDE
DIMENSIONS OR LOCATION
OF PROPERTY OWNERSHIP
LINES.



LEGEND

- WELL #1 TOTAL = 862'
- WELL #2 TOTAL = 621'

DEJARNATT LAND SURVEYS, INC.

63885 N. HWY. 97
BEND, OREGON 97101
(503) 382-4192

JOB # 90061
SHEET 1 OF 1
JULY 11, 1990
REVISED 4-12-93

CLAIM OF BENEFICIAL USE

The completion of this form is required by OAR 690-014-010(1) and 690-014-0110(4).

Please type or print in dark ink. If this form is found to contain errors or omissions, it may be returned to you. Every numbered item must have a response. If any requested information does not apply to the Claim, insert "n/a." Do not delete any section of this form unless directed by the form. The Department may require the submittal of additional information from any water user or authorized agent. A separate form shall be completed for each permit or transfer final order.

I. General Information

1. File Information

Application Number (G, R, S or T)	Permit Number (if applicable)
G-12177	G-12561

2. Property owner (current owner information)

a. Individuals

Name	Thomas G Strand	
Mailing Address	18880 NW Lone Pine Lane	
City/State/Zip	Terrebonne, OR 97760	
Phone #	541 548-5747	
Fax #		
e-mail address		

b. Businesses/Organizations

Name	N/A
Contact Person and Title	N/A
Mailing Address	N/A
City/State/Zip	N/A
Phone	N/A
Fax	N/A
e-mail	N/A

If the current property owner is not the permittee or transfer holder of record, it is recommended that an assignment be filed with the Department.

3. Permittee / Transferee of record (this may not be the current property owner)

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WATER RESOURCES DEPT
SALEM OREGON

	Individual 1	Individual 2
Name	Thomas G Strand	
Mailing Address	18880 NW Lone Pine Lane	
City/State/Zip	Terrebonne, OR 97760	

d. Businesses/Organizations

Name	N/A
Contact Person and Title	N/A
Mailing Address	N/A
City/State/Zip	N/A

4. Date of Site Inspection: September 29, 2004

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

Name	Date	Association with the project
Tom Strand	9-29-04	Owner

6. County: Crook County

7. Tax Lot Information:

Tax map number	Tax lot number
14-14-5	TL 400
14-14-8	TL 300

8. If any property described in the place of use of the permit or transfer final order is excluded from this report, identify the owner of record for that property (ORS 537.230(3)):

****Mark "NA" if there are no owners of property not included in this claim**

Name	N/A
Contact Person and Title	N/A
Mailing Address	N/A
City/State/Zip	N/A
Phone #	N/A

Name	
Contact Person and Title	Thomas G Strand Owner
Mailing Address	18880 NW Lone Pine Lane
City/State/Zip	Terrebonne, OR 97760
Phone #	541-548-5747

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SEP 29 2005

WATER RESOURCES DEPT
SALEM OREGON

I. Points of Diversion/Appropriation and Place of Use

For each point of diversion or appropriation, provide the following information. If the claim is for more than one point of diversion/appropriation, copy and complete this section for each point of diversion or appropriation.

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

Water is pumped from well no.1 to the Upper Lone Pine Canal through 1700' of 6" PVC pipe. The pipe has a 6" meter located near the Middle Lone Pine Canal. Well no.1 has a 30hp submersible pump capable of diverting 380 GPM to the Upper Lone Pine Canal.

Water flows down the Upper Lone Pine Canal to the SW corner of the SE ¼ SW ¼ of Section 5 where it is picked up by a 20HP Centrifugal Pump (Pump no. 2) and a 30HP Centrifugal Pump (Pump no. 3). The 20 HP pump (Pump no. 2) boosts the pressure to sprinkle 24.8 acres in the SW ¼ SW ¼ of Section 5. Meter no.2 measures the flow of the 24.8 acres in the SW ¼ SW ¼ of Section 5. The 30HP pump (Pump no. 3) boosts the pressure to irrigate through a center pivot to irrigate 1.1 Acres in the NE ¼ SW ¼, 8.6 Acres in the SE ¼ SW ¼, and 5.0 Acres in the SW ¼ of the SW ¼ of Section 5. The pivot irrigates a total of 98.0 acres. Pump no. 3 irrigates 14.7 acres (1.1 ac + 8.6 ac + 5.0 ac) or 15% of the total pivot area. The 30HP (Pump no.3) also pumps water to sprinkle irrigate 21.6 acres in the SE ¼ NW ¼ and 1.8 acres in the NE ¼ SW ¼ of Section 5. This usage is measured by meter no. 4.

Well no.2 was previously issued a certificate under permit G-12561. Well no.2 is used to irrigate 5.0 acres in the SW ¼ SW ¼ of Section 5, 0.9 acres in the NW ¼ NW ¼ of Section 8 and 5.6 AC in the SW ¼ NW ¼ of Section 8 and also capable of pumping 140 GPM into the Upper Lone Pine Canal for supplemental irrigation of 5.0 acres in the SW ¼ SW ¼ of Section 5.

2. Point of diversion/appropriation name or number (correspond to map):

Point of diversion/appropriation name or number (correspond to map)	Well log ID # for all work performed on the well (if applicable)	Well tag # (if applicable)
1348' North and 33' East of the SW cor. of Sec. 8, T14S, R14E	Well no.1	
3116' North and 267' East of the SW cor. of Sec. 8, T14S, R14E	Well no.2	

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

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

Source	Tributary to
Ground Water	Crooked River

4. Point of diversion/appropriation location:

(DLC, Government Lot, ¼ ¼, Section, Township, Range)	Reference to a recognized public land survey corner by distance and bearing or by coordinates
NW ¼ SW ¼, Sec. 8, T14S, R14E (Well no. 1)	1348' N & 33' E of the SW cor. Sec. 8, T14S, R14E
SW ¼ NW ¼, Sec. 8, T14S, R14E (Well no. 2)	3116' N & 267' E of the SW cor. Sec. 8, T14S, R14E

5. Actual use(s), period of use, and rate for each use:

Uses	If irrigation, list crop type	When water is used	Rate for use
Irrigation	Grass Hay	4-15 to 10-15	520 GPM

Total Quantity of Water 277 ac/ft

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SEP 20 2005

WATER RESOURCES DEPT
COBU VERMONT

6. Place of use for the point of diversion or appropriation:

DLC	Gov lot	1/4 1/4	Section	Township	Range	Use	# of primary acres	# of supplemental acres
		SW SW	5	T14S	R14E	IRR	29.8 AC	
		SE SW	5	T14S	R14E	IRR	8.6 AC	
		NE SW	5	T14S	R14E	IRR	2.9 AC	23.1
		SE NW	5	T14S	R14E	IRR	21.6 AC	
		NW NW	8	T14S	R14E	IRR	0.9 (prev. certified)	
		SW NW	8	T14S	R14E	IRR	5.6 (prev. certified)	

Total Acres Irrigated 69.4 AC Primary – 23.1 ac Supp.

Groundwater Source Information (Well and Sump)

****If the appropriation is not from ground water (well or sump), this section, items 1-5, can be deleted.**

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

2" access port for Well no. 1 and 2

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

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

In addition to the information requested in item "2" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

NA

****If the appropriation is not from a sump, the following section, items 3-4, can be deleted. Construction standards for sumps can be found in OAR 690-210-0400.**

Gravity flow canal or ditch (The Department typically uses Manning's formula for canals and ditches)

****If this claim does not rely on a gravity flow canal or ditch to convey the water as part of the distribution system, this section, items 1-3, can be deleted.**

1. If the system involves a gravity canal or ditch, complete the table below. Upper Lone Pine Canal

Canal or ditch type (material)	Top width of canal or ditch	Bottom width of canal or ditch	Depth	"N" factor	Amount of fall	Length of canal/ditch	Slope	Computed volume
Earth	6'	3'	4'					7'

2. Provide calculations in the box below:

We are sharing the Ground water with the Upper Lone Pine Canal, Lone Pine Irrigation District. The existing canal is capable of 15 AC feet and it's current usage is 7 AC feet of which 1 AC foot is ground water.

RECEIVED

SEP 20 2005

3. If an actual measurement was taken, provide the following:

Date of Measurement	Who made the measurement	Measurement method	Measured quantity of water
N/A			

Attach measurements notes

System Information:

Provide the following information concerning the diversion and delivery system. Trace the flow of water from the point of diversion/appropriation to the place of use.

1. Pump information

Brand	Model	Serial Number	Type (centrifugal, turbine or submersible)	Intake size	Discharge size
1	Berkley		Submersible		6
2	Century		Centrifugal	6	6
3	Cornell		Centrifugal	8	6
4	Berkley		Submersible		4

2. Motor information

Brand	Model	Horsepower	Max RPM	Voltage
1	Franklin	30	3600	480
2		30	3600	480
3		20	3526	480
4	Franklin	15	3600	220

3. Meter information (if required in permit or transfer final order)

Make	Serial #	Condition (working or not)	Current meter reading	Notes
1 Mc Crommeter	916447	working		6"
2 Mc Crommeter	916446	working		6"
3 Aqua 900	30241	working		8"
4 Mc Crommeter	914384	working		4"
5 Mc Crommeter	914383	working		4"

4. Measurement device description

Device description	Condition (working or not)	Notes
Micrometer	working	

5. Measured pump capacity (using meter if meter was present and system was operating)

Initial meter reading	Ending meter reading	Duration of time observed	Total pump output
NA			

6. Theoretical pump capacity

Horsepower	Operating psi	Lift from source to pump *If a well, the water level during pumping (see pump test results)	Lift from pump to place of use	Total pump output
Pump 1	0	See attached pump test	320'	380
Pump 2	60		50'	160
Pump 3	60		10'	650'
Pump 4	60	See attached pump test	300'	160

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8. Mainline information

Mainline size	Length	Type of pipe	Buried or above ground
4"	800 LF	PVC	BURIED
5"	400 LF	PVC	BURIED
6"	4300 LF	PVC	BURIED

9. Lateral or handline information

Lateral or handline size	Length	Type of pipe	Buried or above ground
4" Wheel line	1000 LF	Aluminum	Above ground
Center Pivot	1100 LF	PVC	Above ground
3" Hand lines	1280 LF	Aluminum	Above ground

10. Sprinkler information Make and model:

Make	Model	Size	Operating psi	Sprinkler output	Maximum number used	Total sprinkler output
Rainbird	30	5/32"	40	4 GPM	80	320
Low Pressure		varies	38	Varies	55 plus end gun	

Refer to the chart of sprinkler output at various pressures for most nozzle sizes attached to this document.

$$Q_{\text{sprinklers}} = \frac{(\text{max \# heads})(\text{gpm/head})}{448.8 \text{ gpm/cfs}} = \text{cfs}$$

11. Additional notes or comments related to the system:

Well no. 1 runs continuously and is used to irrigate 57.9 acres in Section 5. Water is rotated between the sprinkled 21.6 acres in the SE ¼ NW ¼, the sprinkled 24.8 acres in the SW ¼ SW ¼ and the areas irrigated with the Center Pivot being the 8.6 acres in the SE ¼ SW ¼ and the 1.1 acres in the NE ¼ SW ¼ of Section 5.

Well no. 1 is also to be used for supplemental irrigation of 10.0 acres in the NE ¼ SW ¼ of Section 5.

Well no. 2 is used to irrigate 6.5 acres in Section 8 and is rotated to irrigate 5.0 acres in the SW ¼ SW ¼ of Section 5. Well no. 2 is also to be used for supplemental irrigation of 13.1 acres in the NE ¼ SW ¼ of Section 5.

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SALEM OREGON

COBU Version 1105

III. CONDITIONS

Please pay special attention to this section. All conditions contained in the permit or transfer final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

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

	Dates from permit or transfer final order	Date accomplished	Description of actions taken by water user to comply with the time limits
Begin construction	Oct. 1, 1996		
Complete construction	Oct. 1, 1998		
Complete application of water	Oct. 1, 1999		An extension of time was granted to complete the construction and apply the water to Oct. 1, 2004.

2. Initial Water Level Measurements:

**If the Claim is for surface water or a reservoir, or if the water user was not required to submit static water level measurements, items b through e relating to this section can be deleted.

a. Was the water user required to submit an initial static water level measurement? NA

b. What month was the initial measurement to be taken in? NA

c. Did an authorized individual (as stated in the permit or transfer final order) make the initial static water level measurement in the month required?

NA

d. If "YES", was the measurement submitted to the Department? NA

e. If the initial measurement not been submitted, provide that measurement now if available:

Date of measurement	Who made measurement	Method	Measurement
NA			

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SALEM, OREGON

3. Annual Static Water Level Measurements:

**If the Claim is for surface water or a reservoir, or if the water user was not required to submit static water level measurements, items b through e relating to this section can be deleted.

a. Was the water user required to submit annual static water level measurements? NA

b. In the box below, provide the month in which the static water level was to be made:

NA

c. Were the static water level measurements taken in the month required? NA

d. If "YES", were those measurements submitted to the Department? NA

e. If the annual measurements were not submitted, provide the measurements now in the box below:

Year	Month	Measurement made by	Measurement
NA			

4. **Measurement, recording, and reporting conditions:**

a. Does the permit or transfer final order require the installation of a meter or approved measuring device?
YES **If "NO", items b through g relating to this section can be deleted.

b. Has a meter been installed? YES

c. Provide the date the meter was installed:

September 1998

d. If a meter has not been installed, has a suitable measuring device been installed and approved by the Department? YES NO NA

e. If "YES", provide a copy of the letter approving the device, if available. If the letter is not available provide the name and title of the Water Resources Department employee approving the measuring device, and the approximate date of the approval:

Name	Title	Approximate date
NA		

f. Is the water user required to report the water use to the Department? NO

g. Have the reports been submitted? NA

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

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5. **Fish Screening and/or By-pass Devices**

a. Are any points of diversion required to be screened and/or have a by-pass device to prevent fish from entering the point of diversion? NO

**If "NO", items b through i relating to this section can be deleted

6. **Pump Test** (typically required for ground water uses prior to issuance of a certificate, but not a requirement of permit development)

a. Did the permit or transfer final order require the submittal of a pump test? YES NO NA

b. Has a pump test been submitted and approved by the Department? YES NO

c. If no, is the pump test attached to this Claim? YES

7. **Other Permit Conditions** (examples: special well construct standards, water conservation plans, no obstructions to fish without a fishway, etc.; number as appropriate.)

IV. Attachments, Conclusions, Map and Signatures

Attachments

If you are attaching any documents to this report, provide a list below:

Attachment name	Description
Well Logs	Well logs for Wells no. 1 and no. 2
Pump Tests	Pump tests for Pump #1 and Pump #4

Permit and Transfer Final Order Rates and System Rates Comparisons:

POD or POA name or #	Maximum rate allowed by permit or transfer final order	Calculated theoretical rate of water based on system	Actual amount of water measured (if measured)	Developed use	# of acres allowed by permit or transfer final order	# of acres developed
Wells 1 & 2	1.16 CFS	520 GPM	Not Measured	520 GPM	92.5 AC	92.5 AC

Claim of Beneficial Use Map

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

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

Aerial Photo provided by owner, Tom Strand. This aerial is from Bend Mapping and Blueprinting located in Bend, Oregon. The aerial flight for this photo took place September 11, 1998. There are no series numbers or aerial photo identification.

CWRE Statement, Seal and Signature

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

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Permit or Transfer Holders Signature or Acknowledgement

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

Thomas G. Strand Thomas G. Strand 9-24-05
Signature Print or type name Date

Signature Print or type name Date

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Oregon
Kate Brown, Governor

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

January 21, 2016

THOMAS G STRAND
18880 NW LONE PINE LANE
TERREBONNE OR 97760

NORTHWEST FARM CREDIT SERVICES, ACA
PO BOX 607
REDMOND OR 97756

Reference: Application G-12177, Permit G-12561

The Department has been reviewing the Claim of Beneficial Use (Claim) report and map, received on September 29, 2005, for the above referenced ground water application involving Permit G-12561 (priority date of July 16, 1990). The Department is prepared to issue a proposed certificate for this permit; however the Department has identified an issue that must be resolved before the issuance of a certificate.

The Department has discovered that a pump test has not been performed on Well #2 (CROO 718) for Application G-12177, Permit G-12561. 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.

Please contact the Department and let us know how you wish to proceed. For your convenience, please see enclosures which include: 1) a copy of Permit G-12561, 2) a "Pump Test Form Cover and Data Sheet", 3) the Claim of Beneficial Use, and 4) a draft Certificate for Application G-12177.

Please contact the Department and let us know how you wish to proceed. If you have any questions please contact me at 503-986-0814.

Sincerely,

Jessica Joye
Certificate Section

enclosures

Cc: Files G-12177
WM # 11
William Tye, CWRE, Tye Engineering & Surveying

STATE OF OREGON

COUNTY OF CROOK

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

THOMAS G STRAND
RT 1 BOX 53
TERREBONNE, OREGON 97760

(541) 548-5747

NORTHWEST FARM CREDIT SERVICES, ACA
PO BOX 607
REDMOND, OREGON 97756

(541) 548-2126

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

APPLICATION FILE NUMBER: G-12177

SOURCE OF WATER: TWO WELLS WITHIN THE CROOKED RIVER BASIN

PURPOSE OR USE: IRRIGATION OF 92.5 ACRES

VOLUME OF USE: 1.16 CUBIC FOOT PER SECOND

PERIOD OF USE: MARCH 1 THROUGH OCTOBER 31

DATE OF PRIORITY: JULY 16, 1990

POINT OF DIVERSION LOCATION: SW 1/4 NW 1/4, NW 1/4 SW 1/4, SECTION 8, T14S, R14E, W.M.; WELL 1 - 1348 FEET NORTH AND 33 FEET EAST; WELL 2 - 3116 FEET NORTH AND 267 FEET EAST, BOTH FROM THE SW CORNER OF SECTION 8

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 3.0 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SE 1/4 NW 1/4	20.0 ACRES
NE 1/4 SW 1/4	23.5 ACRES
SW 1/4 SW 1/4	28.5 ACRES
SE 1/4 SW 1/4	14.0 ACRES
SECTION 5	

NW 1/4 NW 1/4	0.5 ACRE
SW 1/4 NW 1/4	6.0 ACRES
SECTION 8	

TOWNSHIP 14 SOUTH, RANGE 14 EAST, W.M.

Application G-12177 Water Resources Department

PERMIT G-12561

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.

Use of water under authority of this permit may be regulated if analysis of data available after the permit is issued discloses that the appropriation 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 in effect as of the priority date of the right or as those quantities may be subsequently reduced.

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.

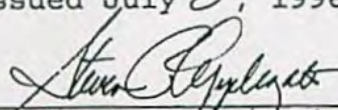
The use of water shall be limited when it interferes with any prior surface or ground water rights.

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 wells 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 July 8, 1996

BC 24


Martha O. Pagek, Director
Water Resources Department

Application G-12177 Water Resources Department
Basin 05 Volume 2, CROOKED RIVER & MISC.
MGMT.CODES 7BG, 7BR, 7JG, 7JR

PERMIT G-12561
District 11

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: _____

STATE OF OREGON

COUNTY OF CROOK

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

THOMAS G. STRAND
18880 NW LONE PINE LANE
TERREBONNE OR 97760

NORTHWEST FARM CREDIT SERVICES, ACA
PO BOX 607
REDMOND OR 97756

confirms the right to the use of water perfected under the terms of Permit G-12561. The amount of water used to which this right is entitled is limited to the amount used beneficially, and shall not exceed the amount specified, or its equivalent in the case of rotation, measured at the point of diversion from the source. The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-12177

SOURCE OF WATER: TWO WELLS WITHIN THE CROOKED RIVER BASIN

PURPOSE or USE: IRRIGATION OF 69.4 ACRES AND SUPPLEMENTAL IRRIGATION OF 23.1 ACRES

MAXIMUM RATE: SHALL NOT EXCEED 1.16 CUBIC FEET PER SECOND (CFS), BEING 0.85 CFS FROM WELL 1 AND 0.31 CFS FROM WELL 2

PERIOD OF USE: MARCH 1 THROUGH OCTOBER 31

DATE OF PRIORITY: JULY 16, 1990

The wells are located as follows:

TwP	Rng	Mer	Sec	Q-Q	Measured Distances
14 S	14 E	WM	8	SW NW	WELL 2 - 3116 FEET NORTH AND 267 FEET EAST FROM SW CORNER, SECTION 8
14 S	14 E	WM	8	NW SW	WELL 1 - 1348 FEET NORTH AND 33 FEET EAST FROM SW CORNER, SECTION 8

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 3.0 acre-feet for each acre irrigated during the irrigation season of each year.

NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW

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

A description of the place of use is as follows:

IRRIGATION						
Twp	Rng	Mer	Sec	Q-Q	Acres	Well
14 S	14 E	WM	5	SE NW	21.6	1
14 S	14 E	WM	5	NE SW	2.9	1
14 S	14 E	WM	5	SW SW	24.8	1
14 S	14 E	WM	5	SW SW	5.0	2
14 S	14 E	WM	5	SE SW	8.6	1
14 S	14 E	WM	8	NW NW	0.9	2
14 S	14 E	WM	8	SW NW	5.6	2

SUPPLEMENTAL IRRIGATION						
Twp	Rng	Mer	Sec	Q-Q	Acres	Well
14 S	14 E	WM	5	NE SW	10.0	1
14 S	14 E	WM	5	NE SW	13.1	2

Measurement, recording and reporting conditions:

- A. The water user shall maintain the meter or other suitable measuring device as approved by the Director in good working order.
- B. The water user shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.
- C. The Director may require the water user to keep and maintain a record of the amount (volume) of water used and may require the water user to report water use on a periodic schedule as established by the Director. In addition, the Director may require the water user to report general water use information, the periods of water use and the place and nature of use of water under the right. The Director may provide an opportunity for the water user 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 right, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

Use of water under authority of this right may be regulated if analysis of data available after the right is issued discloses that the appropriation 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 in effect as of the priority date of the right or as those quantities may be subsequently reduced.

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

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

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

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

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

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

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

Issued _____.

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

DRAFT

FINAL PROOF MAP

(PERMIT # G-12561)







(APPLICATION # G-12177)



FOR THOMAS STRAND

TAX LOTS 300 & 400

LOCATED IN SECTION 5 AND SECTION 8, TOWNSHIP 14 SOUTH, RANGE 14 EAST, OF THE WILLAMETTE MERIDIAN, CROOK COUNTY, OREGON

LEGEND

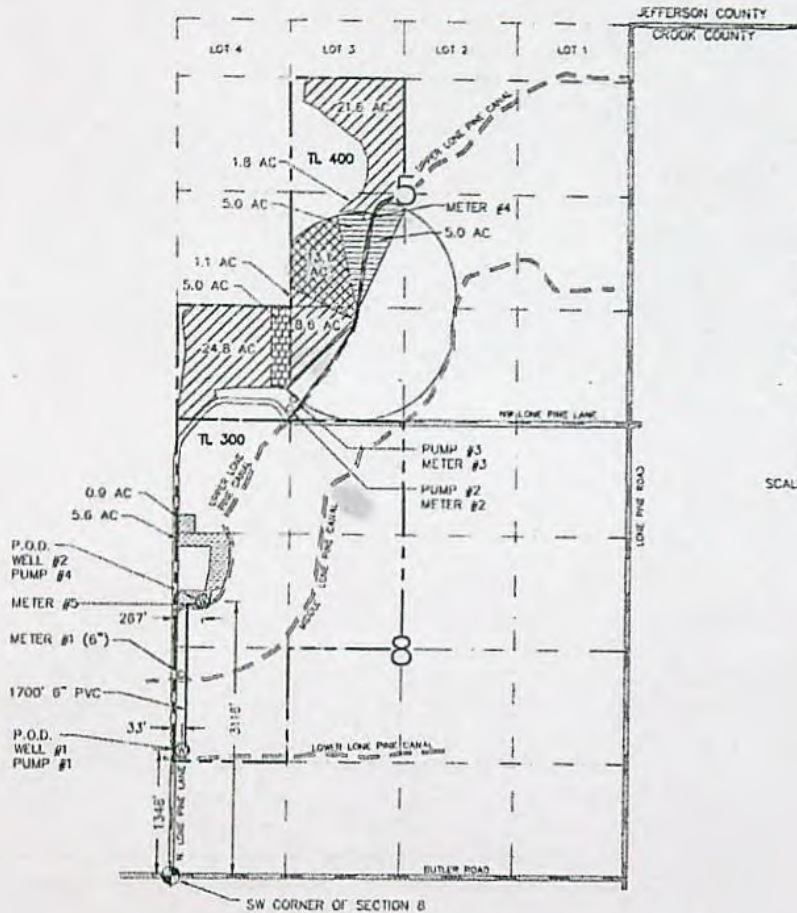
-  PRIMARY IRRIGATION 57.9 AC
-  PRIMARY WELL NO. 2 - 5.0 AC
-  PRIMARY WELL NO. 2 - 6.5 AC
PREVIOUS CERTIFICATE G-12561
-  TOTAL PRIMARY 69.4 AC
-  WELL NO. 1 SUPPLEMENTAL IRRIGATION 10.0 AC
-  WELL NO. 2 - SUPPLEMENTAL IRRIGATION 13.1 AC

-  WELL
-  SECTION CORNER

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SALEM OREGON



SCALE: 1"=1000'

WELL NO.1 - PRIMARY						
PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
1	30	SUBMERSIBLE	380	1	62.9	W 1/2 SECTION 5
2	20	CENTRIFUGAL	140-160	2	24.8	SW 1/4 SW 1/4 SECTION 5
3	30	CENTRIFUGAL	520-620	3	8.6	SE 1/4 SW 1/4 SECTION 5
3				3	1.1	NE 1/4 SW 1/4 SECTION 5
3				4	1.8	NE 1/4 SW 1/4 SECTION 5
3				4	21.6	SE 1/4 NW 1/4 SECTION 5
TOTAL					57.9	

WELL NO.1 SUPPLEMENTAL						
PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
3					10	SE 1/4 SW 1/4 SECTION 5
TOTAL					67.9	

WELL NO. 2 - PRIMARY						
PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
4	15	SUBMERSIBLE	160	5	0.9 *	NW 1/4 NW 1/4 SECTION 8
4				5	5.8 *	SW 1/4 NW 1/4 SECTION 8
3					5.0	SW 1/4 SW 1/4 SECTION 5
TOTAL					11.5	

WELL NO.2 SUPPLEMENTAL						
PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
4				5	13.1	SE 1/4 NW 1/4 SECTION 8
TOTAL					24.6	


* PREVIOUS CERTIFICATE

I, William R. Tye, Certified Water Right Examiner in the State of Oregon, hereby certify the above final proof map was prepared under my direct supervision.

The preparation of this map is for the purpose of identifying the location of the water right only and has no intent to provide dimensions or locations of property ownership lines.



COBU MAP #0187

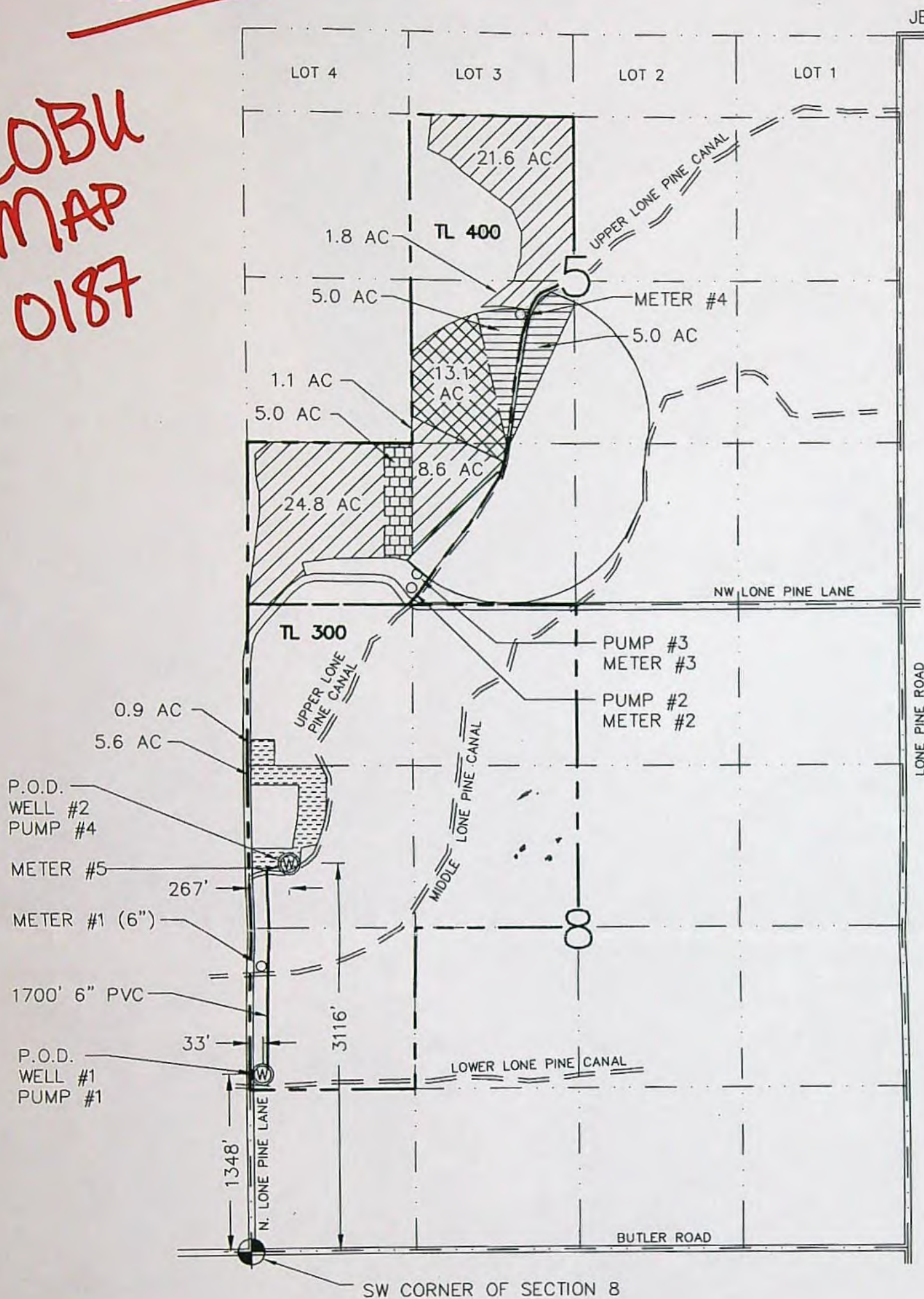
		TITLE: FINAL PROOF MAP JOB NO: 703-22 TOM STRAND SCALE: 1"=1000' FIELD BOOK: DATE: 9-27-05 GWO: 703-22-8-18-05 SHEET: 1 OF 1	
D. J. LLOYD & SONS, INC. 725 NW 11th St., Ste. 200 Astoria, OR 97103		BY: JLC	

0187

COPY

Appl # G-12177 (Permit # G-12561)

COBU
MAP
0187

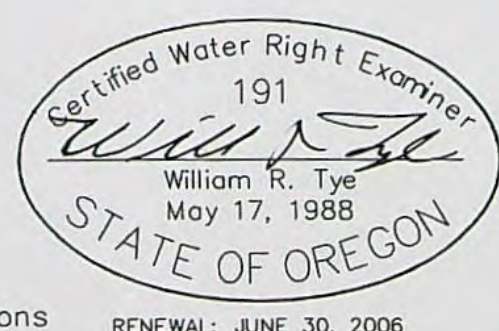


← Acreage shown here matches listing on COBU for Permit G-12561.

SCALE: 1"=1000'

I, William R. Tye, Certified Water Right Examiner in the State of Oregon, hereby certify the above final proof map was prepared under my direct supervision.

The preparation of this map is for the purpose of identifying the location of the water right only and has no intent to provide dimensions or locations of property ownership lines.



RENEWAL: JUNE 30, 2006

COBU MA

L. JARAMILLO
4-14-06

FINAL PROOF MAP
(PERMIT# G-12561)
(APPLICATION # G-12177)
FOR THOMAS STRAND
TAX LOTS 300 & 400

LOCATED IN SECTION 5 AND SECTION 8, TOWNSHIP 14 SOUTH, RANGE
14 EAST, OF THE WILLAMETTE MERIDIAN, CROOK COUNTY, OREGON

COPY
COBU MAP
0187

LEGEND



PRIMARY IRRIGATION 57.9 AC



PRIMARY WELL NO. 2 - 5.0 AC



PRIMARY WELL NO. 2 - 6.5 AC
PREVIOUS CERTIFICATE G-12561

TOTAL PRIMARY 69.4 AC



WELL NO. 1 SUPPLEMENTAL IRRIGATION 10.0 AC



WELL NO. 2 - SUPPLEMENTAL IRRIGATION 13.1 AC



WELL



SECTION CORNER

RECEIVED

SEP 29 2005

WATER RESOURCES DEPT
SALEM, OREGON

Permit G-12561
Allows:

• Total of 92.5 AC
of Irrigation

• 1.16 cfs

T. 14S, R. 14E

Sec 5: SENW - 20.0
NESW - 23.5
SWSW - 28.5
SESW - 14.0

Sec. 8: NWNW - 0.5
SWNW - 6.0

total: 92.5 AC

WELL NO.1 - PRIMARY

PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
1	30	SUBMERSIBLE	380	1	62.9	W 1/2 SECTION 5
2	20	CENTRIFUGAL	140-160	2	24.8	SW 1/4 SW 1/4 SECTION 5
3	30	CENTRIFUGAL	520-620	3	8.6	SE 1/4 SW 1/4 SECTION 5
3				3	1.1	NE 1/4 SW 1/4 SECTION 5
3				4	1.8	NE 1/4 SW 1/4 SECTION 5
3				4	21.6	SE 1/4 NW 1/4 SECTION 5
TOTAL					57.9	

WELL NO.1 SUPPLEMENTAL

PUMP #	IRRIGATION ACRES	LOCATION
3	10	SE 1/4 SW 1/4 SECTION 5
TOTAL		67.9

WELL NO. 2 - PRIMARY

PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
4	15	SUBMERSIBLE	160	5	0.9 *	NW 1/4 NW 1/4 SECTION 8
4				5	5.6 *	SW 1/4 NW 1/4 SECTION 8
3					5.0	SW 1/4 SW 1/4 SECTION 5
TOTAL					11.5	

WELL NO.2 SUPPLEMENTAL

PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
4				5	13.1	SE 1/4 NW 1/4 SECTION 8
TOTAL					24.6	

* PREVIOUS CERTIFICATE

Proposed ↑
(Never issued).



TITLE: FINAL PROOF MAP
JOB NO: 703-22 TOM STRAND
SCALE: 1"=1000' BY: JLC
FIELD BOOK: DATE: 9-27-05
DWG: 703-22-8-18-05 SHEET: 1 OF 1

L. JARAMILLO
4-14-06

#0187



Oregon
Kate Brown, Governor

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

May 26, 2017

THOMAS STRAND
18880 NW LONE PINE LANE
TERREBONNE OR 97760

GW

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

Application	Water Right	Permitted Well	Tested Well	Test Date	Test Status	Exemption	Well Name
G 12177	Permit: G 12561 *	CROO 718	CROO 718	09/22/1999	Approved	None	TOM STRAND WELL #2

Please contact me if you have any questions.

Sincerely,

Aurora Bouchier
Groundwater Section

cc: GW Pump Test File

MEMORANDUM

TO: JUSTIN IVERSON, GROUND WATER SECTION
FROM: CERTIFICATE SECTION – GERRY CLARK
SUBJECT: SECOND PUMP TEST FOR PERMIT G-12561 APPLICATION G-12177
DATE: 12/28/2016

The attached pump test for well #2 under the permit was received on September 27, 1999 along with the pump test for well #1. The pump test for well #1 was approved September 28, 2003; copies of the test and approval letter are attached for your reference.

The test for well #2 does not appear to have been reviewed or approved at this point. We are in the process of reviewing this file for certificate issuance and either need to have an approved pump test for well #2 or a multiple well exemption granted.

Please notify me once a determination has been made regarding the pump test for well #2



Oregon Water Resources Department
PUMP TEST COVER SHEET

RECEIVED

SEP 27 1999



Well Owner:

Name Thomas G. Strand
Address Rt. 1 Box 53
City, State, Zip Terrebonne, OR 97760
County Crook

Well Location:

Township 14 S (N or S), Range 14 E (E or W)
Section 8 1/4, 1/4, 1/4 SW, SW, NW
Well Depth _____ Date Drilled _____
Owner's Well No. (if any) Well #2
POD-ID _____

Water Right Information:

Application No. G-12177 Permit No. G-12561 Certificate No. _____
Is this well used for more than one water right? (Y/N) If Yes, fill out numbers below:
App. No. _____ Permit No. _____ Cert. No. _____
App. No. _____ Permit No. _____ Cert. No. _____

Pump Test:

Test conducted by Martin Georgyfalvy Well Owner? N (Y/N)
Company Tye Engineering & Surveying
Address 725 NW Hill St. Date of Test 9/22/99
City, State, Zip Bend, OR 97701

Method of Discharge Measurement 4" Meter (m³ Crometer)
Method of Water Level Measurement electrode
Depth of Air Line (if used) _____
Pump Type (Turbine, Submersible, etc.) 15 HP Submersible
Was pump test conducted during normal use of the well no (Y/N)

Description of point from which water level was measured Top of Casing
Is measuring point above or below ground level? Above
Distance between measuring point and ground level (correction factor) 1 ft.

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? No (Y/N) 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? Y (Y/N)
If yes, give approximate distance from the well and approximate elevation difference between the surface water and the well head: Approximate distance 40 feet to irrigation canal
Approximate elevation difference 8 feet
Is well elevation above or below the surface water body? Above

Static Water Level Measurements: (Three measurements at least 20 minutes apart are required in the hour before pumping begins):

Time: <u>12:48 p.m.</u>	Depth to Water: <u>166.7 ft.</u>	(ft/in)
Time: <u>1:28 p.m.</u>	Depth to Water: <u>166.7 ft.</u>	(ft/in)
Time: <u>1:48 p.m.</u>	Depth to Water: <u>166.7 ft.</u>	(ft/in)

Discharge Measurements: (A discharge measurement is required at the start of pumping and once an hour during the test):

Time: <u>1:48 a.m.</u>	Discharge Rate: <u>160</u>	(gpm)
Time: <u>2:51 a.m.</u>	Discharge Rate: <u>163</u>	(gpm)
Time: <u>3:51 p.m.</u>	Discharge Rate: <u>161</u>	(gpm)
Time: _____	Discharge Rate: _____	(gpm)
Time: _____	Discharge Rate: _____	(gpm)

Pump turned on: Date: 9/22/99 Time: 1:48 p.m. Pump turned off: Date: 9/22/99 Time: 3:51 p.m.
Total pumping time: 2 hours, 02 minutes.

Note: Well must be idle for at least 16 hours prior to the test.

OWRD 11:50

PUMP TEST DATA SHEET

Page 1 of 1APPLICATION NO. G-12177PERMIT NO. G-12561P.O.D.-ID Well #2

All water level measurements must either be in 1) feet and inches, or 2) feet and decimal fractions. (Circle one)

DRAWDOWN DATA							RECOVERY DATA						
DATE	TIME	TIME SINCE PUMP STARTED (minutes)	DEPTH TO WATER FROM MEASURING PT	CORRECTION FACTOR	DEPTH TO WATER FROM GROUND LEVEL	COMMENTS Flow Meter (gpm)	DATE	TIME	TIME SINCE PUMP STOPPED (minutes)	DEPTH TO WATER FROM MEASURING PT	CORRECTION FACTOR	DEPTH TO WATER FROM GROUND LEVEL	COMMENTS
9/2/99	1:43		167.7	-1 ft.	166.7	136000		3:51	0	218.3	-1 ft.	217.3	
	1:50	0:02	173.6		172.6	136900		3:53	0:02	213.6		212.6	
	1:52	0:04	177.8		176.8	137200		3:55	0:04	204.7		203.7	
	1:54	0:06	181.7		180.7	137500		3:57	0:06	199.4		198.4	
	1:56	0:08	185.4		184.4	137550		3:59	0:08	196.3		195.3	
	1:58	0:10	189.9		188.9	138200		4:01	0:10	193.8		192.8	
	2:00	0:12	191.1		190.1	138500		4:03	0:12	192.3		191.3	
	2:02	0:14	193.0		192.0	138500		4:05	0:14	190.4		189.4	
	2:04	0:16	194.7		193.7	139150		4:07	0:16	188.7		187.7	
	2:06	0:18	196.0		195.0	139500		4:09	0:18	187.1		186.1	
	2:08	0:20	197.2		196.2	139800		4:11	0:20	185.6		184.6	
	2:10	0:22	198.9		197.4	140150							
	2:12	0:24	200.0		199.0	140500							
	2:14	0:26	201.2		200.2	140800							
	2:16	0:28	202.2		201.2	141300							
	2:18	0:30	203.2		202.2	141800							
	2:20	0:32	204.2		203.2	142300							
	2:22	0:34	205.2		204.2	142800							
	2:24	0:36	206.2		205.2	143300							
	2:26	0:38	207.2		206.2	143800							
	2:28	0:40	208.2		207.2	144300							
	2:30	0:42	209.2		208.2	144800							
	2:32	0:44	210.2		209.2	145300							
	2:34	0:46	211.2		210.2	145800							
	2:36	0:48	212.2		211.2	146300							
	2:38	0:50	213.1		212.1	147500							
	2:40	0:52	214.4		213.4	147900							
	2:42	0:54	215.6		214.6	148300							
	2:44	0:56	217.2		216.2	149700							
	2:46	0:58	217.7		216.7	150400							
	2:48	1:00	218.1		217.1	150900							
	2:50	1:02	218.3		217.3	151200							
	2:52	1:04	218.3		217.3	151500							
							</						



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 28, 2003

Thomas G. Strand
Rt. 1 Box 53
Terrebonne, OR 97760

With regard to the pump test requirements for the following well and its associated water rights:

APP. #: G -12177 PERMIT #: G -12561 POD-ID: 37467

The Water Resources Department has reviewed and **accepted the pump test results you have submitted**. The Department requires no further testing of this well at this time. However, you will be required to either submit a static water level measurement or perform another pump test of the well on or about the ten-year anniversary of the test you conducted. I apologize for the delay in responding, but the test was only recently brought to the attention of the appropriate staff.

If your permit or certificate includes conditions requiring annual static water level measurements, and/or annual water use reporting, **please continue to make and report these measurements** unless otherwise instructed in writing by a representative of the Department. Providing this information assures compliance with the conditions of your permit and assists the Department in managing this valuable resource.

If the owner of this well has additional wells that require pump testing, a multiple well exemption may be possible if the following criteria are met. The tested well and the well(s) to be exempted need to be within a five mile radius of each other and must derive water from a common aquifer. The permittee must submit a written request for the exemption, including copies of the well logs or other pertinent information regarding the aquifer penetrated.

We appreciate your cooperation with this program. If you have any questions, please contact me at (503) 378-8455 ext. 207.

Sincerely,

Michael J. Zwart
Hydrogeologist

cc: Water Rights Section



Oregon Water Resources Department
PUMP TEST COVER SHEET

RECEIVED

SEP 27 1999

WATER RESOURCES DEPT.
SALEM, OREGON



Well Owner:

Name Thomas G. Strand
Address Rt. 1 Box 53
City, State, Zip Terrebonne, OR 97740
County Crook Co.

Well Location:

Township 14 S (N or S), Range 14 E (E or W)
Section 8 1/4, 1/4, 1/4 SW, NW, SW
Well Depth 240' Date Drilled 5/20/88
Owner's Well No. (if any) Well #1
POD-ID _____

Water Right Information:

Application No. G-12177 Permit No. G-12561 Certificate No. _____
Is this well used for more than one water right? N (Y/N) If Yes, fill out numbers below:
App. No. _____ Permit No. _____ Cert. No. _____
App. No. _____ Permit No. _____ Cert. No. _____

Pump Test:

Test conducted by Martin Gyorgyfalvy Well Owner? N (Y/N)
Company Tye Engineering & Surveying, Inc.
Address 725 NW Hill St. Date of Test 9/22/99
City, State, Zip Bend, OR 97701

Method of Discharge Measurement 4" Meter (Mcrometer)
Method of Water Level Measurement electrode
Depth of Air Line (if used) _____
Pump Type (Turbine, Submersible, etc.) 25 HP Submersible
Was pump test conducted during normal use of the well no (Y/N)

Description of point from which water level was measured Top of casing
Is measuring point above or below ground level? Above by 1 ft.
Distance between measuring point and ground level (correction factor) 1 ft.

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? No (Y/N) 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? Y (Y/N)
If yes, give approximate distance from the well and approximate elevation difference between the surface water and the well head: Approximate distance 10 feet to irrigation canal
Approximate elevation difference 7 feet
Is well elevation above or below the surface water body? Above

Static Water Level Measurements: (Three measurements at least 20 minutes apart are required in the hour before pumping begins):

Time: <u>9:50 a.m.</u>	Depth to Water: <u>99 ft. 1</u>	(ft/in)
Time: <u>10:10 a.m.</u>	Depth to Water: <u>99.0 ft.</u>	(ft/in)
Time: <u>10:30 a.m.</u>	Depth to Water: <u>99.0 ft.</u>	(ft/in)

Discharge Measurements: (A discharge measurement is required at the start of pumping and once an hour during the test):

Time: <u>10:30 a.m.</u>	Discharge Rate: <u>390</u>	(gpm)
Time: <u>11:30 a.m.</u>	Discharge Rate: <u>375</u>	(gpm)
Time: <u>12:30 p.m.</u>	Discharge Rate: <u>373</u>	(gpm)
Time: <u>1:30 p.m.</u>	Discharge Rate: <u>375</u>	(gpm)
Time: <u>2:30 p.m.</u>	Discharge Rate: <u>374</u>	(gpm)

Pump turned on: Date: 9/22/99 Time: 10:30 a.m. Pump turned off: Date: 9/22/99 Time: 2:30 p.m.
Total pumping time: 4 hours, 0 minutes.

Note: Well must be idle for at least 16 hours prior to the test.

OWRD 11:50

TOTAL FLOWS

PUMP TEST DATA SHEET

Page 1 of 1

APPLICATION NO. G-12177

PERMIT NO. G-12561

P.O.D.-ID Well #1

All water level measurements must either be in 1) feet and inches, or 2) feet and decimal fractions. (Circle one)

DRAWDOWN DATA							RECOVERY DATA						
DATE	TIME	TIME SINCE PUMP STARTED (minutes)	DEPTH TO WATER FROM MEASURING PT	CORRECTION FACTOR	DEPTH TO WATER FROM GROUND LEVEL	COMMENTS Flow Meter (gal.)	DATE	TIME	TIME SINCE PUMP STOPPED (minutes)	DEPTH TO WATER FROM MEASURING PT	CORRECTION FACTOR	DEPTH TO WATER FROM GROUND LEVEL	COMMENTS
9/22/99	10:30	0	100	-14.	99	7546800	9/22/99	2:30	0	141.5	-14.	140.8	
	10:32	0:02	131		130	647600		2:32	0:02	110		109	
	10:34	0:04	132		131	648300		2:34	0:04	102.8		101.8	
		0:06	132.6		131.6	649100		2:36	0:06	101.9		100.9	
		0:08	133.6		132.6	649900		2:38	0:08	101.5		100.5	
		0:10	136.7		135.2	650700		2:40	0:10	101.3		100.3	
		0:15	139.4		138.4	651500							
		0:20	140.0		139.0	654400							
		0:25	140.3		139.3	654300							
11:00	0:30		140.5		139.5	658100							
	0:45		141.0		140.0	653800							
11:30	1:00		141.2		140.2	669400							
	1:15		141.4		140.4	675000							
12:00	1:30		141.5		140.5	680300							
	1:45		141.6		140.6	681300							
	2:00		141.6		140.6	681500							
	2:15		141.7		140.7								
1:00	2:30		141.7		140.7								
	2:45		141.7		140.7								
1:30	3:00		141.8		140.8	714300							
	3:15		141.8		140.8								
	3:30		141.8		140.8								
	3:45		141.8		140.8								
2:30	4:00		141.8		140.8	736750							
</													

RECEIVED

SEP 27 1999

WATER RESOURCES DEPT.
SALEM, OREGON

OWRD 1050



Oregon Water Resources Department
PUMP TEST COVER SHEET

RECEIVED

SEP 27 1999



Well Owner:

Name Thomas G. Strand
Address Rt. 1 Box 53
City, State, Zip Terrebonne, OR 97760
County Crook

Well Location:

Township 14 S (N or S), Range 14 E (E or W)
Section 8 1/4, 1/4, 1/4 SW, SW, NW
Well Depth _____ Date Drilled _____
Owner's Well No. (if any) Well #2
POD-ID _____

WATER RESOURCES DEPT.
SALEM, OREGON

Water Right Information:

Application No. G-12177 Permit No. G-12561 Certificate No. _____
Is this well used for more than one water right? (Y/N) If Yes, fill out numbers below:
App. No. _____ Permit No. _____ Cert. No. _____
App. No. _____ Permit No. _____ Cert. No. _____

Pump Test:

Test conducted by Martin Gyorgyfalvy Well Owner? N (Y/N)
Company Tye Engineering & Surveying
Address 725 NW Hill St. Date of Test 9/22/99
City, State, Zip Bend, OR 97701

Method of Discharge Measurement 4" Meter (M^crometer)
Method of Water Level Measurement electrode
Depth of Air Line (if used) _____
Pump Type (Turbine, Submersible, etc.) 15 HP Submersible
Was pump test conducted during normal use of the well no (Y/N)

Description of point from which water level was measured Top of Casing
Is measuring point above or below ground level? Above
Distance between measuring point and ground level (correction factor) 1 ft.

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? No (Y/N) 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? Y (Y/N)
If yes, give approximate distance from the well and approximate elevation difference between the surface water and the well head: Approximate distance 40 feet to irrigation canal
Approximate elevation difference 8 feet
Is well elevation above or below the surface water body? Above

Static Water Level Measurements: (Three measurements at least 20 minutes apart are required in the hour before pumping begins):

Time: <u>12:48 p.m.</u>	Depth to Water: <u>166.7 ft.</u>	(ft/in)
Time: <u>1:28 p.m.</u>	Depth to Water: <u>166.7 ft.</u>	(ft/in)
Time: <u>1:48 p.m.</u>	Depth to Water: <u>166.7 ft.</u>	(ft/in)

Discharge Measurements: (A discharge measurement is required at the start of pumping and once an hour during the test):

Time: <u>1:48 p.m.</u>	Discharge Rate: <u>160</u>	(gpm)
Time: <u>2:51 p.m.</u>	Discharge Rate: <u>163</u>	(gpm)
Time: <u>3:51 p.m.</u>	Discharge Rate: <u>161</u>	(gpm)
Time: _____	Discharge Rate: _____	(gpm)
Time: _____	Discharge Rate: _____	(gpm)

Pump turned on: Date: 9/22/99 Time: 1:48 p.m. Pump turned off: Date: 9/22/99 Time: 3:51 p.m.
Total pumping time: 2 hours, 02 minutes.

Note: Well must be idle for at least 16 hours prior to the test.

PUMP TEST DATA SHEET

APPLICATION NO. G-12177

PERMIT NO. G-12561

P.O.D.-ID Well #2

All water level measurements must either be in 1) feet and inches, or 2) feet and decimal fractions. (Circle one)

OVWRD 10/50



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 28, 2003

Thomas G. Strand
Rt. 1 Box 53
Terrebonne, OR 97760

With regard to the pump test requirements for the following well and its associated water rights:

APP. #: G -12177 PERMIT #: G -12561 POD-ID: 37467

The Water Resources Department has reviewed and **accepted the pump test results you have submitted**. The Department requires no further testing of this well at this time. However, you will be required to either submit a static water level measurement or perform another pump test of the well on or about the ten-year anniversary of the test you conducted. I apologize for the delay in responding, but the test was only recently brought to the attention of the appropriate staff.

If your permit or certificate includes conditions requiring annual static water level measurements, and/or annual water use reporting, **please continue to make and report these measurements** unless otherwise instructed in writing by a representative of the Department. Providing this information assures compliance with the conditions of your permit and assists the Department in managing this valuable resource.

If the owner of this well has additional wells that require pump testing, a multiple well exemption may be possible if the following criteria are met. The tested well and the well(s) to be exempted need to be within a five mile radius of each other and must derive water from a common aquifer. The permittee must submit a written request for the exemption, including copies of the well logs or other pertinent information regarding the aquifer penetrated.

We appreciate your cooperation with this program. If you have any questions, please contact me at (503) 378-8455 ext. 207.

Sincerely,

Michael J. Zwart
Hydrogeologist

cc: Water Rights Section



Oregon Water Resources Department
PUMP TEST COVER SHEET

RECEIVED

SEP 27 1999

WATER RESOURCES DEPT.
SALEM, OREGON



Well Owner:

Name Thomas G. Strand
Address Rt. 1 Box 53
City, State, Zip Terrebonne, OR 97760
County Crook Co.

Well Location:

Township 14 S (N or S), Range 14 E (E or W)
Section 8 1/4, 1/4, 1/4 SW, NW, SW
Well Depth 240' Date Drilled 5/20/88
Owner's Well No. (if any) Well #1
POD-ID _____

Water Right Information:

Application No. G-12177 Permit No. G-12561 Certificate No. _____
Is this well used for more than one water right? N (Y/N) If Yes, fill out numbers below:
App. No. _____ Permit No. _____ Cert. No. _____
App. No. _____ Permit No. _____ Cert. No. _____

Pump Test:

Test conducted by Martin Gyrogyfalvy Well Owner? N (Y/N)
Company Tye Engineering & Surveying, Inc.
Address 725 NW Hill St. Date of Test 9/22/99
City, State, Zip Bend, OR 97701

Method of Discharge Measurement 4" Meter (M^crometer)
Method of Water Level Measurement electrode
Depth of Air Line (if used) _____
Pump Type (Turbine, Submersible, etc.) 25 HP Submersible
Was pump test conducted during normal use of the well no (Y/N)

Description of point from which water level was measured Top of casing
Is measuring point above or below ground level? Above by 1 ft.
Distance between measuring point and ground level (correction factor) 1 ft.

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? No (Y/N) 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? Y (Y/N)
If yes, give approximate distance from the well and approximate elevation difference between the surface water and the well head: Approximate distance 10 feet to irrigation canal
Approximate elevation difference 7 feet
Is well elevation above or below the surface water body? Above

Static Water Level Measurements: (Three measurements at least 20 minutes apart are required in the hour before pumping begins):

Time: <u>9:50 a.m.</u>	Depth to Water: <u>99 ft.</u>	(ft/in)
Time: <u>10:10 a.m.</u>	Depth to Water: <u>99.0 ft.</u>	(ft/in)
Time: <u>10:30 a.m.</u>	Depth to Water: <u>99.0 ft.</u>	(ft/in)

Discharge Measurements: (A discharge measurement is required at the start of pumping and once an hour during the test):

Time: <u>10:30 a.m.</u>	Discharge Rate: <u>390</u>	(gpm)
Time: <u>11:30 a.m.</u>	Discharge Rate: <u>375</u>	(gpm)
Time: <u>12:30 p.m.</u>	Discharge Rate: <u>373</u>	(gpm)
Time: <u>1:30 p.m.</u>	Discharge Rate: <u>375</u>	(gpm)
Time: <u>2:30 p.m.</u>	Discharge Rate: <u>374</u>	(gpm)

Pump turned on: Date: 9/22/99 Time: 10:30 a.m. Pump turned off: Date: 9/22/99 Time: 2:30 p.m.
Total pumping time: 4 hours, 0 minutes.

Note: Well must be idle for at least 16 hours prior to the test.

OWRD 11:50

TOTAL PUMP

PUMP TEST DATA SHEET

Page 1 of 1APPLICATION NO. G-12177PERMIT NO. G-12561P.O.D-ID Well #1

All water level measurements must either be in 1) feet and inches, or 2) feet and decimal fractions. (Circle one)

DRAWDOWN DATA

RECOVERY DATA

DATE	TIME	TIME SINCE PUMP STARTED (minutes)	DEPTH TO WATER FROM MEASURING PT	CORRECTION FACTOR	DEPTH TO WATER FROM GROUND LEVEL	COMMENTS Flow Meter (gal.)	DATE	TIME	TIME SINCE PUMP STOPPED (minutes)	DEPTH TO WATER FROM MEASURING PT	CORRECTION FACTOR	DEPTH TO WATER FROM GROUND LEVEL	COMMENTS
9/22/99	10:30	0	100	-1 ft.	99	75646300	9/22/99	2:30	0	141.8	-1 ft.	140.8	
	10:32	0:02	131		130	647600		2:32	0:02	110		109	
	10:34	0:04	132		131	648300		2:34	0:04	102.8		101.8	
		0:06	132.6		131.6	649100		2:36	0:06	101.9		100.9	
		0:08	133.6		132.6	649900		2:38	0:08	101.5		100.5	
		0:10	136.7		135.2	650700		2:40	0:10	101.3		100.3	
		0:15	139.4		138.4	659500 / 710 gal.							
		0:20	140.0		139.0	654400							
		0:25	140.3		139.3	654300							
	11:00	0:30	140.5		139.5	658100							
		0:45	141.0		140.0	663800							
	11:30	1:00	141.2		140.2	669400 / 375 gal.							
		1:15	141.4		140.4	675000							
	12:00 p.m.	1:30	141.5		140.5	680500							
		1:45	141.6		140.6	686300							
		2:00	141.6		140.6	691800 / 375 gal.							
		2:15	141.7		140.7								
	1:00 p.m.	2:30	141.7		140.7								
		2:45	141.7		140.7								
	1:30 p.m.	3:00	141.8		140.8	714300 / 375 gal.							
		3:15	141.8		140.8								
		3:30	141.8		140.8								
		3:45	141.8		140.8								
	2:30	4:00	141.8		140.8	736750 / 375 gal.							

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WATER RESOURCES DEPT.
SALEM, OREGON



WELL NO. 1
PUMP NO. 1
Oregon Water Resources Department
PUMP TEST COVER SHEET

CROO 717



Well Owner:

Name Thomas G. Strand
Address Rt. 1 Box 53
City, State, Zip Terrebonne, OR 97760
County Crook Co.

Well Location:

Township 14 S (N or S), Range 14 E (E or W)
Section 8 1/4, 1/4, 1/4 SW, NW, SW
Well Depth 240' Date Drilled 5/20/88
Owner's Well No. (if any) Well #1
POD-ID _____

Water Right Information:

Application No. G-12177 Permit No. G-12561 Certificate No. _____
Is this well used for more than one water right? N (Y/N) If Yes, fill out numbers below:
App. No. _____ Permit No. _____ Cert. No. _____
App. No. _____ Permit No. _____ Cert. No. _____

Pump Test:

Test conducted by Martin Gyorgyfalvy Well Owner? N (Y/N)
Company Tye Engineering & Surveying, Inc.
Address 725 NW Hill St. Date of Test 9/22/99
City, State, Zip Bend, OR 97701

Method of Discharge Measurement 4" Meter (Mcrometer)
Method of Water Level Measurement electrode
Depth of Air Line (if used) _____
Pump Type (Turbine, Submersible, etc.) 25 HP Submersible
Was pump test conducted during normal use of the well no (Y/N)

Description of point from which water level was measured Top of casing
Is measuring point above or below ground level? Above by 1 ft.
Distance between measuring point and ground level (correction factor) 1 ft.

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? No (Y/N) 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? Y (Y/N)
If yes, give approximate distance from the well and approximate elevation difference between the surface water and the well head: Approximate distance 10 feet to irrigation canal
Approximate elevation difference 7 feet
Is well elevation above or below the surface water body? Above

Static Water Level Measurements: (Three measurements at least 20 minutes apart are required in the hour before pumping begins):

Time: <u>9:50 a.m.</u>	Depth to Water: <u>99 ft.</u>	(11/in)
Time: <u>10:10 a.m.</u>	Depth to Water: <u>99.0 ft.</u>	(11/in)
Time: <u>10:30 a.m.</u>	Depth to Water: <u>99.0 ft.</u>	(11/in)

Discharge Measurements: (A discharge measurement is required at the start of pumping and once an hour during the test):

Time: <u>10:30 a.m.</u>	Discharge Rate: <u>390</u>	(gpm)
Time: <u>11:30 a.m.</u>	Discharge Rate: <u>375</u>	(gpm)
Time: <u>12:30 p.m.</u>	Discharge Rate: <u>373</u>	(gpm)
Time: <u>1:30 p.m.</u>	Discharge Rate: <u>375</u>	(gpm)
Time: <u>2:30 p.m.</u>	Discharge Rate: <u>374</u>	(gpm)

Pump turned on: Date: 9/22/99 Time: 10:30 a.m. Pump turned off: Date: 9/22/99 Time: 2:30 p.m.
Total pumping time: 4 hours, 0 minutes.

Note: Well must be idle for at least 16 hours prior to the test.

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WATER RESOURCES DEPT
SALEM, OREGON

PUMP TEST DATA SHEET

APPLICATION NO. G-12177PERMIT NO. G-12561P.O.D.-ID Well #1

All water level measurements must either be in 1) feet and inches, or 2) feet and decimal fractions. (Circle one)

DRAWDOWN DATA							RECOVERY DATA						
DATE	TIME	TIME SINCE PUMP STARTED (minutes)	DEPTH TO WATER FROM MEASURING PT	CORRECTION FACTOR	DEPTH TO WATER FROM GROUND LEVEL	COMMENTS Flow Meter (gal.)	DATE	TIME	TIME SINCE PUMP STOPPED (minutes)	DEPTH TO WATER FROM MEASURING PT	CORRECTION FACTOR	DEPTH TO WATER FROM GROUND LEVEL	COMMENTS
9/22/04	10:30	0	100	-14.1	99	65640000	9/22/04	2:30	0	141.5	-14.1	140.8	
	10:32	0:02	131		130	647600		2:32	0:02	110		109	
	10:34	0:04	132		131	648300		2:34	0:04	102.8		101.9	
		0:06	132.6		131.6	649100		2:36	0:06	101.9		100.9	
		0:08	133.6		132.6	649900		2:38	0:08	101.5		100.5	
		0:10	134.6		133.6	650700		2:40	0:10	101.3		100.3	
		0:12	135.6		134.6	651500							
		0:14	136.6		135.6	652300							
		0:16	137.6		136.6	653100							
		0:18	138.6		137.6	653900							
		0:20	139.6		138.6	654700							
		0:22	140.6		139.6	655500							
		0:24	141.6		140.6	656300							
11:00	0:30	0:30	142.5		140.5	657100							
		0:42	141.0		140.0	657900							
11:30	1:00	1:00	141.2		140.2	658700							
		1:15	141.4		140.4	659500							
12:00	1:30	1:30	141.5		140.5	660300							
		1:45	141.6		140.6	661100							
		2:00	141.6		140.6	661900							
		2:15	141.7		140.7	662700							
1:00	2:30	2:30	141.7		140.7	663500							
		2:45	141.7		140.7	664300							
1:30	3:00	3:00	141.8		140.8	665100							
		3:15	141.8		140.8	665900							
		3:30	141.8		140.8	666700							
		3:45	141.8		140.8	667500							
2:30	4:00	4:00	141.8		140.8	668300							

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SEP 29 2005

WATER RESOURCES DEPT
SALEM OREGON



WELL NO. 2
PUMP # 4
Oregon Water Resources Department
PUMP TEST COVER SHEET

RECEIVED

SEP 29 2005



Well Owner:

Name Thomas G. Strand
Address Rt. 1 Box 53
City, State, Zip Terrebonne, OR 97760
County Crook

Well Location:

Township 14 S (N or S), Range 14 E (E or W)
Section 8 1/4, 1/4, 1/4 SW, SW, NW
Well Depth _____ Date Drilled _____
Owner's Well No. (if any) Well #2
POD-ID _____

WATER RESOURCES DEPT
SALEM, OREGON

Water Right Information:

Application No. G-12177 Permit No. G-12561 Certificate No. _____
Is this well used for more than one water right? (Y/N) If Yes, fill out numbers below:
App. No. _____ Permit No. _____ Cert. No. _____
App. No. _____ Permit No. _____ Cert. No. _____

Pump Test:

Test conducted by Martin Gyorgyfalvy Well Owner? N (Y/N)
Company Iye Engineering & Surveying
Address 725 NW Hill St. Date of Test 9/22/99
City, State, Zip Bend, OR 97701

Method of Discharge Measurement 4" Meter (M² Crometer)
Method of Water Level Measurement electrode
Depth of Air Line (if used) _____
Pump Type (Turbine, Submersible, etc.) 15 HP Submersible
Was pump test conducted during normal use of the well no (Y/N)

Description of point from which water level was measured Top of Casing
Is measuring point above or below ground level? Above
Distance between measuring point and ground level (correction factor) 1 ft.

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? No (Y/N) 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? Y (Y/N)
If yes, give approximate distance from the well and approximate elevation difference between the surface water and the well head: Approximate distance 40 feet to irrigation canal
Approximate elevation difference 8 feet
Is well elevation above or below the surface water body? Above

Static Water Level Measurements: (Three measurements at least 20 minutes apart are required in the hour before pumping begins):

Time: <u>12:48 p.m.</u>	Depth to Water: <u>166.7 ft.</u>	(ft/in)
Time: <u>1:28 p.m.</u>	Depth to Water: <u>166.7 ft.</u>	(ft/in)
Time: <u>1:48 p.m.</u>	Depth to Water: <u>166.7 ft.</u>	(ft/in)

Discharge Measurements: (A discharge measurement is required at the start of pumping and once an hour during the test):

Time: <u>1:48 p.m.</u>	Discharge Rate: <u>160</u>	(gpm)
Time: <u>2:51 p.m.</u>	Discharge Rate: <u>163</u>	(gpm)
Time: <u>3:51 p.m.</u>	Discharge Rate: <u>161</u>	(gpm)
Time: _____	Discharge Rate: _____	(gpm)
Time: _____	Discharge Rate: _____	(gpm)

Pump turned on: Date: 9/22/99 Time: 1:48 p.m. Pump turned off: Date: 9/22/99 Time: 3:51 p.m.
Total pumping time: 2 hours, 02 minutes.

Note: Well must be idle for at least 16 hours prior to the test.

PUMP TEST DATA SHEET

APPLICATION NO. G-12177

PERMIT NO. G-12561

P.O.D.-ID will # 2

All water level measurements must either be in 1) feet and inches, or 2) feet and decimal fractions. (Circle one)

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SEP 29 2005

WATER RESOURCES DEPT
SALEM OREGON



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

Request for Assignment

If for multiple rights, a separate form and fee for each right will be required.

I, Northwest Farm Credit Services, ACA

(Name of Applicant / Permit / Transfer Holder / License Holder / GR Certificate of Registration)

PO Box 607

Redmond

Oregon, 97756

541-504-3500

(Mailing Address)

(City)

(State)

(Zip)

(Phone #)

☒ hereby assign all my interest in and to application/permit/transfer/license/GR Certificate of Registration;

☐ hereby assign all my interest in and to a portion of application/permit/transfer/license/GR Certificate of Registration; (You must include a map showing the portion of the application/permit/transfer/license/GR Certificate of Registration to be assigned.)

☐ hereby assign a portion of my interest in and to the entire application/permit/transfer/license/GR Certificate of Registration:

Application # G-12177

; Permit # G-12561

; Transfer # _____

-OR-

License # _____

; GR Statement # _____

; GR Certificate of Registration # _____

As filed in the office of the Water Resources Director, to:

Thomas G Strand

(Name of New Owner)

18880 NW Lone Pine Lane

Terrebonne Oregon, 97760

541-584-5747

(Mailing Address)

(City)

(State)

(Zip)

(Phone #)

Note: If there are other owners of the property described in the Application, Permit, Transfer, License, or GR Certificate of Registration, you must provide a list of all other owners' names and mailing addresses and attach it to this form.

I hereby certify that I have notified all other owners of the property described in this Application, Permit, Transfer, License, or GR Certificate of Registration of this Request for Assignment

Witness my hand this First day of February, 20 16.

Applicant/Permit Holder Northwest Farm Credit Services, ACA by [Signature]

Applicant/Permit Holder _____

DO NOT WRITE IN THIS BOX

This certifies assignment and record change at Oregon Water Resources Department effective 8:00 a.m. on date of receipt at Salem, Oregon. Fee receipt # 116912
For Director by Jerry Sauter, Program Analyst in Water Rights Division [Signature]

Last updated: July 19, 2013

Request for Assignment

The completed "Request for Assignment" form **must** be submitted to the Department along with the recording fee of \$85.

RECEIVED BY OWRD

FEB 12 2016

WR

SALEM, OR

9/12/16
[Signature]



Oregon

Kate Brown, Governor

Water Resources Department

North Mall Office Building

725 Summer St NE, Suite A

Salem, OR 97301

Phone (503) 986-0900

Fax (503) 986-0904

www.wrd.state.or.us

February 23, 2016

Northwest Farm Credit Services
P.O. Box 607
Redmond, Oregon 97756

Reference: Application G-12177, Permit G-12561

The assignment from Northwest Farm Credit Services, ACA to Thomas G. Strand has been recorded in the records of the Water Resources Department.

The Departments records will now show Thomas G. Strand as the permit holder of record.

Our records have been changed accordingly and the original request is enclosed. Receipt number 118912 covering the recording fee is also enclosed.

A permit is not a perfected water right, and has conditions and timelines that must be satisfied prior to a Certificate of Water Right being issued. Please review the permit to be familiar with the conditions and timelines contained in the permit.

Sincerely,

Jerry Sauter
Water Rights Program Analyst
Water Right Services Division

Enclosure: Receipt 118912

cc: Watermaster 11
Thomas G. Strand
Data Center, OWRD (cover letter & request)
Hydrographics
File

JOYE Jessica L

From: NICHOLS Adrienne F
Sent: Thursday, December 31, 2015 9:50 AM
To: JOYE Jessica L
Subject: RE: Pump test Approval for App G-12177 Permit G-12561
Attachments: App G-12177 Approval Letter Well 1.jpeg

Hello Jessica,

I have attached the approval letter for the pump test on Well 1, CROO 717. I don't have anything on record as being submitted for Well 2. If the land owner submits a multiple-well exemption request, we might be able to grant the exemption on Well 2 since they are within a 5 mile radius from each other and are owned by the same land owner. The only other criteria I would have to check is if they are in the same aquifer, which I would talk to the hydrogeologist for that area to make the determination. Let me know if you have any questions.

Happy New Year!

Adrienne F. Nichols
Groundwater Section Assistant
Oregon Water Resources Department
725 Summer St. NE, Suite A
Salem, OR 97301-1271
adrienne.f.nichols@wrdd.state.or.us

From: JOYE Jessica L
Sent: Wednesday, December 30, 2015 8:13 AM
To: NICHOLS Adrienne F
Subject: Pump test Approval for App G-12177 Permit G-12561

Good Morning Adrienne-

I'm reviewing the above file for Certificate issuance. I cannot locate the pump test approval for Well 1 (CROO 717) and Well 2 (CROO 718) in the file. Could you please inform me on whether both wells have been approved or exempted for App G-12177?

Thank you-

Jessica L Joye | Certificate Specialist

Water Resources Department | 725 Summer St. NE, Suite A | Salem, Oregon 97301
Ph: 503 986-0814 | Fax: 503 986-0901
Email: Jessica.L.Joye@wrdd.state.or.us | Web: <http://www.wrdd.state.or.us>

FPO/5-1-03 SLB

Application No. **G12177**
Permit No. **G12561**

7/16/90 **ASSIGNED**

Name **Thomas G. Strand**

Address **Route 1, Box 53, Terrebonne, OR 97760**

Assigned **Northwest Farm Credit Sys. ACA + Thomas G. Strand**

Address **P.O. Box 607, Redmond, OR 97756, Rt 1 Box 53, Terrebonne OR 97760**

Beginning construction **JUL**

Completion of construction **OCT 1 1998**

Extended to **OCT 1 1999**

Complete application of water

Extended to



G12177
TYE ENGINEERING & SURVEYING, INC.

725 NW Hill, Bend, Oregon 97701 • (541) 389-6959 • Fax (541) 385-1341

September 24, 1999

Dallas Miller
Water Resources Dept.
3850 N.E. Portland Rd.
Salem, OR 97310

Re: Thomas Strand

Dear Mr. Miller:

We are sending you a Final Proof Map, well tests for wells #1 and #2, and a Site Report for Claim of Beneficial Use per the requirements of permit # G12561 for Thomas Strand. If you need any additional information, please call my office at (541) 389-6959.

Sincerely,

Susan Penner

RECEIVED

SEP 27 1999

WATER RESOURCES DEPT.
SALEM, OREGON

G-12177

NW FARMS CREDIT SERVICES ACA
PO BOX 607
REDMOND OR 97756

G-12177

THOMAS G STRAND
MARY FLITNER- DANIEL FLITNER
FOUR LAZY F RANCH LLC
18880 NW LONE PINE LN
TERREBONE OR 97760

OREGON SECRETARY OF STATE
► Corporation Division

HOME

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Business Name Search

New Search		Business Entity Data				01-20-2016 09:18
Registry Nbr	Entity Type	Entity Status	Jurisdiction	Registry Date	Next Renewal Date	Renewal Due?
817542-94	DLLC	ACT	OREGON	12-05-2011	12-05-2016	
Entity Name FOUR LAZY F RANCH LLC						
Foreign Name						

New Search		Associated Names			
Type	PPB	PRINCIPAL PLACE OF BUSINESS			
Addr 1	18880 NW LONE PINE LN				
Addr 2					
CSZ	TERREBONNE	OR	97760	Country	UNITED STATES OF AMERICA

Please click [here](#) for general information about registered agents and service of process.

Type	AGT	REGISTERED AGENT	Start Date	12-05-2011	Resign Date	
Name	MARY	FLITNER				
Addr 1	18880 NORTHWEST LONE PINE LANE					
Addr 2						
CSZ	TERREBONNE	OR	97760	Country	UNITED STATES OF AMERICA	



Type	MEM	MEMBER		Resign Date	
Name	MARY	FLITNER			
Addr 1	18880 NORTHWEST LONE PINE LANE				
Addr 2					
CSZ	TERREBONNE	OR	97760	Country	UNITED STATES OF AMERICA

Type	MEM	MEMBER		Resign Date	
Name	DANIEL	FLITNER			
Addr 1	18880 NORTHWEST LONE PINE LANE				
Addr 2					

CSZ	TERREBONNE	OR	97760	Country	UNITED STATES OF AMERICA
------------	------------	----	-------	----------------	--------------------------

New Search		Name History			
Business Entity Name		Name Type	Name Status	Start Date	End Date
FOUR LAZY F RANCH LLC		EN	CUR	12-05-2011	

Please read before ordering Copies.

New Search		Summary History				
Image Available	Action	Transaction Date	Effective Date	Status	Name/Agent Change	Dissolved By
	ANNUAL REPORT PAYMENT	11-10-2015		SYS		
	ANNUAL REPORT PAYMENT	12-08-2014		SYS		
	ANNUAL REPORT PAYMENT	11-01-2013		SYS		
	AMENDED ANNUAL REPORT	11-20-2012		FI		
	ARTICLES OF ORGANIZATION	12-05-2011		FI	Agent	

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For comments or suggestions regarding the operation of this site,
 please contact : corporation.division@state.or.us

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MEMO – 2014-2015 Certificate Project Proof to Satisfaction (Aug 7, 2014)

Application # <u>G-12177</u>	Permit # <u>G-12561</u>	Transfer #
WRD Reviewer <u>Jessica Joye</u>	Date <u>6-1-15</u>	
WRD Peer Reviewer <u>Mary Bjor E</u>	Date <u>1-14-16</u>	

Research

- ☒ Organize file in chronological order
- ☒ Pull CBU Report & Map(s), Application Map, relevant Permit, Certificate, or Transfer Order, most recent Assignments, Extension Orders, SWL Measurements, Fish Screen Certification Documents, Water Use Reports & Pump Tests
- ☒ Search for Water Right Location using Interactive Mapper. Identify Tax Lots & check for Area of Interest (AOI)
- ☒ Water Organization identified using AOI? ☒ No ☐ Yes
If "Yes" cc: _____ & Add to Mailing List
- ☒ Print Tax Lot Map from ormap.net for the original Place of Use, and confirm Current Ownership & Address with County Assessor 141405 0400; 141408 0300.
If there is a new owner, Add to Mailing List, including the owner(s) name & tax lot number
- ☒ Print Platcard & check for Place of Use Conflict? ☒ No ☐ Yes
If "Yes", provide copy of certificate & relevant map
- ☒ Print BLM Cadastral Survey
- ☒ Does Claim Map identify correct DLC, Gov't Lots, QQ's? ☐ No ☒ Yes
If "No", either _____ WRD amend map OR _____ prepare Order of Certification

Reviewing Claim

Have conditions on relevant permit, certificate, or transfer order been complied with? Yes, No, OR N/A

- N/A Fish Conditions
- ☒ YES Meter/measuring device (9/1998)
- ☒ N/A Water Use Reporting
- ☒ NO Pump Test (post December 19, 1988) * Well #1 (CR00 717) Approved 2.28.03
- ☒ N/A Other Conditions _____
- ☒ N/A SWL
- ☒ YES C-Date 10.1.04 EXT
- ☒ YES Run Capacity Calculator and Print Findings (for pump, sprinklers, pipes, ditches, as appropriate)
Pump 1 (Well 1) = 0.85 CFS
Pump 2 (Well 2) = 0.31 CFS
See calc sheet

Well #2 (CR00 718)
NOT RECEIVED

NOTES:

A-Date - 10.1.98 (7.8.96)

C-Date - 10.1.99 (10.1.04)

↳ 9.25.98 (Form C-Date)

Well #1 - CR00 717 - Pump test Approved (2.28.03)

Well #2 - CR00 718 - P. Test NOT received OR EXEMPT REQUEST NOT REC'D.

Determination

___ I've determined that the permit/transfer was fully developed as authorized and that a **FINAL** Certificate should be issued.

☒ I've determined that the permit/transfer was not fully developed as authorized and that a **PROPOSED** Certificate should be issued. A proposed Certificate should be issued for the following reason(s):

A variation in dispersal of IR acres from QQ compared to permit:

____ I've determined that beneficial use was NOT made within the terms and conditions and that a **Proposed Order of Certification** (denial) should be issued. A proposed Order of Certification should be issued for the following reason(s):

Pump test letter, ~~DR~~ DRAFT CERT. CREATED
Processing

Stamp PROPOSED or Assign CERT# _____ or ORDER OF CERTIFICATION (circle one)

____ Draft Certificates or Proposed Order of Certifications are available in the Application directory.

— Prepare Mailing List. Include Applicant(s); Receiving Landowner(s); Current Owner(s); Water Organizations; CWRE. Indicate records to be marked.

___ Record marking: App _____ Permit _____ Cert _____
 App _____ Permit _____ Cert _____
 App _____ Permit _____ Cert _____
 App _____ Permit _____ Cert _____

NOTES:

County:
Taxlot:
Owner1:
Owner2:
Owner Address:
Site Address:
Acres:

County:
Taxlot:
Owner1:
Owner2:

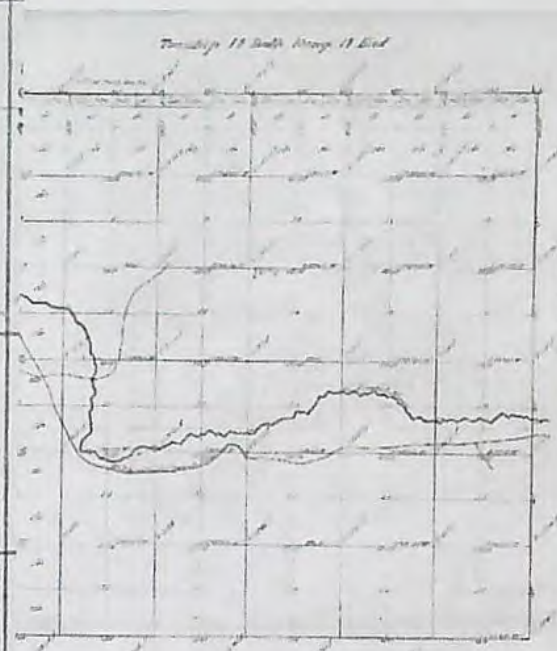
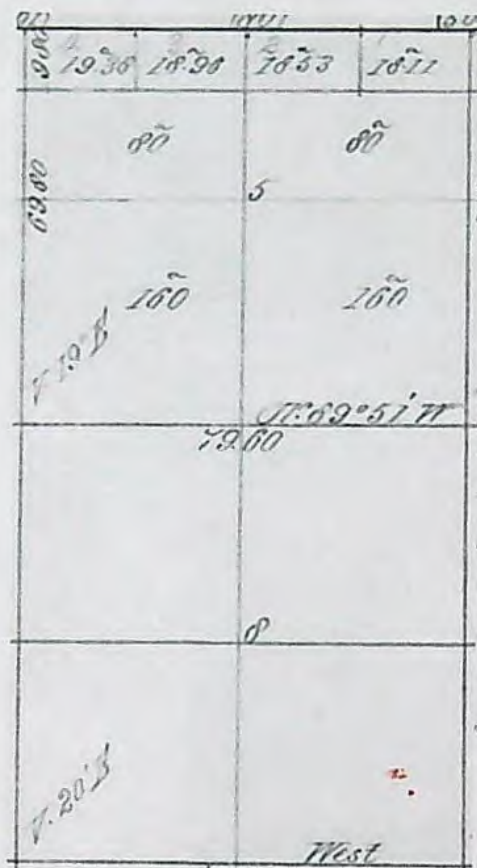
Creek:
1414050
FOUR LA

County:
Taxlot:
Owner1:
Owner2:
Owner Address:
Site Address:

Maptaxlot: 1414080005300
 Property Information: [Detailed information](#)
 Account: 305
 Tax payer: FOUR LAZY F RANCH LLC
 Mailing Address: 10800 NW LONE PINE LN, TERREBONNE, OR 97760
 Subdivision:

Crook
1414080000300
FOUR LAZY F RANCH LLC
18550 NW LONE PINE LN TERREBONNE OR 97760
Null
26.2

CROOK
 141405000400
 FOUR LAZY F RANCH LLC
 18880 NW LONE PINE LN TERREBONNE OR 97760
 Null



G-12177

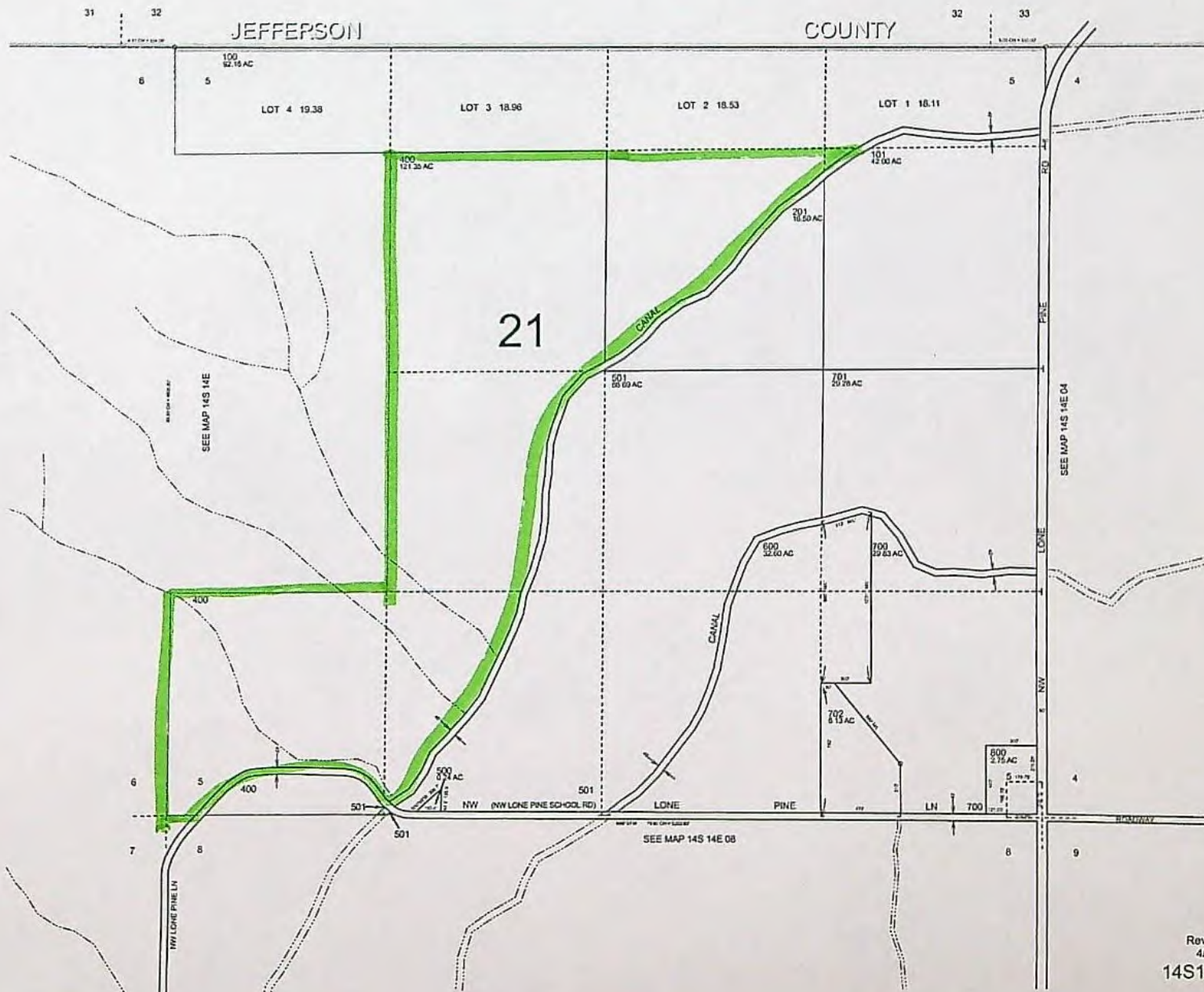
G-12561

THIS MAP WAS PREPARED FOR
ASSESSMENT PURPOSE ONLY

0 200 400 600 Feet

SECTION 5 T.14S. R.14E. W.M.
CROOK COUNTY
1" = 400'

14S14E05

CANCELLED:
200
300

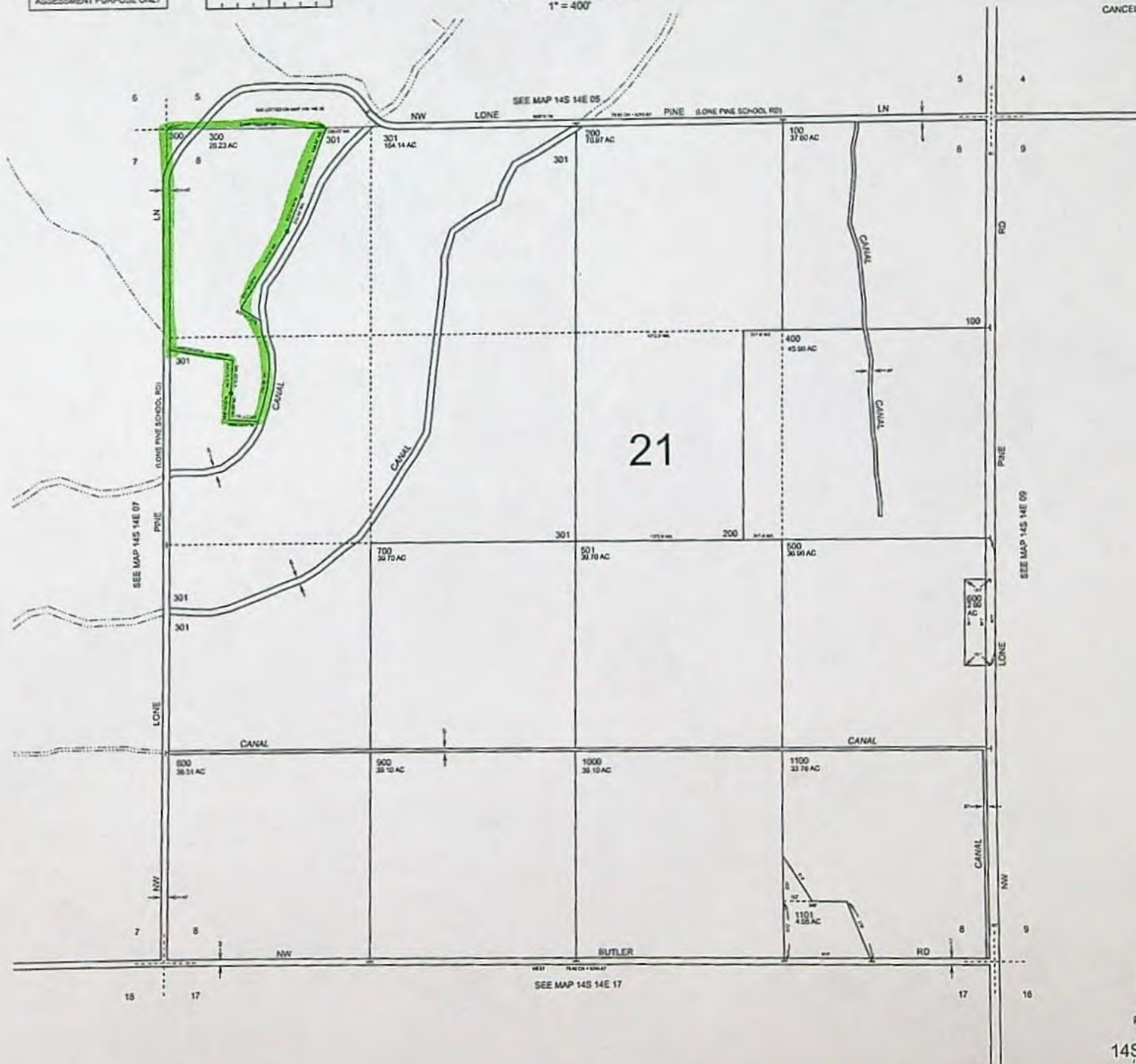
THIS MAP WAS PREPARED FOR
ASSESSMENT PURPOSE ONLY

0 200 400 600 Feet

SECTION 8 T.14S. R.14E. W.M.
CROOK COUNTY
1" = 400'

14S14E08

CANCELLED:



Revised: JK
4/28/2010
14S14E08

Water Rights Platcard Report

Meridian: Township: Range: Section: Records per Page: Search

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Water Right	Changing Xfers	Priority	Use	Use Status	DLC	Gov't Lot	QQ(40): Q(160):	NE NE	NW NE	SW NE	SE NE	NE NW	NW NW	SW NW	SE NW	NE SW	NW SW	SW SW	SE SW	NE SE	NW SE	SW SE	SE SE	Unknown QQ
Select Permit: G 12367 CN Additional Info: A J DAIRY LLC App: G12176 Permit: G12367	T11551	7/16/1990	IRRIGATION	CN						16.3														
Select Permit: G 12367 CN Additional Info: A J DAIRY LLC App: G12176 Permit: G12367	T11551	7/16/1990	IRRIGATION	CN	1			6.6																
Select Permit: G 12367 CN Additional Info: A J DAIRY LLC App: G12176 Permit: G12367	T11551	7/16/1990	IRRIGATION	CN	2			20.9																
Select Permit: G 12367 CN Additional Info: A J DAIRY LLC App: G12176 Permit: G12367	T11551	7/16/1990	IRRIGATION	CN	3																			16.2
Select Permit: G 12561 * Additional Info: THOMAS STRAND App: G12177 Permit: G12561	T7265	7/16/1990	IRRIGATION												20	23.5		28.5	14					
Select Cert:29055 OR CN Additional Info: COUNTY OF CROOK IMPROVEMENT DISTRICT 1 Decree: CROOKED RIVER Cert: 29055		10/31/1900	IRRIGATION	CN				2		17	39					9		24	39.1	40	39.4	38.5		
Select Cert:68740 CF CN Additional Info: CROOK COUNTY IMPROVEMENT DISTRICT NO 1 Decree: DESCHUTES RIVER (F) Cert: 68740		10/31/1900	IRRIGATION	CN						30.6	78					55.3		52.4	77.2	78.3	78	71.8		
Select Cert:68740 CF CN Additional Info: CROOK COUNTY IMPROVEMENT DISTRICT NO 1 Decree: DESCHUTES RIVER (F) Cert: 68740		10/31/1900	IRRIGATION	CN	1			4																
12345																								

Acreage Legend: 12.25 Regular acreage 12.25 Acreage is on a canceled right (12.25)

[12.25] Acreage has been suspended * Acreage is not specified

Acreage is part of a transfer and
has not been proven up on yet
(inchoate)

Water Rights Platcard Report

Meridian: Township: Range: Section: Records per Page: Search [Platcards Maps!](#) [Learn about](#) * [View Map](#)

Water Right	Changing Xfers	Priority	Use	Use Status	DLC	Gov't Lot	QQ(40): Q(160):	NE NE	NW NE	SW NE	SE NE	NE NW	NW NW	SW NW	SE NW	NE SW	NW SW	SW SW	SE SW	NE SE	NW SE	SW SE	SE SE	Unknown QQ
Select Cert: 72197 CF CR *	T9426, T9626, T10429, IL840, IL747, IL581, IL611, IL619, IL446, IL447, T11073, T10667, T9062, IL1188, T11424, T11581, T11582, T11769	10/31/1900 IRRIGATION								15.3	39					27.65			26.2	38.6	39.15	39	35.9	
Additional Info: CROOK COUNTY IMPROVEMENT DISTRICT 1 Decree: DESCHUTES RIVER (F) Cert: 72197	<i>underlying right for supplemental portion.</i>																							
Select Cert: 72197 CF CR *	T9426, T9626, T10429, IL840, IL747, IL581, IL611, IL619, IL446, IL447, T11073, T10667, T9062, IL1188, T11424, T11581, T11582, T11769	10/31/1900 IRRIGATION				1		2																
Additional Info: CROOK COUNTY IMPROVEMENT DISTRICT 1 Decree: DESCHUTES RIVER (F) Cert: 72197																								
Select Inchoate: T 9426 CF (ALT) WD		10/31/1900 IRRIGATION WD								(15.3)	(39)					(27.65)			(26.2)	(38.6)	(39.15)	(39)	(35.9)	
Additional Info: CROOK CO IMP DIST / BY COID Decree: DESCHUTES RIVER (F)																								
Select Inchoate: T 9426 CF (ALT) WD		10/31/1900 IRRIGATION WD				1		(2)																
Additional Info: CROOK CO IMP DIST / BY COID Decree: DESCHUTES RIVER (F)																								
Select Inchoate: T 7265 (EXC) WD		7/16/1990 IRRIGATION WD													(20)	(23.5)		(28.5)	(14)					
Additional Info: THOMAS STRAND App: G12177 Permit: G12561																								
Select Permit: G 17116 *		7/16/1990 IRRIGATION								16.3														
Additional Info: A J DAIRY LLC App: G12176 Permit: G17116																								

Water Right Platcard Report

[illegible]

Acreage Legend:	12.25 Regular acreage	12.25 Acreage is on a canceled right	(12.25) Acreage is part of a transfer and has not been proven up on yet (Inchoate)	[12.25] Acreage has been suspended	* Acreage is not specified
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Water Rights Platcard Report

Meridian: Township: Range: Section: Records per Page: Search

Platcards Maps!
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Water Right		Changing Xfers	Priority	Use	Use Status	DLC	Gov't Lot	QQ(40): Q(160):	NE NE	NW NE	SW NE	SE NE	NE NW	NW NW	SW NW	SE NW	NE SW	NW SW	SW SW	SE SW	NE SE	NW SE	SW SE	SE SE	Unknown QQ	
Select	Permit: G 17116 *	7/16/1990 IRRIGATION						3																		16.2
<div>Additional Info: A J DAIRY LLC App: G12176 Permit: G17116</div>																										
Select	Cert:76714 OR CN	T9463, T9426, T9276, T9315, T9314, T9604, T9558, T9623, T9113, T8693, T9036, T9557, T9462, T9156, T9023, T9022, T9021, T9020, T9018, T9499, T9500, T9195, T9516, T9035, T9439, T9440, T9040, T9027, T9024, T9423, T9424, T9553, T9555, T9214, T9299, T9524, T9527, T9343, T9283, T9721, T9722, T9723, T9731, T9732, T9747, T9748, T9768, T9784, T9785, T9603, T9816, T9817, T9834,	2/28/1913	SUPPLEMENTAL CN IRRIGATION (Suppl'mtl)			15.3	39										27.65			26.2	38.6	39.15	39	35.9	
<div>Additional Info: CENTRAL OREGON IRRIGATION DISTRICT App: S13180 Permit: S23256 Cert: 76714</div> <div>NCR</div>																										

NCR

http://apps.wrd.state.or.us/apps/wr/wrinfo/wr_platcard.aspx?ddl_meridian=0&tb_township=14&ddl_township_char=0&tb_range=14&d... 6/2/2015

http://apps.wrd.state.or.us/apps/wr/wrinfo/wr_platcard.aspx?ddl_meridian=0&tb_township=14&ddl_township_char=0&tb_range=14&d... 6/2/2015

Water Right Platcard Report

Select Inchoate: T 9423 (DRO) WD

2/28/1913 SUPPLEMENTAL WD
IRRIGATION
(Suppl'mtl)

Additional Info:
CENTRAL OREGON IRRIGATION DISTRICT
App: S13180
Permit: S23256

		(15.2)	(39)				(27.65)			(26.2)	(38.6)	(39.15)	(39)	(35.9)	
--	--	--------	------	--	--	--	---------	--	--	--------	--------	---------	------	--------	--

1 2 3 4 5

Acreage Legend: 12.25 Regular
acreage

~~12.25~~ Acreage is on a
canceled right

(12.25) Acreage is
has not b
(inchoat

trans:
ip o

[12.25] Acreage has been
suspended

* Acreage is not
specified

Water Rights Platcard Report

Meridian: Township: Range: Section: Records per Page: Search

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Water Right	Changing Xfers	Priority	Use	Use Status	DLC	Gov't Lot	QQ(40): Q(160):	NE NE	NW NE	SW NE	SE NE	NE NW	NW NW	SW NW	SE NW	NE SW	NW SW	SW SW	SE SW	NE SE	NW SE	SW SE	SE SE	Unknown QD
Select Inchoate: T 9423 (DRO) WD Additional Info: CENTRAL OREGON IRRIGATION DISTRICT App: S13180 Permit: S23256		2/28/1913	SUPPLEMENTAL IRRIGATION (Suppl'mtl)	WD		1	(2)																	
Select Inchoate: T 9424 (DRO) WD Additional Info: CENTRAL OREGON IRRIGATION DISTRICT App: S13180		2/28/1913	SUPPLEMENTAL IRRIGATION (Suppl'mtl)	WD					(15.3)	(39)					(27.65)		(26.2)	(38.6)	(39.15)	(39)	(35.9)			
Select Inchoate: T 9424 (DRO) WD Additional Info: CENTRAL OREGON IRRIGATION DISTRICT App: S13180		2/28/1913	SUPPLEMENTAL IRRIGATION (Suppl'mtl)	WD		1	(2)																	
Select Inchoate: T 9553 (IS) WD Additional Info: BRIAN STEVENS App: S13180		2/28/1913	SUPPLEMENTAL IRRIGATION (Suppl'mtl)	WD					(15.3)	(39)					(27.65)		(26.2)	(38.6)	(39.15)	(39)	(35.9)			
Select Inchoate: T 9553 (IS) WD Additional Info: BRIAN STEVENS App: S13180		2/28/1913	SUPPLEMENTAL IRRIGATION (Suppl'mtl)	WD		1	(2)																	
Select Inchoate: T 9555 (IS) WD Additional Info: BRIAN STEVENS App: S13180 Permit: S23256		2/28/1913	SUPPLEMENTAL IRRIGATION (Suppl'mtl)	WD					(15.3)	(39)					(27.65)		(26.2)	(38.6)	(39.15)	(39)	(35.9)			
Select Inchoate: T 9555 (IS) WD Additional Info: BRIAN STEVENS App: S13180 Permit: S23256		2/28/1913	SUPPLEMENTAL IRRIGATION (Suppl'mtl)	WD		1	(2)																	
Select Inchoate: T 9214 (REG) WD Additional Info: CENTRAL OREGON IRRIGATION DISTRICT App: S13180		2/28/1913	SUPPLEMENTAL IRRIGATION (Suppl'mtl)	WD					(15.3)	(39)					(27.65)		(26.2)	(38.6)	(39.15)	(39)	(35.9)			

12345

Acreage Legend: 12.25 Regular acreage ~~12.25~~ Acreage is on a canceled right (12.25) Acreage is part of a transfer and has not been proven up on yet (inchoate) [12.25] Acreage has been suspended * Acreage is not specified

Water Rights Platcard Report

Meridian: Township: Range: Section: Records per Page: Search

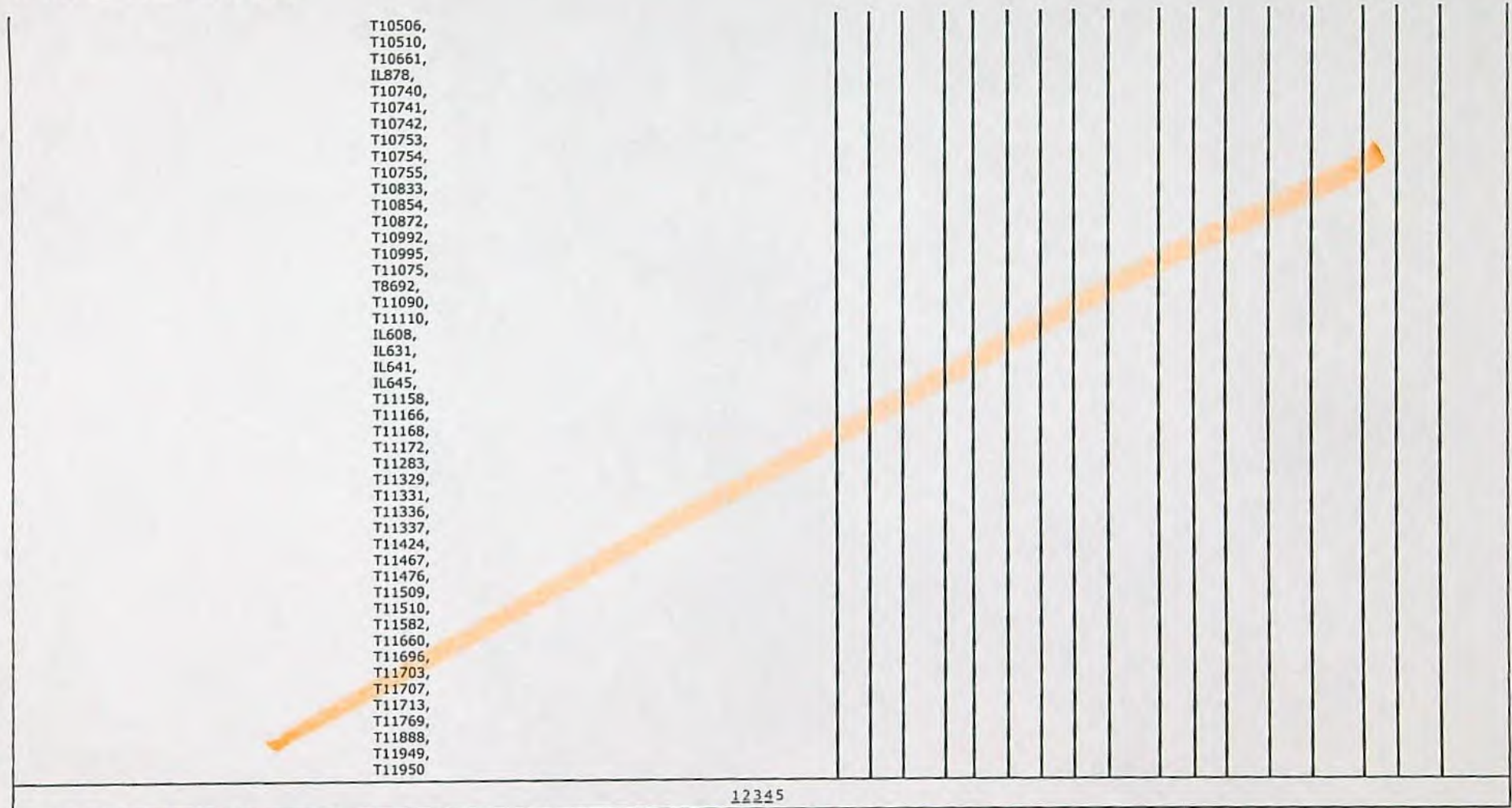
Platcards Maps!
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Water Right	Changing Xfers	Priority	Use	Use Status	DLC	Gov't Lot	QQ(40): Q(160):	NE NE	NW NE	SW NE	SE NE	NE NW	NW NW	SW NW	SE NW	NE SW	NW SW	SW SW	SE SW	NE SE	NW SE	SW SE	SE SE	Unknown QQ	
Select Inchoate: T 9214 (REG) WD		2/28/1913	SUPPLEMENTAL IRRIGATION (Suppl'mtl)	WD		1	(2)																		
Additional Info: CENTRAL OREGON IRRIGATION DISTRICT App: S13180																									
Select Cert:76714 CF *	T10390, T10389, T10429, IL651, IL654, IL675, IL677, IL678, IL679, IL772, IL773, IL495, IL496, IL516, IL517, IL518, IL519, IL520, IL521, IL522, IL523, IL524, IL525, IL526, IL527, IL528, IL529, IL532, IL539, IL543, IL546, IL549, IL567, IL568, IL569, IL570, IL571, IL581, IL584, IL599, IL600, IL611, IL619, IL626, IL627, IL632, IL633, IL635, IL636, IL637,	2/28/1913	SUPPLEMENTAL IRRIGATION (Suppl'mtl)							15.3	39					27.65		26.2	38.6	39.15	39	35.9			

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IL639,
IL640,
IL368,
IL369,
IL370,
IL372,
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IL878,
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T10992,

http://apps.wrd.state.or.us/apps/wr/wrinfo/wr_platcard.aspx?ddl_meridian=0&tb_township=14&ddl_township_char=0&tb_range=14&d... 6/2/2015

IL571,
IL581,
IL584,
IL599,
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IL611,
IL619,
IL626,
IL627,
IL632,
IL633,
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IL464,



1 2 3 4 5

Acreage Legend: 12.25 Regular acreage ~~12.25~~ Acreage is on a canceled right (12.25) Acreage is part of a transfer and has not been proven up on yet (inchoate) [12.25] Acreage has been suspended * Acreage is not specified

Water Rights Platcard Report

Meridian: Township: Range: Section: Records per Page:

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[illegible]

Acreage Legend:	12.25 Regular acreage	12.25 Acreage is on a canceled right	(12.25)	[12.25] Acreage has been suspended	* Acreage is not specified
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Acreage is part of a transfer and
has not been proven up on yet
(inchoate)

Water Rights Platcard Report

Meridian: Township: Range: Section: Records per Page: Search

Platcards Maps!
Learn about * View Map

Water Right	Changing Xfers	Priority	Use	Use Status	DLC	Gov't Lot	QQ(40): Q(160):	NE NE	NW NE	SW NE	SE NE	NE NW	NW NW	SE NW	NE SW	NW SW	SW SW	SE SW	NE SE	NW SE	SW SE	SE SE	Unknown QQ
Select Permit: G 11486 EX		4/27/1992	SUPPLEMENTAL EX IRRIGATION (Suppl'mtl)												40			40					
Additional Info: TED FEHRENBACHER App: G12892 Permit: G11486																							
Select Permit: G 12642 *			SUPPLEMENTAL IRRIGATION (Suppl'mtl)												39.2			38.2	39.1	38.8	38.1	39.5	
Additional Info: DEAN MILLS App: G12661 Permit: G12642																							
Select Cert:76714 OR CN	T9463, T9426, T9276, T9315, T9314, T9604, T9558, T9623, T9113, T8693, T9036, T9557, T9462, T9156, T9023, T9022, T9021, T9020, T9018, T9499, T9500, T9195, T9516, T9035, T9439, T9440, T9040, T9027, T9024, T9423, T9424, T9553, T9555, T9214, T9299, T9524, T9527, T9343, T9283, T9721, T9722, T9723, T9731, T9732, T9747, T9748, T9768, T9784, T9785, T9603, T9816, T9817, T9834, T9833,	2/28/1913	SUPPLEMENTAL CN IRRIGATION (Suppl'mtl)	38.5	38.2	38.7	37.6	38.6	33.4	38	37.2	39.2	38.2	38.5	38.2	39.1	38.8	38.1	39.5				
Additional Info: CENTRAL OREGON IRRIGATION DISTRICT App: S13180 Permit: S23256 Cert: 76714																							

Acreage Legend:	12.25 Regular acreage	12.25 Acreage is on a canceled right	(12.25) Acreage is part of a transfer and has not been proven up on yet (inchoate)	[12.25] Acreage has been suspended	* Acreage is not specified
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Water Rights Platcard Report

Meridian: Township: Range: Section: Records per Page: Search

Platcards Maps!
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Water Right	Changing Zfers	Priority	Use	Use Status	DLC	Gov't Lot	QQ(49): Q(160):	NE NE	NW NE	SW NE	SE NE	NE NW	NW NW	SW NW	SE NW	NE SW	NW SW	SW SW	SE SW	NE SE	NW SE	SW SE	SE SE	Unknown QQ
Select Inchoate: T 9555 (IS) WD Additional Info: BRIAN STEVENS App: S13180 Permit: S23256		2/28/1913	SUPPLEMENTAL IRRIGATION (Suppl'mtl)	WD				(38.5)	(38.2)	(38.7)	(37.6)	(38.6)	(13.4)	(28)	(37.2)	(39.2)	(38.2)	(38.5)	(38.2)	(39.1)	(38.8)	(38.1)	(39.5)	
Select Inchoate: T 9214 (REG) WD Additional Info: CENTRAL OREGON IRRIGATION DISTRICT App: S13180		2/28/1913	SUPPLEMENTAL IRRIGATION (Suppl'mtl)	WD				(38.5)	(38.2)	(38.7)	(37.6)	(38.6)	(13.4)	(28)	(37.2)	(39.2)	(38.2)	(38.5)	(38.2)	(39.1)	(38.8)	(38.1)	(39.5)	
NCR Select Cert: 76714 CF * Additional Info: CENTRAL OREGON IRRIGATION DISTRICT App: S13180 Permit: S23256 Cert: 76714	T10390, T10389, T10429, IL651, IL654, IL675, IL677, IL678, IL679, IL772, IL773, IL495, IL496, IL516, IL517, IL518, IL519, IL520, IL521, IL522, IL523, IL524, IL525, IL526, IL527, IL528, IL529, IL532, IL539, IL543, IL546, IL549, IL567, IL568, IL569, IL570, IL571, IL581, IL584, IL599, IL600, IL611, IL619, IL626, IL627, IL632, IL633, IL635, IL636, IL637, IL638, IL639, IL640, IL368, IL369,	2/28/1913	SUPPLEMENTAL IRRIGATION (Suppl'mtl)	WD				38.5	38.2	38.7	37.6	38.6	13.4	28	37.2	39.2	38.2	38.5	38.2	39.1	38.8	38.1	39.5	

IL370,
IL372,
IL373,
IL374,
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T11168,
T11172,
T11283,
T11329,
T11331,

[illegible]

Acreage Legend:	12.25 Regular acreage	12.25 Acreage is on a canceled right	(12.25) Acreage is part of a transfer and has not been proven up on yet (inchoate)	[12.25] Acreage has been suspended	* Acreage is not specified
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CROOK COUNTY IMPROVEMENT DISTRICT #1

Total Acres Irrigated:
2,263

LEADS:

1" = 1110'

Shaded Area

Date: Feb 21, 1968

Lead Area Shaded

19.25a

8.4a

7135, 8146,
7175, 8210,

130

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Well No. 1 → Upper Lone Pine Canal

Pump Capacity Calculator

using Department designed formula:

Well No. 1

Pump # 1

$(hp)(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$

Efficiency:

Centrifugal = 6.61

Turbine = 7.04

Data Entry (fill in underlined blanks)

HP = 30 ✓
Efficiency = 7.04 ✓
Lift = 327 ✓
PSI = 0 ✓

Results Calculated

$(hp)(\text{efficiency}) = 211.2$
Head based on psi = 0.0
Total dynamic head = 327.0
(head + lift)

Pump Capacity = 0.646 cubic feet per second

Claim = 380 gpm = 0.85 cfs ≥ 0.85 cfs ✓

Irrigates $(67^{\pm} \text{ ac})(1/80) = 0.85 \text{ cfs}$ ✓

Shared ground water with Upper Lone Pine Canal, and
Lone Pine IR. District

Ditch Capacity Calculator
using Manning's Formula

Data Entry (fill in underlined blanks)

Top Width = 6 feet
Bottom Width = 3 feet
Depth = 4 feet
Fall = 0 per 20 feet of distance
Grade = 0.0001, or 0.0%
Roughness Coefficient (n) = 0.028

Results calculated

Area of cross-section = 18 square feet
Wetted Perimeter = 11.544 feet
Hydraulic Radius = 1.559251
Velocity = 0.714 feet per second
Calculated Ditch Capacity = 12.8 cubic feet per second —

Claim - 7A-F (1A-F Ground water)

13.86 CFS

In speaking w/ G.C. It appears that a water exchange is not taking place, as the well (1) now pumps into canal (Upper) flows down to pump #2 + delivered to POU.

Type of Conduit and Description	Roughness Coefficient	
	Min.	Max
Pipe		
Cast Iron, Coated	0.01	0.014
Cast Iron, Uncoated	0.011	0.015
Wrought Iron, Galvanized	0.013	0.017
Wrought Iron, Black	0.012	0.015
Steel, Riveted and Spiral	0.013	0.017
Corrugated	0.021	0.0255
Wood Stave	0.01	0.014
Neat Cement Surface	0.01	0.013
Concrete	0.01	0.017
Vitrified Sewer Pipe	0.01	0.017
Clay, Common Drainage Tile	0.011	0.017
Lined Channels		
Metal, Smooth Semicircular	0.011	0.015
Metal, Corrugated	0.0228	0.0244
Wood, Planed	0.01	0.015
Wood, Unplaned	0.011	0.015
Neat Cement-Lined	0.01	0.013
Concrete	0.012	0.018
Cement Rubble	0.017	0.03
Vegetated, Small Channels, Shallow Depths		
Bermuda Grass; Long - 13", Green	0.042	
Bermuda Grass; Long - 13", Dormant	0.035	
Bermuda Grass; Short - 3", Green	0.034	
Bermuda Grass; Short - 3", Dormant	0.034	
Unlined Channels		
Earth; Straight and Uniform	0.017	0.025
Dredged	0.025	0.033
Winding and Sluggish	0.0225	0.03
Stoney Bed, Weeds on Bank	0.025	0.04
Earth Bottom, Rubble Sides	0.028	0.035
Rock Cuts; Smooth and Uniform	0.025	0.035
Rock Cuts; Jagged and Irregular	0.035	0.045

Upper Lone Pine Canal flows SW corner of SE 1/4 SW 1/4

Pump Capacity Calculator

using Department designed formula: Pump No. 2 → 24[±] ACRES

$(hp)(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$

Efficiency:

Centrifugal = 6.61

Turbine = 7.04

Data Entry (fill in underlined blanks)

HP = 30
Efficiency = 7.04
Lift = 50
PSI = 60

Results Calculated

$(hp)(\text{efficiency}) = 211.2$
Head based on psi = 152.4
Total dynamic head = 202.4
(head + lift)

Pump Capacity = 1.043 cubic feet per second

CLAIM - 160 gpm = 0.36 CFS > 0.31 CFS

$\text{Irrigates} = (24.8 \text{ acres})(1 \text{ in}) = 0.31 \text{ CFS}$

Pump No. 3 boosts pressure to Irrigate w/ a center pivot.

Pump Capacity Calculator

using Department designed formula: Pump No. 3

$(hp)(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$

Efficiency:

Centrifugal = 6.61

Turbine = 7.04

Data Entry (fill in underlined blanks)

HP = 20
Efficiency = 7.04
Lift = 10
PSI = 60

Results Calculated

$(hp)(\text{efficiency}) = 140.8$
Head based on psi = 152.4
Total dynamic head = 162.4
(head + lift)

Pump Capacity = 0.867 cubic feet per second

14.7 acres IR
= 0.184 CFS

Claim - 650 gpm = 1.45 CFS > 0.60 CFS

Irrigates = $(0.6 + 1.1 + 1.8 + 21.6 + 10 + 5) = (48.1 \text{ ac})(1/80) = 0.60 \text{ CFS}$
claim
map

Pump No. 3 boosts pressure to IR 14.7 acres (15% of total pivot area) = 0.18 CFS

Pump No. 3 boosts to IR 21.6 AC (SE 1/4 NW 1/4) = 0.27 CFS
1.8 AC (NE 1/4 SW 1/4) = 0.0225 CFS > 0.29 CFS

Pump Capacity Calculator
using Department designed formula:

Well No. 2
Pump No. 4

$(hp)(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$

Efficiency:

Centrifugal = 6.61

Turbine = 7.04

Data Entry (fill in underlined blanks)

HP = 15
Efficiency = 7.04
Lift = 308
PSI = 60

Results Calculated

$(hp)(\text{efficiency}) = 105.6$
Head based on psi = 152.4
Total dynamic head = 460.4
(head + lift)

Pump Capacity = 0.229 cubic feet per second

Claim - 160 gpm (0.36 cfs)

1st IR
Irrigates = 5² AC SWSW Sec. 5
0² AC NWNW Sec. 8
5² AC SWNW Sec. 8
11.5 AC

Supplement
13¹ AC NESW Sec. 5

+ 13¹ = 24⁶ AC

24⁶ AC @ 1/80TH = 0.31 cfs < 0.36 cfs ✓

Sprinkler Capacity Calculator

Data Entry (fill in underlined blanks)

Sprinkler group 1 Nozzle size = 5/32 inch (type an apostrophe before the size)
 Pressure = 40 PSI
 Number of heads = 80

Sprinkler group 2 Nozzle size = _____ inch (type an apostrophe before the size)
(if applicable) Pressure = _____ PSI
 Number of heads = _____

Sprinkler group 3 Nozzle size = _____ inch (type an apostrophe before the size)
(if applicable) Pressure = _____ PSI
 Number of heads = _____

Results calculated

Sprinkler group 1 capacity = 352 gpm, or 0.784 cfs
Sprinkler group 2 capacity = 0 gpm, or 0.000 cfs
Sprinkler group 3 capacity = 0 gpm, or 0.000 cfs

Total sprinkler capacity = 352 gpm, or 0.784 cfs

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

$$\text{Claim} - 4 \text{ gpm} * 80 = 320 \text{ gpm} = .71 \text{ cfs}$$

Center Pivot - Pump No. 3

$$21.6 + 1.8 + 14.7 = 38.1 \text{ AC} @ \frac{1}{80} \text{ in} = 0.476 \text{ CFS} \checkmark$$

Rainbird Nozzle Size Reference

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

STATE OF OREGON

COPY

COUNTY OF CROOK

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

THOMAS G STRAND ✓
~~RT 1 BOX 53~~ 18880 NW LONE PINE LN
TERREBONNE, OREGON 97760 ✓

(541) 548-5747

NORTHWEST FARM CREDIT SERVICES, ACA ✓
PO BOX 607 ✓
REDMOND, OREGON 97756 ✓

(541) 548-2126

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

APPLICATION FILE NUMBER: G-12177

SOURCE OF WATER: TWO WELLS WITHIN THE CROOKED RIVER BASIN

PURPOSE OR USE: IRRIGATION OF ^{69.4}~~92.5~~ ACRES AND SUPPLIMENT IR 23¹/₂ AC
NOT TO EXCEED

VOLUME OF USE: 1.16 CUBIC FOOT PER SECOND; BEING 0.85CFS FROM WELL 1 AND 0.31CFS FROM WELL 2.

PERIOD OF USE: MARCH 1 THROUGH OCTOBER 31

DATE OF PRIORITY: JULY 16, 1990

POINT OF DIVERSION LOCATION: SW 1/4 NW 1/4, NW 1/4 SW 1/4, SECTION 8, T14S, R14E, W.M.; WELL 1 - 1348 FEET NORTH AND 33 FEET EAST; WELL 2 - 3116 FEET NORTH AND 267 FEET EAST, BOTH FROM THE SW CORNER OF SECTION 8

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 3.0 acre-feet for each acre irrigated during the irrigation season of each year.

Well 1 - $(67^2)(\frac{1}{80}) = 0.85CFS$ Well 2 - $(24^2)(\frac{1}{80}) = 0.31CFS$ IR
THE PLACE OF USE IS LOCATED AS FOLLOWS:

SUPPLEMENTAL

Well 1 - 100

Well 2 - 13.1

23.1 AC

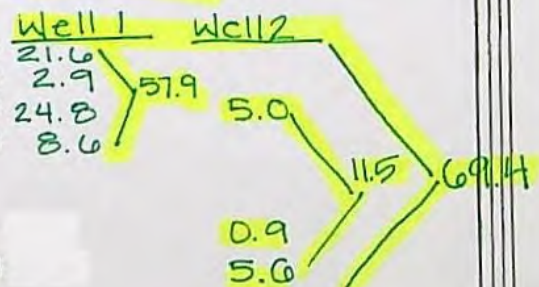
SE 1/4 NW 1/4	20.0 ACRES
NE 1/4 SW 1/4	23.5 ACRES
SW 1/4 SW 1/4	28.5 ACRES
SE 1/4 SW 1/4	14.0 ACRES

SECTION 5

NW 1/4 NW 1/4	0.5 ACRE
SW 1/4 NW 1/4	6.0 ACRES

SECTION 8

TOWNSHIP 14 SOUTH, RANGE 14 EAST, W.M.



Application G-12177 Water Resources Department

PERMIT G-12561

Well 1 - 67² Well 2 - 24²

Y900

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.

Use of water under authority of this permit may be regulated if analysis of data available after the permit is issued discloses that the appropriation 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 in effect as of the priority date of the right or as those quantities may be subsequently reduced.

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.

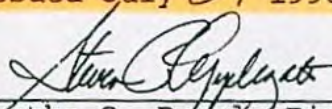
The use of water shall be limited when it interferes with any prior surface or ground water rights.

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 wells 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. 10-1-04 Ext.

Issued July 8, 1996

BC 24


Martha O. Pagek, Director
Water Resources Department

Name	N/A
Contact Person and Title	N/A
Mailing Address	N/A
City/State/Zip	N/A

4. Date of Site Inspection: September 29, 2004

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

Name	Date	Association with the project
Tom Strand	9-29-04	Owner

6. County: Crook County

7. Tax Lot Information:

Tax map number	Tax lot number
14-14-5	TL 400
14-14-8	TL 300

8. If any property described in the place of use of the permit or transfer final order is excluded from this report, identify the owner of record for that property (ORS 537.230(3)):

**Mark "NA" if there are no owners of property not included in this claim

Name	N/A
Contact Person and Title	N/A
Mailing Address	N/A
City/State/Zip	N/A
Phone #	N/A

Name	
Contact Person and Title	Thomas G Strand Owner
Mailing Address	18880 NW Lone Pine Lane
City/State/Zip	Terrebonne, OR 97760
Phone #	541-548-5747

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I. Points of Diversion/Appropriation and Place of Use

For each point of diversion or appropriation, provide the following information. If the claim is for more than one point of diversion/appropriation, copy and complete this section for each point of diversion or appropriation.

COPY

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

Water is pumped from well no.1 to the Upper Lone Pine Canal through 1700' of 6" PVC pipe. The pipe has a 6" meter located near the Middle Lone Pine Canal. Well no.1 has a 30hp submersible pump capable of diverting 380 GPM to the Upper Lone Pine Canal.

Water flows down the Upper Lone Pine Canal to the SW corner of the SE 1/4 SW 1/4 of Section 5 where it is picked up by a 20HP Centrifugal Pump (Pump no. 2) and a 30HP Centrifugal Pump (Pump no. 3). The 20 HP pump (Pump no. 2) boosts the pressure to sprinkle 24.8 acres in the SW 1/4 SW 1/4 of Section 5. Meter no.2 measures the flow of the 24.8 acres in the SW 1/4 SW 1/4 of Section 5. The 30HP pump (Pump no. 3) boosts the pressure to irrigate through a center pivot to irrigate 1.1 Acres in the NE 1/4 SW 1/4, 8.6 Acres in the SE 1/4 SW 1/4, and 5.0 Acres in the SW 1/4 of the SW 1/4 of Section 5. The pivot irrigates a total of 98.0 acres. Pump no. 3 irrigates 14.7 acres (1.1 ac + 8.6 ac + 5.0 ac) or 15% of the total pivot area. The 30HP (Pump no.3) also pumps water to sprinkle irrigate 21.6 acres in the SE 1/4 NW 1/4 and 1.8 acres in the NE 1/4 SW 1/4 of Section 5. This usage is measured by meter no. 4.

Well no.2 was previously issued a certificate under permit G-12561. Well no.2 is used to irrigate 5.0 acres in the SW 1/4 SW 1/4 of Section 5, 0.9 acres in the NW 1/4 NW 1/4 of Section 8 and 5.6 AC in the SW 1/4 NW 1/4 of Section 8 and also capable of pumping 140 GPM into the Upper Lone Pine Canal for supplemental irrigation of 5.0 acres in the SW 1/4 SW 1/4 of Section 5.

Well No.1 - 380 GPM capable of diverting to upper canal.

→ listed as 1st for Well #2 on Map

was issued a prop. cert., but a Final Cert. was never issued.

2. Point of diversion/appropriation name or number (correspond to map):

Point of diversion/appropriation name or number (correspond to map)	Well log ID # for all work performed on the well (if applicable)	Well tag # (if applicable)
1348' North and 33' East of the SW cor. of Sec. 8, T14S, R14E	Well no.1	
3116' North and 267' East of the SW cor. of Sec. 8, T14S, R14E	Well no.2	

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

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

Source	Tributary to
Ground Water	Crooked River

4. Point of diversion/appropriation location:

(DLC, Government Lot, 1/4 1/4, Section, Township, Range)	Reference to a recognized public land survey corner by distance and bearing or by coordinates
NW 1/4 SW 1/4, Sec. 8, T14S, R14E (Well no. 1)	1348' N & 33' E of the SW cor. Sec. 8, T14S, R14E
SW 1/4 NW 1/4, Sec. 8, T14S, R14E (Well no. 2)	3116' N & 267' E of the SW cor. Sec. 8, T14S, R14E

5. Actual use(s), period of use, and rate for each use:

Uses	If irrigation, list crop type	When water is used	Rate for use
Irrigation	Grass Hay	4-15 to 10-15	520 GPM

Total Quantity of Water 277 ac/ft

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6. Place of use for the point of diversion or appropriation:

DLC	Gov lot	1/4 1/4	Section	Township	Range	Use	# of primary acres	# of supplemental acres
		SW SW	5	T14S	R14E	IRR	29.8 AC	
		SE SW	5	T14S	R14E	IRR	8.6 AC	
		NE SW	5	T14S	R14E	IRR	2.9 AC	23.1
		SE NW	5	T14S	R14E	IRR	21.6 AC	
		NW NW	8	T14S	R14E	IRR	0.9 (prev. certified)	
		SW NW	8	T14S	R14E	IRR	5.6 (prev. certified)	

Total Acres Irrigated 69.4 AC Primary – 23.1 ac Supp.

Groundwater Source Information (Well and Sump)

**If the appropriation is not from ground water (well or sump), this section, items 1-5, can be deleted.

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

2" access port for Well no. 1 and 2

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

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

In addition to the information requested in item "2" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

NA

**If the appropriation is not from a sump, the following section, items 3-4, can be deleted. Construction standards for sumps can be found in OAR 690-210-0400.

Gravity flow canal or ditch (The Department typically uses Manning's formula for canals and ditches)

**If this claim does not rely on a gravity flow canal or ditch to convey the water as part of the distribution system, this section, items 1-3, can be deleted.

1. If the system involves a gravity canal or ditch, complete the table below. Upper Lone Pine Canal

Canal or ditch type (material)	Top width of canal or ditch	Bottom width of canal or ditch	Depth	"N" factor	Amount of fall	Length of canal/ditch	Slope	Computed volume
Earth	6'	3'	4'					7'

2. Provide calculations in the box below:

We are sharing the Ground water with the Upper Lone Pine Canal, Lone Pine Irrigation District. The existing canal is capable of 15 AC feet and it's current usage is 7 AC feet of which 1 AC foot is ground water. spoke w/ G.C (12-29-15)

No water exchange taking place.

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water from well #1 is pumped to upper canal & picked up & delivered to permitted Pou lands.

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3. If an actual measurement was taken, provide the following:

Date of Measurement	Who made the measurement	Measurement method	Measured quantity of water
N/A			

Attach measurements notes

System Information:

Provide the following information concerning the diversion and delivery system. Trace the flow of water from the point of diversion/appropriation to the place of use.

1. Pump information

Brand	Model	Serial Number	Type (centrifugal, turbine or submersible)	Intake size	Discharge size
1	Berkley		Submersible		6
2	Century		Centrifugal	6	6
3	Cornell		Centrifugal	8	6
4	Berkley		Submersible		4

2. Motor information

Brand	Model	Horsepower	Max RPM	Voltage
1	Franklin	30	3600	480
2		30	3600	480
3		20	3526	480
4	Franklin	15	3600	220

3. Meter information (if required in permit or transfer final order)

Make	Serial #	Condition (working or not)	Current meter reading	Notes
1 Mc Crommeter	916447	working		6"
2 Mc Crommeter	916446	working		6"
3 Aqua 900	30241	working		8"
4 Mc Crommeter	914384	working		4"
5 Mc Crommeter	914383	working		4"

4. Measurement device description

Device description	Condition (working or not)	Notes
Micrometer	working	

5. Measured pump capacity (using meter if meter was present and system was operating)

Initial meter reading	Ending meter reading	Duration of time observed	Total pump output
NA			

6. Theoretical pump capacity

Horsepower	Operating psi	Lift from source to pump *If a well, the water level during pumping (see pump test results)	Lift from pump to place of use	Total pump output
Pump 1	0	See attached pump test 7'	320'	380
Pump 2	60		50'	160
Pump 3	60		10'	650'
Pump 4	60	See attached pump test 8'	300'	160

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8. Mainline information

Mainline size	Length	Type of pipe	Buried or above ground
4"	800 LF	PVC	BURIED
5"	400 LF	PVC	BURIED
6"	4300 LF	PVC	BURIED

9. Lateral or handline information

Lateral or handline size	Length	Type of pipe	Buried or above ground
4" Wheel line	1000 LF	Aluminum	Above ground
Center Pivot	1100 LF	PVC	Above ground
3" Hand lines	1280 LF	Aluminum	Above ground

10. Sprinkler information Make and model:

Make	Model	Size	Operating psi	Sprinkler output	Maximum number used	Total sprinkler output
Rainbird	30	5/32"	40	4 GPM	80	320
Low Pressure		varies	38	Varies	55 plus end gun	

Refer to the chart of sprinkler output at various pressures for most nozzle sizes attached to this document.

$$Q_{\text{sprinklers}} = \frac{(\text{max \# heads})(\text{gpm/head})}{448.8 \text{ gpm/cfs}} = \text{cfs}$$

11. Additional notes or comments related to the system:

Well no. 1 runs continuously and is used to irrigate 57.9 acres in Section 5. Water is rotated between the sprinkled 21.6 acres in the SE 1/4 NW 1/4, the sprinkled 24.8 acres in the SW 1/4 SW 1/4 and the areas irrigated with the Center Pivot being the 8.6 acres in the SE 1/4 SW 1/4 and the 1.1 acres in the NE 1/4 SW 1/4 of Section 5.
 $21.6 + 24.8 + 8.6 + 1.1 = 57.9 + 10 = 67.9 \text{ AC}$ + 1.8 AC NESW

Well no. 1 is also to be used for supplemental irrigation of 10.0 acres in the NE 1/4 SW 1/4 of Section 5.

Well no. 2 is used to irrigate 6.5 acres in Section 8 and is rotated to irrigate 5.0 acres in the SW 1/4 SW 1/4 of Section 5. Well no. 2 is also to be used for supplemental irrigation of 13.1 acres in the NE 1/4 SW 1/4 of Section 5.

$$6.5 + 5 + 13.1 = 24.6 \text{ AC}$$

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III. CONDITIONS

Please pay special attention to this section. All conditions contained in the permit or transfer final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

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

	Dates from permit or transfer final order	Date accomplished	Description of actions taken by water user to comply with the time limits
Begin construction	Oct. 1, 1996		
Complete construction	Oct. 1, 1998		
Complete application of water	Oct. 1, 1999		An extension of time was granted to complete the construction and apply the water to Oct. 1, 2004.

2. Initial Water Level Measurements:

**If the Claim is for surface water or a reservoir, or if the water user was not required to submit static water level measurements, items b through e relating to this section can be deleted.

a. Was the water user required to submit an initial static water level measurement? NA

b. What month was the initial measurement to be taken in? NA

c. Did an authorized individual (as stated in the permit or transfer final order) make the initial static water level measurement in the month required?

NA

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d. If "YES", was the measurement submitted to the Department? NA

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e. If the initial measurement not been submitted, provide that measurement now if available:

Date of measurement	Who made measurement	Method	Measurement
NA			

3. Annual Static Water Level Measurements:

**If the Claim is for surface water or a reservoir, or if the water user was not required to submit static water level measurements, items b through e relating to this section can be deleted.

a. Was the water user required to submit annual static water level measurements? NA

b. In the box below, provide the month in which the static water level was to be made:

NA

c. Were the static water level measurements taken in the month required? NA

d. If "YES", were those measurements submitted to the Department? NA

e. If the annual measurements were not submitted, provide the measurements now in the box below:

Year	Month	Measurement made by	Measurement
NA			

4. **Measurement, recording, and reporting conditions:**

a. Does the permit or transfer final order require the installation of a meter or approved measuring device?
YES **If "NO", items b through g relating to this section can be deleted.

b. Has a meter been installed? YES

c. Provide the date the meter was installed:

September 1998

d. If a meter has not been installed, has a suitable measuring device been installed and approved by the Department? YES NO NA

e. If "YES", provide a copy of the letter approving the device, if available. If the letter is not available provide the name and title of the Water Resources Department employee approving the measuring device, and the approximate date of the approval:

Name	Title	Approximate date
NA		

f. Is the water user required to report the water use to the Department? NO

g. Have the reports been submitted? NA

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

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5. **Fish Screening and/or By-pass Devices**

a. Are any points of diversion required to be screened and/or have a by-pass device to prevent fish from entering the point of diversion? NO

**If "NO", items b through i relating to this section can be deleted

6. **Pump Test** (typically required for ground water uses prior to issuance of a certificate, but not a requirement of permit development)

a. Did the permit or transfer final order require the submittal of a pump test? YES NO NA

b. Has a pump test been submitted and approved by the Department? YES NO

c. If no, is the pump test attached to this Claim? YES

7. **Other Permit Conditions** (examples: special well construct standards, water conservation plans, no obstructions to fish without a fishway, etc.; number as appropriate.)

IV. Attachments, Conclusions, Map and Signatures

Attachments

If you are attaching any documents to this report, provide a list below:

Attachment name	Description
Well Logs	Well logs for Wells no. 1 and no. 2
Pump Tests	Pump tests for Pump #1 and Pump #4

Permit and Transfer Final Order Rates and System Rates Comparisons:

POD or POA name or #	Maximum rate allowed by permit or transfer final order	Calculated theoretical rate of water based on system	Actual amount of water measured (if measured)	Developed use	# of acres allowed by permit or transfer final order	# of acres developed
Wells 1 & 2	1.16 CFS	520 GPM	Not Measured	520 GPM	92.5 AC	92.5 AC

Claim of Beneficial Use Map

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

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

Aerial Photo provided by owner, Tom Strand. This aerial is from Bend Mapping and Blueprinting located in Bend, Oregon. The aerial flight for this photo took place September 11, 1998. There are no series numbers or aerial photo identification.

CWRE Statement, Seal and Signature

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

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WATER RESOURCES DEPT
SALEM OREGON

COPY

Appl # G-12177 (Permit # G-12561)

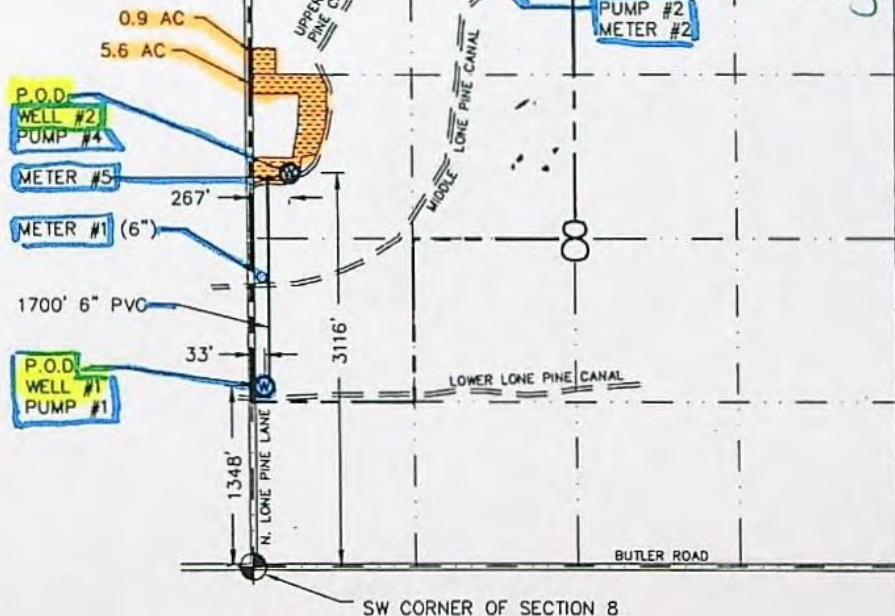
COBU
MAP
#0187

Well 1 = 1st IR 57⁹ AC

Well 2 = 1st IR 11⁵ AC

Well 1 = S.I.R 10⁰ AC

Well 2 = S.I.R 13¹ AC



JEFFERSON COUNTY
CROOK COUNTY

← Acreage shown here matches listing on COBU for Permit G-12561.

This sliver of land for supplant use from Well No. 2 was

not designated an acreage total. Amend Map

SCALE: 1"=1000'

I, William R. Tye, Certified Water Right Examiner in the State of Oregon, hereby certify the above final proof map was prepared under my direct supervision.

The preparation of this map is for the purpose of identifying the location of the water right only and has no intent to provide dimensions or locations of property ownership lines.



COBU MAP

L. JARAMILLO
4-14-06

FINAL PROOF MAP
(PERMIT# G-12561)
(APPLICATION # G-12177)
FOR THOMAS STRAND
TAX LOTS 300 & 400

LOCATED IN SECTION 5 AND SECTION 8, TOWNSHIP 14 SOUTH, RANGE
14 EAST, OF THE WILLAMETTE MERIDIAN, CROOK COUNTY, OREGON

COPY
COBU MAP
0187

LEGEND



PRIMARY IRRIGATION 57.9 AC



PRIMARY WELL NO. 2 - 5.0 AC



PRIMARY WELL NO. 2 - 6.5 AC
PREVIOUS CERTIFICATE G-12561

TOTAL PRIMARY 69.4 AC



WELL NO. 1 SUPPLEMENTAL IRRIGATION 10.0 AC



WELL NO. 2 - SUPPLEMENTAL IRRIGATION 13.1 AC



WELL



SECTION CORNER

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WATER RESOURCES DEPT
SALEM, OREGON

Permit G-12561
Allows:

• Total of 92.5 AC
of Irrigation

• 1.16 cfs

T. 14s, R. 14e

Sec 5: SENW - 20.0
NESW - 23.5
SWSW - 28.5
SESW - 14.0

Sec. 8: NWNW - 0.5
SWNW - 6.0

total: 92.5 ac

WELL NO.1 - PRIMARY

PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
1	30	SUBMERSIBLE	380	1	62.9	W 1/2 SECTION 5
2	20	CENTRIFUGAL	140-160	2	24.8	SW 1/4 SW 1/4 SECTION 5
3	30	CENTRIFUGAL	520-620	3	8.6	SE 1/4 SW 1/4 SECTION 5
3				3	1.1	NE 1/4 SW 1/4 SECTION 5
3				4	1.8	NE 1/4 SW 1/4 SECTION 5
3				4	21.6	SE 1/4 NW 1/4 SECTION 5
TOTAL					57.9	

WELL NO.1 SUPPLEMENTAL

PUMP #	IRRIGATION ACRES	LOCATION
3	10	SE 1/4 SW 1/4 SECTION 5
TOTAL		67.9

WELL NO. 2 - PRIMARY

PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
4	15	SUBMERSIBLE	160	5	0.9 *	NW 1/4 NW 1/4 SECTION 8
4				5	5.6 *	SW 1/4 NW 1/4 SECTION 8
3					5.0	SW 1/4 SW 1/4 SECTION 5
TOTAL					11.5	

WELL NO.2 SUPPLEMENTAL

PUMP #	HP	TYPE	GPM	METER	IRRIGATION ACRES	LOCATION
4				5	13.1	SE 1/4 NW 1/4 SECTION 8
TOTAL					24.6	

67.9 AC
+ 24.6 AC
92.5 AC total

#0187

* PREVIOUS CERTIFICATE
Proposed ↑
(Never issued).

L. JARAMILLO
4-14-06



TITLE: FINAL PROOF MAP	JOB NO: 703-22 TOM STRAND
SCALE: 1"=1000'	BY: JLC
FIELD BOOK:	DATE: 9-27-05
DWG: 703-22-8-18-05	SHEET: 1 OF 1

Mailing List for Certificate

Application: G-12177

Permit: G-12561

Certificate:

Permit/Certificate Holder:

THOMAS G. STRAND
18880 NW LONE PINE LANE
TERREBONNE OR 97760

NORTHWEST FARM CREDIT SERVICES, ACA
PO BOX 607
REDMOND OR 97756

Copies Mailed

by: _____
(STAFF)

on: _____
(DATE)

Copies of Final Certificate to be sent to:

1. Watermaster District #: 11
2. Data Center (include copy of map)
3. Water Availability
4. Vault
5. File

Other persons to receive copies: (include map):

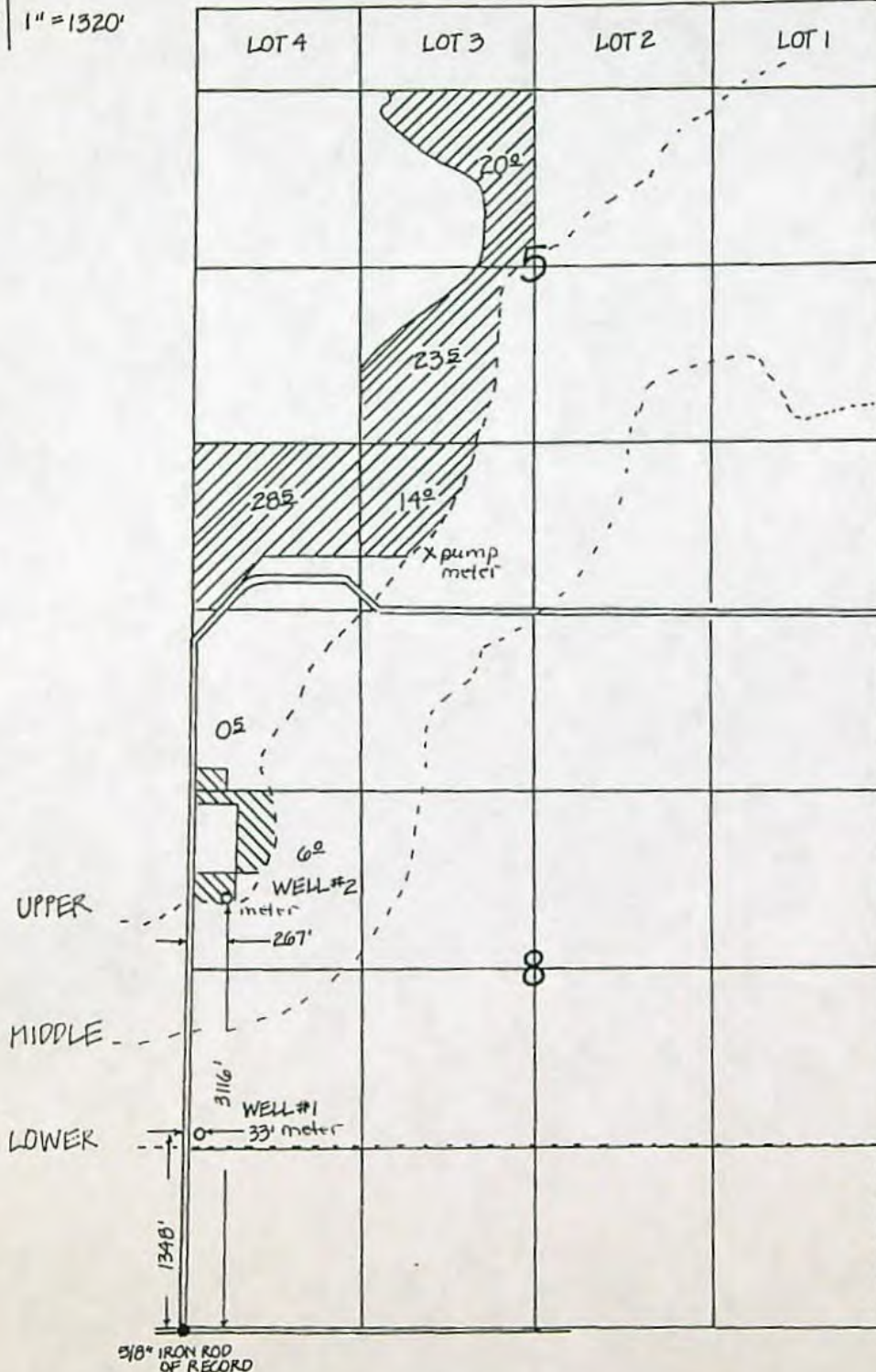
1. WILLIAM R TYE, CWRE, TYE ENGINEERING & SURVEYING
2. CURRENT LANDOWNER - TAXLOT - 14-14-05-00-00300; 00400.
FOUR LAZY F RANCH LLC
18880 NW LONE PINE LN
TERREBONNE OR 97760

APPLICATION MAP
APPROPRIATION OF WATER
T.14S., R.14E., W.M.

Application No. 6-12177
Permit No.

SCALE 1" = 1320'

JEFFERSON COUNTY
CROOK COUNTY



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APR 28 1993

WATER RESOURCES DEPT.
SALEM, OREGON

NO REPRESENTATION IS
INTENDED TO PROVIDE
DIMENSIONS OR LOCATION
OF PROPERTY OWNERSHIP
LINES.



LEGEND

- WELL #1 TOTAL = 862
- WELL #2 TOTAL = 651

DEJARNATT LAND SURVEYS, INC.

63885 N. HWY. 97
BEND, OREGON 97101
(503) 382-4192

JOB # 90061
SHEET 1 OF 1
JULY 11, 1990
REVISED 4-12-93

NOTICE OF BEGINNING OF CONSTRUCTION

I, Thomas G. Strand, the holder of Permit No. G-12561to appropriate the public waters of the state of Oregon, began the actual construction of the works described therein the 8 day of July, 1996.Remarks: See Attached well reports

The appropriator must state the manner of beginning of construction, the amount of work completed and the type of equipment

required to install 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 25 day of September, 1998.Thomas G. Strand
(Signature of Applicant)18880 N.W. Lone Pine Lane Terrahona, Ore.
(Address)97760

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

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WATER RESOURCES DEPT.
SALEM, OREGON

Form C (690-9-77)

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-12177

NOTICE OF COMPLETE APPLICATION OF WATER TO A BENEFICIAL USE

I, Thomas G. Strand, the holder of Permit No. G-12561
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 25 day of September, 1998.

Remarks: _____

IN WITNESS WHEREOF, I have hereunto set my hand this 25 day of September, 1998.

Thomas G. Strand

(Signature of Applicant)

18880 N.W. Lone Pine Lane - Terrebonne, Ore.

(Address)

97760

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WATER RESOURCES DEPT.
SALEM, OREGON

1247 10-22-87 NW 1/4 (160ac)
41408 000300 E NW 1/4 SW 1/4 (40ac)

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

FEB 15 1989

MAR 13 1989

(START CARD) #

NSC

(1) OWNER:

Name Tom Strand

Address 24.1 Fox 53

City Terrebonne

State Ore.

Zip 97760

Well Number:

WATER

(9) LOCATION OF WELL by legal description:

SALEM, OREGON

Latitude

Longitude

Township

14 S.

N or S, Range

14 S.

E or W, WM.

Section

8

S. E. 1/4

N. W. 1/4

Tax Lot

Lot

Block

Subdivision

Street Address of Well (or nearest address) Box 54

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD

☐ Rotary Air ☐ Rotary Mud ☒ Cable

☐ Other

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation

☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Well 240 ft.

Explosives used Yes No ☒ Type Amount

HOLE SEAL Diameter From To Material From To Amount

16" 0 20 Bentonite 0 20' 34 sacks

14" 20 240

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E

☒ Other Poured down Dry

Backfill placed from ft. to ft. Material

Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

Diameter From To Gauge Steel Plastic Welded Threaded

Casing 12" 0 160 250 ☒ ☐ ☒ ☐

12" 160 240 375 ☒ ☐ ☒ ☐

Liner ☐ ☐ ☐ ☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

☒ Perforations Method Factory

☐ Screens Type Material

From To Slot size Number Diameter Tele/pipe size Casing Liner

122' 142' 1/8" 5 720 1540 ☒ ☐

215' 225' 360 ☐ ☐

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

☐ Pump ☒ Bailer ☐ Air ☐ Flowing

Yield gal/min Drawdown Drill stem at Time

50 0' 1 hr.

Temperature of water 54 Depth Artesian Flow Found

Was a water analysis done? ☐ Yes By whom

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

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

(10) STATIC WATER LEVEL:

98' ft. below land surface. Date 5/20/88

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 122'

From	To	Estimated Flow Rate	SWL
122'	141'	2003 PM.	98'
215'	225'	2003 PM.	98'

(12) WELL LOG:

Ground elevation

Material	From	To	SWL
Overburden	0	3'	
sandstone	3'	44'	
Brown Claystone	44'	88'	
Red Clay	88'	97'	
Brown Clay + Gravel	97'	122'	
Light Brown Clay + Gravel	122'	136'	98'
Med. Gravel + Yellow Clay W.P.	136'	141'	98'
Brown Clay + Gravel	141'	165'	
Brown Sandstone	165'	215'	
Med. Gravel W.P.	215'	225'	98'
Yellow Clay	225'	240'	

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Date started 3-10-88 Completed 5-20-88

(unbonded) Water Well Constructor Certification:

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

Signed [Signature] WWC Number 677

Date 5-20-88

(bonded) Water Well Constructor Certification:

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

Signed [Signature] WWC Number 608

Date 5-20-88

SP*12658-690

Completion Checklist for CWRE Claims of Beneficial Use



Date Received 9/29/2005
 CWRE Name William Tye
 Claim Logged ✓
 File Marked ✓
 Oversized Map # 0187
 Read and attach copy of permit or transfer

Application # G 12177
 Permit # G 12561
 Transfer # _____
 Date _____
 Reviewer _____

Map Review:

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

Report Review:

- _____ On form or format provided by the Department
- _____ Application & permit #; or transfer #
- _____ County
- _____ Tax lot information
- _____ Date of survey
- _____ Person interviewed
- _____ Ownership information
- _____ Source(s) of water
- _____ Point of diversion/appropriation location
- _____ Use, period of use, and rate for use
- _____ Place of use location
- _____ Type of use
- _____ Extent of use
- _____ Rate and Duty
- _____ Diversion rate for each use
- _____ Description of conveyances system (from POD to POU)
- _____ Diversion works description (pump make, serial model, capacity, and description)
- _____ System capacity
 - _____ Calculated capacity of system (required)
 - _____ Measured amount of use (optional)
- _____ Permit conditions
 - _____ Time limits
 - _____ Initial water level measurements
 - _____ Annual static water level measurements
 - _____ Measurement, recording, and reporting
 - _____ Meter/measuring device
 - _____ Water use reporting
 - _____ Fish screening and/or by-pass
 - _____ Pump test (ground water)
 - _____ Other conditions

- _____ CWRE stamp and signature
- _____ Signature(s) of permittee or transfer holder

Certificate Issuance Processing Checklist

____ Map and COBU reviewed
____ Conflict check (include copy of plat card printout)
____ Check current ownership

Any Conflicts? _____

Staff Recommendations:

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

____ Proof to the Satisfaction has been not been established to the full extent as described in the permit or transfer order and the right should be limited as follows: _____

____ Proof to the Satisfaction has not been established for the following reasons: _____

____ **Proposed Actions:**
Send letter requesting the following items/information: _____

____ Send letter recommending extension to cure deficiencies: _____

Can certificate be processed further?

____ Yes

If "Yes":

____ Proposed
____ Final

Certificate # _____

Mailing list:

Proposed:

Final:

CLAIM OF BENEFICIAL USE

The completion of this form is required by OAR 690-014-010(1) and 690-014-0110(4).

Please type or print in dark ink. If this form is found to contain errors or omissions, it may be returned to you. Every numbered item must have a response. If any requested information does not apply to the Claim, insert "n/a." Do not delete any section of this form unless directed by the form. The Department may require the submittal of additional information from any water user or authorized agent. A separate form shall be completed for each permit or transfer final order.

I. General Information

1. File Information

Application Number (G, R, S or T)	Permit Number (if applicable)
G-12177	G-12561

2. Property owner (current owner information)

a. Individuals

Name	Thomas G Strand	
Mailing Address	18880 NW Lone Pine Lane	
City/State/Zip	Terrebonne, OR 97760	
Phone #	541 548-5747	
Fax #		
e-mail address		

b. Businesses/Organizations

Name	N/A
Contact Person and Title	N/A
Mailing Address	N/A
City/State/Zip	N/A
Phone	N/A
Fax	N/A
e-mail	N/A

If the current property owner is not the permittee or transfer holder of record, it is recommended that an assignment be filed with the Department.

3. Permittee / Transferee of record (this may not be the current property owner)

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SALEM OREGON

	Individual 1	Individual 2
Name	Thomas G Strand	
Mailing Address	18880 NW Lone Pine Lane	
City/State/Zip	Terrebonne, OR 97760	

d. Businesses/Organizations

Name	N/A
Contact Person and Title	N/A
Mailing Address	N/A
City/State/Zip	N/A

4. Date of Site Inspection: September 29, 2004

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

Name	Date	Association with the project
Tom Strand	9-29-04	Owner

6. County: Crook County

7. Tax Lot Information:

Tax map number	Tax lot number
14-14-5	TL 400
14-14-8	TL 300

8. If any property described in the place of use of the permit or transfer final order is excluded from this report, identify the owner of record for that property (ORS 537.230(3)):

****Mark "NA" if there are no owners of property not included in this claim**

Name	N/A
Contact Person and Title	N/A
Mailing Address	N/A
City/State/Zip	N/A
Phone #	N/A

Name	
Contact Person and Title	Thomas G Strand Owner
Mailing Address	18880 NW Lone Pine Lane
City/State/Zip	Terrebonne, OR 97760
Phone #	541-548-5747

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I. Points of Diversion/Appropriation and Place of Use

**WATER RESOURCES DEPT
SALEM OREGON**

For each point of diversion or appropriation, provide the following information. If the claim is for more than one point of diversion/appropriation, copy and complete this section for each point of diversion or appropriation.

6. Place of use for the point of diversion or appropriation:

DLC	Gov lot	1/4 1/4	Section	Township	Range	Use	# of primary acres	# of supplemental acres
		SW SW	5	T14S	R14E	IRR	29.8 AC	
		SE SW	5	T14S	R14E	IRR	8.6 AC	
		NE SW	5	T14S	R14E	IRR	2.9 AC	23.1
		SE NW	5	T14S	R14E	IRR	21.6 AC	
		NW NW	8	T14S	R14E	IRR	0.9 (prev. certified)	
		SW NW	8	T14S	R14E	IRR	5.6 (prev. certified)	

Total Acres Irrigated 69.4 AC Primary – 23.1 ac Supp.

Groundwater Source Information (Well and Sump)

****If the appropriation is not from ground water (well or sump), this section, items 1-5, can be deleted.**

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

2" access port for Well no. 1 and 2

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

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

In addition to the information requested in item "2" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

NA

****If the appropriation is not from a sump, the following section, items 3-4, can be deleted. Construction standards for sumps can be found in OAR 690-210-0400.**

Gravity flow canal or ditch (The Department typically uses Manning's formula for canals and ditches)

****If this claim does not rely on a gravity flow canal or ditch to convey the water as part of the distribution system, this section, items 1-3, can be deleted.**

1. If the system involves a gravity canal or ditch, complete the table below. Upper Lone Pine Canal

Canal or ditch type (material)	Top width of canal or ditch	Bottom width of canal or ditch	Depth	"N" factor	Amount of fall	Length of canal/ditch	Slope	Computed volume
Earth	6'	3'	4'					7'

2. Provide calculations in the box below:

We are sharing the Ground water with the Upper Lone Pine Canal, Lone Pine Irrigation District. The existing canal is capable of 15 AC feet and it's current usage is 7 AC feet of which 1 AC foot is ground water.

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3. If an actual measurement was taken, provide the following:

Date of Measurement	Who made the measurement	Measurement method	Measured quantity of water
N/A			

Attach measurements notes

System Information:

Provide the following information concerning the diversion and delivery system. Trace the flow of water from the point of diversion/appropriation to the place of use.

1. Pump information

Brand	Model	Serial Number	Type (centrifugal, turbine or submersible)	Intake size	Discharge size
1	Berkley		Submersible		6
2	Century		Centrifugal	6	6
3	Cornell		Centrifugal	8	6
4	Berkley		Submersible		4

2. Motor information

Brand	Model	Horsepower	Max RPM	Voltage
1	Franklin	30	3600	480
2		30	3600	480
3		20	3526	480
4	Franklin	15	3600	220

3. Meter information (if required in permit or transfer final order)

Make	Serial #	Condition (working or not)	Current meter reading	Notes
1 Mc Crommeter	916447	working		6"
2 Mc Crommeter	916446	working		6"
3 Aqua 900	30241	working		8"
4 Mc Crommeter	914384	working		4"
5 Mc Crommeter	914383	working		4"

4. Measurement device description

Device description	Condition (working or not)	Notes
Micrometer	working	

5. Measured pump capacity (using meter if meter was present and system was operating)

Initial meter reading	Ending meter reading	Duration of time observed	Total pump output
NA			

6. Theoretical pump capacity

Horsepower	Operating psi	Lift from source to pump *If a well, the water level during pumping (see pump test results)	Lift from pump to place of use	Total pump output
Pump 1	0	See attached pump test	320'	380
Pump 2	60		50'	160
Pump 3	60		10'	650'
Pump 4	60	See attached pump test	300'	160

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8. Mainline information

Mainline size	Length	Type of pipe	Buried or above ground
4"	800 LF	PVC	BURIED
5"	400 LF	PVC	BURIED
6"	4300 LF	PVC	BURIED

9. Lateral or handline information

Lateral or handline size	Length	Type of pipe	Buried or above ground
4" Wheel line	1000 LF	Aluminum	Above ground
Center Pivot	1100 LF	PVC	Above ground
3" Hand lines	1280 LF	Aluminum	Above ground

10. Sprinkler information Make and model:

Make	Model	Size	Operating psi	Sprinkler output	Maximum number used	Total sprinkler output
Rainbird	30	5/32"	40	4 GPM	80	320
Low Pressure		varies	38	Varies	55 plus end gun	

Refer to the chart of sprinkler output at various pressures for most nozzle sizes attached to this document.

$$Q_{\text{sprinklers}} = \frac{(\text{max \# heads})(\text{gpm/head})}{448.8 \text{ gpm/cfs}} = \text{cfs}$$

11. Additional notes or comments related to the system:

Well no. 1 runs continuously and is used to irrigate 57.9 acres in Section 5. Water is rotated between the sprinkled 21.6 acres in the SE ¼ NW ¼, the sprinkled 24.8 acres in the SW ¼ SW ¼ and the areas irrigated with the Center Pivot being the 8.6 acres in the SE ¼ SW ¼ and the 1.1 acres in the NE ¼ SW ¼ of Section 5.

Well no. 1 is also to be used for supplemental irrigation of 10.0 acres in the NE ¼ SW ¼ of Section 5.

Well no. 2 is used to irrigate 6.5 acres in Section 8 and is rotated to irrigate 5.0 acres in the SW ¼ SW ¼ of Section 5. Well no. 2 is also to be used for supplemental irrigation of 13.1 acres in the NE ¼ SW ¼ of Section 5.

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III. CONDITIONS

Please pay special attention to this section. All conditions contained in the permit or transfer final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

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

	Dates from permit or transfer final order	Date accomplished	Description of actions taken by water user to comply with the time limits
Begin construction	Oct. 1, 1996		
Complete construction	Oct. 1, 1998		
Complete application of water	Oct. 1, 1999		An extension of time was granted to complete the construction and apply the water to Oct. 1, 2004.

2. Initial Water Level Measurements:

**If the Claim is for surface water or a reservoir, or if the water user was not required to submit static water level measurements, items b through e relating to this section can be deleted.

a. Was the water user required to submit an initial static water level measurement? NA

b. What month was the initial measurement to be taken in? NA

c. Did an authorized individual (as stated in the permit or transfer final order) make the initial static water level measurement in the month required?

NA

d. If "YES", was the measurement submitted to the Department? NA

e. If the initial measurement not been submitted, provide that measurement now if available:

Date of measurement	Who made measurement	Method	Measurement
NA			

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3. Annual Static Water Level Measurements:

**If the Claim is for surface water or a reservoir, or if the water user was not required to submit static water level measurements, items b through e relating to this section can be deleted.

a. Was the water user required to submit annual static water level measurements? NA

b. In the box below, provide the month in which the static water level was to be made:

NA

c. Were the static water level measurements taken in the month required? NA

d. If "YES", were those measurements submitted to the Department? NA

e. If the annual measurements were not submitted, provide the measurements now in the box below:

Year	Month	Measurement made by	Measurement
NA			

4. Measurement, recording, and reporting conditions:

a. Does the permit or transfer final order require the installation of a meter or approved measuring device?
YES **If "NO", items b through g relating to this section can be deleted.

b. Has a meter been installed? YES

c. Provide the date the meter was installed:

September 1998

d. If a meter has not been installed, has a suitable measuring device been installed and approved by the Department? YES NO NA

e. If "YES", provide a copy of the letter approving the device, if available. If the letter is not available provide the name and title of the Water Resources Department employee approving the measuring device, and the approximate date of the approval:

Name	Title	Approximate date
NA		

f. Is the water user required to report the water use to the Department? NO

g. Have the reports been submitted? NA

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

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5. Fish Screening and/or By-pass Devices

a. Are any points of diversion required to be screened and/or have a by-pass device to prevent fish from entering the point of diversion? NO

**If "NO", items b through i relating to this section can be deleted

6. Pump Test (typically required for ground water uses prior to issuance of a certificate, but not a requirement of permit development)

a. Did the permit or transfer final order require the submittal of a pump test? YES NO NA

b. Has a pump test been submitted and approved by the Department? YES NO

c. If no, is the pump test attached to this Claim? YES

7. Other Permit Conditions (examples: special well construct standards, water conservation plans, no obstructions to fish without a fishway, etc.; number as appropriate.)

IV. Attachments, Conclusions, Map and Signatures

Attachments

If you are attaching any documents to this report, provide a list below:

Attachment name	Description
Well Logs	Well logs for Wells no. 1 and no. 2
Pump Tests	Pump tests for Pump #1 and Pump #4

Permit and Transfer Final Order Rates and System Rates Comparisons:

POD or POA name or #	Maximum rate allowed by permit or transfer final order	Calculated theoretical rate of water based on system	Actual amount of water measured (if measured)	Developed use	# of acres allowed by permit or transfer final order	# of acres developed
Wells 1 & 2	1.16 CFS	520 GPM	Not Measured	520 GPM	92.5 AC	92.5 AC

Claim of Beneficial Use Map

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

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

Aerial Photo provided by owner, Tom Strand. This aerial is from Bend Mapping and Blueprinting located in Bend, Oregon. The aerial flight for this photo took place September 11, 1998. There are no series numbers or aerial photo identification.

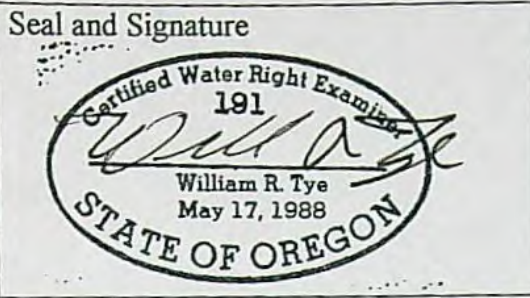
CWRE Statement, Seal and Signature

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

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SALEM OREGON



Permit or Transfer Holders Signature or Acknowledgement

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SALEM OREGON

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

Thomas G. Strand Thomas G. Strand 9-24-05
Signature Print or type name Date

Signature Print or type name Date

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SALEM OREGON

SPRINKLER CAPACITIES BY NOZZLE SIZE IN GALLONS PER MINUTE

This chart is comprised of information gathered from a number of sources and may differ slightly from the manufacturer's specifications.

("*" designates computed capacity)

**This page can be deleted

		P.S.I.																	
NOZZLE SIZE		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
	3/32				1.1	1.3	1.4	1.5	1.6	1.7	1.8								
	7/64				1.5	1.7	1.9	2	2.2										
	1/8				1.9	2.2	2.4	2.7	2.9	3	3.2								
	9/64				2.3	2.6	2.9	3.1	3.4	3.7	4								
	5/32				3	3.4	3.8	4.1	4.4	4.7	5								
	11/64	1.9	2.7	3.3	3.7	4.2	4.6	5	5.4	5.7	6	6.3	6.6						
	3/16	2.2	3.2	3.9	4.3	5	5.5	6	6.4	6.8	7.2	7.5	7.8						
	13/64	2.9	3.6	4.5	5.1	5.9	6.5	7.1	7.6	8.1	8.5	8.9	9.2						
	7/32		4.1	5.1	5.8	6.8	7.6	8.3	8.9	9.4	9.9	10.3	10.6						
	15/64							8.8		10		11.2		12.4					
	1/4		5.2	6.4	7.4	8.9	9.8	10.6	11.4	12.1	12.8	13.4	13.9	14.8*	15.3*	15.9*	16.4*	16.9*	17.4*
	17/64								12.5		14		15.6		17.1				
	9/32					11.2	12.3	13.3	14.3	15.2	16	16.8	17.5	18.1	18.9	19.7	20.7*	21.4*	22*
	19/64									16.6		18.3		19.9		21.4			
	5/16					13.1	15.2	16.5	17.7	18.9	20	21	22	23	23.9	24.8	25.7	26.4*	27.1*
	21/64										20.8		22.7		24.6		26.4		
	11/32					16.5	18	19.7	21.1	22.5	23.8	25	26.2	27.4	28.5	29.6	30.6	31.9*	32.8*
	23/64										24.5		26.8		29.1		31.4		
	3/8					19	21	22.8	24.4	26	27.5	29.1	30.6	32	33.2	34.5	35.7	38*	39*
	13/32								29*	30.9*	32.7*	34.5*	36.2*	37.4*	38.9*	40.4*	41.9*	43.3*	44.7*
	7/16								33.5*	35.6*	37.7*	39.7*	41.7*	43.6*	45.3*	46.9*	48.4*	50.1*	51.6*
	1/2								42.5*	45.2*	47.7*	50.2*	52.5*	54.7*	56.8*	58.6*	60.6*	63.6*	66.7*

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WATER RESOURCES DEPT
SALEM, OREGON

41408 000300 NW 1/4 (160ac)
NW 1/4 SW 1/4 (40ac)

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

WELL NO. 1
25770

WELL NO. 1

CROO 717

FEB 15 1989

MAR 13 1989

(START CARD) #

NSC

(1) OWNER:

Name Tom Strand
Address Box 1 Fox 53
City Terrebonne State Ore. Zip 97760

Well Number: WATER

(9) LOCATION OF WELL by legal description:

County CLATSOP Latitude _____ Longitude _____
Township 14 S. Nor S. Range 14 S. E or W, WM.
Section 8 S. E. W. N. E. W.
Tax Lot _____ Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Box 54

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD

☐ Rotary Air ☐ Rotary Mud ☒ Cable
☐ Other _____

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes ☐ No ☒ Depth of Completed Well 240 ft.

Explosives used ☐ ☒ Type _____ Amount _____

HOLE		SEAL		Amount
Diameter	From To	Material	From To	sacks or pounds
16"	0 20	Bentonite	0 20	34 sacks
14"	20 240			

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E

☒ Other Poured down Dry

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

Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

Diameter	From To	Gauge	Steel		Plastic		Welded	Threaded
			Slot	Number	Slot	Number		
Casing: 12"	0 160	1250	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
12"	160 240	325	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

☒ Perforations Method Factory
☐ Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
122'	142'	1/8x5	720	1540		<input checked="" type="checkbox"/>	<input type="checkbox"/>
215'	225'		360			<input type="checkbox"/>	<input type="checkbox"/>

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

☐ Pump ☒ Bailor ☐ Air ☐ Flowing ☐ Artesian

Yield gal/min	Drawdown	Drill stem at	Time
50	0'		1 hr.

Temperature of water 54 Depth Artesian Flow Found _____

Was a water analysis done? ☐ Yes By whom _____

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

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other _____

Depth of strata: _____

(10) STATIC WATER LEVEL:

98' ft. below land surface. Date 5/20/88

Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 122'

From	To	Estimated Flow Rate	SWL
122'	141'	200 GPM.	98'
215'	225'	200 GPM.	98'

(12) WELL LOG:

Ground elevation _____

Material	From	To	SWL
Overburden	0	3'	
Sandstone	3'	44'	
Brown Claystone	44'	88'	
Red Clay	88'	97'	
Brown Clay + Gravel	97'	122'	
Light Brown Clay + Gravel	122'	136'	98'
Med. Gravel + Yellow Clay W.P.	136'	141'	98'
Brown Clay + Gravel	141'	165'	
Brown Sandstone	165'	215'	
Med. Gravel W.P.	215'	225'	98'
Yellow Clay	225'	240'	

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WATER RESOURCES DEPT
SALEM OREGON

Date started 3-10-88 Completed 5-20-88

(unbonded) Water Well Constructor Certification:

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

Signed Wayne T. Byrnes WWC Number 677
Date 5-20-88

(bonded) Water Well Constructor Certification:

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

Signed Wayne T. Byrnes WWC Number 608
Date 5-20-88

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

Water is pumped from well no.1 to the Upper Lone Pine Canal through 1700' of 6" PVC pipe. The pipe has a 6" meter located near the Middle Lone Pine Canal. Well no.1 has a 30hp submersible pump capable of diverting 380 GPM to the Upper Lone Pine Canal.

Water flows down the Upper Lone Pine Canal to the SW corner of the SE ¼ SW ¼ of Section 5 where it is picked up by a 20HP Centrifugal Pump (Pump no. 2) and a 30HP Centrifugal Pump (Pump no. 3). The 20 HP pump (Pump no. 2) boosts the pressure to sprinkle 24.8 acres in the SW ¼ SW ¼ of Section 5. Meter no.2 measures the flow of the 24.8 acres in the SW ¼ SW ¼ of Section 5. The 30HP pump (Pump no. 3) boosts the pressure to irrigate through a center pivot to irrigate 1.1 Acres in the NE ¼ SW ¼, 8.6 Acres in the SE ¼ SW ¼, and 5.0 Acres in the SW ¼ of the SW ¼ of Section 5. The pivot irrigates a total of 98.0 acres. Pump no. 3 irrigates 14.7 acres (1.1 ac + 8.6 ac + 5.0 ac) or 15% of the total pivot area. The 30HP (Pump no.3) also pumps water to sprinkle irrigate 21.6 acres in the SE ¼ NW ¼ and 1.8 acres in the NE ¼ SW ¼ of Section 5. This usage is measured by meter no. 4.

Well no.2 was previously issued a certificate under permit G-12561. Well no.2 is used to irrigate 5.0 acres in the SW ¼ SW ¼ of Section 5, 0.9 acres in the NW ¼ NW ¼ of Section 8 and 5.6 AC in the SW ¼ NW ¼ of Section 8 and also capable of pumping 140 GPM into the Upper Lone Pine Canal for supplemental irrigation of 5.0 acres in the SW ¼ SW ¼ of Section 5.

2. Point of diversion/appropriation name or number (correspond to map):

Point of diversion/appropriation name or number (correspond to map)	Well log ID # for all work performed on the well (if applicable)	Well tag # (if applicable)
1348' North and 33' East of the SW cor. of Sec. 8, T14S, R14E	Well no.1	
3116' North and 267' East of the SW cor. of Sec. 8, T14S, R14E	Well no.2	

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

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

Source	Tributary to
Ground Water	Crooked River

4. Point of diversion/appropriation location:

(DLC, Government Lot, ¼ ¼, Section, Township, Range)	Reference to a recognized public land survey corner by distance and bearing or by coordinates
NW ¼ SW ¼, Sec. 8, T14S, R14E (Well no. 1)	1348' N & 33' E of the SW cor. Sec. 8, T14S, R14E
SW ¼ NW ¼, Sec. 8, T14S, R14E (Well no. 2)	3116' N & 267' E of the SW cor. Sec. 8, T14S, R14E

5. Actual use(s), period of use, and rate for each use:

Uses	If irrigation, list crop type	When water is used	Rate for use
Irrigation	Grass Hay	4-15 to 10-15	520 GPM

Total Quantity of Water 277 ac/ft

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WATER RESOURCES DEPT
COBU Version 1.0 OREGON

May 8, 2006

Thomas G. Strand
18880 NW Lone Pine Lane
Terrebonne, OR 97760

Withdrawn
T-7265
Exchange

Lisa J. Jaramillo
Transfer Specialist
Field Services Division

Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1266

Dear Ms Jaramillo:

Transfer T-7265

I wish to withdraw Transfer application T-7265 and receive a refund.

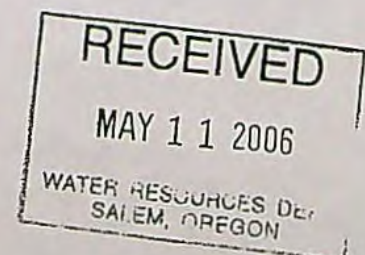
I've been involved in this water transfer process since 1989 when Bob Main suggested that I do this. My new application for permit # G-12561 will accomplish the same outcome.

Thank you for helping move this process forward.

Sincerely,



Thomas G. Strand





Oregon

Theodore R. Kulongoski, Governor

April 25, 2006

T-7265
Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1266
503-986-0900
FAX 503-986-0904

Thomas G. Strand
18880 NW Lone Pine Lane
Terrebonne, OR 97760

REFERENCE: Transfer Application T-7265

Dear Mr. Strand:

On September 30, 1994, the Department received a transfer application for an exchange from you, and assigned the number T-7265.

The Department recently reviewed Transfer T-7265 and determined that we will not be able to approve the transfer request.

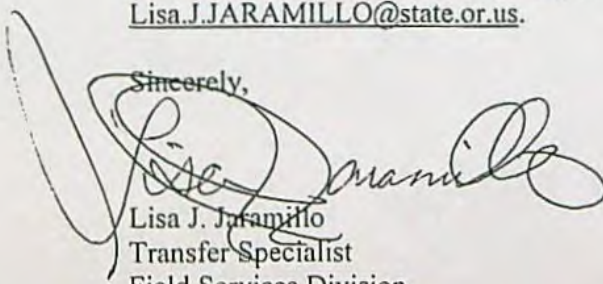
Furthermore, it has come to our attention that you recently filed a Claim of Beneficial Use report and survey map for Permit #G-12561, which accomplishes the same outcome proposed under the transfer application for an exchange (T-7265). Because of this, it appears that the exchange is no longer necessary.

At this time, you may request to withdraw Transfer Application T-7265 and receive a refund of all fees paid except for \$50.

If you choose to pursue withdrawal of the transfer application, please submit a signed statement indicating that you wish to withdraw Transfer Application T-7265, and send it to my attention at the address above.

Thank you for your patience in this matter, and if you have any questions regarding this matter, please feel free to contact me by telephone at (503) 986-0880 or by e-mail at Lisa.J.JARAMILLO@state.or.us.

Sincerely,



Lisa J. Jaramillo
Transfer Specialist
Field Services Division

cc: Transfer T-7265
Jeremy Giffin, WM District 11
Bruce Estes, CWRE, 60382 Arnold Market Road, Bend, OR 97702-9639

enclosures: Copy of Permit #G-12561
Copy of COBU and survey map for Permit #G-12561
Copy of Transfer Application T-7265 and map

Lisa Jaramillo

From: Kyle Gorman [Kyle.G.Gorman@wrд.state.or.us]
Sent: Friday, April 28, 2006 12:39 PM
To: Lisa JUUL
Subject: Tom Strand

-->

Lisa,

I spoke to Tom Strand today and told him that he ought to send the letter to you to withdraw his transfer application T-7265 and that he would be okay in doing so. Let me know if you don't receive a letter in the near future.

Thanks, Have a great day!

Kyle

Kyle Gorman

Region Manager

541-388-6669

Kyle.G.Gorman@wrд.state.or.us

Be water wise - water isn't all you save

4/28/2006

X-Sender: nelsongl@mailhub.wrd.state.or.us

X-Mailer: QUALCOMM Windows Eudora Version 5.1

Date: Tue, 02 Sep 2003 16:44:41 -0700

To: Lisa.J.JUUL@wrд.state.or.us

From: Greg Nelson <Greg.L.NELSON@wrд.state.or.us>

Subject: Permit Extension for G-12561 (Tom Strand)

Cc: Dwight.W.FRENCH@wrд.state.or.us, Thomas.J.PAUL@wrд.state.or.us

We will be receiving soon an application for permit extension on G-12561 that was sent by certified mail today. This application is the result of our working with the applicant to resolve a situation where WRD failed to process an exchange (transfer T-7265) application filed in September of 1994.

I discussed the situation with Dwight and Steve Brown and we identified alternatives to address the situation. This extension application follows through on one of the identified alternatives.

Given our failings, I respectfully request expedited action on processing this permit extension with the goal of having an order issued on the disposition of the application as soon as possible given the resources at our disposal.

I have in my possession the permit file and the transfer file.

Greg Nelson, Field Services Division
Oregon Water Resources Department
158 12th Street NE
Salem, OR 97301-4172
(503) 378-8455, ext. 285
(503) 378-8130 (FAX)

MEMORANDUM

Date: February 24, 2003

To: Files T-7265 and G-12177 - Strand
Transfer Section

From: Steve Brown



Application G-12177, Permit G-12561, was an application for permit to replace surface water being diverted from canals under an exchange filed by Application T-7265.

Permit G-12561 authorizes the irrigation of land from two wells in Sections 5 and 8, Township 14 South, Range 14 East, W.M. A claim of beneficial use and site report was submitted to the Department which describes the use of water from the wells. It appears only the 6.5 acres of land in Section 8, was irrigated as allowed by the permit.

I recommend a new application for permit, in conjunction with completing the requirements of an exchange be pursued. No proof of water from the wells has been made for the land in Section 5.

From: "Mike Zwart" <Mike.j.zwart@wrд.state.or.us>
To: "Steve Brown" <Stephen.C.BROWN@wrд.state.or.us>
Subject: Re: Permit G-12561 - Strand
Date: Wed, 26 Feb 2003 08:54:02 -0800
X-Mailer: Microsoft Outlook Express 5.50.4522.1200

Steve,

No approved test(s) were located for this permit.

Mike

----- Original Message -----

From: "Steve Brown" <Stephen.C.BROWN@wrд.state.or.us>
To: <Mike.J.ZWART@wrд.state.or.us>
Sent: Monday, February 24, 2003 11:08 AM
Subject: Permit G-12561 - Strand

> Mike,
>
> Please let me know if the pump tests for the above referenced file have
> been approved.
>
> Thank you.
>
> Steve

To: Mike Zwart
From: Steve Brown <Stephen.C.BROWN@wrд.state.or.us>
Subject: Permit G-12561 - Strand
Cc:
Bcc:
Attached:

Mike,

Please let me know if the pump tests for the above referenced file have been approved.

Thank you.

Steve

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-12177

Final Order
Extension of Time for Permit Number G-12561

Appeal Rights

This is a final order other than contested case. Pursuant to ORS 536.075 and OAR 137-004-080 and OAR 690-01-005 you may either petition the Director for reconsideration of this order or petition for judicial review of this order. As provided in ORS 536.075, this order is subject to judicial review under ORS 183.484. Any petition for judicial review of the order must be filed within the 60 day time period specified by ORS 183.484(2).

Application History

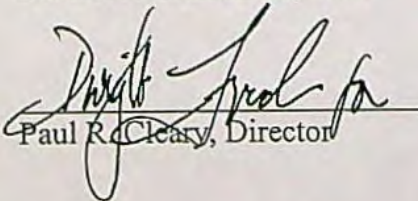
On SEPTEMBER 4, 2003, THOMAS G. STRAND submitted an application to the Department for an extension of time for permit number G-12561. The Department issued permit number G-12561 on JULY 8, 1996. The permit called for completion of construction of the water development project by OCTOBER 1, 1998, and complete application of water to the full beneficial use by OCTOBER 1, 1999. In accordance with OAR 690-315-0050(2), on OCTOBER 21, 2003, the Department issued a Proposed Final Order proposing to extend the time to complete construction of the water development project and the time to fully apply water to beneficial use to OCTOBER 1, 2004.

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.230, 537.248, 537.630, 539.010(5) and/or OAR 690-315-0040(2).

Order

The extension of time for Application Number G-12177, Permit Number G-12561, therefore, is approved. The deadline for completing construction is extended to OCTOBER 1, 2004. The deadline for applying water to full beneficial use is extended to OCTOBER 1, 2004.

DATED: March 16, 2004


Paul R. Cleary, Director

GANE 10/7/04

April 21, 2003

Thomas G. Strand
18880 N.W. Lone Pine Lane
Terrebonne, or 97756

Water Resources Department
Commerce Building
158 12th Street N.E.
Salem, OR 97301-4172

RECEIVED
APR 24 2003
WATER RESOURCES DEPT.
SALEM, OREGON

Re: Application No. G-12177, Permit No. G12561 and Exchange File No. T-7265

Dear Mr. Brown:

I am responding to your letter of April 3, 2003. I am requesting reconsideration on:

1. Quantity of water - The quantity of water is not 6.5 acres, but it is 60 acres.
2. Location of use - The location of use is approximately 1 mile north of well #1.
3. Extent of use - The extent of use is not 6.5 acres, but it is 60 acres.

In 1989, Bob Main notified the Crook County Improvement District #1 that I was using canal water to irrigate lands not covered by District water. Bob helped me develop a plan to cover these lands. I filed an application to drill a well. The only location to drill a good well was located approximately 1 mile from the proposed land to be irrigated. The well was at a lower elevation and it wasn't practical to pump water that far, nor was it practical to pump it to that high an elevation. Bob suggested that I do a water exchange. Well #1 was located next to the District's lower canal and the lands to be irrigated were located next to the District's upper canal. Well #1 water was metered into the lower canal and water was metered out of the upper canal to irrigate the 60 acres. The exchange of water was monitored by the Irrigation District's ditch rider. Crook County Improvement District #1 is now managed by Central Oregon Irrigation District and their ditch rider meters the water. An exchange agreement was signed with CCID in 1989 (see attached). The 60 acres in question have a priority date of 1990 and has been irrigated ever since. When Kyle Gorman came on board with Bob Main, Kyle was aware of the water exchange and helped to monitor it. In a time when the State Of Oregon is trying to promote conservation of water and electricity, it doesn't make sense to attempt to pump water that distance or elevation. The exchange has been a good thing for me as well as the Irrigation District.

I believe that I have fulfilled all of the requirements the State has required of me. I also believe that when the State issued me the permit G-12561 on July 8, 1996, that I had fulfilled everything Water Resources required and had answered all of their concerns. In reviewing my correspondence with Water Resources, I noticed that you, Mr. Brown, have

been involved with the permit since July 25, 1990. I think it is time for Water Resources to issue a certificate to allow the exchange.

I would also like to address the reason for your sudden concern with this issue. Mr. Charles Hegele stated at our Irrigation Board meeting that he had contacted you and your boss and had me shut down. I would like to tell you about him. Mr. Hegele has made allegations against me at seven other agencies besides yours:

1. Crook County
2. Crook County Sheriff Department
3. Central Oregon Irrigation District
4. Oregon Government Standards and Practices Commission
5. United States Forest Service
6. Department of Environmental Quality
7. Bureau of Land Management

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WATER RESOURCES DEPT.
SALEM, OREGON

Mr. Hegele has attacked not only me, but our entire community, because we are opposing a mining operation that he started illegally. He started mining his property without a permit from Crook County. The county discovered the violation and shut him down. They then told him to apply for a conditional use permit with the county. When he did, a notice was sent out to all of the adjacent landowners. We all had an opportunity to either support the application or oppose it. As affected property owners, we voiced our concerns and the Crook County Planning Commission denied his request. He appealed his application to the Crook County Court, and they too denied his request.

We live in a very beautiful, secluded valley called Lone Pine which is a very fertile farming area. The valley also has 3 large aggregate operations. The county has done an excellent job protecting the valuable farm ground as well as providing rock for the Central Oregon roads. None of the existing quarry operations are visible from the valley floor. This is a narrow valley with steep hillsides, and Mr. Hegele has torn away a steep hillside that will impact the valley forever.

The community has asked me to be the lead intervenor in Mr. Hegele's appeal to LUBA. Therefore, Mr. Hegele blames me for all of his problems and is consequently striking back at me.

I am listing all of the agencies he has turned me in to and contact people that I would encourage you to talk to.

Crook County - Prineville, Oregon

Bill Zelenka	Planning Director	541-447-8156
Jeff Wilson	Legal Counsel	541-447-6555
Judge Scott Cooper	Judge	541-447-6555
Sheriff Rodd Clark	Sheriff	541-447-6398