



Oregon Water Resources Department  
725 Summer Street NE, Suite A  
Salem Oregon 97301-1271  
(503) 986-0900  
www.wrd.state.or.us

# Application for a Permit to Use Ground Water

Please type or print in dark ink. If your application is found to be incomplete or inaccurate, we will return it to you. If any requested information does not apply to your application, insert "n/a." Please read and refer to the instructions when completing your application. A summary of review criteria and procedures that are generally applicable to these applications is available at [www.wrd.state.or.us/OWRD/PUBS/forms.shtml](http://www.wrd.state.or.us/OWRD/PUBS/forms.shtml).

## 1. APPLICANT INFORMATION

### A. Individuals

Applicant: Mark & Celeste Owens  
First Last

Mailing address: P.O. Box 746  
Crane OR 97732  
City State Zip

Phone: 541-493-1160  
Home Work Other

\*Fax: \_\_\_\_\_ \*E-Mail address: emailaddress@centurytel.net

### B. Organizations

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

Name of organization: N/A

Name and title of person applying: \_\_\_\_\_

Mailing address of organization: \_\_\_\_\_

\_\_\_\_\_  
City State Zip

Phone: \_\_\_\_\_  
Day Evening

\*Fax: \_\_\_\_\_ \*E-Mail address: \_\_\_\_\_

\* Optional information

| For Department Use |                  |            |
|--------------------|------------------|------------|
| App. No. _____     | Permit No. _____ | Date _____ |

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## 2. PROPERTY OWNERSHIP

Do you own all the land where you propose to divert, transport, and use water?

☒ Yes (Skip to section 3 "Ground water Development.")

☐ No (Please check the appropriate box below.)

☐ I have a recorded easement or written authorization permitting access.

☐ I do not currently have written authorization or easement permitting access.

☐ Written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigated and/or domestic use only (ORS 274.040).

You must provide the legal description of: (1) the property from which the water is to be diverted, (2) any property crossed by the proposed ditch, canal or other work, and (3) any property on which the water is to be used as depicted on the map.

List the names and mailing addresses of all affected landowners.

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## 3. GROUND WATER DEVELOPMENT

### A. Well Information

Number of well(s): 1 To BE drilled

Name of nearest surface water body: Malheur Lake

Distance from well(s) to nearest stream or lake: 1) 4 miles

2) \_\_\_\_\_ 3) \_\_\_\_\_ 4) \_\_\_\_\_

If distance from surface water is less than one mile, indicate elevation difference between nearest surface water and well head. 1) N/A

2) \_\_\_\_\_ 3) \_\_\_\_\_ 4) \_\_\_\_\_

### B. Well Characteristics

Wells must be constructed according to standards set by the Department for the construction and maintenance of water wells. If the well is already constructed, please enclose a copy of the well constructor's log and the well ID number, if available, for each well with this application. Identify each well with a number corresponding to the wells designated on the map and proceed to section 4 of the form. If the well has not been constructed, or if you do not have a well log, please complete the following:

Well(s) will be constructed by: Western Drilling

Address: Burns OR 97720

Completion date: After permit Approval hope fully spring 2009

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Proposed

Please provide a description of your well development. (Attach additional sheets if needed.)

| Well No. | Diameter | Type and size of casing | No. of feet of casing | Intervals casing is perforated (in feet) | Seal depth | Est. depth to water | Est. depth to water bearing stratum | Type of access port or measuring device | Total well depth |
|----------|----------|-------------------------|-----------------------|------------------------------------------|------------|---------------------|-------------------------------------|-----------------------------------------|------------------|
| 1        | 12"      | Welded .250 gage        | 105                   | N/A                                      | 20'        | 32'                 | 143'                                | Access pipe                             | 208'             |
|          |          |                         |                       |                                          |            |                     |                                     |                                         |                  |
|          |          |                         |                       |                                          |            |                     |                                     |                                         |                  |
|          |          |                         |                       |                                          |            |                     |                                     |                                         |                  |
|          |          |                         |                       |                                          |            |                     |                                     |                                         |                  |
|          |          |                         |                       |                                          |            |                     |                                     |                                         |                  |

Note: Well numbers in this listing must correspond to well locations(s) shown on accompanying map.

If well log is not available, or well is not yet constructed, you must provide: proposed total depth, depth of casing and seal, and the anticipated perforation and open intervals.

#### C. Artesian Flows

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

N/A

#### 4. WATER USE

Please read the instruction booklet for more details on "type of use" definitions, how to express how much water you need and how to identify the water source you propose to use. You must fill out a supplemental form for some uses as they require specific information for that type of use.

##### A. Type(s) of Use(s)

See list of beneficial uses provided in the instructions.

- If your proposed use is **domestic**, indicate the number of households to be supplied with water: \_\_\_\_\_
- If your proposed use is **irrigation**, please attach **Form I**
- If your proposed use is **mining**, attach **Form R**
- If your proposed use is **municipal or quasi-municipal**, attach **Form M**
- If your proposed use is **commercial/industrial**, attach **Form Q**

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Ground Water/3

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**B. Amount of Water**

Provide the production rate in gallons per minute (gpm) and the total annual amount of water you need from each well, from each source or aquifer, for each use. You do not need to provide source information if you are submitting a well log with your application.

| Well No. | Source or aquifer | Type of use | Total rate of water requested (in gpm) | Total annual quantity (in gallons) | Production rate of well (in gpm) |
|----------|-------------------|-------------|----------------------------------------|------------------------------------|----------------------------------|
| 1        | Groundwater       | Irrigation  | 800                                    | 276,480,000                        | 800                              |
|          |                   |             |                                        |                                    |                                  |
|          |                   |             |                                        |                                    |                                  |
|          |                   |             |                                        |                                    |                                  |

**C. Maximum Rate of Use Requested**

What is the maximum, instantaneous rate of water that will be used? 1.8195 cfs  
(The fees for your application will be based on this amount.)

**D. Period of Use**

Indicate the time of year you propose to use the water: March 1 to October 31  
(For seasonal uses like irrigation give dates when water use would begin and end, e.g. March 1–October 31.)

**E. Acreage**

If you will be applying water to land, please give the total number of acres where water will be applied or used: 145.56 acres  
(This number should be consistent with your application map.)

**5. WATER MANAGEMENT****A. Diversion**

What equipment will you use to pump water from your well(s)?

- ☒ Pump (give horsepower and pump type): 40 HP Turbine  
☐ Other means (describe): \_\_\_\_\_

**B. Transport**

How will you transport water to your place of use?

- ☐ Ditch or canal (give average width and depth):

Width \_\_\_\_\_ Depth \_\_\_\_\_

Is the ditch or canal to be lined? ☐ Yes ☐ No

- ☒ Pipe (give diameter and total length):

Diameter 8" Length up to 250 feet

- ☐ Other (describe): \_\_\_\_\_

Ground Water/4

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### C. Application/Distribution Method

What equipment will you use to apply water to your place of use? Turbine pump  
with PVC pipe

Irrigation or land application method (check all that apply):

- |                                                                  |                                                  |                                                         |
|------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|
| <input type="checkbox"/> Flood                                   | <input type="checkbox"/> High-pressure sprinkler | <input type="checkbox"/> Low pressure sprinkler         |
| <input type="checkbox"/> Drip                                    | <input type="checkbox"/> Water cannons           | <input checked="" type="checkbox"/> Center pivot system |
| <input type="checkbox"/> Hand lines                              | <input type="checkbox"/> Wheel lines             |                                                         |
| <input type="checkbox"/> Siphon tubes or gated pipe with furrows |                                                  |                                                         |

☒ Other, describe Will also have end gun to cover more  
of the corners.

Distribution method

- ☒ Direct pipe from source    ☐ In-line storage (tank or pond)    ☐ Open canal

### D. Conservation

What methods will you use to conserve water? Why did you choose this distribution or application method? For example, if you are using sprinkler irrigation rather than drip irrigation, explain. If you need additional space, attach a separate sheet.

I think the most manageable and cost effective  
means of applying the water is with the low pressure  
center pivot.

## 6. PROJECT SCHEDULE

Indicate the anticipated dates that the following construction tasks should begin. If construction has already begun, or is completed, please indicate that date.

Proposed date construction will begin: MARCH, 2009

Proposed date construction will be completed: MAY, 2009

Proposed date beneficial water use will begin: MAY, 2014

## 7. REMARKS

If you would like to clarify any information you have provided in the application, please do so here and reference the specific application question you are addressing.

I am attaching a sheet to explain my  
data on the proposed well and how I came  
up with that data. Exhibit A.

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## 8. MAP REQUIREMENTS

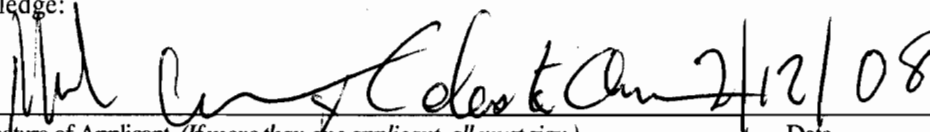
The Department cannot process your application without accurate information showing the source of water and location of water use. You must include a map with this application form that clearly indicates the township, range, section, and quarter/quarter section of the proposed well location and place of use. The map must provide tax lot numbers. See the map guidelines sheet for detailed map specifications.

## 9. SIGNATURE

By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application packet.
- I cannot legally use water until the Water Resources Department issues a permit to me.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be canceled.
- The water use must be compatible with local comprehensive land use plans.
- Even if the Department issues a permit to me, I may have to stop using water to allow senior water right holders to get water they are entitled to, and

I swear that all information provided in this application is true and correct to the best of my knowledge:

  
Signature of Applicant (If more than one applicant, all must sign.) Date

Before you submit your application be sure you have:

- Answered each question completely.
- Attached a legible map which includes township, range, section, quarter/quarter and tax lot number.
- Included a Land Use Information Form or receipt stub signed by a local official.
- Included the legal description of all the property involved with this application. You may supply a copy of the deed, land sales contract, or title insurance policy, to meet this requirement.
- Included a check payable to the Oregon Water Resources Department for the appropriate amount. The Department's fee schedule can be found at [www.wrd.state.or.us](http://www.wrd.state.or.us) or call (503) 986-0900.

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## Oregon Water Resources Department

### FORM I FOR IRRIGATION WATER USE

1. Please indicate whether you are requesting a primary or supplemental irrigation water right.

☐ Primary    ☐ Supplemental

If supplemental, please indicate the number of acres that will be irrigated for each type of use.

Primary: 145.56 Acres

Secondary: \_\_\_\_\_ Acres

List the permit or certificate number of the primary water right: No. \_\_\_\_\_

2. Please list the anticipated crops you will grow and whether you will be irrigating them for a full or partial season:

- |                  |                                                 |                                                                |
|------------------|-------------------------------------------------|----------------------------------------------------------------|
| 1. Alfalfa _____ | <input checked="" type="checkbox"/> Full season | <input type="checkbox"/> Partial season (from: _____ to _____) |
| 2. _____         | <input type="checkbox"/> Full season            | <input type="checkbox"/> Partial season (from: _____ to _____) |
| 3. _____         | <input type="checkbox"/> Full season            | <input type="checkbox"/> Partial season (from: _____ to _____) |
| 4. _____         | <input type="checkbox"/> Full season            | <input type="checkbox"/> Partial season (from: _____ to _____) |

3. Indicate the maximum total number of acre-feet you expect to use in an irrigation season:

436.68 acre-feet

(1 acre-foot equals 12 inches of water spread over 1 acre, or 43,560 cubic feet, or 325,851 gallons.)

4. How will you schedule your applications of water? Will you be applying water in the evenings, twice a week, daily?

- |                                                                                               |                                                                     |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <input type="checkbox"/> Daily during daytime hours                                           | <input type="checkbox"/> Daily during nighttime hours               |
| <input type="checkbox"/> Two or three times weekly during daytime                             | <input type="checkbox"/> Two or three times weekly during nighttime |
| <input type="checkbox"/> Weekly, during daytime hours                                         | <input type="checkbox"/> Weekly, during nighttime hours             |
| <input checked="" type="checkbox"/> Other, explain: <u>24 hours per day- off for harvest.</u> |                                                                     |

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**LEGAL DESCRIPTION**

**IN TWP. 27 S., R 34 E., W.M.**

**SECTION 6: LOTS 3,4, and 5, SE 1/4 NW 1/4**

**TAX LOT 800**

**145.56 Acres**

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## Oregon Water Resources Department Land Use Information Form

THIS FORM IS NOT REQUIRED IF: 1) water is to be diverted, conveyed, and/or used only on federal lands; or 2) the application is for a water-right transfer, allocation of conserved water, exchange, permit amendment, or ground water registration modification, and all of the following apply: a) only the place of use is proposed for change, b) there are no structural changes, c) the use of water is for irrigation, and d) the use is located in an irrigation district or exclusive farm-use zone.

Applicant Name: Mark Owens & Celeste Owens  
Mailing Address: P.O. Box  
City: Crane State: OR Zip: 97732 Day Phone: 541-493-1160

This application is related to a Measure 37 claim. ☐ Yes ☐ No

### A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), or used. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

| Township   | Range      | Section  | ¼ ¼       | Tax Lot #  | Plan Designation (e.g. Rural Residential/RR-5) | Water to be:                                                                                                                       | Proposed Land Use:           |
|------------|------------|----------|-----------|------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <u>27S</u> | <u>34E</u> | <u>6</u> | <u>NW</u> | <u>800</u> | <u>EFRU-1</u>                                  | <input checked="" type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used | <u>Irrigation of alfalfa</u> |
|            |            |          |           |            |                                                | <input type="checkbox"/> Diverted <input type="checkbox"/> Conveyed <input type="checkbox"/> Used                                  |                              |
|            |            |          |           |            |                                                | <input type="checkbox"/> Diverted <input type="checkbox"/> Conveyed <input type="checkbox"/> Used                                  |                              |
|            |            |          |           |            |                                                | <input type="checkbox"/> Diverted <input type="checkbox"/> Conveyed <input type="checkbox"/> Used                                  |                              |

List all counties and cities where water is proposed to be diverted, conveyed, or used. Harney Co.

### B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

- ☒ Permit to Use or Store Water ☐ Water-Right Transfer ☐ Exchange of Water  
☐ Allocation of Conserved Water ☐ Limited Water Use License  
☐ Permit Amendment or Ground Water Registration Modification

Source of water: ☐ Reservoir/Pond ☒ Ground Water ☐ Surface Water (name) \_\_\_\_\_

Estimated quantity of water needed: 800 ☐ cubic feet per second ☒ gallons per minute ☐ acre-feet

Intended use of water: ☒ Irrigation ☐ Commercial ☐ Industrial ☐ Domestic for \_\_\_\_\_ household(s)  
☐ Municipal ☐ Quasi-municipal ☐ Instream ☐ Other \_\_\_\_\_

Briefly describe: The most efficient manner for me to irrigate will be with a low pressure center pivot.

**Note to applicant:** If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt below and include it with the application filed with the Water Resources Department.

### Receipt for Request for Land Use Information

State of Oregon  
Water Resources Department  
725 Summer Street NE, Suite A  
Salem, OR 97301-1266

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SALEM, OREGON

## For Local Government Use Only

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

This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.

### Please check the appropriate box below and provide the requested information

☒ Land uses to be served by proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): 3.010.

☐ Land uses to be served by proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.)  
If approvals have been obtained but all appeal periods have not ended, check "Being pursued".

| Type of Land-Use Approval Needed<br>(e.g. plan amendments, rezones,<br>conditional-use permits, etc.) | Cite Most Significant, Applicable Plan<br>Policies & Ordinance Section References | Land-Use Approval:                                                   |                                                                                      |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                                                                                       |                                                                                   | <input type="checkbox"/> Obtained<br><input type="checkbox"/> Denied | <input type="checkbox"/> Being pursued<br><input type="checkbox"/> Not being pursued |
|                                                                                                       |                                                                                   | <input type="checkbox"/> Obtained<br><input type="checkbox"/> Denied | <input type="checkbox"/> Being pursued<br><input type="checkbox"/> Not being pursued |
|                                                                                                       |                                                                                   | <input type="checkbox"/> Obtained<br><input type="checkbox"/> Denied | <input type="checkbox"/> Being pursued<br><input type="checkbox"/> Not being pursued |
|                                                                                                       |                                                                                   | <input type="checkbox"/> Obtained<br><input type="checkbox"/> Denied | <input type="checkbox"/> Being pursued<br><input type="checkbox"/> Not being pursued |
|                                                                                                       |                                                                                   | <input type="checkbox"/> Obtained<br><input type="checkbox"/> Denied | <input type="checkbox"/> Being pursued<br><input type="checkbox"/> Not being pursued |

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

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Name: DAVID J. JENNISON Title: Planning Assistant  
Signature: [Signature] Phone: (541) 573-8174 Date: 15 Feb 2008  
Government Entity: HARVEY COUNTY PLANNING DEPARTMENT

**Note to local government representative:** Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

### Receipt for Request for Land Use Information

Applicant name: \_\_\_\_\_

City or County: \_\_\_\_\_ Staff contact: \_\_\_\_\_

Signature: \_\_\_\_\_ Phone: \_\_\_\_\_ Date: \_\_\_\_\_

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**WATER RESOURCES DEPT  
SALEM, OREGON**

# Exhibit A

I checked the available well logs within approximately two miles of my proposed well. This is a twenty square mile area, and included sixteen wells. This showed the following averages:

|                                   |                    |
|-----------------------------------|--------------------|
| WELL DEPTH                        | <u>207.75 feet</u> |
| STATIC WATER LEVEL                | <u>20.81 feet</u>  |
| DEPTH TO ROCK, GRAVEL, OR CINDERS | <u>143.00 feet</u> |
| GALLONS PER MINUTE                | <u>1087.00 gpm</u> |

In a smaller area, approximately one mile from my proposed well, I checked eight wells. Their averages were as follows:

|                                   |                    |
|-----------------------------------|--------------------|
| WELL DEPTH                        | <u>197.75 feet</u> |
| STATIC WATER LEVEL                | <u>16.63 feet</u>  |
| DEPTH TO ROCK, GRAVEL, OR CINDERS | <u>154.75 feet</u> |
| GALLONS PER MINUTE                | <u>1052.50 gpm</u> |

In yet a smaller area, approximately one half mile from my proposed wells, there were two wells. Their averages were as follows:

|                                   |                    |
|-----------------------------------|--------------------|
| WELL DEPTH                        | <u>216.00 feet</u> |
| STATIC WATER LEVEL                | <u>12.00 feet</u>  |
| DEPTH TO ROCK, GRAVEL, OR CINDERS | <u>206.00 feet</u> |
| GALLONS PER MINUTE                | <u>1050.00 gpm</u> |

However, the four closest wells would give a better average than just two wells. The averages for the four closest wells were as follows:

|                                   |                    |
|-----------------------------------|--------------------|
| WELL DEPTH                        | <u>185.75 feet</u> |
| STATIC WATER LEVEL                | <u>16.25 feet</u>  |
| DEPTH TO ROCK, GRAVEL, OR CINDERS | <u>163.00 feet</u> |
| GALLONS PER MINUTE                | <u>966.25 gpm</u>  |

It is difficult to know what is underground, but I believe these wells logs provide some consistency in the area. For the most part, they start through top soil, then maybe some hardpan, and then into different types of clay. When they drill through the clay, they almost always got into a water bearing rock of some type. I would assume I will do the same.

Mark Owens

*Mark Owens*  
*2/12/08*  
*Colbert*  
*2/12/08*

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WATER RESOURCES DEPT  
SALEM, OREGON

HARN 51378

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

WELL I.D. # L 84781START CARD # 189047

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

(1) LAND OWNER Zach Sword Well Number \_\_\_\_\_  
Name Zach Sword  
Address 526 95 Hwy 78  
City Princeton State Or Zip 97720

(2) TYPE OF WORK ☒ New Well  
☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment ☐ Conversion

(3) DRILL METHOD  
☐ Rotary Air ☐ Rotary Mud ☒ Cable ☐ Auger ☐ Cable Mud  
☐ Other

(4) PROPOSED USE  
☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation  
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION Special Construction: ☐ Yes ☒ No  
Depth of Completed Well 176 ft.  
Explosives used: ☐ Yes ☒ No Type \_\_\_\_\_ Amount \_\_\_\_\_

| BORE HOLE |      |     | SEAL       |      |    |                 |
|-----------|------|-----|------------|------|----|-----------------|
| Diameter  | From | To  | Material   | From | To | Sacks or Pounds |
| 30"       | 0    | 30  | Portland C | 30   | 40 |                 |
| 24"       | 20   | 176 |            |      |    |                 |

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

Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
Gravel placed from 0 ft. to 176 ft. Size of gravel 3/4" pea

(6) CASING/LINER

| Diameter    | From | To  | Gauge | Steel                               | Plastic                  | Welded                   | Threaded                 |
|-------------|------|-----|-------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Casing: 24" | 0    | 19  | 260   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Liner: 14"  | 19   | 176 | 290   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Drive Shoe used ☐ Inside ☐ Outside ☒ None  
Final location of shoe(s) \_\_\_\_\_

(7) PERFORATIONS/SCREENS  
☒ Perforations Method \_\_\_\_\_  
☐ Screens Type \_\_\_\_\_ Material \_\_\_\_\_

| From | To   | Slot Size | Number | Diameter | Tele/pipe size | Casing                   | Liner                               |
|------|------|-----------|--------|----------|----------------|--------------------------|-------------------------------------|
| 91'  | 166' | 1/8"      | 2400   | 14"      |                | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

| Yield gal/min | Drawdown | Drill stem at | Time |
|---------------|----------|---------------|------|
| 1325          | 60'      | 140           | 6 hr |

Temperature of water 54° Depth Artesian Flow Found \_\_\_\_\_  
Was a water analysis done? ☐ Yes ☒ No By whom \_\_\_\_\_  
Did any strata contain water not suitable for intended use? ☒ No ☐ Too little  
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other \_\_\_\_\_  
Depth of strata: 80'

(9) LOCATION OF WELL (legal description)  
County Washoe  
Tax Lot 3300 Lot \_\_\_\_\_  
Township 26 N or S Range 34 E or W WM  
Section 29 SW 1/4 SW 1/4  
Lat \_\_\_\_\_ " or \_\_\_\_\_ (degrees or decimal)  
Long \_\_\_\_\_ " or \_\_\_\_\_ (degrees or decimal)  
Street Address of Well (or nearest address) \_\_\_\_\_

(10) STATIC WATER LEVEL  
32 ft. below land surface. Date 6-27-07  
\_\_\_\_\_ ft. below land surface. Date \_\_\_\_\_  
Artesian pressure \_\_\_\_\_ lb. per square inch Date \_\_\_\_\_

(11) WATER BEARING ZONES  
Depth at which water was first found \_\_\_\_\_

| From | To  | Estimated Flow Rate | SWL |
|------|-----|---------------------|-----|
| 90   | 166 | 1325                | 32  |

(12) WELL LOG Ground Elevation \_\_\_\_\_

| Material         | From | To  | SWL |
|------------------|------|-----|-----|
| Top Soil         | 0    | 3   |     |
| Brown Clay       | 3    | 32  |     |
| Blue Clay        | 32   | 93  |     |
| Orange Clay      | 93   | 100 | 32  |
| Rock with cracks | 100  | 176 |     |

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Date Started 5-2-07 Completed 6-27-07

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

WWC Number \_\_\_\_\_ Date \_\_\_\_\_

Signed \_\_\_\_\_

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

WWC Number 1752 Date 7-26-07

Signed Kenneth E. Smith

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

HARN  
1959

(START CARD) #

26S/34E/32CB

(1) OWNER: Well Number 2  
Name LOVE VANNATTA  
Address PO BOX 3  
City PRINCETON State OR Zip 97721

(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 165 ft.  
Explosives used ☐ Yes ☒ No Type \_\_\_\_\_ Amount \_\_\_\_\_

| HOLE     |      |     | SEAL      |      |     | Amount<br>sacks or pounds |
|----------|------|-----|-----------|------|-----|---------------------------|
| Diameter | From | To  | Material  | From | To  |                           |
| 18"      | 0    | 20' | Bentonite | 0    | 20' | 12                        |
|          |      |     |           |      |     |                           |
|          |      |     |           |      |     |                           |

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

Backfill placed from NA ft. to NA ft. Material \_\_\_\_\_  
Gravel placed from NA ft. to NA ft. Size of gravel \_\_\_\_\_

(6) CASING/LINER:

| Diameter      | From | To | Gauge | Steel                               | Plastic                  | Welded                              | Threaded                 |
|---------------|------|----|-------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| Casing: 12" H | 0    | 8' | 25    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|               |      |    |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
|               |      |    |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
|               |      |    |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Liner:        |      |    |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
|               |      |    |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
|               |      |    |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

| From | To | Slot size | Number | Diameter | Tele/pipe size | Casing                   | Liner                    |
|------|----|-----------|--------|----------|----------------|--------------------------|--------------------------|
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |                | <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  |
|---------------|----------|---------------|-------|
| 980           | 30'      |               | 1 hr. |
|               |          |               |       |
|               |          |               |       |

Temperature of Water 55° Depth Artesian Flow Found \_\_\_\_\_

Was a water analysis done ☒ Yes By whom NA  
Did any strata contain water not suitable for intended use ☒ Too little  
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata: \_\_\_\_\_

(9) LOCATION OF WELL by legal description:

County HARNEY Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Township 26 N of S Range 34 E or W. WM.  
Section 32 NW 1/4 SW 1/4  
Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) 1478 - Miles 59 1/4

(10) STATIC WATER LEVEL:

19 ft. below land surface. Date Unknown  
Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:

Depth at which water was first found 18'

| From | To  | Estimated Flow Rate | SWI |
|------|-----|---------------------|-----|
| 19'  | 21' | approx 20 gpm       | 19  |
|      |     |                     |     |
|      |     |                     |     |

(12) WELL LOG:

Ground elevation \_\_\_\_\_

| Material       | From | To   | SWL |
|----------------|------|------|-----|
| TOP Soil       | 0    | 3'   |     |
| CLAY           | 3'   | 19'  |     |
| LOESS SOFT     | 19'  | 21'  | 19  |
| GRAVEL         | 21'  | 88'  |     |
| SOFT LAVA Rock | 88'  | 165' | 19  |
| HARD LAVA Rock | 165' | 165' | 19  |
| BLACK CINDERS  |      |      | 19  |

RECEIVED

OCT - 9 1992

RECEIVED

WATER RESOURCES DEPT  
SALEM, OREGON

FEB 23 2003

WATER RESOURCES DEPT  
SALEM OREGON

Date started Two years ago 1990 Completed \_\_\_\_\_

(unbonded) Water Well Constructor Certification:

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

WWC Number \_\_\_\_\_  
Signed \_\_\_\_\_ Date \_\_\_\_\_

(bonded) Water Well Constructor Certification:

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

WWC Number \_\_\_\_\_  
Signed \_\_\_\_\_ Date \_\_\_\_\_

50 APR 7 1950

**STATE OF OREGON**

**State Well No.**

State Permit No. \_\_\_\_\_

(USE ADDITIONAL SHEETS IF NECESSARY)

## STATE OF OREGON

## WATER SUPPLY WELL REPORT

(as required by ORS 537.765)

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

## (1) LAND OWNER

Name Bounger-Pool Properties Well Number \_\_\_\_\_  
 Address 2113 1701 Broadway  
 City Vancouver State WA Zip 98665

## (2) TYPE OF WORK

☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

## (3) DRILL METHOD:

☐ Rotary Air ☐ Rotary Mud ☒ Cable ☐ Auger  
☐ Other

## (4) PROPOSED USE:

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

## (5) BORE HOLE CONSTRUCTION:

Special Construction approval ☐ Yes ☒ No Depth of Completed Well 442 ft.  
 Explosives used ☐ Yes ☒ No Type \_\_\_\_\_ Amount \_\_\_\_\_

## HOLE

## SEAL

| Diameter | From | To  | Material | From | To  | Sacks or pounds |
|----------|------|-----|----------|------|-----|-----------------|
| 14"      | 0    | 106 | Bestbank | 0    | 106 | T36             |
| 16"      | 106  | 412 |          |      |     |                 |

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

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: 16" | 41   | 348 | 250   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|             |      |     |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
|             |      |     |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
|             |      |     |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
|             |      |     |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Liner:      |      |     |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
|             |      |     |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

Drive Shoe used ☐ Inside ☒ Outside ☐ NoneFinal location of shoe(s) 348

## (7) PERFORATIONS/SCREENS:

☐ Perforations Method \_\_\_\_\_  
☐ Screens Type \_\_\_\_\_ Material \_\_\_\_\_

| From | To | Slot size | Number | Diameter | Tele/pipe size | Casing                   | Liner                    |
|------|----|-----------|--------|----------|----------------|--------------------------|--------------------------|
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |

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

| Pump          | Bailer   | Air           | Flowing |
|---------------|----------|---------------|---------|
| Yield gal/min | Drawdown | Drill stem at | Time    |
| 1020          | 2'       | 78'           | 1 hr.   |
|               |          |               | 6 hr.   |

Temperature of water 56 Depth Artesian Flow Found \_\_\_\_\_Was a water analysis done? ☐ Yes By whom \_\_\_\_\_Did any strata contain water not suitable for intended use? ☐ Yes ☐ No☒ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ OtherDepth of strata: 10'

## (9) LOCATION OF WELL by legal description:

County Clatsop Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township 26 N or S Range 33 E or W. WM.  
 Section 35 NE 1/4 NE 1/4  
 Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_

Street Address of Well (or nearest address) 1 mile West on Tana Creek Rd. 1/2 mile North

## (10) STATIC WATER LEVEL:

10 ft. below land surface. Date 8-1-05  
 Artesian pressure \_\_\_\_\_ lb. per square inch Date \_\_\_\_\_

## (11) WATER BEARING ZONES:

Depth at which water was first found 13'

| From | To  | Estimated Flow Rate | SWL |
|------|-----|---------------------|-----|
| 13'  | 14' | 20                  | 10  |
| 106  | 107 | 20                  | 10  |
| 390  | 412 | 1020                | 10  |

## (12) WELL LOG:

Ground Elevation 4100

| Material   | From | To   | SWL |
|------------|------|------|-----|
| Top Soil   | 0    | 3'   |     |
| Brown clay | 3'   | 13'  | 10  |
| Gray clay  | 13   | 100' |     |
| rock       | 100  | 106  | 10  |
| Gray Clay  | 106  | 348  | 10  |
| rock       | 348  | 412  | 10  |

RECEIVED

SEP 20 2005

WATER RESOURCES DEPT  
SALEM, OREGON

RECEIVED

OCT 25 2005

WATER RESOURCES DEPT  
SALEM, OREGONDate started 7-5-05 Completed 8-16-05

## (unbonded) Water Well Constructor Certification:

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

WWC Number \_\_\_\_\_

Signed \_\_\_\_\_ Date \_\_\_\_\_

## (bonded) Water Well Constructor Certification:

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

WWC Number 1751Signed Kenneth E. Smith Date 9-14-05

(as required by ORS 537.765)

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

WELL ID. # L 53092

START CARD # 144825

**(2) TYPE OF WORK**  
☐ New Well ☐ Deepening ☒ Alteration (repair/recondition) ☐ Abandonment

**(3) DRILL METHOD:**  
☐ Rotary Air   ☐ Rotary Mud   ☒ Cable   ☐ Auger  
☐ Other \_\_\_\_\_

(4) PROPOSED USE:

☐ Domestic   ☐ Community   ☐ Industrial   ☒ Irrigation

☐ Thermal   ☐ Injection   ☐ Livestock   ☐ Other \_\_\_\_\_

**(5) BORE HOLE CONSTRUCTION:**  
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 95'  
Explosives used ☐ Yes ☒ No Type \_\_\_\_\_ Amount \_\_\_\_\_

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

☒ Other Bentonite WAS fourfold-packed 35

Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size of gravel \_\_\_\_\_

**(6) CASING/LINER:**

Drive Shoe used ☐ Inside ☒ Outside ☐ None

Final location of shoe(s) 40'

**(7) PERFORATIONS/SCREENS:**

☐ Perforations      Method \_\_\_\_\_

☐ Screens      Type \_\_\_\_\_ Material \_\_\_\_\_

| From | To | Slot size | Number | Diameter | Tele/pipe size | Casing                   | Lines                    |
|------|----|-----------|--------|----------|----------------|--------------------------|--------------------------|
| None |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |

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

|                                          |                                 |                              |                                                                       |
|------------------------------------------|---------------------------------|------------------------------|-----------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Pump | <input type="checkbox"/> Bailor | <input type="checkbox"/> Air | <input type="checkbox"/> Flowing<br><input type="checkbox"/> Artesian |
| Yield gal/min                            | Drawdown                        | Drill stem at                | Time                                                                  |
| 1800 gpm                                 | 19'                             |                              | 8 hr.                                                                 |

Temperature of water 57 Depth Arterial flow 1000 cc/min

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 232000

Depth of strata: \_\_\_\_\_

(9) LOCATION OF WELL by legal description:  
County Harney Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Township 26 N or S Range 33 E or W. WM.  
Section 35 SW 1/4 NW 1/4  
Tax Lot 5000 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) \_\_\_\_\_

**(10) STATIC WATER LEVEL:**  
14' ft. below land surface. Date 7-2-03  
 Artesian pressure \_\_\_\_\_ lb. per square inch Date \_\_\_\_\_

**(11) WATER BEARING ZONES:**

Depth at which water was first found 72'

| From | To  | Estimated Flow Rate | SWL |
|------|-----|---------------------|-----|
| 72'  | 85' | 2000 gpm            | 14' |
|      |     |                     |     |
|      |     |                     |     |
|      |     |                     |     |

**(12) WELL LOG:**  
Ground Elevation \_\_\_\_\_

| Material    | From | To  | SWL |
|-------------|------|-----|-----|
| TOP SOIL    | 0    | 3'  |     |
| BROWN CLAY  | 3'   | 35' |     |
| BASALT BLK  | 35'  | 72' | 14' |
| CINDERS BLK | 72'  | 85' | 14' |

[illegible]

Date started 6-30-63 Completed 7-2-63

**(unbonded) Water Well Constructor Certification:**

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

Signed \_\_\_\_\_ WWC Number \_\_\_\_\_  
Date \_\_\_\_\_

**(bonded) Water Well Constructor Certification:**

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

Signed Gerdi Valentin WWC Number 1675  
Date 7-2-03

SALEM OREGON  
ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER



NOTICE TO WATER WELL CONTRACTOR  
The original and first copy  
of this report are to be  
filed with the

STATE ENGINEER, SALEM, OREGON 97310  
within 30 days from the date  
of well completion.

# WATER WELL REPORT

STATE OF OREGON

(Please type or print)

(Do not write above this line)

RECEIVED

OCT 14 1977

WATER RESOURCES DEPT.

State Well No. 2605/33E-35

State Permit No.

## (1) OWNER:

Name John Rossberg Fred Kregor  
Address Crane, Oregon Princeton, Oreg.

## (2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

## (3) TYPE OF WELL:

Rotary ☐ Driven ☐  
Cable ☒ Jetted ☐  
Dug ☐ Bored ☐

## (4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐  
Irrigation ☒ Test Well ☐ Other ☐

## (10) LOCATION OF WELL:

County Harney Driller's well number  
SE  $\frac{1}{4}$  Section 36 T. 26S R. 33E W.M.

Bearing and distance from section or subdivision corner

## (11) WATER LEVEL: Completed well.

Depth at which water was first found 30 ft.

Static level 18 ft. below land surface. Date May 11

Artesian pressure lbs. per square inch. Date

## (12) WELL LOG: Diameter of well below casing 12

Depth drilled 350 ft. Depth of completed well 350 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

| MATERIAL     | From | To  | SWL |
|--------------|------|-----|-----|
| Topsoil      | 0    | 3   | 0   |
| Clay, yellow | 3    | 30  | 0   |
| Clay green   | 30   | 45  | 30  |
| Clay, blue   | 45   | 75  | 30  |
| Clay, black  | 75   | 100 | 30  |
| Clay, blue   | 100  | 125 | 30  |
| Clay, black  | 125  | 195 | 30  |
| Clay, green  | 195  | 250 | 30  |
| Clay gray    | 250  | 330 | 20  |
| Rock black   | 330  | 350 | 20  |

Work started May 11, 1975 Completed June 11, 1975

Date well drilling machine moved off of well June 11, 1975

## Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] John W. Rossberg Date Dec. 30, 1975

(Drilling Machine Operator)

Drilling Machine Operator's License No. 269

## Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name Rossberg & Son  
(Person, firm or corporation) (Type or print)

Address Crane, Oregon

[Signed] John W. Rossberg  
(Water Well Contractor)

Contractor's License No. 272 Date Dec. 30, 1975

## (9) CONSTRUCTION:

Well seal—Material used Cement

Well sealed from land surface to 20 ft.

Diameter of well bore to bottom of seal 14 in.

Diameter of well bore below seal 12 in.

Number of sacks of cement used in well seal 8 sacks

Number of sacks of bentonite used in well seal \_\_\_\_\_ sacks

Brand name of bentonite \_\_\_\_\_

Number of pounds of bentonite per 100 gallons \_\_\_\_\_

of water \_\_\_\_\_ lbs./100 gals.

Was a drive shoe used? ☒ Yes ☐ No Plugs \_\_\_\_\_ Size, location \_\_\_\_\_ ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? \_\_\_\_\_ depth of strata \_\_\_\_\_

Method of sealing strata off \_\_\_\_\_

Was well gravel packed? ☐ Yes ☒ No Size of gravel: \_\_\_\_\_

Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_

# NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

STATE ENGINEER, SALEM 10, OREGON within 30 days from the date of well completion.

RECEIVED  
MAY 23 1966

## WATER WELL REPORT

STATE OF OREGON

(Please type or print)

G-2975

State Well No.

State Permit No.

33  
26/12B1

G-2774

### (1) OWNER:

Name Boydell Butte Ranch  
Address Princeton, Oreg

### (2) LOCATION OF WELL:

County Harney Driller's well number  
N 1/2 of N 1/2 of Section 12 T. 26S. R. 33E W.M.  
Bearing and distance from section or subdivision corner

### (3) TYPE OF WORK (check):

Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐  
If abandonment, describe material and procedure in item 12.

### (4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐  
Irrigation ☒ Test Well ☐ Other ☐

### (5) TYPE OF WELL:

Rotary ☐ Driven ☐  
Cable ☒ Jetted ☐  
Dug ☐ Bored ☐

### (6) CASING INSTALLED:

Threaded ☐ Welded ☒

12" Diam. from 0 ft. to 177 ft. Gage .250  
" Diam. from ft. to ft. Gage  
" Diam. from ft. to ft. Gage

### (7) PERFORATIONS:

Perforated? ☐ Yes ☒ No

Type of perforator used

Size of perforations in. by in.  
perforations from ft. to ft.  
perforations from ft. to ft.  
perforations from ft. to ft.  
perforations from ft. to ft.  
perforations from ft. to ft.

### (8) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name  
Model No.  
Diam. Slot size Set from ft. to ft.  
Diam. Slot size Set from ft. to ft.

### (9) CONSTRUCTION:

Well seal—Material used in seal Bentinite  
Depth of seal 30 ft. Was a packer used? no  
Diameter of well bore to bottom of seal 4 1/2 in.  
Were any loose strata cemented off? ☐ Yes ☒ No Depth  
Was a drive shoe used? ☒ Yes ☐ No  
Was well gravel packed? ☐ Yes ☒ No Size of gravel  
Gravel placed from ft. to ft.  
Did any strata contain unusable water? ☐ Yes ☒ No  
Type of water? Depth of strata  
Method of sealing strata off

### (10) WATER LEVELS:

Static level 24 ft. below land surface Date 9/25/63  
Artesian pressure lbs. per square inch Date

### (11) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☐ No If yes, by whom? driller

Yield: 1253 gal./min. with 26 ft. drawdown after 30 hrs.

" " " "

" " " "

Baller test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m. Date

Temperature of water 60 Was a chemical analysis made? ☐ Yes ☒ No

### (12) WELL LOG:

Diameter of well below casing 12"

Depth drilled 244 ft. Depth of completed well 240 ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

| MATERIAL           | FROM | TO   |
|--------------------|------|------|
| TOP SOIL           | 0    | 4'   |
| HARD PAN           | 4'   | 17'  |
| FINE SAND          | 17'  | 28'  |
| BREEK CLAY         | 28'  | 93'  |
| CLAY & SAND MIXED  | 93'  | 160' |
| CLAY & SANDSTONE   | 160' | 181' |
| CINDER ROCK        | 181' | 196' |
| PUMIC ROCK         | 196' | 243' |
| LOOSE PUMIC GRAVEL | 243' | 244' |

Copy

Work started 9/20 1963 Completed 9/25 1963  
Date well drilling machine moved off of well 9/29 1963

### (13) PUMP:

Manufacturer's Name  
Type: H.P.

### Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME John W. ROSSBERG  
(Person, firm or corporation) (Type or print)

Address Box 443 BURNS, OREG.

Drilling Machine Operator's License No. 269

[Signed] John W. Rossberg  
(Water Well Contractor)

Contractor's License No. 272 Date 9/29, 1963

(USE ADDITIONAL SHEETS IF NECESSARY)







# RECEIVED

WELL I.D.# L05041

STATE OF OREGON 50135 harn MAR - 7 1997  
 WATER SUPPLY WELL REPORT WATER RESOURCES DEPT.  
 (as required by ORS 537.765)

(START CARD) # 2185990

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

(1) OWNER: Well Number \_\_\_\_\_

Name Roger Harworth

Address P.O. Box 2030

City Princeton State OR Zip 97721

(2) TYPE OF WORK

☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:

☐ Rotary Air ☐ Rotary Mud ☒ Cable ☐ Auger

☐ Other \_\_\_\_\_

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation

☐ Thermal ☐ Injection ☐ Livestock ☐ Other \_\_\_\_\_

(5) BORE HOLE CONSTRUCTION:

Special Construction approval ☐ Yes ☒ No Depth of Completed Well 300 ft.

Explosives used ☐ Yes ☒ No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE

SEAL

Diameter From To Material From To Sacks or pounds

12" 0 22' Cement -2' 22' 21

22" \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

12" 22' 300 \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

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

☐ Other \_\_\_\_\_

Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_

Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size of gravel \_\_\_\_\_

(6) CASING/LINER:

Diameter From To Gauge Steel Plastic Welded Threaded

Casing: 12" +2 98' 250 ☒ ☐ ☒ ☐

\_\_\_\_\_ ☐ ☐ ☐ ☐

\_\_\_\_\_ ☐ ☐ ☐ ☐

\_\_\_\_\_ ☐ ☐ ☐ ☐

Liner: \_\_\_\_\_ ☐ ☐ ☐ ☐

\_\_\_\_\_ ☐ ☐ ☐ ☐

Final location of shoe(s) 98'

(7) PERFORATIONS/SCREENS:

☐ Perforations Method \_\_\_\_\_

☐ Screens Type \_\_\_\_\_ Material \_\_\_\_\_

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

None \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

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

☒ Pump ☐ Bailer ☐ Air ☐ Flowing

Yield gal/min Drawdown Drill stem at Time

1100 34' \_\_\_\_\_ 1 hr.

\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

Temperature of water 63 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: 64' - 87'

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(9) LOCATION OF WELL by legal description:

County Harney Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

Township 27 N or S Range 33 E or W. WM.

Section 12 NW 1/4 NE 1/4

Tax Lot 400 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_

Street Address of Well (or nearest address) 1/2 mile south of

Old Princeton

(10) STATIC WATER LEVEL:

16 ft. below land surface. Date 2-24-97

Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:

Depth at which water was first found 16 Feet

| From        | To          | Estimated Flow Rate | SWL       |
|-------------|-------------|---------------------|-----------|
| <u>16'</u>  | <u>17'</u>  | <u>5 gpm</u>        | <u>16</u> |
| <u>64'</u>  | <u>87'</u>  | <u>100 gpm</u>      | <u>16</u> |
| <u>176'</u> | <u>264'</u> | <u>500 gpm</u>      | <u>16</u> |
| <u>264'</u> | <u>276'</u> | <u>200 gpm</u>      | <u>16</u> |

(12) WELL LOG:

Ground Elevation \_\_\_\_\_

| Material               | From       | To         | SWL       |
|------------------------|------------|------------|-----------|
| <u>Sandy loam</u>      | <u>0</u>   | <u>3</u>   |           |
| <u>Brown clay</u>      | <u>3</u>   | <u>64</u>  | <u>16</u> |
| <u>Brown sand</u>      | <u>64</u>  | <u>87</u>  | <u>16</u> |
| <u>Sandstone Brown</u> | <u>87</u>  | <u>176</u> | <u>16</u> |
| <u>Claystone Brown</u> | <u>176</u> | <u>264</u> | <u>16</u> |
| <u>Brown clay with</u> |            |            |           |
| <u>coarse sand</u>     | <u>264</u> | <u>276</u> |           |
| <u>Brown clay</u>      | <u>276</u> | <u>300</u> | <u>16</u> |

# RECEIVED

FEB 23 2000

WATER RESOURCES DEPT  
 SALEM OREGON

Date started 1-25-97 Completed 2-24-97

(unbonded) Water Well Constructor Certification:

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

WWC Number \_\_\_\_\_

Signed \_\_\_\_\_

Date \_\_\_\_\_

(bonded) Water Well Constructor Certification:

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

WWC Number 1435

Signed Joe Valentino

Date 2-24-97

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

NOTICE TO WATER WELL CONTRACTOR  
The original and first copy  
of this report are to be  
filed with the

WATER WELL REPORT

STATE OF OREGON

(Please type or print)

DEC 20 1976

State Well No. 27E/33E-1164

State Permit No. \_\_\_\_\_

STATE ENGINEER, SALEM, OREGON 97310  
within 30 days from the date  
of well completion.

(Do not write above this line)

WATER RESOURCES DEPT.

(1) OWNER:

Name Tom Davies  
Address P.O. Box 30  
Princeton, Ore. 97721

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 13.

(3) TYPE OF WELL:

Rotary ☒ Driven ☐  
Cable ☐ Jetted ☐  
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐  
Irrigation ☒ Test Well ☐ Other ☐

CASING INSTALLED:

Threaded ☐ Welded ☒

12" Diam. from 0 ft. to 198 ft. Gage 250

" Diam. from " ft. to " ft. Gage "

" Diam. from " ft. to " ft. Gage "

PERFORATIONS:

Perforated? ☒ Yes ☐ No

Type of perforator used Son (see Perforated)  
Size of perforations 2 in. by 1/8 in.  
2,412 perforations from 92 ft. to 198 ft.  
perforations from " ft. to " ft.  
perforations from " ft. to " ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☐ No

Manufacturer's Name \_\_\_\_\_  
Type \_\_\_\_\_ Model No. \_\_\_\_\_  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

(8) WELL TESTS:

Drawdown is amount water level is  
lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? Bassberg  
Yield: 1300 gal./min. with 35 ft. drawdown after 3 hrs.  
700 " 35 " 1 "  
1300 " 35 " 2 "  
Baller test gal./min. with ft. drawdown after hrs.  
Artesian flow g.p.m.

Temperature of water 60 Depth artesian flow encountered \_\_\_\_\_ ft.

(9) CONSTRUCTION:

Well seal—Material used Cement  
Well sealed from land surface to 20 ft.  
Diameter of well bore to bottom of seal 18 in.  
Diameter of well bore below seal 18 in.  
Number of sacks of cement used in well seal 18 sacks  
Number of sacks of bentonite used in well seal \_\_\_\_\_ sacks  
Brand name of bentonite \_\_\_\_\_  
Number of pounds of bentonite per 100 gallons  
of water \_\_\_\_\_  
Was a drive shoe used? ☐ Yes ☒ No Plugs \_\_\_\_\_ Size: location \_\_\_\_\_ ft.  
Did any strata contain unusable water? ☐ Yes ☒ No  
Type of water? \_\_\_\_\_ depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_  
Was well gravel packed? ☒ Yes ☐ No Size of gravel: 48  
Gravel placed from 20 ft. to 198 ft.

(10) LOCATION OF WELL:

County Haney Driller's well number 6  
NE 1/4 NW 1/4 Section 17 T. 27 S. 33 E W.M.  
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 80 ft.  
Static level 50 ft. below land surface. Date 11-1-76  
Artesian pressure \_\_\_\_\_ lbs. per square inch. Date \_\_\_\_\_

(12) WELL LOG:

Diameter of well below casing 0

Depth drilled 198 ft. Depth of completed well 198 ft.

Formation: Describe color, texture, grain size and structure of materials;  
and show thickness and nature of each stratum and aquifer penetrated,  
with at least one entry for each change of formation. Report each change in  
position of Static Water Level and indicate principal water-bearing strata.

| MATERIAL                        | From | To  | SWL |
|---------------------------------|------|-----|-----|
| Top Soil                        | 0    | 2   |     |
| Clay, sand, brown, fine         | 2    | 13  |     |
| Shale, brown                    | 13   | 25  |     |
| Sand, clay, brown, fine         | 25   | 31  |     |
| Sand, rock, soft, fract., brown | 31   | 36  |     |
| Sand, clay, brown, fine         | 36   | 49  |     |
| Shale, soft, brown              | 49   | 80  |     |
| *Sandstone, fract., brown       | 80   | 105 | 50  |
| Clay, brown                     | 105  | 108 |     |
| Sandstone, brown                | 108  | 113 |     |
| *Shale, fract., brown           | 113  | 122 | 50  |
| Shale, fract., blue             | 122  | 152 |     |
| *Rock, fract., brown            | 152  | 175 |     |
| Rock, lamin, grey               | 175  | 189 |     |
| *Cinders, red                   | 189  | 191 |     |
| *Rock, lamin, grey              | 191  | 197 |     |
| Rock, black                     | 197  | 198 |     |

Work started 10-29 1976 Completed 11-31 1976  
Date well drilling machine moved off of well 12-1 1976

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision.  
Materials used and information reported above are true to my  
best knowledge and belief.

[Signed] Bob Kern Date 12-21, 1976  
(Drilling Machine Operator)

Drilling Machine Operator's License No. 994

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is  
true to the best of my knowledge and belief.

Name B & G Drilling (Type or print)  
(Person, firm or corporation)

Address P.O. Box 800 / Hines, Ore. 97738

[Signed] George J. Warrwright  
(Water Well Contractor)

Contractor's License No. 637 Date 12-21, 1976

**OBSERVATION WELL WATER WELL REPORT**

STATE OF OREGON

State Well No.

27/33-2D(11)

State Permit No.

U-724

**(1) OWNER:**

Name R. F. Upton  
Address Princeton Oregon

**(2) LOCATION OF WELL:**

County Honey Owner's number, if any  
1/4 1/4 Section 2 T. 27S R. 33E W.M.

Bearing and distance from section or subdivision corner

S 53°49'E 923.0 FEET FROM THE  
N.W. CORNER OF SECTION 2 TOWNSHIP  
27 SOUTH, RANGE 33 EAST W.M.

Elev. 4116

**TYPE OF WORK (check):**

Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐  
If abandonment, describe material and procedure in Item 11.

**(4) PROPOSED USE (check):**

Residential ☐ Industrial ☐ Municipal ☐  
Agriculture ☒ Test Well ☐ Other ☐

**(5) TYPE OF WELL:**

Rotary ☐ Driven ☐  
Cable ☒ Jetted ☐  
Dug ☐ Bored ☐

**(6) CASING INSTALLED:**

Threaded ☐ Welded ☐

16 " Diam. from 0 ft. to 52 ft. Gage 10  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_

**(7) PERFORATIONS:**

Perforated? ☒ Yes ☐ No

Type of perforator used Star - 1/4" Wair  
SIZE of perforations 3/8 in. by 1-1/2 in.  
4 rows perforations from 35 ft. to 47 ft.  
perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**SCREENS:**

Well screen installed ☒ Yes ☐ No

Manufacturer's Name \_\_\_\_\_ Model No. \_\_\_\_\_  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**CONSTRUCTION:**

all gravel packed? ☐ Yes ☒ No Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Was a surface seal provided? ☐ Yes ☒ No To what depth? \_\_\_\_\_ ft.  
Material used in seal: \_\_\_\_\_  
Did any strata contain unusable water? ☐ Yes ☒ No  
Type of water? ground Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

**(10) WATER LEVELS:**

Static level 2 ft ft. below land surface Date 3/15/54  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_

Log Accepted by:

[Signed] R. F. Upton Date March 12, 1958  
(Owner)

**(11) WELL TESTS:**

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? Self  
Yield: 300 gal./min. with 30 ft. drawdown after 3 hrs.  
" 700 " 30 " 3 "  
" 1500 " 6 " 20 "

Bailer test gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

Artesian flow g.p.m. Date \_\_\_\_\_

Temperature of water \_\_\_\_\_ Was a chemical analysis made? ☐ Yes ☒ No

**(12) WELL LOG:**

Diameter of well 16 inches.

Depth drilled 176 ft. Depth of completed well 176 ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

| MATERIAL                                     | FROM | TO  |
|----------------------------------------------|------|-----|
| Sandy topsoil                                | 0    | 2   |
| lt. Hardpan                                  | 2    | 10  |
| lt. Clay                                     | 10   | 22  |
| Sandy silt clay                              | 22   | 31  |
| Silt                                         | 31   | 39  |
| Sand - gravel - clay                         | 39   | 47  |
| Broken lava                                  | 47   | 51  |
| Lava - no apparent open spaces               | 51   | 169 |
| Gravel - lava - cinder and clay conglomerate | 169  | 176 |

**RECEIVED**  
**RECEIVED** MAR 17 1958  
STATE ENGINEER  
SALEM, OREGON  
WATER RESOURCES DEPT  
SALEM OREGON

Work started 2/54 19 Completed 3/54 19

**(13) PUMP:**

Manufacturer's Name Western Roller  
Type: Turbine - Belt Dr. H.P.

**Well Driller's Statement:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Rich Knoblock  
(Person, firm, or corporation) (Type or print)

Address Rt 1 Caldwell Ida

Driller's well number \_\_\_\_\_

[Signed] Rich Knoblock  
(Well Driller)

License No. 220 Date 2/20, 1958

NOTICE TO WATER WELL CONTRACTOR  
The original and first copy of this report  
are to be filed with the

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

WATER WELL REPORT

STATE OF OREGON

(Please type or print)

Do not write above this line)

State Well No. 275/33E-1d

State Permit No.

WATER RESOURCES DEPT.

(1) OWNER:

Name Ralph Killinger  
Address P.O. Box 25 Paine, OR 97721

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐  
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐  
Cable ☒ Jetted ☐  
Dig ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐  
Irrigation ☒ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threated ☐ Welded ☒  
12" Diam. from 0 ft. to 80 ft. Gage 250  
" Diam. from ft. to ft. Gage  
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Perforated? ☐ Yes ☒ No.

Type of perforator used

Size of perforations in. by in.  
perforations from ft. to ft.  
perforations from ft. to ft.  
perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name  
Type Model No.  
Diam. Slot size Set from ft. to ft.  
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No. If yes, by whom? DAMAN  
d: 1365 gal./min. with 30 ft. drawdown after 2 hrs.

Bailer test gal./min. with ft. drawdown after hrs.  
Artesian flow g.p.m.  
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used CLAY  
Well sealed from land surface to 80 ft.  
Diameter of well bore to bottom of seal 13 in.  
Diameter of well bore below seal 12 in.  
Number of sacks of cement used in well seal sacks  
How was cement grout placed?

Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.  
Did any strata contain unusable water? ☐ Yes ☒ No  
Type of water? depth of strata  
Method of sealing strata off  
Was well gravel packed? ☐ Yes ☒ No Size of gravel:  
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County HARNEY Driller's well number  
Section 1 T. 22S R. 33 E W.M.  
Bearing and distance from section or subdivision corner  
900 FT N. of S. Line 80 FT N of E  
LINE

(11) WATER LEVEL: Completed well.

Depth at which water was first found 19 ft.  
Static level 17 ft. below land surface. Date 16 JUNE 78  
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 12"

Depth drilled 166 ft. Depth of completed well 166 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

| MATERIAL                 | From | To  | SWL |
|--------------------------|------|-----|-----|
| BROWN CLAY               | 0    | 18  | N   |
| Blue CLAY                | 18   | 69  | 19  |
| BLACK CLAY               | 69   | 102 | 19  |
| FINE SAND + CLAY         | 102  | 110 | 19  |
| SAND STONE               | 110  | 125 | 19  |
| SAND BLACK CLAY          | 125  | 145 | 19  |
| BLACK sand - Small grain | 145  | 160 | 19  |
| 160 PACK                 | 160  | 162 | 19  |
| Gravel - Sand            | 162  | 166 | 19  |

RECEIVED

FEB 23 2008

WATER RESOURCES DEPT.  
SALEM OREGON

Work started 15 June 1978 Completed 1 July 1978  
Date well drilling machine moved off of well 15 July 1978

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Ralph Killinger Date 15 July 1978  
(Drilling Machine Operator)

Drilling Machine Operator's License No. 9020

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name (Person, firm or corporation) (Type or print)

Address

[Signed] (Water Well Contractor)

Contractor's License No. Date 19

**WATER WELL REPORT**  
STATE OF OREGON

**RECEIVED**  
SEP 10 1985

(16)

State Well No. 275/33E-1aa

State Permit No.

*Harn 1475*

**WATER RESOURCES DEPT.**

(1) OWNER: SALEM, OREGON  
Name *Ralph Killinger*  
Address *P.O. Box 25*  
City *Princeton* State *Oregon*

(2) TYPE OF WORK (check):  
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐  
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL: (4) PROPOSED USE (check):  
Rotary Air ☐ Driven ☐ Domestic ☐ Industrial ☐ Municipal ☐  
Rotary Mud ☐ Dug ☐ Irrigation ☒ Test Well ☐ Other ☐  
Bored ☐ Thermal: Withdrawal ☐ ReInjection ☐

(5) CASING INSTALLED: Steel ☒ Plastic ☐  
Threaded ☐ Welded ☒  
12" Diam from +1 ft. to 84 ft. Gauge 250  
"Diam from ft. to ft. Gauge

LINER INSTALLED:  
"Diam from ft. to ft. Gauge

(6) PERFORATIONS: Perforated? ☐ Yes ☒ No  
Type of perforator used  
Size of perforations in by in.  
perforations from ft. to ft.  
perforations from ft. to ft.  
perforations from ft. to ft.

(7) SCREENS: Well screen installed? ☐ Yes ☒ No  
Manufacturer's Name  
Type Model No.  
Diam Slot Size Set from ft. to ft.  
Diam Slot Size Set from ft. to ft.

(8) WELL TESTS: Drawdown is amount water level is lowered below static level  
Was a pump test made? ☒ Yes ☐ No If yes, by whom? *Killinger*  
id: *1200* gal./min. with *35* ft. drawdown after *12* hrs.

Air test gal./min. with drill stem at ft. hrs.  
Bailer test gal./min. with ft. drawdown after hrs.  
Artesian flow g.p.m.  
Temperature of water *56* Depth artesian flow encountered ft.

(9) CONSTRUCTION: Special standards: Yes ☐ No ☒  
Well seal—Material used *Cement*  
Well sealed from land surface to *20* ft.  
Diameter of well bore to bottom of seal *16* in.  
Diameter of well bore below seal *12* in.  
Number of sacks of cement used in well seal *20* sacks  
How was cement grout placed? *Cement Pump + T.V. pipe*

Was pump installed? *Yes* Type *Turk* HP *15* Depth *25* ft.  
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.  
Did any strata contain unusable water? ☐ Yes ☒ No  
Type of Water? depth of strata  
Method of sealing strata off  
Was well gravel packed? ☐ Yes ☒ No Size of gravel:  
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:  
County *Harnoy* Driller's well number *1245*  
NE 1/4 NE 1/4 Section 1 T. 27S R. 33E W.M.  
Tax Lot # *GOT LOT 1* Lot Blk Subdivision  
Address at well location: *P.O. Box 25 Princeton*

(11) WATER LEVEL: Completed well.  
Depth at which water was first found *9* ft.  
Static level *9* ft. below land surface. Date *15 July*  
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing *12*  
Depth drilled *270* ft. Depth of completed well *270* ft.  
Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

| MATERIAL         | From | To  | SWL |
|------------------|------|-----|-----|
| Top Soil         | 0    | 4   |     |
| Clay Brown       | 4    | 140 | 9   |
| Clay Gray        | 40   | 70  | 9   |
| Clay - Sand      | 70   | 95  | 9   |
| Clay Gray        | 75   | 105 | 9   |
| Clay Blue        | 105  | 170 | 9   |
| Clay Gray        | 170  | 220 | 9   |
| Clay - Sand Dark | 220  | 240 | 9   |
| Clay Gray        | 240  | 265 | 9   |
| Rock             | 265  | 270 | 9   |

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FEB 23 2000

WATER RESOURCES DEPT  
SALEM, OREGON

Work started *5 Jul 1985* Completed *15 Aug 1985*  
Date well drilling machine moved off of well *25 Aug 1985*

(unbonded) Water Well Constructor Certification (if applicable):  
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.  
[Signed] Date, 19

Bonded Water Well Constructor Certification:  
Bond (number) Issued by: *Fidelity Co*  
Surety Company Name

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name *Ralph Killinger* (Type or print)  
Address *P.O. Box 25 Princeton, Or 97721*

[Signed] *Ralph Killinger*  
Water Well Constructor  
# *1245* Date *25 Aug 1985*

NOTICE TO WATER WELL CONSTRUCTOR  
The original and first copy of this report are to be filed with the

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

SP 45292-890