

# Application for Permanent Water Right Transfer



Oregon Water Resources Department  
725 Summer Street NE, Suite A  
Salem, Oregon 97301-1266  
(503) 986-0900  
www.oregon.gov/OWRD

## Part 1 of 5 – Minimum Requirements Checklist

**This transfer application will be returned if Parts 1 through 5 and all required attachments are not completed and included.**

For questions, please call (503) 986-0900, and ask for Transfer Section.

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Check all items included with this application. (N/A = Not Applicable)

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- Part 1 – Completed Minimum Requirements Checklist.
  - Part 2 – Completed Transfer Application Map Checklist.
  - Part 3 – Application Fee, payable by check to the Oregon Water Resources Department, and completed Fee Worksheet, page 3: **\$3,890**
  - Part 4 – Completed Applicant Information and Signature.
  - Part 5 – Information about Water Rights to be Transferred: **How many water rights are to be transferred? 1** List them here: **Certificate 95849**  
Please include a separate Part 5 for each water right. (See instructions on page 6)  
NOTE: A separate transfer application is required for each water right unless the criteria in OAR 690-380-3220 are met.
- Attachments:**
- Completed Transfer Application Map. (**Attachment 1**)
  - Completed Evidence of Use Affidavit and supporting documentation. (**Attachment 2**)
  - N/A Affidavit(s) of Consent from Landowner(s) (if the applicant does not own the land the water right is on.) (**Attachment 3 – Landowner Consent Forms**)
  - N/A Supplemental Form D – For water rights served by or issued in the name of an irrigation district. Complete when the transfer applicant is not the irrigation district.
  - N/A Oregon Water Resources Department’s Land Use Information Form with approval and signature from each local land use authority in which water is to be diverted, conveyed, and/or used. Not required if water is to be diverted, conveyed, and/or used only on federal lands or if **all** of the following apply: a) a change in place of use only, b) no structural changes, c) the use of water is for irrigation only, and d) the use is located within an irrigation district or an exclusive farm use zone. (**Attachment 4**)
  - N/A Water Well Report/Well Log for changes in point(s) of appropriation (well(s)) or additional point(s) of appropriation. (**Attachment 5, Attachment 6 – Basalt Aquifer Memo**)
  - N/A Geologist Report for a change from a surface water point of diversion to a ground water point of appropriation (well), if the proposed well is more than 500’ from the surface water source and more than 1000’ upstream or downstream from the point of diversion. See OAR 690-380-2130 for requirements and applicability.

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**(For Staff Use Only)**

**WE ARE RETURNING YOUR APPLICATION FOR THE FOLLOWING REASON(S):**

- |  |  |
|--|--|
| <input type="checkbox"/> Application fee not enclosed/insufficient | <input type="checkbox"/> Map not included or incomplete                  |
| <input type="checkbox"/> Land Use Form not enclosed or incomplete  | <input type="checkbox"/> Evidence of Use Form not enclosed or incomplete |
| <input type="checkbox"/> Additional signature(s) required          | <input type="checkbox"/> Part _____ is incomplete                        |

Other/Explanation \_\_\_\_\_

Staff: \_\_\_\_\_ 503- \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

## Part 2 of 5 – Transfer Application Map

Your transfer application will be returned if any of the map requirements listed below are not met.

Please be sure that the transfer application map you submit includes all the required items and matches the existing water right map. Check all boxes that apply.

- N/A Certified Water Right Examiner (CWRE) Stamp and Original Signature. For a list of CWREs, see [http://apps.wrd.state.or.us/apps/wr/cwre\\_license\\_view/](http://apps.wrd.state.or.us/apps/wr/cwre_license_view/). CWRE stamp and signature are not required for substitutions.
- N/A If **more than three** water rights are involved, separate maps are needed for each water right.
- Permanent quality printed with dark ink on good quality paper.
- The size of the map can be 8½ x 11 inches, 8½ x 14 inches, 11 x 17 inches, or up to 30 x 30 inches. For 30 x 30 inch maps, one extra copy is required.
- A north arrow, a legend, and scale.
- The scale of the map must be: 1 inch = 400 feet, **1 inch = 1,320 feet**, the scale of the Final Proof/Claim of Beneficial Use Map (the map used when the permit was certificated), the scale of the county assessor map if the scale is not smaller than 1 inch = 1,320 feet, or a scale that has been pre-approved by the Department.
- Township, Range, Section, ¼ ¼, DLC, Government Lot, and other recognized public land survey lines.
- Tax lot boundaries (property lines) are required. Tax lot numbers are recommended.
- Major physical features including rivers and creeks showing direction of flow, lakes and reservoirs, roads, and railroads.
- Major water delivery system features from the point(s) of diversion/appropriation such as main pipelines, canals, and ditches.
- Existing place of use that includes separate hachuring for each water right, priority date, and use including number of acres in each quarter-quarter section, government lot, or in each quarter-quarter section as projected within government lots, donation land claims, or other recognized public land survey subdivisions. If less than the entirety of the water right is being changed, a separate hachuring is needed for lands left unchanged.
- N/A Proposed place of use that includes separate hachuring for each water right, priority date, and use including number of acres in each quarter-quarter section, government lot, or in each quarter-quarter section as projected within government lots, donation land claims, or other recognized public land survey subdivisions.
- Existing point(s) of diversion or well(s) with distance and bearing or coordinates from a recognized survey corner. This information can be found in your water right certificate or permit.
- N/A If you are proposing a change in point(s) of diversion or well(s), show the proposed location and label it clearly with distance and bearing or coordinates. If GPS coordinates are used, latitude-longitude coordinates may be expressed as either degrees-minutes-seconds with at least one digit after the decimal (example – 42°32'15.5") or degrees-decimal with five or more digits after the decimal (example – 42.53764°).

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## Part 4 of 5 – Applicant Information and Signature

### Applicant Information

APPLICANT/BUSINESS NAME <b>City of Banks (Jolynn Becker, City Manager)</b>		PHONE NO.	ADDITIONAL CONTACT NO.
ADDRESS <b>13680 NW Main Street</b>			FAX NO.
CITY <b>Banks</b>	STATE <b>OR</b>	ZIP <b>97106</b>	E-MAIL <b>jbecker@cityofbanks.org</b>
BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.			

**Agent Information** – The agent is authorized to represent the applicant in all matters relating to this application.

AGENT/BUSINESS NAME <b>Bob Long, (CWRE, RG, RHG) CwM-H2O, LLC</b>		PHONE NO. <b>503-954-1626</b>	ADDITIONAL CONTACT NO.
ADDRESS <b>311 B Ave, Suite P</b>			FAX NO.
CITY <b>Lake Oswego</b>	STATE <b>OR</b>	ZIP <b>97034</b>	E-MAIL <b>bob.long@cwmh2o.com</b>
BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.			

Explain in your own words what you propose to accomplish with this transfer application, and why:

*City of Banks Certificate 95849 currently has only one approved point of appropriation (POA), Well-2. The purpose of this transfer application is to add additional POA locations to the Well-2 water right. Having multiple wells under Certificate 95849 will allow the City to optimize production under this right and limit peak summertime drawdowns in the basalt aquifer due to production from a single POA (Well-2) by distributing more moderate production across a multi-well system. The City also desires to implement an Aquifer Storage and Recovery (ASR) program to further protect the groundwater resource while developing additional peak-season supply capacity. This ASR program will require additional wells for injection and recovery.*

*This transfer application includes 6 additional POA locations. The City intends to develop between 1 and 3 new wells on Certificate 95849, though the precise locations are not yet known. Adding the 6 proposed locations will give the City the flexibility to move forward with well construction planning and negotiations with landowners at the selected sites. The proposed POAs are located on property not owned by the City. The City is currently in negotiations to purchase the land at one of the proposed locations (WTP). Landowner consent has been granted for the City to develop the remaining five proposed well locations, as documented in the attached consent forms.*

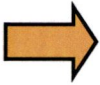
### Check One Box

- By signing this application, I understand that, upon receipt of the draft preliminary determination and prior to Department approval of the transfer, I will be required to provide landownership information and evidence that I am authorized to pursue the transfer as identified in OAR 690-380-4010(5); **OR**
- I affirm the applicant is a municipality as defined in ORS 540.510(3)(b) and that the right is in the name of the municipality or a predecessor; **OR**
- I affirm the applicant is an entity with the authority to condemn property and is acquiring by condemnation the property to which the water right proposed for transfer is appurtenant and have supporting documentation.

**By my signature below, I confirm that I understand:**

- Prior to Department approval of the transfer application, I may be required to submit payment to the Department for publication of a notice in a newspaper with general circulation in the area where the water right is located, once per week for two consecutive weeks. If more than one qualifying newspaper is available, I suggest publishing the notice in the following newspaper: Hillsboro News-Times.
- Amendments to the application may only be made in response to the Department's Draft Preliminary Determination (DPD). The applicant will have a period of at least 30 days to amend the application to address any issues identified by the Department in the DPD, or to withdraw the application. Note that amendments may be subject to additional fees, pursuant to ORS 536.050.
- Failure to complete an approved change in place of use and/or change in character of use, will result in loss of the water right (OAR 690-380-6010).
- Refunds may only be granted upon request and, as set forth in ORS 536.050(4)(a), if the Director determines that a refund of all or part of a fee is appropriate in the interests of fairness to the public or necessary to correct an error of the Department.

I (we) affirm that the information contained in this application is true and accurate.



*[Handwritten Signature]*  
Applicant signature

John Becker 4-10-24  
Print Name (and Title if applicable) Date  
City Manager

Is the applicant the sole owner of the land on which the water right, or portion thereof, proposed for transfer is located?  Yes  No\*

\*If NO, include signatures of all deeded landowners (and mailing and/or e-mail addresses if different than the applicant's) or attach **affidavits of consent (Attachment 3)** (and mailing and/or e-mail addresses) from all landowners or individuals/entities to which the water right(s) were conveyed.

Check the following boxes that apply:

- The applicant is responsible for completion of change(s). Notices and correspondence should continue to be sent to the applicant.
- The receiving landowner will be responsible for completing the proposed change(s) after the final order is issued. Copies of notices and correspondence should be sent to this landowner.
- Both the receiving landowner and applicant will be responsible for completion of change(s). Copies of notices and correspondence should be sent to this landowner and the applicant.

At this time, are the lands in this transfer application in the process of being sold?  Yes  No

If YES, and you know who the new landowner will be, please complete the receiving landowner information table below. If you do not know who the new landowner will be, then a request for assignment will have to be filed for at a later date.

If a property sells, the certificated water right(s) located on the land belong to the new owner, unless a sale agreement or other document states otherwise.

RECEIVING LANDOWNER NAME			PHONE NO.	ADDITIONAL CONTACT NO.
ADDRESS				FAX NO.
CITY	STATE	ZIP	E-MAIL	
Describe any special ownership circumstances:				
The confirming Certificate shall be issued in the name of: <input type="checkbox"/> Applicant <input type="checkbox"/> Receiving Landowner				

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Check here if any of the water rights proposed for transfer are or will be located within or served by an irrigation or other water district. (Tip: Complete and attach Supplemental Form D.)

IRRIGATION DISTRICT NAME _____	ADDRESS _____	
CITY _____	STATE _____	ZIP _____

Check here if water for any of the rights supplied under a water service agreement or other contract for stored water with a federal agency or other entity.

ENTITY NAME _____	ADDRESS _____	
CITY _____	STATE _____	ZIP _____

To meet State Land Use Consistency Requirements, you must list all county, city, municipal corporation, or tribal governments within whose jurisdiction water will be diverted, conveyed or used.

ENTITY NAME <b>City of Banks</b>	ADDRESS <b>13680 NW Main Street</b>	
CITY <b>Banks</b>	STATE <b>OR</b>	ZIP <b>97106</b>

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**Description of Water Delivery System**

System capacity: **Approximately 540 gallons per minute** (based on Banks’ 2022 WSMP)

Describe the current water delivery system or the system that was in place at some time within the last five years. Include information on the pumps, canals, pipelines, and sprinklers used to divert, convey, and apply the water at the authorized place of use.

*\*The City’s water system production capacity is estimated at about 540 gpm, though its conveyance system can accommodate much more than that. Well-2 is currently outfitted with a submersible pump and motor system capable of producing the full water right rate of 1.0 cfs (448 gpm) under the current water system configuration (pumping to the Carsten Reservoirs). Based on the City’s historic MDD, maximum consumption rates likely exceed 600 gpm for short periods, though the City’s distribution system has the capacity to convey an even higher rate. The additional wells proposed in this transfer will not increase the overall rate of production, but will instead distribute the current rate of production across the distribution system and allow the City to optimize overall annual production volume.*

**Table 1. Location of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA)**

(Note: If the POD/POA name is not specified on the certificate, assign it a name or number here.)

POD/POA Name or Number	Is this POD/POA Authorized or Proposed?	If POA, OWRD Well Log ID#	Twp	Rng	Sec	¼ ¼	Tax Lot, DLC, Gov’t Lot	Measured Distances (from a recognized survey corner)
<b>Well-2</b> (Behrman 2)	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	<b>WASH-62373</b>	<b>2 N 3 W 31</b>	<b>NE NW</b>	<b>0402</b>		120 ft S & 2,070 ft E of the NW Corner Sec 31	
<b>AN</b> (Aerts Rd North)	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	PROPOSED	2 N 3 W 31	NE NE	0100		275 ft S & 475 ft W of the NE Corner Sec 31	
<b>AS</b> (Aerts Rd South)	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	PROPOSED	2 N 3 W 31	NE SE	0100		2,500 ft N & 565 ft W of the SE Corner Sec 31	
<b>Park-A</b> (Park Primary)	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	PROPOSED	2 N 3 W 31	NE SW	0600		2,120 ft N & 2,970 ft W of the SE Corner Sec 31	
<b>Park-B</b> (Park Alternative)	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	PROPOSED	2 N 3 W 31	NW SE	0100		2,460 ft N & 2,520 ft W of the SE Corner Sec 31	
<b>Park-C</b> (Park Alternative)	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	PROPOSED	2 N 3 W 31	NW SE	0400		2,630 ft N & 2,540 ft W of the SE Corner Sec 31	
<b>WTP</b> (Water Treatment Plant)	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	PROPOSED	2 N 4 W 36	NE NE	0600		175 ft S & 335 ft W of the NW Corner Sec 31	

**Check all type(s) of change(s) proposed below (change “CODES” are provided in parentheses):**

- Place of Use (POU)
- Character of Use (USE)
- Point of Diversion (POD)
- Additional Point of Diversion (APOD)
- Surface Water POD to Ground Water POA (SW/GW)
- Supplemental Use to Primary Use (S to P)
- Point of Appropriation/Well (POA)
- Additional Point of Appropriation (APOA)
- Substitution (SUB)
- Government Action POD (GOV)

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**Will all of the proposed changes affect the entire water right?**

- Yes Complete only the Proposed (“to” or “on” lands) section of Table 2 on the next page. Use the “CODES” listed above to describe the proposed changes.
- No Complete all of Table 2 to describe the portion of the water right to be changed.

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Please use and attach additional pages of Table 2 as needed.  
See page 6 for instructions.

Do you have questions about how to fill-out the tables?  
Contact the Department at 503-986-0900 and ask for Transfer Staff.

**Table 2. Description of Changes to Water Right Certificate # 95849**

List the change proposed for the acreage in each ¼ ¼. If more than one change is proposed, specify the acreage associated with each change.  
If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

AUTHORIZED (the "from" or "off" lands) The listing that appears on the certificate BEFORE PROPOSED CHANGES List only that part or portion of the water right that will be changed.									Proposed Changes (see "CODES" from previous page)	PROPOSED (the "to" or "on" lands) The listing as it would appear AFTER PROPOSED CHANGES are made.								
Twp	Rng	Sec	¼ ¼	Tax Lot	Gvt Lot or DLC	Acres (if applicable)	POD(s) or POA(s) (name or number from Table 1)	Priority Date		Twp	Rng	Sec	¼ ¼	Tax Lot	Gvt Lot or DLC	Acres	POD(s) or POA(s) to be used (from Table 1)	Priority Date
									APOA	The City of Banks Municipal Service Area							WELL-2	12/5/2002
																	AN	
																	AS	
																	PARK-A	
																	PARK-B	
																	PARK-C	
																	WTP	
TOTAL ACRES																	TOTAL ACRES	

Additional remarks: *The proposed changes effect the entire water right. The place of use for Certificate 95849 is the City's municipal service area.*

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**ATTACHMENT 2: REPLACEMENT PAGE WITH TABLE 3 - T-14450**

**For Place of Use or Character of Use Changes**

Are there other water right certificates, water use permits or ground water registrations associated with the "from" or the "to" lands?  Yes  No

If YES, list the certificate, water use permit, or ground water registration numbers: N/A

Pursuant to ORS 540.510, any "layered" water use such as an irrigation right that is supplemental to a primary right proposed for transfer must be included in the transfer or be cancelled. Any change to a ground water registration must be filed separately in a ground water registration modification application.

~~**For Substitution (ground water supplemental irrigation will be substituted for surface water primary irrigation)**~~

~~Ground water supplemental Permit or Certificate # \_\_\_\_\_;  
Surface water primary Certificate # \_\_\_\_\_.~~

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~~**For a change from Supplemental Irrigation Use to Primary Irrigation Use**~~

~~Identify the primary certificate to be cancelled. Certificate # \_\_\_\_\_~~

**For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation:**

- Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map.

**Well-2 Well Log Attached, see Attachment 6 – Basalt Aquifer Memo**

**AND/OR**

- Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For *proposed wells not yet constructed or built*, provide "a best estimate" for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.

**Table 3. Construction of Point(s) of Appropriation**

Any well(s) in this listing must be clearly tied to corresponding well(s) described in Table 1 and shown on the accompanying application map. Failure to provide the information will delay the processing of your transfer application until it is received. The information is necessary for the department to assess whether the proposed well(s) will access the same source aquifer as the authorized point(s) of appropriation (POA). The Department is prohibited by law from approving POA changes that do not access the same source aquifer.

Proposed or Authorized POA Name	Is well already built?	If an existing well, OWRD Well ID Tag No. L- _____	Total well depth	Casing Diam.	Casing Intervals (feet)	Seal depth(s)	Perforated or screened intervals	Static water level	Source aquifer	Well - specific rate (cfs or gpm).
WELL-2	YES	WASH-62373	665 ft	12"	0-300 ft	0-300 ft	Open-hole to 665 ft	34.4 ft bgs*	CRBG	1.0 CFS
AN	NO	-	650-750 ft	16"	Wells will be cased and sealed from the surface to approx. 200-250 ft (depending on conditions encountered in the field)	Open-hole to depth of ~650-750 ft	~30-50 ft	CRBG	1.0 CFS	
AS	NO	-								
PARK-A	NO	-								
PARK-B	NO	-								
PARK-C	NO	-								
WTP	NO	-								

\*Depth measurement collected on April 7, 2023.

\*Well construction parameters are estimated based on Well-2's design. Some variability is expected between locations due to surface elevation, dip of basalt strata locally and regionally, and other subsurface conditions.

# ATTACHMENT 2 Application for Water Right Transfer Evidence of Use Affidavit



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

Please print legibly or type. Be as specific as possible. Attach additional pages if you need more spacing.  
Supporting documentation must be attached.

State of Oregon )  
 ) ss  
County of WASHINGTON)

I, JOLYNN BECKER, in my capacity as CITY MANAGER OF THE CITY OF BANKS,  
mailing address 13680 NW MAIN STREET, BANKS, OR 97106  
telephone number (503) 324-6674, being first duly sworn depose and say:

1. My knowledge of the exercise or status of the water right is based on (check one):

- Personal observation  Professional expertise

2. I attest that:

Water was used during the previous five years on the **entire** place of use for  
Certificates # 95849; **OR**

My knowledge is specific to the use of water at the following locations within the last five years:

Certificate #	Township	Range	Mer	Sec	¼ ¼	Gov't Lot or DLC	Acres (if applicable)

OR

- Confirming Certificate # 95849 has been issued within the past five years (issued 8/6/2021); **OR**
- Part or all of the water right was leased instream at some time within the last five years. The instream lease number is: \_\_\_\_\_ (Note: If the entire right proposed for transfer was not leased, additional evidence of use is needed for the portion not leased instream.); **OR**
- The water right is not subject to forfeiture and documentation that a presumption of forfeiture for non-use would be rebutted under ORS 540.610(2) is attached.
- Water has been used at the actual current point of diversion or appropriation for more than 10 years for Certificate # \_\_\_\_\_ (For Historic POD/POA Transfers)

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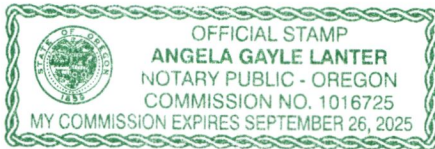
3. The water right was used for: (e.g., crops, pasture, etc.): \_\_\_\_\_

4. I understand that if I do not attach one or more of the documents shown in the table below to support the above statements, my application will be considered incomplete.

John Beck  
Signature of Affiant

4-10-24  
Date

Signed and sworn to (or affirmed) before me this 10<sup>th</sup> day of April, 2024.



Angela B Lanter  
Notary Public for Oregon

My Commission Expires: September 26, 2025

Supporting Documents	Examples
<input checked="" type="checkbox"/> Copy of a water right certificate that has been issued within the last five years. (not a remaining right certificate)	Copy of <b>confirming</b> water right certificate that shows issue date
<input type="checkbox"/> Copies of receipts from sales of irrigated crops or for expenditures related to use of water	<ul style="list-style-type: none"> <li>• Power usage records for pumps associated with irrigation use</li> <li>• Fertilizer or seed bills related to irrigated crops</li> <li>• Farmers Co-op sales receipt</li> </ul>
<input checked="" type="checkbox"/> Records such as FSA crop reports, irrigation district records, NRCS farm management plan, or records of other water suppliers	<ul style="list-style-type: none"> <li>• <b>District assessment records for water delivered/produced</b></li> <li>• Crop reports submitted under a federal loan agreement</li> <li>• Beneficial use reports from district</li> <li>• IRS Farm Usage Deduction Report</li> <li>• Agricultural Stabilization Plan</li> <li>• CREP Report</li> </ul>
<input type="checkbox"/> Aerial photos containing sufficient detail to establish location and date of photograph	<p>Multiple photos can be submitted to resolve different areas of a water right. If the photograph does not print with a "date stamp" or without the source being identified, the date of the photograph and source should be added.</p> <p style="text-align: right;">Received APR 29 2024 OWRD</p> <p>Sources for aerial photos: OSU – <a href="http://www.oregonexplorer.info/imagery">www.oregonexplorer.info/imagery</a> OWRD – <a href="http://www.wrd.state.or.us">www.wrd.state.or.us</a> Google Earth – <a href="http://earth.google.com">earth.google.com</a> TerraServer – <a href="http://www.terraserver.com">www.terraserver.com</a></p>
<input type="checkbox"/> Approved Lease establishing beneficial use within the last 5 years	Copy of instream lease or lease number

STATE OF OREGON  
COUNTY OF WASHINGTON  
CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

CITY OF BANKS  
13680 NW MAIN ST  
BANKS OR 97106

confirms the right to the use of water perfected under the terms of Permit G-16312. 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-15887

SOURCE OF WATER: WELL 2 (WASH 62373) IN WEST FORK DAIRY CREEK BASIN

PURPOSE OR USE: MUNICIPAL USE

MAXIMUM RATE: 1.0 CUBIC FOOT PER SECOND

PERIOD OF USE: YEAR ROUND

DATE OF PRIORITY: DECEMBER 5, 2002

WELL LOCATION:

Twp	Rng	Mer	Sec	Q-Q	Measured Distances
2 N	3 W	WM	31	NE NW	WELL 2 (WASH 62373) - 120 FEET SOUTH AND 2070 FEET EAST FROM NW CORNER, SECTION 31

THE PLACE OF USE IS LOCATED AS FOLLOWS:

WITHIN THE SERVICE BOUNDARY OF THE CITY OF BANKS

Measurement, recording and reporting conditions:

- A. The water user shall maintain the totalizing flow meter or other suitable measuring device approved by the Director in good working order at each point of appropriation. The water user shall keep a complete record of the amount of water used each month, and shall submit an annual report which includes the recorded water use measurements to the Department by December 1 of each year. Further, the Director may require the water user to report general water-use information, including the place and nature of use of water under the right.

**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.

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- B. The water user shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.
- (1) Use of water from the well, as allowed herein, shall be controlled or shut off if the well displays:
- (a) An average water level decline of three or more feet per year for five consecutive years; or
  - (b) A total water level decline of fifteen or more feet; or
  - (c) A hydraulic interference decline of fifteen or more feet in any neighboring well providing water for senior exempt uses or wells covered by prior rights.
- (2) The water user shall be responsible for complying with each of the following requirements for measuring water levels in the well.
- (a) A water level measurement shall be made each year during the period March 1 through March 31.
  - (b) All water level measurements shall be made by a qualified individual. Qualified individuals are certified water rights examiners, registered geologists, registered professional engineers, licensed land surveyors, licensed water well constructor, licensed pump installer, or the water user/appropriator.
  - (c) Any qualified individual measuring a well shall use standard methods of procedure and equipment designed for the purpose of well measurement. The equipment used shall be well suited to the conditions of construction at the well. A list of standard methods of procedure and suitable equipment shall be available from the Department.
  - (d) The water user shall submit a record of the measurement to the Department on a form available from the Department. The record of measurement shall include both measurements and calculations, shall include a certification as to their accuracy signed by the individual making the measurements, and shall be submitted to the Department within 90 days from the date of measurement. The Department shall determine when any of the declines cited in section (1) are evidenced by the well measurement required in section (2).

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

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

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

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

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

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.

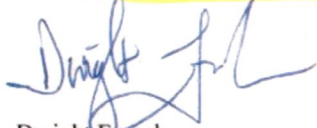
By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

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

This right does not allow unauthorized inundation of property not under the ownership of the water user.

The right to the use of the water for the above purpose is restricted to beneficial use on the lands or place of use described; however, water may be applied to lands which are not specifically described above, provided the holder of this right complies with ORS 540.510(3).

Issued **AUG 06 2021**



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

Received  
APR 29 2024

OWRD

# Water Use Report Based on Water Right



Cert.95849 OR \*

CITY OF BANKS 13680 NW MAIN ST BANKS, OR 97106

Records per page: 10 [View All](#)

## Acre-feet (AF) of Water Used

Water Year*	Report ID	Facility	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Water Used	Irrigated Acres
2023	<a href="#">62979</a>	WELL 2 (WASH 62373/L-75346)	3.62	1.53	0.30	0.44	1.91	0.18	0.00	2.41	3.82	4.83	6.90	5.90	31.85	
2022	<a href="#">62979</a>	WELL 2 (WASH 62373/L-75346)	1.12	1.99	0.56	1.72	0.70	0.32	3.76	0.70	5.40	9.16	6.64	1.07	33.14	
2021	<a href="#">62979</a>	WELL 2 (WASH 62373/L-75346)	7.46	9.78	7.57	7.24	6.18	6.09	7.52	10.82	11.25	13.63	13.16	10.95	111.66	
2020	<a href="#">62979</a>	WELL 2 (WASH 62373/L-75346)	5.71	5.29	6.03	6.27	6.87	7.02	5.70	7.62	12.01	17.62	20.33	12.86	113.33	
2019	<a href="#">62979</a>	WELL 2 (WASH 62373/L-75346)	3.76	3.40	3.79	5.42	6.95	4.00	2.83	7.45	8.99	13.35	13.53	8.20	81.68	
2018	<a href="#">62979</a>	WELL 2 (WASH 62373/L-75346)	2.67	4.55	2.95	1.00	2.85	4.07	4.05	10.99	7.75	6.26	8.72	5.34	61.19	
2017	<a href="#">62979</a>	WELL 2 (WASH 62373/L-75346)	0.00	2.08	6.20	7.31	5.94	5.40	6.70	8.76	14.68	12.23	12.79	9.13	91.22	
2016	<a href="#">62979</a>	WELL 2 (WASH 62373/L-75346)	10.97	10.66	6.45	3.67	2.20	1.13	0.50	3.43	6.06	8.79	8.44	3.73	66.02	
2015	<a href="#">62979</a>	WELL 2 (WASH 62373/L-75346)	12.01	12.93	11.23	11.98	10.75	10.75	7.31	7.15	16.71	21.42	18.73	13.24	154.22	
2014	<a href="#">62979</a>	WELL 2 (WASH 62373/L-75346)	13.66	15.17	16.51	13.82	12.93	14.01	11.21	14.95	16.86	21.77	22.53	17.70	191.11	

12

\*The water year is named for the calendar year in which it ends. Example: the 2018 water year begins Oct. 1, 2017 and ends Sep. 30, 2018.

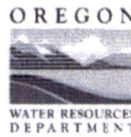
- The Water Resources Department makes reasonable efforts to screen the data for quality control; however, the Department cannot accept responsibility for errors, omissions, or accuracy of the information. Notification of any errors is appreciated. Send notifications to [owrd.wateruserreporting@water.oregon.gov](mailto:owrd.wateruserreporting@water.oregon.gov) or call 971-345-7489.
- Water use is reported by point of diversion (POD), rather than by water right.
- If a POD is shared with multiple water rights, it is not feasible to separate out the amount used under the water right being queried from water used by other rights using this same POD.
- Monthly amounts indicate:
  - For diverted rights, the total amount diverted during the month;
  - For storage rights, the amount generally stored in the reservoir/pond during the month, as represented by the volume of water impounded on approximately the same day each month.
- Water use amounts have all been converted to "acre-feet" (AF), regardless of the original measurement unit reported. One AF is the volume of water that will cover an acre of ground one foot deep = 325,850 gallons.
- Zeroes indicate that a report was received stating that no water was used during those months; if a year is not listed, no report of water use was received for that year.

Received  
APR 29 2024  
OWRD

14450 -

ATTACHMENT 3  
Application for  
Water Right Transfer

Well-2



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

Consent by Deeded Landowner

State of Oregon )  
County of WASHINGTON )ss

I Doug Hixson in my/our capacity as Owner of the land containing three proposed POAs

mailing address 12565 NW AERTS RD BANKS OR 97106

telephone number 503-324-4444, duly sworn depose and say that I/We

consent to the proposed change(s) to Water Right Certificate Number Cert. 95849

described in a Water Right Transfer Application (T- Not yet assigned ),  
(transfer number, if known)

submitted by The City of Banks, Jolynn Becker, City Manager

on the property in tax lot number(s) 2N331D000100 (TL 0100)

Section 31 NWSE/NESE Township 2N North/South Range 3W East/West, W.M.

located at along Aerts Rd (AS-1) and in two locations in a proposed park area (Park-1B and Park-1C)  
(site address)

Doug Hixson  
Signature of Affiant

3/6/2024  
Date

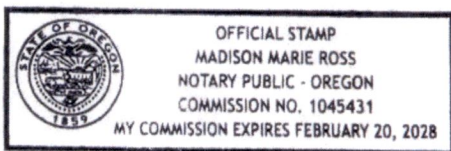
Signature of Affiant

Date

Subscribed and Sworn to before me this 6 day of March, 20 24.

Madison Marie Ross  
Notary Public for Oregon

My commission expires 2.20.28



Received  
APR 29 2024



Well-2

Application for Water Right Transfer



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

Consent by Deeded Landowner

State of Oregon )
)ss
County of WASHINGTON )

I Doug Hixson in my/our capacity as Owner of the land containing a proposed POAs,

mailing address 12565 NW AERTS RD BANKS OR 97106

telephone number 503-324-4444, duly sworn depose and say that I/We

consent to the proposed change(s) to Water Right Certificate Number Cert. 95849

described in a Water Right Transfer Application (T- assigned ),
(transfer number, if known)

submitted by The City of Banks, Jolynn Becker, City Manager

on the property in tax lot number(s) 2N331CA06900 (TL 6900)

Section 31 NESW Township 2N North/South Range 3W East/West, W.M.

located at in a proposed park area (Park-1A)
(site address)

Doug Hixson
Signature of Affiant

3/6/2024
Date

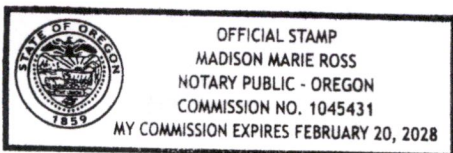
Signature of Affiant

Date

Subscribed and Sworn to before me this 6 day of March, 2024.

Notary Public for Oregon

My commission expires 2-20-28.



Received

APR 29 2024

# Application for Water Right Transfer



**Well-2**  
**Oregon Water Resources Department**  
725 Summer Street NE, Suite A  
Salem, Oregon 97301-1266  
(503) 986-0900  
www.wrd.state.or.us

## Consent by Deeded Landowner

State of Oregon )  
 )ss  
County of WASHINGTON )

I DOUG HIXSON in my/our capacity as Owner of the land containing a proposed POA,

mailing address 12565 NW AERTS RD BANKS OR 97106,

telephone number 503-324-4444, duly sworn depose and say that I/We

consent to the proposed change(s) to Water Right Certificate Number Cert. 95849

described in a Water Right Transfer Application (T- Not yet assigned),  
(transfer number, if known)

submitted by The City of Banks, Jolynn Becker, City Manager

on the property in tax lot number(s) 2N3310000100 (TL 0100),

Section 31 NENE Township 2N North/South Range 3W East/West, W.M.

located at near the intersection of Banks Rd and Aerts Rd (AN-2)  
(site address)

Doug Hixson  
Signature of Affiant

3/6/2024  
Date

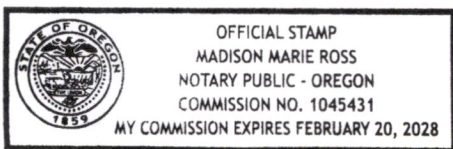
\_\_\_\_\_  
Signature of Affiant

\_\_\_\_\_  
Date

Subscribed and Sworn to before me this 6 day of March, 20 24.

Madie Marie Ross  
Notary Public for Oregon

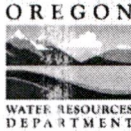
My commission expires 2-2-28.



Received  
APR 29 2024

Well-2

Application for Water Right Transfer



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

Consent by Deeded Landowner

State of Oregon )
County of WASHINGTON )ss

I Robert S. Babosty in my/our capacity as Owner of the land containing a proposed POA,
Manages, Wolverine Financial, LLC
mailing address 6770 SW Canyon Dr. Portland, OR, 97225

telephone number 503 292-8261, duly sworn depose and say that I/We
consent to the proposed change(s) to Water Right Certificate Number Cert. 95849

described in a Water Right Transfer Application (T- Not yet assigned),
(transfer number, if known)

submitted by The City of Banks, Jolynn Becker, City Manager

on the property in tax lot number(s) 2N43600 (TL 0600)

Section 36 NENE Township 2N North/South Range 4W East/West, W.M.

located at Southwest of the intersection of N Main Street and NW Cedar Canyon Road (WTP-2)
(site address)

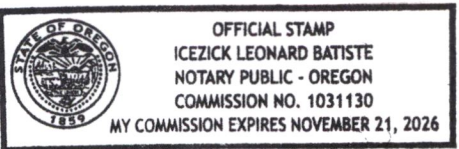
Signature of Affiant (Handwritten signature)

Date January 9th, 2024

Signature of Affiant

Date

Subscribed and Sworn to before me this 09 day of January, 2024.



Notary Public for Oregon (Handwritten signature)

My commission expires 11/21/2026

Well-2

Application for Water Right Transfer



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

Consent by Deeded Landowner

State of Oregon )
County of Washington )ss

I Martin Cropp in my/our capacity as Owner of the land containing a proposed POA,
mailing address 33687 NW Mountaindale Rd, North Plains, OR 97133
telephone number 503-939-3507, duly sworn depose and say that I/We

consent to the proposed change(s) to Water Right Certificate Number Cert. 95849

described in a Water Right Transfer Application (T- assigned ),
(transfer number, if known)

submitted by The City of Banks, Jolynn Becker, City Manager

on the property in tax lot number(s) 2N43600 (TL 0600)

Section 36 NENE Township 2N North/South Range 4W East/West, W.M.

located at Southwest of the intersection of N Main Street and NW Cedar Canyon Road (WTP-2)
(site address)

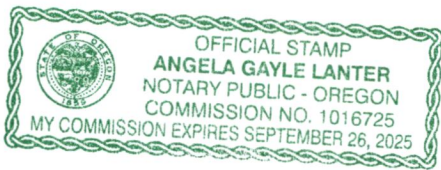
Signature of Affiant (handwritten signature)

Date 3/5/2024

Signature of Affiant

Date

Subscribed and Sworn to before me this 5th day of March, 2024.



Notary Public for Oregon (handwritten signature)

My commission expires September 26, 2025

# Land Use Information Form

## ATTACHMENT 4



Oregon Water Resources Department  
725 Summer Street NE, Suite A  
Salem, Oregon 97301-1266  
(503) 986-0900  
www.oregon.gov/OWRD

### Washington County LUCS Form

## NOTE TO APPLICANTS

In order for your application to be processed by the Water Resources Department (WRD), this Land Use Information Form must be completed by a local government planning official in the jurisdiction(s) where your water right will be used and developed. The planning official may choose to complete the form while you wait, or return the receipt stub to you. Applications received by WRD without the Land Use Form or the receipt stub will be returned to you. Please be aware that your application will not be approved without land use approval.

**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) The existing and proposed water use is located entirely within lands zoned for exclusive farm-use or within an irrigation district;
  - b) The application involves a change in place of use only;
  - c) The change does not involve the placement or modification of structures, including but not limited to water diversion, impoundment, distribution facilities, water wells and well houses; **and**
  - d) The application involves irrigation water uses only.

## NOTE TO LOCAL GOVERNMENTS

The person presenting the attached Land Use Information Form is applying for or modifying a water right. The Water Resources Department (WRD) requires its applicants to obtain land-use information to be sure the water rights do not result in land uses that are incompatible with your comprehensive plan. Please complete the form or detach the receipt stub and return it to the applicant for inclusion in their water right application. You will receive notice once the applicant formally submits his or her request to the WRD. The notice will give more information about WRD's water rights process and provide additional comment opportunities. You will have 30 days from the date of the notice to complete the land-use form and return it to the WRD. If no land-use information is received from you within that 30-day period, the WRD may presume the land use associated with the proposed water right is compatible with your comprehensive plan. Your attention to this request for information is greatly appreciated by the Water Resources Department. If you have any questions concerning this form, please contact the WRD's Customer Service Group at 503-986-0801.

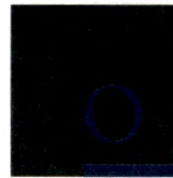
Received

APR 29 2024

OWRD

14450 -

# Land Use Information Form



Oregon Water Resources Department  
 725 Summer Street NE, Suite A  
 Salem, Oregon 97301-1266  
 (503) 986-0900  
 www.oregon.gov/OWRD

Applicant(s): City of Banks (Jolynn Becker, City Manager)

Mailing Address: 13680 NW Main Street

City: Banks

State: OR

Zip Code: 97106

Daytime Phone: 503-324-5112

## A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), and/or used or developed. 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:
2N	3W	31	All		*	<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	
		31	NE NW	0402		<input checked="" type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	
		31	NE NE	0100		<input checked="" type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	
		31	NE SW	6900		<input checked="" type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	
		31	NW SE	0100		<input checked="" type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	
		31	NE SE	0100		<input checked="" type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	
		30	SW SW	*		<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	
	30	NW SW	<input type="checkbox"/> Diverted			<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used		
	25	SE SE	<input type="checkbox"/> Diverted			<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used		
	4W	36	E ¼			<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	
		36	NW SE			<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	
		36	SW SE			<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	
		36	NE NE			0600	<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used

\*City of Banks Urban Growth Boundary is the City's service area. Various taxlots and land use classifications within the UGB.

List all counties and cities where water is proposed to be diverted, conveyed, and/or used or developed:

City of Banks (All water production, conveyance, and usage occurs within the City of Banks Service Area as defined by the City's Urban Growth Boundary)

## 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   
  Permit Amendment or Ground Water Registration Modification  
 Limited Water Use License   
  Allocation of Conserved Water   
  Exchange of Water

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

Estimated quantity of water needed: 1.00  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:

Transfer application to add additional POAs to support potential construction of new well(s) for one of the City's two groundwater supply rights.

Received

APR 29 2024

## 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 the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s):
- Land uses to be served by the 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 (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:	
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
	Received	<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
	APR 29 2024	<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
	OWRD	<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <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.

Name: Devin Becker Title: City Manager  
 Signature: [Signature] Phone: 503-324-5112 Date: 4-9-24  
 Government Entity: City of Banks

**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: \_\_\_\_\_

RECEIVED WASH 62373

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

JUN 02 2005

WELL I.D. # L 75346

START CARD # 173577

Instructions for completing this report are on the last page of this form WATER RESOURCES DEPT SALEM, OREGON

(1) LAND OWNER Well Number Name City of Banks Address 100 South Main Street City Banks State Or Zip 97106

(2) TYPE OF WORK [X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment [ ] Conversion

(3) DRILL METHOD [X] Rotary Air [X] Rotary Mud [ ] Cable [ ] Auger [ ] Cable Mud [ ] Other

(4) PROPOSED USE [ ] Domestic [X] Community [ ] Industrial [ ] Irrigation [ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION Special Construction: [ ] Yes [X] No Depth of Completed Well 665 ft. Explosives used: [ ] Yes [X] No Type Amount

Table with columns: BORE HOLE (Diameter, From, To), SEAL (Material, From, To), Sacks or Pounds. Row 1: 16, 0, 300, Cem/Bent, 0, 300, 115 sks. Row 2: 12, 300, 665.

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

Backfill placed from ft. to ft. Material Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Casing: 12, +2, 300, .250, [X], [ ], [X], [ ].

Drive Shoe used [ ] Inside [ ] Outside [X] None Final location of shoe(s)

(7) PERFORATIONS/SCREENS Table with columns: From, To, Slot Size, Number, Diameter, Tele/pipe size, Casing, Liner. Includes checkboxes for Perforations and Screens.

(8) WELL TESTS: Minimum testing time is 1 hour [ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian Yield gal/min Drawdown Drill stem at Time

Temperature of water 57°F Depth Artesian Flow Found Was a water analysis done? [X] Yes By whom A.M.J. Did any strata contain water not suitable for intended use? [ ] Too little

(9) LOCATION OF WELL (legal description) County Washington Tax Lot 402 Lot Township 2N N or S Range 3W E or W WM Section 31 NE 1/4 NW 1/4 Lat Long

Street Address of Well (or nearest address) 42000 NW Banks Rd. Banks, Or

(10) STATIC WATER LEVEL 48 ft. below land surface. Date 5-25-05 Artesian pressure lb. per square inch Date

(11) WATER BEARING ZONES Table with columns: From, To, Estimated Flow Rate, SWL. Row 1: 378, 468, 350 gpm, 48. Row 2: 615, 660, 300 gpm, 48.

(12) WELL LOG Table with columns: Material, From, To, SWL. Rows include: Brn & red-brn cly sticky, firm. (0-69), Red-brn basalt, very weathered. (69-102), Green clay soft (102-121), Gry-brn clay firm (121-155), Red-brn basalt very weathered. (155-179), Brn basalt, weathered (179-201), Gry-brn basalt (201-206), Gry/gry-blk basalthr (206-231), Gry-brn basalt w/ interbeds. (231-251), Bry-gry blk basalt hrd (251-313), Brn basalt interbed (313-325).

(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. WWC Number 573 Date 5-31-2005

(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. WWC Number 1266 Date May 31, 2005



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

JUN 02 2005

WELL I.D. # L 75346

WATER RESOURCES DEPT SALEM, OREGON

START CARD # 173577

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

(1) LAND OWNER Well Number City of Banks Conti. Page 2 Address 100 South Main Street City Banks State OR Zip 97106

(2) TYPE OF WORK [X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment [ ] Conversion

(3) DRILL METHOD [X] Rotary Air [X] Rotary Mud [ ] Cable [ ] Auger [ ] Cable Mud [ ] Other

(4) PROPOSED USE [ ] Domestic [X] Community [ ] Industrial [ ] Irrigation [ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION Special Construction: [ ] Yes [X] No Depth of Completed Well 665 ft. Explosives used: [ ] Yes [X] No Type Amount

Table with columns: BORE HOLE Diameter, From, To, Material, SEAL From, To, Sacks or Pounds

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

Backfill placed from ft. to ft. Material Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded

Drive Shoe used [ ] Inside [ ] Outside [ ] None Final location of shoe(s)

(7) PERFORATIONS/SCREENS [ ] Perforations Method [ ] Screens Type Material

Table with columns: From, To, Slot Size, Number, Diameter, Tele/pipe size, Casing, Liner

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

Table with columns: Yield gal/min, Drawdown, Drill stem at Time

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

(9) LOCATION OF WELL (legal description) County Washington Tax Lot 402 Lot Township 2N N or S Range 3W E or W WM Section 31 NE 1/4 NW 1/4

Lat " or (degrees or decimal) Long " or (degrees or decimal)

Street Address of Well (or nearest address) 42000 NW Banks Rd., Banks, OR

(10) STATIC WATER LEVEL 48 ft. below land surface. Date 05/25/2005

Artesian pressure lb. per square inch Date

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

Table with columns: From, To, Estimated Flow Rate, SWL

(12) WELL LOG Ground Elevation

Table with columns: Material, From, To, SWL. Includes entries like Blk basalt, frags, occ soapstone, Brn/gry-brn basalt frac, broken occ red-brn basalt/lava streaks, etc.

Date Started 3-22-2005 Completed 5-25-2005

(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.

WWC Number 577 Date 5-31-2005

(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.

WWC Number 1266 Date May 31, 2005



April 17, 2024

1501011

Oregon Water Resources Department  
Attn: *Groundwater Hydrogeology Section*  
725 Summer St. NE Ste A  
Salem, Oregon 97301

c/o: Dennis Orłowski, *Northeast Region Lead Hydrogeologist*

**RE: INTERPRETATION OF BASALT WATER-BEARING ZONES IN THE AREA OF BANKS, OREGON**

CwM-H2O (CwM) presents this technical memorandum to the Oregon Water Resources Department (OWRD) on behalf of the City of Banks (City). The purpose of the Technical Memorandum is twofold: 1) to present the results of additional investigations into the nature of two water-bearing zones (WBZs) within the Columbia River Basalt Group (CRBG), and 2) to support an application to modify Certificate 95849 that requests the additional points of appropriation and proposes the development of all basalt WBZs encountered to a depth of 665 feet below ground surface (bgs) as one aquifer unit. The WBZs investigated are documented in the City's primary production well, Well 2 (WASH 6237) and in the nearby Quail Valley Irrigation Well (QV Well, WASH 50693). The locations of each well are presented in Figure 1 - Vicinity Map.

This technical memorandum also presents a correction to the 2018 Banks-Green Mountain Aquifer Storage and Recovery Feasibility Study (ASR Feasibility Study) which incorrectly interpreted a downhole video observation to suggest water was moving within the borehole of Well 2. This interpretation is incorrect based on a reevaluation of the original video log and the new evidence presented in sections that follow which demonstrate that the WBZs encountered in Well 2 were in equilibrium and that no flow was evident in the video log.

***Recent Geophysical Evidence***

The investigation of Well 2 was conducted in 2017 as part of the Banks-Green Mountain Aquifer Storage and Recovery Feasibility Study (CwM, 2018). The investigation of the QV Well was completed in two separate investigations. The first was conducted by CwM to assess the condition of the QV Well as a potential asset for the City (CwM, 2020). A separate assessment was conducted by Holt Development and Summit Water Resources, LLC (Summit) in 2023, which focused on the potential flow between water bearing units in the QV Well. Both investigations utilized Pacific Survey, LLC of Auburn, CA for geophysical survey. The array of downhole methods used to evaluate both production wells included the following:

- Video Survey with down- and side-casting camera
- Caliper Log
- Dynamic Spinner Log
- Static Spinner Log
- Temperature Log

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All information gathered in these assessments is available for OWRD to review. However, for the purposes of this technical memorandum, the pertinent evidence of potential flow within the basalt borehole is found in the static spinner log data collected in each well. The raw data for static spinner log for each of these investigations is provided here for OWRD technical review in the attached Exhibit A - Geophysical Log Surveys with the original State of Oregon Water Well Reports (well logs) from each well.

Exhibit A also contains an excerpt from a report provided by Summit where Pacific Survey provides commentary on the 2017 Banks Well 2 and the 2023 QV Well spinner log results. Pacific Survey's analysis of the spinner logs states that zero flow is detected between the two WBZs. This indicates that, in both wells, the two WBZs are of equal head value and in combination act as a single aquifer without loss of water or artesian head from one zone to the other.

### ***Evidence from Area Water Well Reports of Equivalent Static Water Levels***

The observations of equivalent head values between upper and lower WBZs in Well 2 and the QV Well are also supported in the original well logs which document no change in static water level as the borehole was advanced through each WBZ during the time of drilling. This observation is not uncommon in the northern Tualatin Valley in the area of the City. In a limited search, CwM identified eight other deep (greater than 400 ft bgs) basalt wells in the area that tap a number of WBZs and show no change in static water levels as the wells were constructed. These wells include WASH 7691, WASH 13531, WASH 54161, WASH 55819, WASH 71480, WASH 72830, WASH 141, and WASH 0002 with deepening log WASH 199. The well locations are shown in Figure 1. The well logs for each are included in Exhibit B - Area Basalt Wells. The lack of a change in static water level suggests that the WBZs are interconnected, in equilibrium between WBZs, and that these basalt water WBZs act as one aquifer in the area of the City.

### ***Evidence from Recent Water Level Elevations: Wells 1 and 2***

Previous water levels reported to CwM from the City and to OWRD in annual report as "SCADA" reading are incorrect due to a long-term failure in the transducers measuring water levels in the City's Well 1 and Well 2. The City has recently completed an elevational survey of both wellheads and begun reconditioning and repairs for the pump and motor equipment in Well-1. This reconditioning included the replacement of the older non-functional transducer system. Concurrently, the City has also replaced the previous transducer system that was installed in Well-2.

Since March 2023, Well-1 has been offline as the equipment has been removed for repair or replacement. This allowed for direct access to Well 1 water levels by hand measurement with a well sounder. CwM geologists have collected three water levels during this time period when Well 2 has been idle for at least 7-days. The static water elevations (calculated with survey elevations and manual depth measurements) between the wells differed by 0.62 – 1.12 feet, Table 1.

Under static winter-spring conditions, groundwater elevations were less than 1 ft apart. Some variability in water level is expected due to the irrigation season and the use of multiple area wells for residential use. However, little variation has been observed. In summary, the static water

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elevations are essentially equivalent, and the very small differences measured between the wells would not be sufficient to move groundwater between WBZs or cause a loss of water from one zone to the other.

Table 1 – Manual Groundwater Elevation Measurements				
Date	Well-1 Groundwater Elevation	Well-2 Groundwater Elevation	Difference in Elevation	Time Since Well-2 Pumped
3/15/2023	197.60 ft	196.98 ft	0.62 ft	7+ days
4/7/2023	199.17 ft	198.05 ft	1.12 ft	7+ days
10/13/2023	185.85 ft	184.89 ft	0.96 ft	7+ days

**2023 Review of Video Survey of Well-2 completed in 2018**

A video survey of Well-2 was conducted by Pacific Surveys LLC and CwM on January 12, 2018. The video covered the entire length of Well 2 including the cased and open-hole intervals. A CwM Principal-level review of the video was completed by Robert E. Long Jr. RG, CWRE in October of 2023 to assess the origin of comments made in the 2018 ASR Feasibility Study regarding the exchange of water between the upper and lower WBZs within Well 2. The quote “the exchange of water between the two water bearing zones was observed, with water from the water from the lower water bearing zone moving upwards and mixing with the upper water bearing zone” is found on page 11 of the ASR Feasibility Study and in Appendix C page 1.

In the review of the video survey, documented suspended sediment and debris dislodged from the inside of the well was observed floating downward in the water column, including when the camera was not in motion. The video survey from top of casing to the bottom of the well (0 to 669.7 bgs) at no time indicates evidence of upward flow. It is CwM’s conclusion that the survey interpretation error occurred as the video camera was retracted from the well. Specifically, it is believed that upward movement of sediment upon the retraction of the camera was interpreted as upward flow. In reality, this effect is the result of suction created behind the camera when it is being pulled back up the well.

CwM’s intent with this memo is to correct this statement about upward water flow and exchange between WBZ in Well 2. There is no evidence from the video survey of water movement in either direction. The evidence provided by the downhole video suggests that the two WBZs share very similar hydraulic pressure regimes under static conditions.

**Summary**

The goal of this memo is to update the factual evidence related to two water bearing zones (WBZ) with in the Columbia River Basalt Group (CRBG) that supply groundwater water to production wells in and around Banks, Oregon in the northern Tualatin Valley in support of a proposed application to add five additional points of appropriation to Certificate 95849. The application proposes to use both WBZs as a single aquifer for both production and for future ASR operations. It is the professional opinion of CwM, based on the evidence presented in geophysical analysis, well log static water levels,

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and current static water levels measured by CwM at Well 1 and Well 2, that these basalt WBZ are in equilibrium and operate as a single aquifer unit. Previous observations in the 2018 ASR Feasibility Study and interpretations of flow within the borehole based on a downhole video data are incorrect and are amended herein based on the reevaluation of the 2018 video in question.

Please let us know if there are any issues with processing this application or questions regarding the information included therein. Thank you for your assistance.

Sincerely,

**CwM H2O, L.L.C.**



Robert Long, CWRE

CC Jolynn Becker, City Manager, City of Banks  
Joe Schiewe, Holt Homes  
Paul Sellke, AKS Engineering & Forestry

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**EXHIBIT A  
GEOPHYSICAL LOG SURVEYS**

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# Pacific Surveys, LLC

*A full service geophysical well logging company*

Jason Melady  
Summit Water Resources, LLC

November 9, 2022

RE: Technical Memo: Static Spinner

Under non-pumping condition the spinner/flowmeter is lowered into the boring/well at a constant speed. The revolutions of the impeller are recorded as counts/sec. Once the spinner/flowmeter reaches total depth, the survey is stopped and a new survey begins with the tool ascending the boring/well. The spinner/flowmeter is raised to the surface at a constant rate and the revolutions of the impeller are recorded.

Both the down and up runs are merged onto one graph and scaled so that both spinner response overlay one another in a zone of known zero-flow. This zone is typically above all perforations. In the case of Well #2, this would be in the 12-inch casing that is set to 300ft. This zone of zero-flow demonstrates that the revolutions of the spinner is directly a result of the speed of descent/ascent of the tool.

If both the down and up run overlay one another throughout the entire boring/well, the inference would be that there is no vertical flow anywhere in the boring/well. If vertical flow was occurring, the down and up runs would diverge from one another in response to the direction of the flow (velocities are additive). In the case for Well #2, there is no significant divergence between the down and up runs, indicating zero-flow through the entire interval.

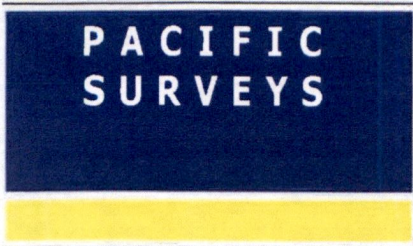
Best Regards,  
Michael Ridder

**Pacific Surveys, LLC**

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OWRD



# STATIC SPINNER UP & DOWN RUNS NON-PUMPING CONDITION

Job No.	23530		
Company	CITY OF BANKS		
Well	WELL 2		
Field	BANKS		
File No.	County	WASHINGTON	State OR

Location:	Other Services:
41700 NW BANKS RD. GPS: 45.6214 -123.1066	VIDEO CALIPER DYNAMIC SPINNER STOP COUNTS SPINNER ANALYSIS
Sec.                      Twp.                      Rge.	

Permanent Datum	T.O.C.	Elevation	Elevation
Log Measured From	T.O.C.	above perm. datum	K.B. D.P. G.L.
Drilling Measured From	N/A		

Date	01-12-2018	
Run Number	ONE	
Depth Driller	669'	
Depth Logger	669'	
Bottom Logged Interval	660'	
Top Log Interval	225'	
Pump Set @	196' (BOTTOM)	
Time Pumping Prior to Survey	30 MIN	Received
Pumping Water Level	NOT MEASURED	APR 29 2024
Max. Recorded Temp.	N/A	
Pump Rate (GPM)	N/A	
Time Well Ready	0800	OWRD
Time Logger on Bottom	1200	
Equipment Number	PS-7	
Location	SAC	
Recorded By	SCHUMACHER	
Witnessed By	R. DOUGHERTY	

Perforation Record				Perforation Record			
Type	Slot Size	From	To	Type	Slot Size	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	12"	N/A	0'	300'
Camera Tube				
Production String				
Liner				

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<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pacific Surveys cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Pacific Surveys' general terms and conditions set out in our current Price Schedule.

Comments

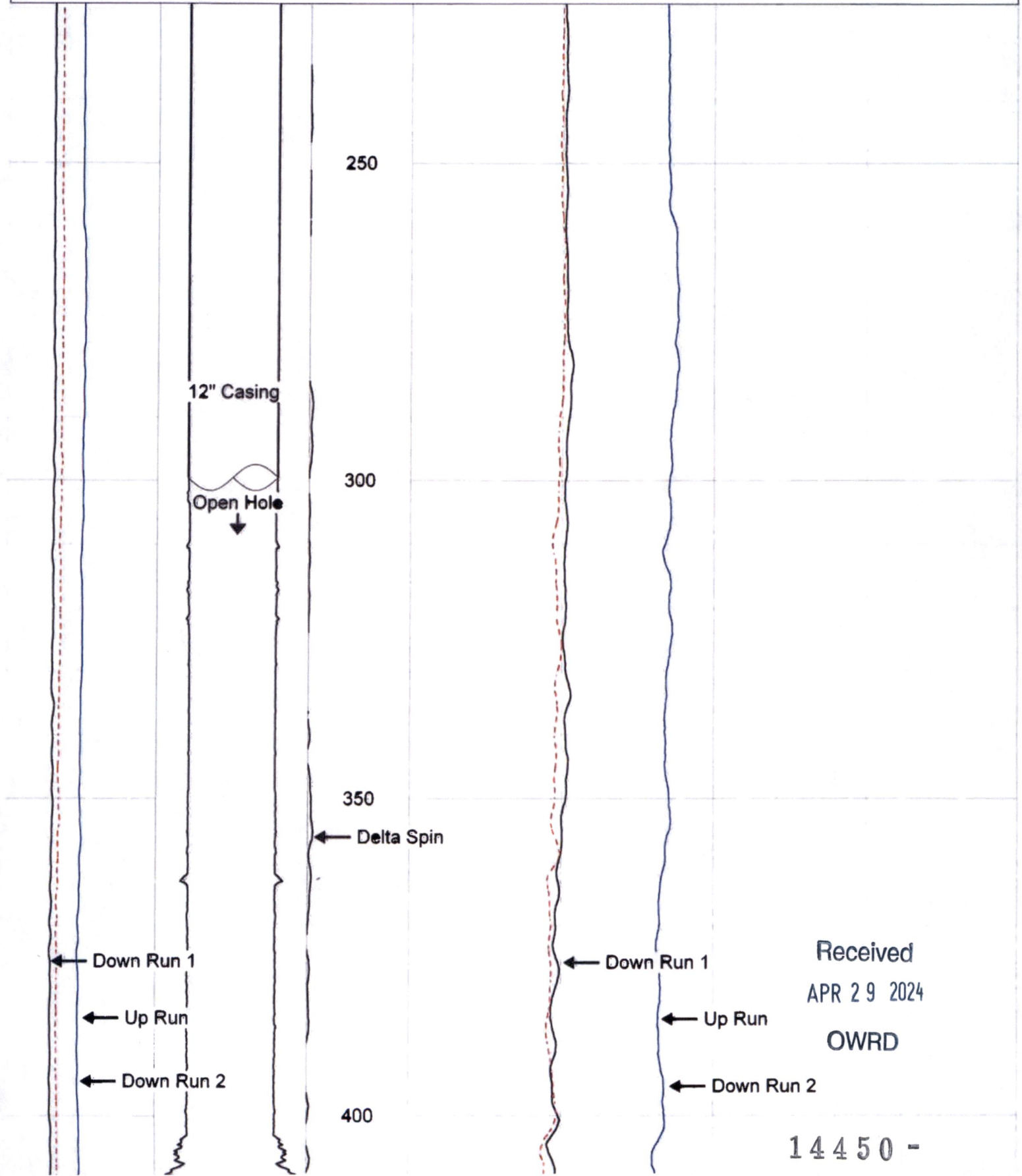
FULL BORE  
12" OPEN HOLE BELOW 300'

Database File            23530.db  
 Dataset Pathname    statD1  
 Presentation Format    spinnerg  
 Dataset Creation      Fri Jan 12 10:11:44 2018  
 Created by              Ninth in Feet scaled 1:240



0	(ft/min)	100
LS		
0	(ft/min)	100
LS		
0	(ft/min)	-100

0	Spinner Down Run (cps)	40
1.5	Spinner Up Run (cps)	41.5



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450

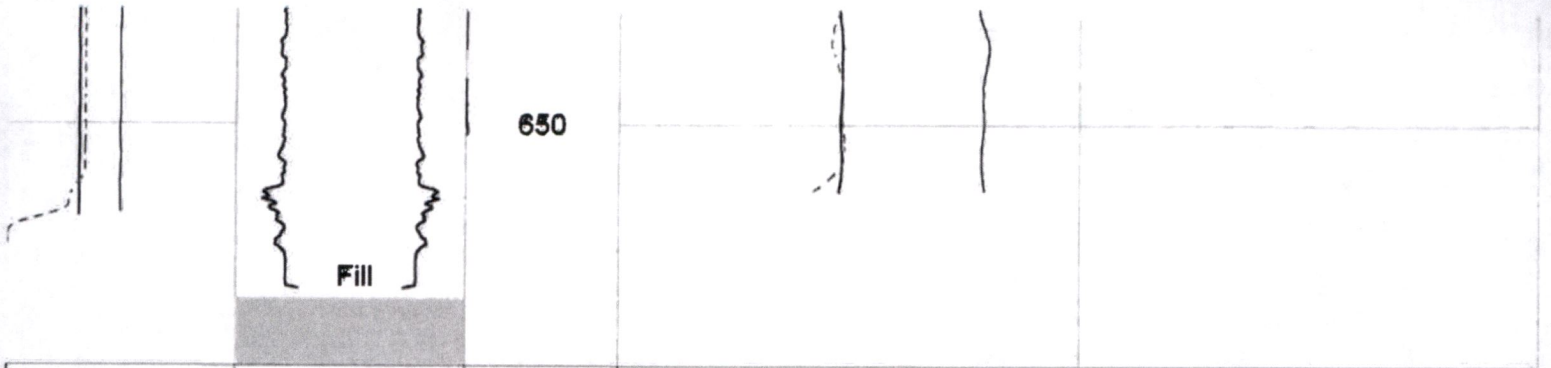
500

550

600

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LS 0 (ft/min) 100	Delta Spin	0	Spinner Down Run (cps)	40
LS 0 (ft/min) 100		0	Spinner Down Run (cps)	40
LS 0 (ft/min) -100		1.5	Spinner Up Run (cps)	41.5

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

# WATER WELL REPORT

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

# RECEIVED

DATE OF OREGON  
(Please type or print)

WASH  
7651

State Well No. 2N/3W-31  
State Permit No. \_\_\_\_\_

SEP - 6 1977 (Do not write above this line)

(1) OWNER: WATER RESOURCES DEPT.  
Name City of Banks SALEM, OREGON  
Address Banks, 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  Driven  Domestic  Industrial  Municipal   
Cable  Jetted  Irrigation  Test Well  Other   
Dug  Bored

CASING INSTALLED: Threaded  Welded   
8-5/8" Diam. from plus 2 ft. to 210 ft. Gage 250  
" Diam. from ft. to ft. Gage  
" Diam. from ft. to ft. Gage

PERFORATIONS: Perforated?  Yes  No.  
Type of perforator used  
Size of perforations in. by Received  
perforations from ft. to ft.  
perforations from ft. to ft. APR 29 2024  
perforations from ft. to ft.

(7) SCREENS: Well screen installed?  Yes  No  
Manufacturer's Name OWRD  
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? AM Janssen  
Yield: 275 gal./min. with 224 ft. drawdown after 48 hrs.  
150 " 146 " " "  
" " " " "  
Bailer test gal./min. with ft. drawdown after hrs.  
Artesian flow g.p.m.  
Temperature of water 58° Depth artesian flow encountered ft.

(9) CONSTRUCTION:  
Well seal—Material used Cement grout & 2% gel  
Well sealed from land surface to 210 ft.  
Diameter of well bore to bottom of seal 12-1/4" in.  
Diameter of well bore below seal 8" in.  
Number of sacks of cement used in well seal 25 sacks  
How was cement grout placed? Placed on o.d. of casing through grout pipe - 20 sacks run @ 210', 5 sacks run to top off at ground level upon completion  
Was a drive shoe used?  Yes  No Plugs Size: location ft.  
Did any strata contain unusable water?  Yes  No  
Type of water? insufficient depth of strata 130' to 160'  
Method of sealing strata off cased and cemented  
Was well gravel packed?  Yes  No Size of gravel:  
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:  
County Washington Driller's well number  
1/4 1/4 Section 31 T. 2 N R. 3 W. -W.M.  
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.  
Depth at which water was first found 130 ft.  
Static level 34 ft. below land surface. Date 8/24/77  
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing 8"  
Depth drilled 450 ft. Depth of completed well 450 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
Dark brown clay topsoil	0	8	
Silty brown clay	8	15	
Red-brown clay w/rotten rock fragments	15	50	
Sticky red clay-occ. rotten rock streaks	50	95	
Brown clay & rotten rock	95	110	
Dark brown & gray-brown clay --organic material	110	120	
Soft blue-gray cemented gravel	120	130	
Rotten brown basalt	130	160	20 gpm
Soft brown basalt-occ. weathered	160	195	
Black-brown basalt	195	215	
Hard gray-black basalt	215	230	
Broken brown basalt w/soapstone and lava interbeds	230	245	10 gpm
Fractured black basalt--occ. crevice	245	265	
Hard gray-black basalt, occ-			

Work started 8/16/77 19 Completed 8/24/77 19  
Date well drilling machine moved off of well 8/24/77 19

Drilling Machine Operator's Certification:  
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.  
[Signed] Edward M. Janssen Date 8/29/77, 19\_\_\_\_  
(Drilling Machine Operator)  
Drilling Machine Operator's License No. 523

Water Well Contractor's Certification:  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
Name A. M. Janssen Drilling Co.  
(Person, firm or corporation) (Type or print)  
Address 21075 SW Tualatin Valley Hwy, Aloha, Oreg  
[Signed] Edward M. Janssen  
(Water Well Contractor)  
Contractor's License No. 79 Date 8/29/77, 19\_\_\_\_

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.

# RECEIVED WATER WELL REPORT

SEP - 6 1977

STATE OF OREGON  
(Please type or print)  
(Do not write above this line)

State Well No. 2N/3W-31  
State Permit No. \_\_\_\_\_

WATER RESOURCES DEPT.

SALEM, OREGON  
Page 2

(1) OWNER:  
Name City of Banks  
Address \_\_\_\_\_

(2) TYPE OF WORK (check):  
New Well  Deepening  Reconditioning  Abandon   
If abandonment, describe material and procedure in Item 13.

(3) TYPE OF WELL: (4) PROPOSED USE (check):  
Rotary  Driven  Domestic  Industrial  Municipal   
Cable  Jetted  Irrigation  Test Well  Other   
Dug  Bored

(5) CASING INSTALLED: Threaded  Welded   
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_

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

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

(8) WELL TESTS: Drawdown is amount water level is lowered below static level  
Was a pump test made?  Yes  No If yes, by whom?  
Yield: gal./min. with ft. drawdown after hrs.  
" " " " "  
" " " " "  
Bailer test gal./min. with ft. drawdown after hrs.  
Artesian flow g.p.m.  
Temperature of water Depth artesian flow encountered \_\_\_\_\_ ft.

(9) CONSTRUCTION:  
Well seal—Material used \_\_\_\_\_  
Well sealed from land surface to \_\_\_\_\_ ft.  
Diameter of well bore to bottom of seal \_\_\_\_\_ in.  
Diameter of well bore below seal \_\_\_\_\_ in.  
Number of sacks of cement used in well seal \_\_\_\_\_ sacks  
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 \_\_\_\_\_ Driller's well number \_\_\_\_\_  
1/4 1/4 Section T. R. W.M.  
Bearing and distance from section or subdivision corner \_\_\_\_\_

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

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

MATERIAL	From	To	SWL
fracture	265	315	5 gpm
Brown basalt-occ. broken	315	325	10 gpm
Hard black & gray-black basalt-occ. crevice	325	360	
Black basalt--occ. broken w/ green soapstone	360	380	25 gpm
Broken black & brown basalt-w/ lava & soapstone interbed	380	400	200 gpm
Broken gray-brown basalt w/ lava streaks	400	415	100gpm
Hard gray-black basalt--occ. crevice	415	450	

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Work started 19 \_\_\_\_\_ Completed 19 \_\_\_\_\_  
Date well drilling machine moved off of well 19 \_\_\_\_\_

Drilling Machine Operator's Certification:  
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.  
[Signed] \_\_\_\_\_ Date \_\_\_\_\_, 19\_\_\_\_  
(Drilling Machine Operator)  
Drilling Machine Operator's License No. \_\_\_\_\_

Water Well Contractor's Certification:  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
Name \_\_\_\_\_ (Person, firm or corporation) (Type or print)  
Address \_\_\_\_\_  
[Signed] \_\_\_\_\_ (Water Well Contractor)  
Contractor's License No. \_\_\_\_\_ Date \_\_\_\_\_, 19\_\_\_\_

# Pacific Surveys, LLC

*A full service geophysical well logging company*

Ryan Dougherty  
Summit Water Resources, LLC

December 14, 2022

RE: Static Spinner

On November 30<sup>th</sup>, 2022, we performed a static spinner survey on the Quail Valley Golf Course Well in Banks, OR. Only one down and up run were required for this survey, as both the down and up run overlaid one another throughout the entire cased and open-hole portions of the well, with no significant divergence. This corresponds with the Temperature Log performed on this well from November 2020, which, similarly, revealed no significant divergence from the expected geothermal gradient. Therefore, it appears that there is no vertical flow in the boring/well.

Best Regards,  
Mike Schumacher

**Pacific Surveys, LLC**

Received

APR 29 2024

OWRD

# PACIFIC SURVEYS

## STATIC SPINNER UP & DOWN RUNS NON-PUMPING CONDITION

Job No. 30460  
 Company SUMMIT WATER RESOURCES, LLC  
 Well QVGC WELL  
 Field BANKS  
 County WASHINGTON State OR

Location: 12565 NW AERTS RD  
 GPS: 45.6167 -123.0958  
 Other Services: CALIPER

Permanent Datum	G.L.	Elevation	Elevation
Log Measured From	G.L.	above perm. datum	K.B.
Drilling Measured From	N/A		D.F.
			G.L.

Date	11-30-2022		
Run Number	ONE		
Depth Driller	640'		
Depth Logger	641'		
Bottom Logged Interval	620'		
Top Log Interval	0'		
Static Water Level	~25'		
Depth Of Pump Bowls	N/A		
Density / Viscosity	N/A		
Max. Recorded Temp.	N/A		
Pump Rate (GPM)	N/A		
Time Well Ready	0900		
Time Logger on Bottom	0945		
Equipment Number	PS-8		
Location	SAC		
Recorded By	SCHUMACHER		
Witnessed By	R. DOUGHERTY		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prof. String				
Production String	10.25" ID	0.25" WALL	14450'	315.1'
Liner				

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pacific Surveys cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Pacific Surveys' general terms and conditions set out in our current Price Schedule.

### Comments

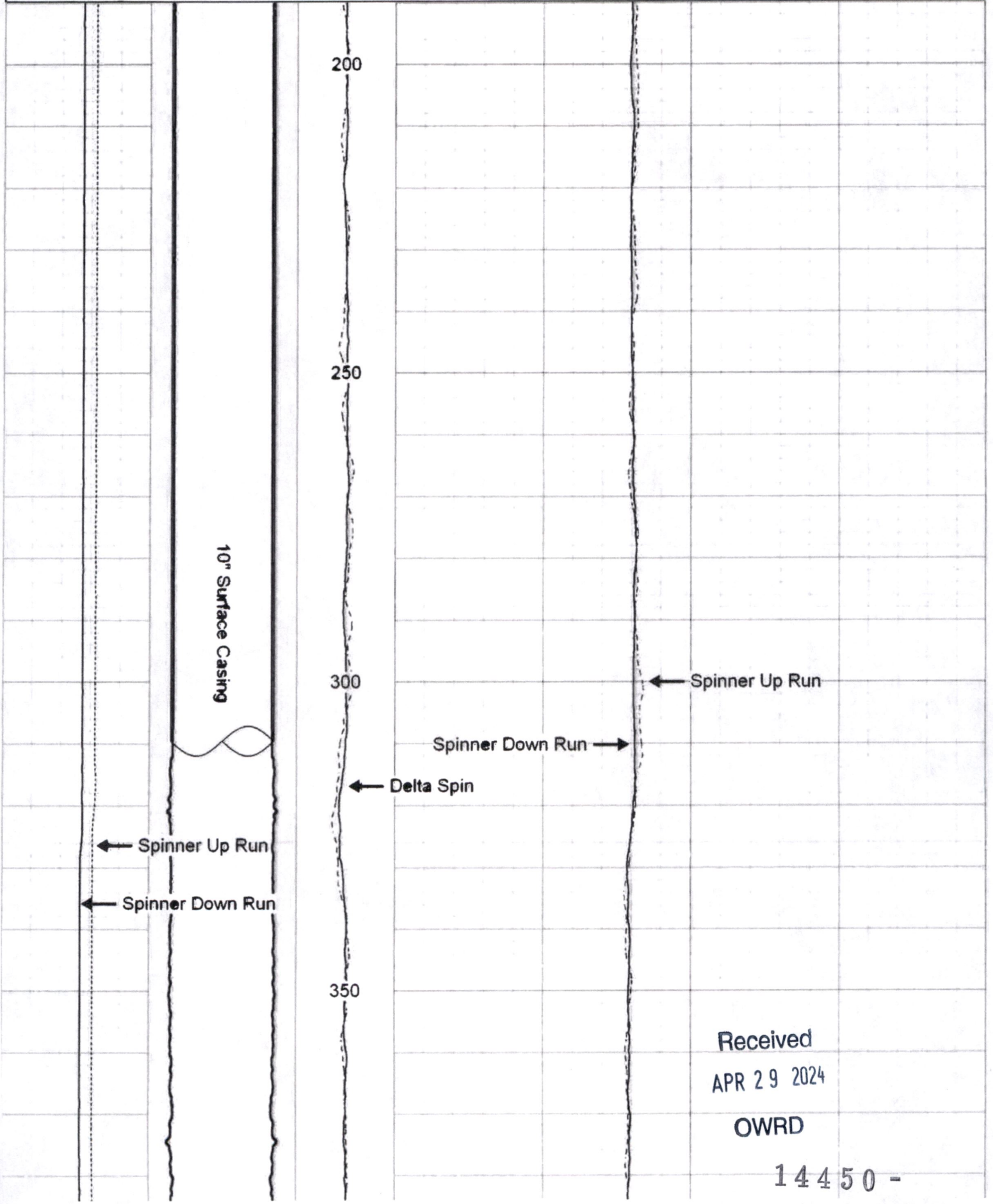
OPEN HOLE FROM 315.1 FT TO APPROX. 645 FT.

Database File 30460.db  
 Dataset Pathname spn\_d4  
 Presentation Format spinmerg  
 Dataset Creation Wed Nov 30 11:05:14 2022  
 Created by Dierth in Feet scaled 1:240

0 (ft/min) -100  
LS  
0 (ft/min) 100

Image

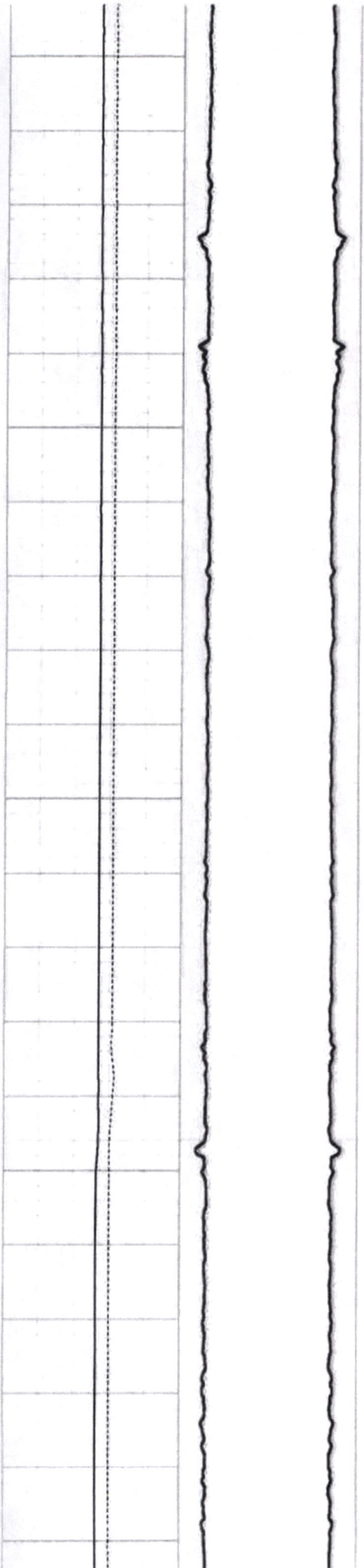
Delta Spin -1.2 Spinner Up Run (cps) 48.8



Received  
APR 29 2024  
OWRD

14450 -





400

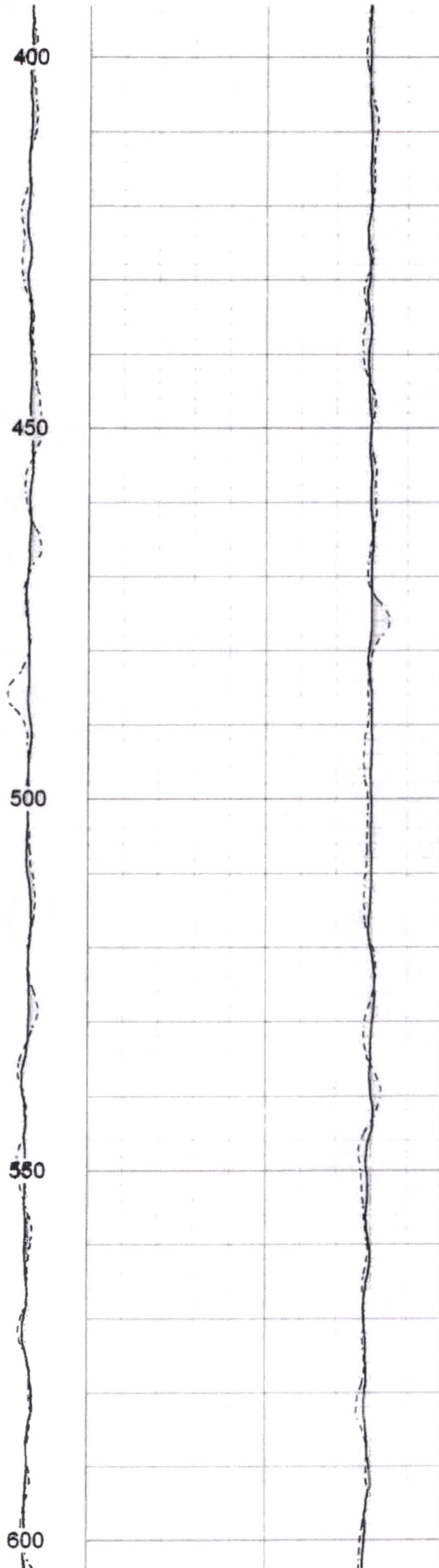
450

500

550

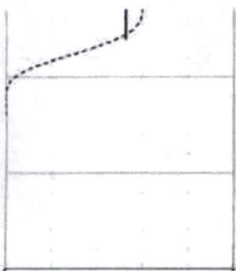
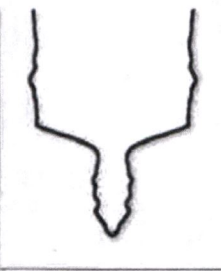
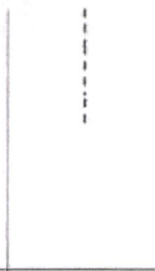
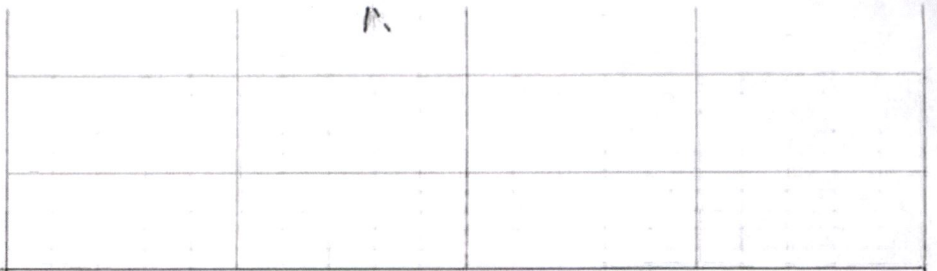
600

f.



Received  
APR 29 2024

OWRD  
14450 -

			
LS 0 (ft/min) -100	Borehole Caliper Image	Delta Spin 0	Spinner Down Run (cps) 50
LS 0 (ft/min) 100		Delta Spin -1.2	Spinner Up Run (cps) 48.8

14450 -

Received  
APR 29 2024  
OWRD

**EXHIBIT B  
AREA BASALT WELLS**

**Received  
APR 29 2024**

**OWRD**

14450 -

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

RECEIVED

CITY WELL-2

JUN 02 2005

WELL I.D. # L 75346

START CARD # 173577

Instructions for completing this report are on the last page of this form  
 WATER RESOURCES DEPT  
 SALEM, OREGON

(1) LAND OWNER Well Number \_\_\_\_\_  
 Name City of Banks  
 Address 100 South Main Street  
 City Banks State Or Zip 97106

(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 665 ft.  
 Explosives used:  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

BORE HOLE			SEAL				
Diameter	From	To	Material	From	To	Sacks or Pounds	
16	0	300	Cem/Bent	0	300	115 sks	
12	300	665					

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	300	.250	<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"/>

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
						<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 Artesian

Yield gal/min	Drawdown	Drill stem at	Time
650+		660	1hr.
275-280		200	1hr.

Temperature of water 57°F Depth Artesian Flow Found \_\_\_\_\_  
 Was a water analysis done?  Yes By whom A.M.J.  
 Did any strata contain water not suitable for intended use?  Too little  
 Salty  Muddy  Odor  Colored  Other \_\_\_\_\_  
 Depth of strata: \_\_\_\_\_

(9) LOCATION OF WELL (legal description)  
 County Washington  
 Tax Lot 402 Lot \_\_\_\_\_  
 Township 2N N or S Range 3W E or W WM  
 Section 31 NE 1/4 NW 1/4  
 Lat \_\_\_\_\_ " or \_\_\_\_\_ (degrees or decimal)  
 Long \_\_\_\_\_ " or \_\_\_\_\_ (degrees or decimal)

Street Address of Well (or nearest address)  
42000 NW Banks Rd. Banks, Or

(10) STATIC WATER LEVEL  
48 ft. below land surface. Date 5-25-05  
 \_\_\_\_\_ ft. below land surface. Date \_\_\_\_\_  
 Artesian pressure \_\_\_\_\_ lb. per square inch Date \_\_\_\_\_

(11) WATER BEARING ZONES  
 Depth at which water was first found 378

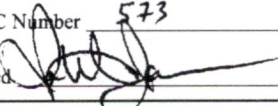
From	To	Estimated Flow Rate	SWL
378	468	350 gpm	48
615	660	300 gpm	48

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

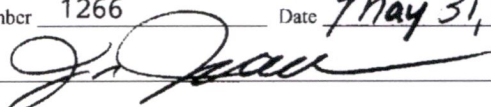
Material	From	To	SWL
Brn & red-brn cly sticky, firm.	0	69	
Red-brn basalt, very weathered.	69	102	
Green clay soft	102	121	
Gry-brn clay firm	121	155	
Red-brn basalt very weathered.	155	179	
Brn basalt, weathered	179	201	
Gry-brn basalt	201	206	
Gry/gry-blk basalthr	206	231	
Gry-brn basalt w/ interbeds.	231	251	
Gry-gry blk basalt hrd	251	313	
Brn basalt interbed	313	325	

Date Started 3-22-05 Completed 5-25-05

(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 573 Date 5-31-2005  
 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 1266 Date May 31, 2005  
 Signed: 

STATE OF OREGON  
WATER SUPPLY WELL REPORT

(as required by ORS 537.765)

MAY 28 1996

QV WELL

(START CARD) # 86703

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

(1) OWNER:

Name **QUAIL VALLEY GOLF COURSE**  
Address **12565 NW AERTS RD.**  
City **BANKS** State **OR** Zip **97106**

(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 **640** ft.  
Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

Diameter		From		To		Material		From		To		Sacks or pounds	
14-3/4		0	312	Cement		0	90	35	SKS				
				Cement		280	312	20	SKS				
10		312	640										

How was seal placed: Method  A  B  C  D  E  
 Other \_\_\_\_\_

Backfill placed from **90** ft. to **280** ft. Material **Hivisc Gel & Bent. chips**  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size of gravel \_\_\_\_\_

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
10"	+1	312	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"/>

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

Yield gal/min	Drawdown	Drill stem at	Time
300+		280	1 hr.
200		180	"
180		100	"

Temperature of water **56 F** Depth Artesian Flow Found \_\_\_\_\_  
Was a water analysis done?  Yes By whom **AMT**  
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 **WASHINGTON** Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Township **2N** N or S Range **3W** E or W. WM.  
Section **31** NW 1/4 **SE** 1/4  
Tax Lot **00100** Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) **12565 NW AERTS RD**  
**BANKS, OR**

(10) STATIC WATER LEVEL:

**18** ft. below land surface. Date **05/20/96**  
Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:

Depth at which water was first found **340**

From	To	Estimated Flow Rate	SWL
340	465	100 GPM	18
515	575	100 "	18
575	630	100+GPM	18

(12) WELL LOG:

Material	From	To	SWL
Topsoil	0	1	
Dark brown clay	1	4	
Sticky brown clay	4	16	
Sticky gray-brown clay	16	94	
Sticky red-brown clay	94	156	
Decomp. brown basalt, occ. clay interbeds	156	283	
Soft brown basalt	283	298	
Firm gray-brown basalt	298	310	
Hard gray basalt	310	340	
Gray-brown, gray-black basalt	340	465	18
occ. brown basalt streaks			"
(caving zone 420-435, grouted solid)			
Brown basalt & ash, cemented debris	465	515	
Gray-brown basalt, frac. occ. broken green mineral stain	515	575	18
Brown & gray-brown basalt, brown	575	630	18
Gray-black basalt, hard, frac.	630	640	

Date started **04/02/96** Completed **05/20/96**

(unbonded) Water Well Constructor Certification:

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

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

(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 **1266 & 573** Date **05/22/96**  
Signed *[Signature]*

JUN 02 2005

WELL I.D. # L 75346

START CARD # 173577

WATER RESOURCES DEPT  
 SALEM, OREGON

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

(1) LAND OWNER Well Number \_\_\_\_\_  
 Name City of Banks Conti. Page 2  
 Address 100 South Main Street  
 City Banks State OR Zip 97106

(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 665 ft.  
 Explosives used:  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

BORE HOLE			SEAL			Sacks or Pounds
Diameter	From	To	Material	From	To	

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	Material			
				Steel	Plastic	Welded	Threaded
Casing:				<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  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
						<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 Artesian

Yield gal/min	Drawdown	Drill stem at	Time

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

(9) LOCATION OF WELL (legal description)  
 County Washington  
 Tax Lot 402 Lot \_\_\_\_\_  
 Township 2N N or S Range 3W E or W WM \_\_\_\_\_  
 Section 31 NE 1/4 NW 1/4

Lat \_\_\_\_\_ " or \_\_\_\_\_ (degrees or decimal)  
 Long \_\_\_\_\_ " or \_\_\_\_\_ (degrees or decimal)

Street Address of Well (or nearest address)  
42000 NW Banks Rd., Banks, OR

(10) STATIC WATER LEVEL  
48 ft. below land surface. Date 05/25/2005  
 \_\_\_\_\_ 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

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

Material	From	To	SWL
Blk basalt, frags, occ soapstone.	325	378	
Brn/gry-brn basalt frac broken occ red-brn basalt/lava streaks	378	420	48
Blk/gry blk basalt/lava	420	468	
Blk/gry blk basalt, hard occ frags.	468	615	
Blk basalt interbed, occ claystone occ lava streaks.	615	660	48
Blk/gry-blk basalt, frags.	660	665	

Date Started 3-22-2005 Completed 5-25-2005

(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 573 Date 5-31-2005

Signed [Signature]

(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 1266 Date May 31, 2005

Signed \_\_\_\_\_

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

WASH  
 7691

RECEIVED

SEP 29 1989

(START CARD) # 13022

2N/3W/36C  
 pg 1

(1) OWNER: Well Number: WATER RESOURCES DEPARTMENT  
 Name Pumpkin Ridge Development, Inc. SALEM, OREGON  
 Address One Southwest Columbia, Suite 1010  
 City Portland State OR Zip 97258

(9) LOCATION OF WELL by legal description:  
 Township 2 N N or S, Range 3 W E or W, WM.  
 Section 36 SE 1/4 SW 1/4  
 Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) \_\_\_\_\_

(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 583 ft.  
 Yes No  Type \_\_\_\_\_ Amount \_\_\_\_\_  
 Explosives used   Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
17 1/2	0	65	Cement	0	65	50 sacks
17 1/2	65	200	Drill gel	65	200	
17 1/2	200	224	Cement	200	224	25 sacks
14-3/4	224	232	Cement	224	232	" "

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
12"	+2	232	.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: \_\_\_\_\_

Final location of shoe(s) \_\_\_\_\_

(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"/>
						<input type="checkbox"/>	<input type="checkbox"/>

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

Pump  Bailer  Air  Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
280	103		24 hr.
350	148		30 hr.
400	195		48 hr.

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

(10) STATIC WATER LEVEL:  
40 ft. below land surface. Date 9/21/89  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:

Depth at which water was first found 245

From	To	Estimated Flow Rate	SWL
245	253	20 gpm	40
335	350	10 gpm	"
380	403	70 gpm	"
413	417	15 gpm	"

(12) WELL LOG: Ground elevation \_\_\_\_\_

Material	From	To	SWL
Topsoil	0	1	
Firm brown clay	1	4	
Soft brown silty clay	4	23	
Sticky light gray-brown clay	23	47	
Sticky red-brown clay	47	79	
Sticky light gray clay	79	97	
Sticky red-brown clay	97	136	
Sticky red clay	136	151	
Decomposed brown basalt	151	156	
Firm decomp. gray-brown basalt	156	160	
Interbedded red, brown & gray clay	160	170	
Soft decomposed brown basalt	170	191	
Firm decomposed brown basalt	191	218	
Firm gray-brown basalt	218	220	
Hard gray basalt	220	253	
Firm gray-black basalt	253	261	
Soft black basalt	261	268	
Firm gray-black basalt	268	289	
Hard gray basalt	289	299	
Firm gray basalt	299	305	
Soft gray-black basalt	305	312	
Firm gray basalt	312	316	

Date started 8/10/89 Completed 9/25/89

(unbonded) Water Well Constructor Certification:  
 I certify that the work I performed on the construction, alteration, abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best 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. I 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 1266  
 Date 9/27/89

14450 -

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

RECEIVED Ridge Development  
 SEP 29 1989  
 (START CARD) # 13022 pg 2  
 N/3W/36C

**(1) OWNER:**

Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Well Number: **WATER RESOURCES LOCATION OF WELL by legal description:**  
**SALEM, OREGON** Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**(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 \_\_\_\_\_ ft.  
 Yes  No   
 Explosives used   Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
12"	232	552				
10"	552	583				

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:**

Casing:	Diameter	From	To	Gauge	Steel			
					Plastic	Welded	Threaded	
					<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"/>	<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:**

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"/>
						<input type="checkbox"/>	<input type="checkbox"/>

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

Pump  Bailer  Air  Flowing Artesian

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

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

Township \_\_\_\_\_ N or S, Range \_\_\_\_\_ E or W, WM.  
 Section \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4  
 Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) \_\_\_\_\_

**(10) STATIC WATER LEVEL:**

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

**(11) WATER BEARING ZONES:**

Depth at which water was first found \_\_\_\_\_

From	To	Estimated Flow Rate	SWL
434	443	20 gpm	41
453	458	30 "	"
458	519	85 "	"
559	575	150 "	"

**(12) WELL LOG:**

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

Material	From	To	SWL
Hard gray basalt	316	335	
Soft reddish-black basalt w/ green claystone (335-337)	335	350	
Hard gray basalt	350	403	
Firm gray-black basalt	403	417	
Hard gray basalt	417	430	
Soft gray-black basalt	430	443	
Firm gray-black basalt	443	447	
Soft gray-black basalt	447	453	
Hard gray basalt	453	458	
Soft gray-black basalt w/clay- stone	458	504	
Soft gray-green claystone	504	508	
Firm gray-black basalt	508	519	
Wood	519	523	
Soft gray-green claystone	523	528	
Gray basalt w/gray claystone interbeds	528	533	
Hard gray basalt	533	559	
Firm gray-black basalt, occ. broken streak	559	583	

Date started \_\_\_\_\_ Completed \_\_\_\_\_

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

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



# GEOLOGIC LOG FOR SITE WASH 7691

NWIS Site ID: 453650123000301

OWRD Log ID: WASH 7691

Well location: 02N/03W-36CAA

Depth drilled, in feet below land surface: 583

Land surface altitude, in feet above Nation Geodetic Vertical Datum of 1929: 220

Logged by: T. L. Tolan and M. H. Beeson

Date drilled: 08/10/1989

Depth	Symbol	Lithologic Description	Elevation	Water Bearing Zones	Geochem Sample	Remarks
0		<b>Wanapum Basalt, Frenchman Springs Member</b> Basalt of Sand Hollow deeply weathered (laterite)	218			Top of CRBG at ground surface; very deeply weathered 0 to 218 ft. No samples from 0 to 235 ft. Unit contacts interpreted from drillers log.
100		Basalt of Ginkgo? deeply weathered (laterite)	121			
		<b>Vantage Interbed</b> claystone	58 48			160 ft: Vantage Interbed estimated to be approx. 10ft. thick.
		<b>Grande Ronde Basalt, Sentinel Bluffs Member</b> flow 1 (-1)	27			
200		weathered flow top deeply weathered interior dense interior - columnar	0			
		normal flow top dense interior - columnar, flow lobe	-32 -42	20gpm	245	Sentinel Bluffs Member flow 1 (-1): aphyric flow 2: sparsely plagioclase phytic with small phenocrysts
		normal flow top dense interior - columnar	-57			
300		interbed - claystone	-83			305 ft: Interbed <2 ft. thick.
		<b>Grande Ronde Basalt, Winter Water Member</b> flow 1	-97			
		normal flow top dense interior - columnar interbed - claystone	-117 -137	10gpm		335 ft: Interbed <2 ft. thick.
		normal flow top dense interior - entablature	-167			Winter Water Member flows 1 & 2: plagioclase phytic with small glomerocrysts
400		dense interior - columnar	-167	70gpm	390	Note: Winter Water flows 2 and 3 may be flow lobes of a single flow.
		flow top dense interior	-197 -202	15gpm	420	flow lobe: plagioclase phytic with small glomerocrysts flow 3: plagioclase phytic with small glomerocrysts
		normal flow top dense interior - entablature	-212			
500		pillow complex with massive claystone rip-ups			480	
		interbed - siltstone with wood	-302			520 ft: Interbed approx. 10 ft. thick.
		<b>Grande Ronde Basalt, Ortle Member</b> normal flow top dense interior - entablature	-312 -322			Ortle Member: aphyric
		<b>TD 583 ft</b>	-389		565 575	

Received  
APR 29 2024  
OWRD

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

JUN 10 1987

**RECEIVED** WASH 013531

24/3W-21da

(1) **OWNER:**  
 Name Harry Lazott  
 Address Rt 20 Box  
 City Banks State OR Zip 97108

(9) **LOCATION OF WELL by legal description:**  
 County Wash Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township 2N N or S, Range 3W E or W, WM.  
 Section 21 SE 1/4 SE 1/4  
 Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) Hahn rd.

(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 500 ft.  
 Explosives used Yes  No  Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	100	Cement	0	100	28 sacks
	100	500				

How was seal placed: Method  A  B  C  D  E  
 Other \_\_\_\_\_  
 Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
 Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size of gravel \_\_\_\_\_

(6) **CASING/LINER:**

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 6"	+1	180	14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 4"	10	500	16 RB	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) Drill shoe 180 ft

(7) **PERFORATIONS/SCREENS:**  
 Perforations Method Drill  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
400	490	1/2	160			<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Yield gal/min	Drawdown	Drill stem at	Time
50		480	1 hr.
40		420	1/2
15		360	1/2

Temperature of water 55 Depth Artesian Flow Found \_\_\_\_\_  
 Was a water analysis done?  Yes By whom \_\_\_\_\_  
 Did any strata contain water not suitable for intended use?  Too little  
 Salty  Muddy  Odor  Colored  Other \_\_\_\_\_  
 Depth of strata: \_\_\_\_\_

(10) **STATIC WATER LEVEL:**  
257 ft. below land surface. Date 5-19-87  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

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

From	To	Estimated Flow Rate	SWL
300	320	6	250
440	490	50	250

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

Material	From	To	SWL
Brown soil	0	2	
Red clay	2	40	
Tan clay	40	90	
Brown clay	90	140	
Brown clay - Broken rock	140	300	
Black Gravel - W.B.	300	320	250
Brown clay - Layers rock	320	440	
Black Gravel W.B.	440	490	250
Brown clay	490	500	250

Received  
 APR 29 2024  
 OWRD

Date started 5-18-87 Completed 5-19-87

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

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 well construction standards. This report is true to the best of my knowledge and belief.

Signed Joseph Trussell WWC Number 711  
 Date 5-21-87

WASH  
54161

RECEIVED

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

NOV 27 1998

WELL I.D. # L. 27709  
START CARD # 118198

Instructions for completing this report are on the last page. WATER RESOURCES DEPT.  
SALEM, OREGON

(1) OWNER: Well Number \_\_\_\_\_  
Name BILL & RHONDA OWEN  
Address 4850 NW KAHNEETA CRT.  
City PORTLAND State OR Zip 97229

(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 465 ft.  
Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds
6	210	465	SEAL NOT	DISTURBED		

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:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner:	4 1/2	0	455	200#	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) 4 1/2 x 6 K-Packer @ 355 (SEE NOTE)

(7) PERFORATIONS/SCREENS:

Perforations Method SAW CUT  
 Screens Type \_\_\_\_\_ Material PVC 200

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
435	455	1/8x12	80			<input type="checkbox"/>	<input checked="" type="checkbox"/>

Received  
APR 29 2024  
OWRD

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

Yield gal/min	Drawdown	Drill stem at	Time
100+		350 to T.D.	1 hr.
60		180	"
18-20		100	"

Temperature of water 53° F Depth Artesian Flow Found \_\_\_\_\_  
Was a water analysis done?  Yes By whom AMJ  
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 WASHINGTON Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Township 2N N or S Range 3W E or W. WM.  
Section 36 NW 1/4 NW 1/4  
Tax Lot 103 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) 13990 NW OLD PUMPKIN RIDGE RD., CORNELIUS, OR

(10) STATIC WATER LEVEL:  
62 ft. below land surface. Date 11/18/98  
Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:  
Depth at which water was first found ?/210

From	To	Estimated Flow Rate	SWL
--	210	6 GPM	62
210	435	4 GPM	"
435	465	90+GPM	62

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

Material	From	To	SWL
Existing 6" steel cased well open hole	0	210	62
Red minerals sludge & rock fragments	200	210	
Gray-black basalt, occ. blk lava	210	257	
Multi-colored claystone, ash, sconia coleamic debris	257	270	
Black basalt & lava, occ. broken, creviced	270	390	
Gray-black basalt, occ. lava streaks	390	438	
Black lava, very broken, occ. gray-black basalt	438	455	
Black & red basalt & lava	455	465	62

NOTE: Liner hung on packer @ 355' wedged on bell.

Date started 11/12/98 Completed 11/18/98  
(unbonded) Water Well Constructor Certification:

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

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

(bonded) Water Well Constructor Certification:

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

WWC Number 573  
Signed \_\_\_\_\_ Date 11/20/98

WASH. APR - 5 2000  
55819

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

WATER RESOURCES DEPT.  
SALEM, OREGON

WELL I.D. # L. 38991  
START CARD # 129593

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

(1) OWNER: Well Number \_\_\_\_\_  
Name CROPP FARMS  
Address 31345 NW NORTH AVE.  
City NORTH PLATNS State OR Zip 97133

(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 420 ft.  
Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
10	0	281	Cement	0	45	17 sks
			Drill gel	45	250	
8	281	363	Cement	250	363	28 sks
6	363	420				

How was seal placed: Method  A  B  C  D  E  
 Other  
Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size of gravel \_\_\_\_\_

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 6"	+1	363	250	<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:

From	To	Slot size	Number	Diameter	Material	Tele/pipe size	Casing	Liner
<div style="border: 1px solid black; padding: 5px; display: inline-block;">                     Received APR 29 2004                 </div>								

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

<input type="checkbox"/> Pump	<input type="checkbox"/> Bailer	<input checked="" type="checkbox"/> Air	Flowing <input type="checkbox"/> Artesian
Yield gal/min	Drawdown	Drill stem at	Time
45		400	1 hr.
36		250	"
21		150	"

Temperature of water 56°F Depth Artesian Flow Found \_\_\_\_\_  
Was a water analysis done?  Yes By whom AMT  
Did any strata contain water not suitable for intended use?  Too little  
 Salty  Muddy  Odor  Colored  Other \_\_\_\_\_  
Depth of strata: 231-278' (SEALED OFF)

(9) LOCATION OF WELL by legal description:  
County WASHINGTON Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Township 2N N or S Range 3W E or W. WM.  
Section 35 SE 1/4 NW 1/4  
Tax Lot 500 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) 34051 NW MTN DALE RD

(10) STATIC WATER LEVEL:  
38 ft. below land surface. Date 03/30/2000  
Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:

Depth at which water was first found 383

From	To	Estimated Flow Rate	SWL
383	388	21 GPM	38
391	405	24 GPM	38

(12) WELL LOG:

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

Material	From	To	SWL
Topsoil	0	1	
Brown clay	1	17	
Gray clay	17	24	
Sticky brown clay	24	102	
Sticky gray clay	102	130	
Fine to coarse black sand	130	141	
Sticky gray clay	141	178	
Fine gray sand w/wood	178	190	
Soft dark gray clay	190	231	
Fine to med. black gravel	231	243	wb
Fine to med. brown gravel	243	247	wb
Fine to med. black gravel	247	278	wb
Sticky gray clay	278	318	
Firm gray-brown basalt	318	329	
Soft brown basalt	329	350	
Firm gray-brown basalt	350	391	38
Soft dk. gray-brown basalt	391	405	38
Firm gray-brown basalt	405	412	
Hard gray basalt	412	420	

Date started 03/06/2000 Completed 03/30/2000

(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 1266  
Signed \_\_\_\_\_ Date 03/31/2000

STATE OF OREGON  
WATER SUPPLY WELL REPORT

WASH 71480

WELL LABEL # L 107489  
START CARD # 207761  
ORIGINAL LOG # \_\_\_\_\_

(ORS 537.765 & OAR 690-205-0210)

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

(1) LANDOWNER  
Owner Well I.D. \_\_\_\_\_  
First Name Brady & Darci Last Name Wilson  
Company \_\_\_\_\_  
Address 1815 NW 143<sup>rd</sup> Ave B 28  
City Portland State OR Zip 97229

(2) TYPE OF WORK  New  Conversion  Deepening  
 Alteration (complete Sections 2a & 10)  Abandonment (complete Section 5a)

(2a) PRE-ALTERATION: Well Depth \_\_\_\_\_ ft.  
Seal Material \_\_\_\_\_  
Casing Type:  Steel  Plastic  Other \_\_\_\_\_  
Casing Gauge \_\_\_\_\_ Casing Diameter \_\_\_\_\_

(3) DRILL METHOD  Rotary Air  Rotary Mud  Auger  
 Cable  Cable Mud  Reverse Rotary  Other \_\_\_\_\_

(4) PROPOSED USE  Domestic  Irrigation  Community  
 Industrial/Commercial  Livestock  Dewatering  Injection  
 Thermal  Other \_\_\_\_\_

(5) BORE HOLE CONSTRUCTION  
Depth of Completed Well 486 ft. Special Standard:  Yes (attach copy)

BORE HOLE			SEAL			
Dia	From	To	Material	From	To	Amount (scks/lbs)
10"	0	35	bentonite	0	35	30
6"	35	98				
8"	98	133	cement	98	133	9
6"	133	486				

How was seal placed: Method  A  B  C  D  E

Other bentonite poured in dry  
Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
Filter pack from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_ Size \_\_\_\_\_

(5a) ABANDONMENT USING UNHYDRATED BENTONITE:  
Calculated Amount Proposed to be Used: \_\_\_\_\_ sacks/lbs  
Actual Amount Used: \_\_\_\_\_ sacks/lbs

(6) CASING/LINER

Csg	Lnr	Dia	+	From	To	Gauge	Steel	Plastic	Welded	Thrd
X		6"	+	1 1/2	133 1/2	250	X		X	
	X	4 1/2		6	486			X		

Shoe  Inside  Outside  Other Location of shoe(s) 133 1/2  
Temporary casing  Yes Diameter \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

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

Perf	Scrn	Csg	Lnr	Screen Dia	From	To	Screen/slot width	Slot length	# of slots	Tele/pipe size
X					446	486	3/8"		100	4 1/2

(8) WELL TESTS: Minimum testing time is 1 hour  
 Pump  Bailer  Air  Flowing Artesian  
Yield gal/min 60 Drawdown 200 Drill stem/Pump depth \_\_\_\_\_ Duration (hr) 1 1/2 hrs  
Temperature 55 °F Lab analysis  Yes By \_\_\_\_\_  
Water quality concerns?  Yes (describe below) TDS \_\_\_\_\_ ppm

From	To	Description	Amount	Units

(9) LOCATION OF WELL (legal description)  
County Washington Twp 2N Nor S Range 3W E or W W.M.  
Sec 29 NE 1/4 of the NW 1/4 Tax Lot 1400  
Tax Map Number \_\_\_\_\_ Lot \_\_\_\_\_  
Lat \_\_\_\_\_ " or \_\_\_\_\_ DMS or DD  
Long \_\_\_\_\_ " or \_\_\_\_\_ DMS or DD

Street Address of Well (or nearest address) 15600 NW Roads En Banks Oregon 97106

(10) STATIC WATER LEVEL

	Date	SWL (psi)	+	SWL (ft)
Existing Well/Pre-Alteration				
Completed Well	<u>1-29-13</u>			<u>232</u>

Flowing Artesian?  Yes Dry Hole?  Yes  
WATER BEARING ZONES Depth water was first found 350

SWL Date	From	To	Est Flow	SWL (psi)	+	SWL (ft)
<u>1-29-13</u>	<u>250</u>	<u>365</u>	<u>10</u>			<u>232</u>
<u>1-29-13</u>	<u>415</u>	<u>480</u>	<u>15</u>			<u>232</u>
<u>1-29-13</u>	<u>472</u>	<u>486</u>	<u>35</u>			<u>232</u>

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

Material	From	To
<u>brown soil</u>	<u>0</u>	<u>2</u>
<u>brown clay</u>	<u>2</u>	<u>5</u>
<u>red brown sandstone</u>	<u>5</u>	<u>12</u>
<u>red clay</u>	<u>12</u>	<u>48</u>
<u>brown clay</u>	<u>48</u>	<u>69</u>
<u>red clay</u>	<u>69</u>	<u>82</u>
<u>brown sandstone</u>	<u>82</u>	<u>98</u>
<u>grey rock</u>	<u>98</u>	<u>387</u>
<u>grey rock w/clay + wood</u>	<u>387</u>	<u>471</u>
<u>grey rock</u>	<u>471</u>	<u>460</u>
<u>grey rock w/clay + wood</u>	<u>460</u>	<u>471</u>
<u>grey rock</u>	<u>471</u>	<u>486</u>

Date Started 11-19-12 Completed 1-29-13

(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.

Received MAR 06 2013  
License Number \_\_\_\_\_ Date \_\_\_\_\_  
Signed APR 29 2024 RECEIVED BY OWRD

(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.

License Number 1430 Date 2-16-13  
Signed Jeff Blabouch Received  
Contact Info. (optional) \_\_\_\_\_ APR 29 2024

14450 - OWRD

STATE OF OREGON  
WATER SUPPLY WELL REPORT

(as required by ORS 537.765 & OAR 690-205-0210)

WELL LABEL # L 113897

START CARD # 210675

(1) LAND OWNER Owner Well I.D. \_\_\_\_\_

First Name MATTHEW Last Name HUNT  
Company \_\_\_\_\_  
Address 32790 NW PEACEFUL LANE  
City NORTH PLAINS State OR Zip 97133

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

(3) DRILL METHOD  
 Rotary Air  Rotary Mud  Cable  Auger  Cable Mud  
 Reverse Rotary  Other \_\_\_\_\_

(4) PROPOSED USE  Domestic  Irrigation  Community  
 Industrial/ Commercial  Livestock  Dewatering  
 Thermal  Injection  Other \_\_\_\_\_

(5) BORE HOLE CONSTRUCTION Special Standard  Attach copy  
Depth of Completed Well 515 ft.

BORE HOLE			SEAL			sacks/ lbs	
Dia	From	To	Material	From	To	Amt	S
10	0	30	Bentonite	0	25	16	S
6	30	350					
8	350	428	Cement	350	428	20	S
5.5	428	515					

How was seal placed: Method  A  B  C  D  E

Other POUR SLOWLY & PROD

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

Filter pack from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_ Size \_\_\_\_\_

Explosives used:  Yes Type \_\_\_\_\_ Amount \_\_\_\_\_

(6) CASING/LINER

Casing Liner	Dia	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	6	<input checked="" type="checkbox"/>	2	428	250	<input checked="" type="checkbox"/>	<input checked="" 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"/>

Shoe  Inside  Outside  Other Location of shoe(s) \_\_\_\_\_

Temp casing  Yes Dia \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

(7) PERFORATIONS/SCREENS

Perforations Method \_\_\_\_\_

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

Perf/S Casing/ Screen  
reen Liner Dia From To Scm/slot width Slot length # of slots Tel/ pipe size

Perf/S	Casing/	Screen	reen	Liner	Dia	From	To	Scm/slot	width	Slot	length	# of	slots	Tel/	pipe size

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

Pump  Bailer  Air  Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
80		515	1
80		425	.25
50		325	.25

Temperature 54 °F Lab analysis  Yes By \_\_\_\_\_

Water quality concerns?  Yes (describe below)

From	To	Revised by	Amount	Units

JUL 17 2014

(9) LOCATION OF WELL (legal description)

County WASHING Twp 2 N N/S Range 3 W E/W WM  
Sec 35 SW 1/4 of the NE 1/4 Tax Lot 207  
Tax Map Number \_\_\_\_\_ Lot \_\_\_\_\_  
Lat \_\_\_\_\_ " or \_\_\_\_\_ DMS or DD  
Long \_\_\_\_\_ " or \_\_\_\_\_ DMS or DD  
 Street address of well  Nearest address

32790 NW PEACEFUL LANE

(10) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL (psi)	+ SWL (ft)
Completed Well	07-08-2014		59

Flowing Artesian?  Dry Hole?

WATER BEARING ZONES

Depth water was first found 434

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
07-07-2014	434	505	24		59
07-08-2014	505	515	56		59

(11) WELL LOG

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

Material	From	To
BROWN CLAY	0	19
GRAY CLAY	19	29
STICKY BROWN CLAY	29	43
SOFT BROWN SILTY CLAY	43	59
STICKY BROWN CLAY WITH GRAY STREAKS	59	135
STICKY GRAY CLAY WITH SOFT GRAY	135	
BROWN SEAMS		194
SOFT BROWN SANDY CLAY	194	198
STICKY GRAY CLAY WITH OCC. BROWN	198	
STREAKS		295
RED BROWN CLAY	295	314
BROWN, GRAY BROWN CLAY WITH BROKEN	314	
ROCK		363
GRAY & BROWN CLY W/ ROTTEN WOOD STRK	363	405
GRAY BROWN CLAY	405	419
GRAY SANDSTONE WITH CLAY	419	433
GRAY CLAY	433	434
GRAY, GRAY BROWN BASALT	434	478
GRAY BASALT	478	515

Date Started 06-23-2014 Completed 07-08-2014

(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.

License Number 1492 Date 07-09-2014  
Password: (if filing electronically) \_\_\_\_\_  
Signed Mei Bagby **Received**  
**APR 29 2014**

(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.

License Number 1266 Date 07-09-2014  
Password: (if filing electronically) \_\_\_\_\_  
Signed \_\_\_\_\_  
Contact Info (optional) \_\_\_\_\_

SEP 24 1990

2N/3W/29 6A

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

WATER RESOURCES DEPT.  
SALEM, OREGON

(START CARD) # 20118

WASH 141

(1) OWNER: Name James & Chantal Faranda  
Address 808 S.W. 175th Pl.  
City Beverton State OR Zip 97006

(9) LOCATION OF WELL by legal description:  
County Wash Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Township 2N N or S. Range 3W E or W. WM.  
Section 29 NE 1/4 NW 1/4  
Tax Lot 510 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) Malvern Road  
Banks, OR

(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 455 ft.  
Explosives used  Yes  No  Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
10	0	179	Cement	0	179	38
6	179	455	Bentonite			

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:

Casing/Liner	Diameter	From	To	Gauge	Material			
					Steel	Plastic	Welded	Threaded
Casing	6	+1	179	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner	4	5	455		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of sheets) None

(7) PERFORATIONS/SCREENS:  
 Perforations Method DRILL  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
435	455		40	578		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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APR 29 2024  
OWRD

(8) WELL TESTS: Minimum testing time is 1 hour  
 Pump  Bailor  Air  Flowing  Artesian  
Yield gal/min 5 Drawdown \_\_\_\_\_ Drill stem at 440 Time 1 hr.

(10) STATIC WATER LEVEL:  
305 ft. below land surface. Date 9-19-90  
Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:  
Depth at which water was first found 374

From	To	Estimated Flow Rate	SW
374	383	3	30
393	397	2	30

(12) WELL LOG: Ground elevation \_\_\_\_\_

Material	From	To	SW
Red Clay	0	26	
BAN CLAY	26	150	
Weathered Rock	150	165	
Med Gray Rock	165	205	
Spamy Gray Rock	205	240	
BAN ROCK	240	289	
Gray Rock	289	295	
BAN ROCK	295	334	
DARK GRAY ROCK	334	346	
GRAY ROCK	346	374	
Black Pop Rock	374	383	30
GRAY ROCK	383	393	
Black Rock	393	397	30
BRN CLAY	397	402	
Blue Clay	402	406	
BAN/GRAY CLAY	406	418	
DARK GRAY SANDSTONE	418	444	
DARK GRAY CLAY	444	455	

Date started 9-17-90 Completed 9-19-90

(unbonded) Water Well Constructor Certification:  
I certify that the work I performed on the construction, alteration, abandonment of this well is in compliance with Oregon well construct standards. Materials used and information reported above are true to my knowledge and belief.  
Signed 14450 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. work performed during this time is in compliance with Oregon v construction standards. This report is true to the best of my knowledge s belief.  
Signed Don Frasier WWC Number 715 Date 9-20-90

STATE OF OREGON WATER RESOURCES DEPT.  
 WATER WELL REPORT WASH SALEM, OREGON  
 (as required by ORS 537.765) 0002

(START CARD) #

IN/5W/1C  
 13639

(1) OWNER: Well Number \_\_\_\_\_  
 Name Oregon Canadian Forest Prod. Inc.  
 Address P.O. Box 279  
 City North Plains State OR Zip 97133

(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 380 ft.  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
10	0	359	Cement + 5% Brnt	0	359	140
8	359	380				

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:

Casing:	Diameter	From	To	Gauge	Steel				Plastic		Welded		Threaded	
					Steel	Plastic	Welded	Threaded	Plastic	Welded	Threaded	Plastic	Welded	Threaded
	8	+1	359	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner:	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"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) none

(7) PERFORATIONS/SCREENS: none  
 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"/>
						<input type="checkbox"/>	<input type="checkbox"/>

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

Yield gal/min	Drawdown	Drill stem at	Time
180		350	1 hr.
90		180	1/2 hr.

Pump  Bailer  Air  Flowing Artesian

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

(9) LOCATION OF WELL by legal description:  
 County Wash Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township IN N or S, Range 3W E or W, WM.  
 Section 1 SW 1/4  
 Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) 740B West Commercial, North Plains

(10) STATIC WATER LEVEL:  
 95 ft. below land surface. Date 3-27-90  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:  
 Depth at which water was first found 367

From	To	Estimated Flow Rate	SWI
367	380	180	95

(12) WELL LOG: Ground elevation \_\_\_\_\_

Material	From	To	SWI
FILL	0	4	
BRN CLAY	4	23	
BLUE CLAY	23	60	
TAN CLAY	60	84	
GREY CLAY	84	109	
Lt BRN CLAY	109	135	
GREY CLAY	135	324	
WEATHERED ROCK	324	329	
BRN Spongy ROCK	329	344	
MED GREY ROCK	344	367	
BRN Porous ROCK	367	380	95

Date started 3-12-90 Completed 3-27-90

(unbonded) Water Well Constructor Certification:  
 I certify that the work I performed on the construction, alteration, abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.  
 Signed \_\_\_\_\_ WWC Number 14450 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. 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 Don Feakin WWC Number 715 Date 3-30-90



#18

STATE OF OREGON

WATER WELL REPORT  
(as required by ORS 537.765)

Wash  
199

IN/3W/1 CC  
18727

(START CARD) #

(1) OWNER: Forest Products Oregon Canadian Inc  
Name  
Address  
City North Plains State Ore Zip 97133

Well Number:

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

(3) DRILL METHOD  
 Rotary Air  Rotary Mud  Cable  
 Other

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

(5) BORE HOLE CONSTRUCTION:  
Special Construction approval Yes No Depth of Completed Well 500 ft.  
Explosives used   Type Amount

Table with columns: HOLE Diameter, From, To, SEAL Material, From, To, Amount sacks or pounds. Row 1: 8, 380, 500

How was seal placed: Method  A  B  C  D  E  
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: Existing well  
Liner:

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:  
Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner

(8) WELL TESTS: Minimum testing time is 1 hour  
Table with columns: Yield gal/min, Drawdown, Drill stem at, Time  
Row 1: 500+, Full, 500, 1 hr.

Temperature of water 60° Depth Artesian Flow Found  
Was a water analysis done?  Yes By whom  
Did any strata contain water not suitable for intended use?  Too little  
 Salty  Muddy  Odor  Colored  Other  
Depth of strata:

(9) LOCATION OF WELL by legal description:  
County Wash Latitude Longitude  
Township 1N N or S, Range 3W E or W, WM.  
Section 1 SW 1/4 SW 1/4  
Tax Lot Lot Block Subdivision  
Street Address of Well (or nearest address) 7408 West Commercial - North Plains Ore

(10) STATIC WATER LEVEL:  
9.5 ft. below land surface. Date June 13  
Artesian pressure lb. per square inch. Date

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

Table with columns: From, To, Estimated Flow Rate, SWI  
Existing well 150 ± 95  
413 434 150 ± 95  
475 500 150 ± 95

(12) WELL LOG: Ground elevation 200 ±

Table with columns: Material, From, To, SWI  
Existing well 380 Deep  
Broken Brown Basalt 380 413  
Dark grey Basalt broken 413 434  
Blue Basalt with holes 434 475  
Brown Basalt broken w/holes 475 500

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DEC 17 1990

WATER RESOURCES DEPT.  
DEM OREGON  
Received

APR 29 2024

OWRD

Date started June 12 Completed 13 June

(unbonded) Water Well Constructor Certification:  
I certify that the work I performed on the construction, alteration, abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.  
14450 - 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. 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 Dale S. Ahern Date June 19 1990 WWC Number 128

**For Place of Use or Character of Use Changes**

Are there other water right certificates, water use permits or ground water registrations associated with the "from" or the "to" lands?  Yes  No

If YES, list the certificate, water use permit, or ground water registration numbers: N/A

Pursuant to ORS 540.510, any "layered" water use such as an irrigation right that is supplemental to a primary right proposed for transfer must be included in the transfer or be cancelled. Any change to a ground water registration must be filed separately in a ground water registration modification application.

**For Substitution** (ground water supplemental irrigation will be substituted for surface water primary irrigation)

Ground water supplemental Permit or Certificate # \_\_\_\_\_;  
Surface water primary Certificate # \_\_\_\_\_.

Received  
APR 29 2024  
OWRD

**For a change from Supplemental Irrigation Use to Primary Irrigation Use**

Identify the primary certificate to be cancelled. Certificate # \_\_\_\_\_

**For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation:**

- Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map.  
**Well-2 Well Log Attached, see Attachment 6 – Basalt Aquifer Memo**

**AND/OR**

- Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For *proposed wells not yet constructed or built*, provide "a best estimate" for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.

**Table 3. Construction of Point(s) of Appropriation**

Any well(s) in this listing must be clearly tied to corresponding well(s) described in Table 1 and shown on the accompanying application map. Failure to provide the information will delay the processing of your transfer application until it is received. The information is necessary for the department to assess whether the proposed well(s) will access the same source aquifer as the authorized point(s) of appropriation (POA). The Department is prohibited by law from approving POA changes that do not access the same source aquifer.

Proposed or Authorized POA Name	Is well already built?	If an existing well, OWRD Well ID Tag No. L- _____	Total well depth	Casing Diam.	Casing Intervals (feet)	Seal depth(s)	Perforated or screened intervals	Static water level	Source aquifer	Well - specific rate (cfs or gpm).
WELL-2	YES	WASH-62373	665 ft	12"	0-300 ft	0-300 ft	Open-hole to 665 ft	34.4 ft bgs*	CRBG	1.0 CFS
AN	NO	-	650-750 ft	12"	Wells will be cased and sealed from the surface to approx. 200-250 ft (depending on conditions encountered in the field)	Open-hole to depth of ~650-750 ft	~30-50 ft	CRBG	1.0 CFS	
AS	NO	-								
PARK-A	NO	-								
PARK-B	NO	-								
PARK-C	NO	-								
WTP	NO	-								

\*Depth measurement collected on April 7, 2023.

\*Well construction parameters are estimated based on Well-2's design. Some variability is expected between locations due to surface elevation, dip of basalt strata locally and regionally, and other subsurface conditions.