T-14449

Permit Amendment

RA

T-14449

Name City of Banks
C/O Jolynn Becker
Address 13680 NW Main St.
Banks, OR 97106
jbecker@cityofbanks.org

Change in APOA
Date Filed 4/29/2024
Initial notice date 5/7/2024
DPD issued date
PD issued date
PD notice date
Date of FO Vol Page

C-Date
COBU due date
COBU Received date
Certificate issued

DESCRIPTION OF WATER RIGHT(s)

Name of Stream A well

Trib. of West Fork Dairy Creek

Use Municipal Uses County Washington
Quantity of water (CFS) No. of Acres
Name of ditch
App# G-8476 Per # G-7593 Cert # PR Date 9-29-1977
App# Per # Cert # PR Date
App# Per # Cert # PR Date
App# Per # Cert # PR Date
App# Per # Cert # PR Date

FEES PAID

Date	Amount	Receipt #
4-29-24	$125.00	142817
4-29-24	$4,300.00	142827
5-17-24	$2,127.06	142944

FEES REFUNDED

Date	Amount	Receipt #

Assignments:

Irrigation District Tualatin Valley Irrigation District

Agent Bob Long
bob.long@cwmh2o.com
CWRE
CC's list City of Banks

☐ - Oversized map – Location

Watermaster Review Form: Water Right Transfer

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

Transfer Application: T-14449 Review Due Date:

Applicant Name: City of Banks

Proposed Changes: ☐ POU ☐ POD ☑ POA ☐ USE ☐ OTHER

Reviewer(s): Jake Constans Date of Review: 06/04/2024

1. Do you have evidence that the right has not been used in the last 5 years and that the presumption of forfeiture would not likely be rebuttable? ☐ Yes ☑ No If "Yes", attach evidence (e.g. dated aerial photo showing pavement or building on the land for >5 yrs.)

2. Is there a history of regulation on the source that serves this (or these) right(s) that has involved the transferred right(s) and downstream water rights? ☑ Yes ☐ No Generally characterize the frequency of any regulation or explain why regulation has not occurred:

   Surface water in the Tualatin Basin is regualted each year for senior water rights.

3. Have headgate notices been issued for the source that serves the transferred right(s)?
   ☐ Yes ☑ No ☐ Records not available.

4. In your estimation, after the proposed change, would distribution of water for the right(s) result in regulation of other water rights that would not have occurred if use under the original right(s) was/were maximized? ☐ Yes ☑ No If "Yes", explain:

5. In your estimation, if the proposed change is approved, are there upstream water rights that would be affected? ☐ Yes ☑ No If "Yes", describe how the rights would be affected and list the rights most affected:

6. Check here ☐ if it appears that downstream water rights benefit from return flows resulting from the current use of the transferred right(s)? If you check the box, generally characterize the locations where the return flows likely occur and list the water rights that benefit most:

☑ N/A

7. For POD changes and instream transfers, check here if there are channel losses between the old and new PODs or within the proposed instream reach? If you check the box, describe and, if possible, estimate the losses:

☑ N/A

8. For instream transfers that propose protection of a reach beyond the mouth of the source stream:
☑ N/A Would the quantity be measureable into the receiving stream consistent with OAR 690-077-0015(8)? ☐ Yes ☐ No

9. For POU changes: ☑ N/A Is it likely the original place of use would continue to receive water from the same source? ☐ Yes ☐ No If "Yes", explain:

10. For POU or USE changes: ☑ N/A In your best judgment, would use of the existing right at "full face value," result in the diversion of more water than can be used beneficially and without waste?
☐ Yes ☐ No If "Yes", explain:

11. For POU changes that involve micro-irrigation: ☑ N/A
    a. Has the applicant made changes (absent a transfer) to convert to micro-irrigation within the current place of use boundary of the water right proposed for transfer, and previously demonstrated to the Department through monitoring and site inspections by the Watermaster that the proposed transfer will not result in injury or enlargement?
    ☐ Yes ☐ No If "Yes", explain:

b. Has a temporary transfer of this nature been previously filed and approved on the same lands (or portions thereof) as those lands involved in this transfer?

☐ Yes ☐ No If "Yes", answer the following:

i. Were there any problems with more acres being irrigated (or wetted) than were authorized under the temporary transfer? ☐ Yes ☐ No If "Yes", explain:

ii. Did the designated areas that were to remain dry (or not wetted) under the temporary transfer actually remain dry? ☐ Yes ☐ No If "No", explain:

iii. Did the applicant comply with and meet all of the conditions of the temporary transfer? ☐ Yes ☐ No If "No", explain:

iv. Do you have any other observations regarding the temporary transfer?

☐ Yes ☐ No If "Yes", describe:

v. Did the applicant demonstrate to the Department through monitoring and site inspections by the Watermaster that neither injury nor enlargement occurred as a result of the temporary transfer? ☐ Yes ☐ No If "No", explain:

c. To the best of your knowledge, if this transfer is approved, does it appear that:

i. "Injury" will occur to other water rights that share the same source?

☐ Yes ☐ No If "Yes", explain:

ii. "Enlargement" of the water right being transferred will occur?

☐ Yes ☐ No If "Yes", explain:

12. Are there other issues not identified through the above questions that should be considered in determining whether the change "can be effected without injury to other rights"?

☐ Yes ☑ No If "Yes", explain:

13. What alternatives may be available for addressing any issues identified above:

14. Do conditions need to be included in the transfer order to avoid enlargement of the right or injury to other rights? ☐ No ☑ Yes, as checked and provided below:

☐ For POU changes that involve micro-irrigation, provide the monitoring and reporting conditions necessary to prevent injury/enlargement:

☐ A Headgate should be required prior to diverting water.

☑ Measurement Devices for POD or POA: (if this condition is selected, also fill in the top sections of Page 4)

a. Before water use may begin *under this order, the water user shall install a* ***totalizing flow meter****, or, with prior approval of the Director, another suitable measuring device,* ☑ *at each point of diversion/appropriation (new and existing)* ***OR*** *at each new point of diversion/appropriation* ☐ *with the exception that water rights issued to the Bureau of Reclamation or an irrigation district (or similar entity) are not subject to this condition.*

b. *The water user shall maintain the meters or measuring devices in good working order.*

c. *The water user shall allow the Watermaster access to the meters or measuring devices; provided however, where the meters or measuring devices are located within a private structure, the Watermaster shall request access upon reasonable notice.*

☐ Reservoir water use measurement: (if this condition is selected, also fill in the top sections of Page 4)

a. Before water use may begin *under this order, the water user shall install* ***staff gages****, or, with prior approval of the Director, other suitable measuring devices, that measure the entire range and stage between empty and full in each reservoir. Staff gages shall be United States Geological Survey style.*

b. Before water use may begin *under this order, if the reservoir is located in channel, weirs or other suitable measuring devices must be installed upstream and downstream of the reservoir, and, an adjustable outlet valve must be installed. The water user shall maintain such devices in good working order. A written waiver may be obtained, if in the judgment of the Director, the installation of weirs or other suitable measuring devices, or the adjustable outlet valve, will provide no public benefit.*

*** The following alternative device(s) should be substituted for the bold, underlined device in the above selected condition:**

☐ Weir
☐ Parshall Flume
☐ Other: ___
☐ Submerged Orifice
☐ Flow Restrictor

Oregon Water Resources Department

Measurement Condition Information for the Applicant

(To be sent with the Draft Preliminary Determination or Final Order)

Transfer #: T- 14449

☑ In order to avoid enlargement of the right or injury to other rights, a totalizing flow meter will be required to be installed **prior to diversion of water**, as a condition of this transfer:

- ☑ *at each point of diversion/appropriation (new and existing)* ***OR***
- ☐ *at each new point of diversion/appropriation.*

For additional information, or to obtain approval of a different type of measurement device, the applicant should contact the area Watermaster:

Watermaster name: Jake Constans

District: 18

Address: 1400 SW Walnut Street, #240

City/State/Zip: Hillsboro, OR 97123

Phone: 503-846-7780

Email: jake.w.constans@water.oregon.gov

Note: *If a device other than the one specified in the Preliminary Determination or Final Order is approved by the Watermaster, fill out and mail the form below to the Salem office.*

****

Approval of an Alternate Measurement Device T-

(to be filled out after consultation with the applicant, or after a site visit)

On behalf of the Director, I authorize use of the following suitable **alternate measurement device:**

_____

_____

_____ _____

Watermaster signature District Date

If this form is used for approval of an alternative measurement device, it must be mailed to:

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

REIMBURSEMENT AUTHORITY
APPLICANT'S AGREEMENT
Contract Number: R11-499-25

This Agreement is between the **Oregon Water Resources Department**, hereafter OWRD, and **City of Banks**, hereafter Applicant, hereafter known together as the parties.

OWRD Information		Applicant's Information		Applicant's Representative	
Contact:	**Kelly Starnes**	Name:	City of Banks	Name:	CwM-H2O, LLC
Title:	Transfer Advisor	Contact:	Jolynn Becker, City Manager	Contact:	Bob Long, CWRE
Address:	725 Summer Street, NE, Suite A Salem, OR 97301-1266	Address:	13680 NW Main Street Banks, OR 97106	Address:	311 B Avenue, Suite P Lake Oswego, OR 97034
Phone:	503 979-3511	Phone:		Phone:	(503) 954-1326
Fax:	503 986-0901	Fax:		Fax:	
Email:	patrick.k.starnes@water.oregon.gov	Email:	jbecker@cityofbanks.org	Email:	bob.long@cwmh2o.com

Purpose The purpose of this Agreement is to expedite the processing of the **Transfer Application. (Application Number: T-14449)**

1. **Authority.** The OWRD has been authorized pursuant to ORS 536.055 to enter into a voluntary agreement with any applicant, permittee or regulated entity (collectively Applicant) for expediting or enhancing a regulatory process. In making this agreement, OWRD shall require the applicant to pay the full cost of expedited process.

2. **Restrictions.** Applicant and OWRD agree that this Agreement shall not be construed to restrict in any way the decisions and actions by OWRD. OWRD shall be free to exercise independent judgment consistent with existing laws and regulations.

3. **Effective Date and Duration.** Unless otherwise terminated by non-deposit of funds by the Applicant, this Agreement shall become effective on the date on which both parties have signed the Agreement and the full deposit of the estimated cost of the proposed service.

4. **Consideration.**

   a. Applicant shall pay OWRD in advance for actual costs incurred by OWRD. The estimated maximum reimbursement payable to OWRD under this Agreement is **$2,127.06**. Applicant agrees to pay the full amount of **$2,127.06** to OWRD prior to commencement of any work stated in this Agreement. This payment will be placed in an account administered by OWRD and drawn upon as costs are actually incurred. If the actual cost of performing the work is less than payments received, OWRD will refund the unspent balance. If the actual cost of processing exceeds the estimate, the Applicant can either elect to terminate this Agreement or amend the Agreement to reflect the increase in cost.

   b. The costs stated in this Agreement do not include the statutory application processing and filing fees.

5. **Confidentiality.** Applicant agrees that any information provided to or acquired by OWRD under this Agreement will be subject to the Oregon Public Records Law and shall be considered public records.

6. **Indemnity.** Applicant shall defend, save, hold harmless, and indemnify the State of Oregon, OWRD, and their officers, employees, and agents from and against all claims, suits, actions, losses, damages, liabilities, costs, and expenses of any nature resulting from or arising out of, or relating to the activities of Applicant or its representatives, officers, employees, contractors, or agents under this Agreement or with respect to the expedited service. The Applicant acknowledges that the Oregon Water Resources Department cannot and does not guarantee a favorable review under the subject regulatory process.

7. **Termination by Applicant.** Applicant may request to terminate this agreement only in writing at anytime during the process. The Applicant agrees to pay for the work done by OWRD up until the time of the written termination request. OWRD, upon receiving such written termination request from the Applicant, will refund any unspent balance.

8. **Termination by OWRD.** OWRD may terminate this Agreement if the applicant fails to provide any requested items necessary to complete the application and/or comply with applicable rule requirements within the specified timeframe outlined in the request letter, being a period of not less than 30 days.

9. **Funds Authorized and Available.** By its execution of this Agreement, Applicants certify that sufficient funds are authorized and available to cover the expenditures contemplated by this Agreement.

10. **Duration of Estimate.** The Estimate of Time to completion is **approximately** 120 days once this Agreement has been fully executed and payment of the estimated cost deposited. If the Applicant's Agreement is not received by the Department within thirty (30) days of mailing the Agreement, the Applicant may need to re-apply for a new estimate. NOTE: Any time estimate is approximate; No guarantee of Final Order issuance of a date is certain. Duration estimates do not include any statutory waiting periods.

10. **Completion Date.** OWRD, by the execution of this Agreement does not guarantee the completion date indicated in this Agreement. Completion date is only an estimate and may be affected by the Department's workload, issues arising from the processing of the requested services and Applicant's timely response to requests for additional information.

11. **Captions.** The captions or headings in this Agreement are for the convenience only and in no way define, limit, or describe the scope, or intent, of any provision of this Agreement.

12. **Amendment and Merger.** The terms of this Agreement shall not be waived, altered, modified, supplemented, or amended in any manner whatsoever, except by written instrument signed by both parties. Such waiver, consent, modification or change, if made, shall be effective only in the specific instance and for the specific purpose given. There are no understandings, agreements or representations, oral or written, not specified herein regarding this Agreement.

13. **Signatures.** All parties, by the authorized representative's signature below, hereby acknowledge that they have read this Agreement, understand it and agree to be bound by its terms and conditions.

For Applicant: _____ Name/Title: _____ 5-14-2024 Date

For OWRD: _____ Dwight French – Administrator 5-29-2024 Date

Mail signed Agreement to:

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

Received by OWRD
MAY 17 2024
Salem, OR

City of Banks RA# R11-499-25 T-14449						
Review Step						
Receipts received AA funds						
Transfer Support process Application						
Administrator signs AA						
NRS 1 enters workflow record in WRIS and updates RA spreadsheet						
NRS 2 completes initial review of file for deficiencies						
NRS 2 consults with Analyst and/or Manager						
Watermaster completes review						
Groundwater completes review (when applicable)						
NRS 2 completes FO, Permit, and PN						
Transfer Staff completes peer review of FO, Permit, and PN						
Transfer Analyst completes policy check at FO & Permit stage						
Data Center Reviews PD and superseding permit						
NRS 2 sends FO and Permit to app/agent by email and/or mail						
Transfer Analyst completes peer review of PN review for newspaper noticing						
Transfer Support requests newspaper quote for PN publishing						
NRS 2 sends publishing fee request to applicant/agent						
Transfer Support processes fee and newspaper publishing						
Transfer Support processes public notice (dept notice)						
Administrator signs FO and Permit						
Transfer Support issues FO and Permit, updates WRIS, copy to file, and mails hard copy to a						
NRS 1 closes out RA Contract						
			TOTAL ESTIMATE HOURS	33.76		
					TOTAL	$2,127.06

OREGON WATER RESOURCES DEPARTMENT

OREGON WATER RESOURCES DEPARTMENT

TRANSFER REIMBURSEMENT AUTHORITY
ESTIMATE APPLICATION

ORS 536.055 authorizes the Oregon Water Resources Department to expedite or enhance regulatory processes voluntarily requested under the agreement.
Please contact Transfer Staff before submitting this request, as the application fee of $125.00 per request is non-refundable.
Checks submitted for this application must be separate from Transfer fees.
The purpose of this application is to obtain estimates of the cost and time required to process a Transfer Application Request. ***There is a non-refundable application fee of $125.00 per request.***

REQUEST	TYPE	FILE NUMBER
☒	Transfer Application *(Permit Amendment)*	T-14449 Transfer Number *Not Yet Assigned (Permit G-7593)*

	Applicant Information	Applicant's Representative/Contact
Name:	**City of Banks** (Jolynn Becker, *City Manager*)	Bob Long, *CWRE* (CwM-H2O, LLC)
Address:	13680 NW Main Street	311 B Avenue, Suite P
	Banks, OR 97106	Lake Oswego, OR 97034
Phone:		(503) 954 – 1326
Fax:		
E-Mail Address:	jbecker@cityofbanks.org	Bob.long@cwmh2o.com

By signing this application, I understand:

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

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

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

Name:

Signature: Jolynn Becker

Received
APR 29 2024
OWRD

Send completed Application and payment to:

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

OWRD USE ONLY: Reimbursement Authority Number: R11-499-25

PERMIT AMENDMENT COVER SHEET

Transfer: T-14449 Permit Amendment Specialist:

Transfer Type: Permit Amendment Transfer Reimbursement Authority? ☒

Applicant:	**Agent:**	**CWRE**:
Jolynn Becker 13680 NW Main St Banks, OR 97106	Bob Long 311 B Ave, Suite P Lake Oswego, OR 97034	
Irrigation District:	**Affected Local Gov'ts**:	**Affected Tribal Gov't**:
BOR Notified (date):		

Permit(s) Affected

File Marked	App. File # or Decree Name	Permit Number	Superseding Permit Number
☐			
☐			
☐			

Key Dates & Initial Actions (Support Staff)

Rec'd: April 29, 2024	Proposed Action(s): ADDITIONAL POINT OF APPROPRIATION	
Fees Pd: 4300.00	Acknowledgement Letter Sent ☒	Basin: 2 Willamette
Initial Public Notice: 5/7/2024	County sent cc: of Ack Letter ☒	County: WASHINGTON
WM District: 18 Jacob W. Constans	WM Review request sent:	WM Review date received:
ODFW District:	ODFW Review sent:	ODFW Review date received:
Groundwater	GW Review sent:	GW Review date received:

Caseworker Actions: Newspaper Notice and other:

Newspaper notice needed: ☐	Name of Newspaper:
Newspaper notice sent to coordinator:	Newspaper notice quote requested (NRS1):
Request for news $ sent:	News $ received:
Affidavit of publication received:	Last day of publication:

Extension of Time? ☐	Assignment? ☐	Previous Permit Amendments? ☐	WMCP? ☐

Peer Review:

Document	Drafted	Peer Review	Coordinator	Changes Made	Signature Bin	Signature Date
FO	Date: _____ Initials: _____	Date: _____ Initials: _____	Date: _____ Initials: _____	Date: _____ Initials: _____ **Data Review Date:** _____	Date: _____ **WM Sheet** ☐ **ODFW Sheet:** ☐ **No. of docs for sig:** _____	Date: _____

Special Issues: _____

Special Order Volume: Vol. _____ Pages _____

Oregon
Tina Kotek, Governor

Water Resources Department
North Mall Office Building
725 Summer St NE, Suite A
Salem, OR 97301
Phone 503 986-0900
Fax 503 986-0904

May 6, 2024

City of Banks
Attn: Jolynn Becker
13680 NW Main St.
Banks, OR 97106

Reference: Application T-14449

On April 29, 2024, OWRD received your water right Permit Amendment Application. The application was accompanied by $4300.00. Our receipt number 142827 is enclosed.

By copy of this letter, we are asking the Watermaster for a report regarding the potential for injury to existing water rights which may be caused by the requested change. A review form will also be sent to our groundwater staff to determine whether the proposed well accesses the same source of water as the original well.

This application may require publication of a notice for two consecutive weeks in a newspaper with general circulation in the area where the water right is located. If it is determined that newspaper notice will be required, the Department will prepare the notice and notify you of the cost. You will be responsible for submitting payment to the Department prior to publication of the notice.

Except as provided under ORS 540.510(3) for municipalities, you may not use water from the new point of appropriation until a final order approving the application has been issued by the Department.

Refer to the following page for a chart showing the steps and expected timelines for the processing of your application.

If you have any questions, please contact the Transfer Section at (503) 986-0935.

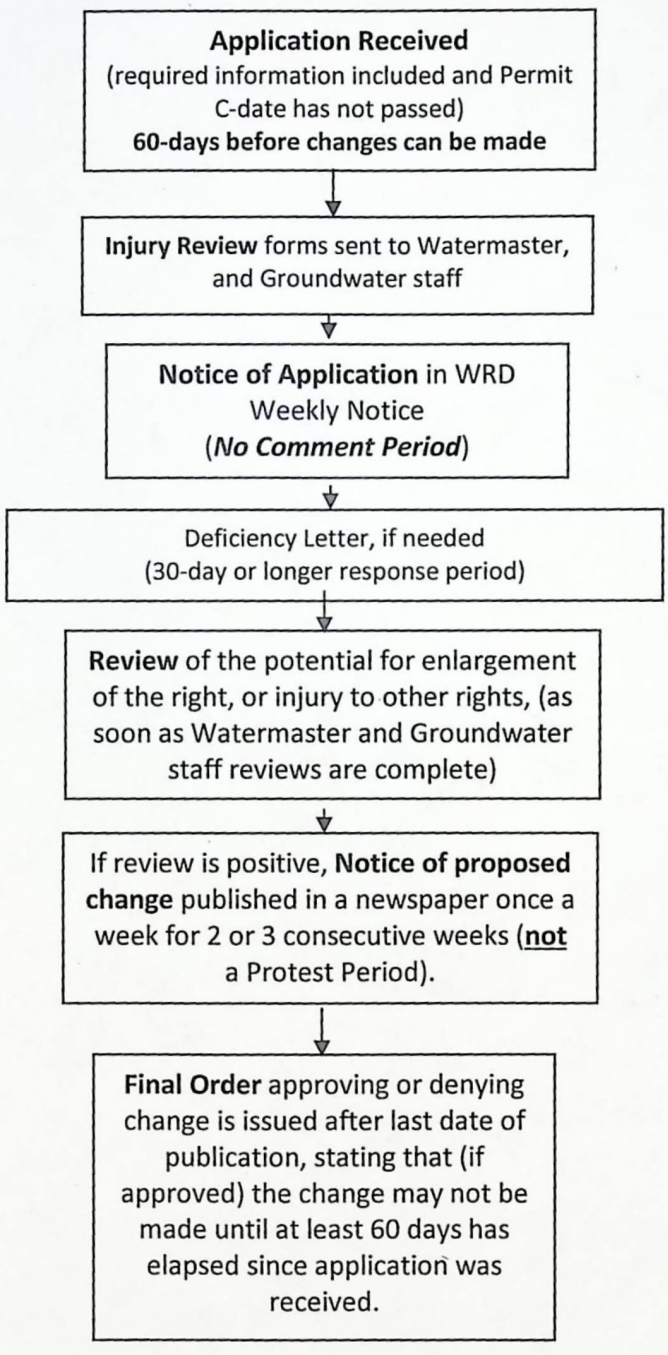
Cc: Watermaster Dist. #18, Jacob W. Constans (via email)
Bob Long, Agent
Irrigation District: Tualatin Valley Irrigation District

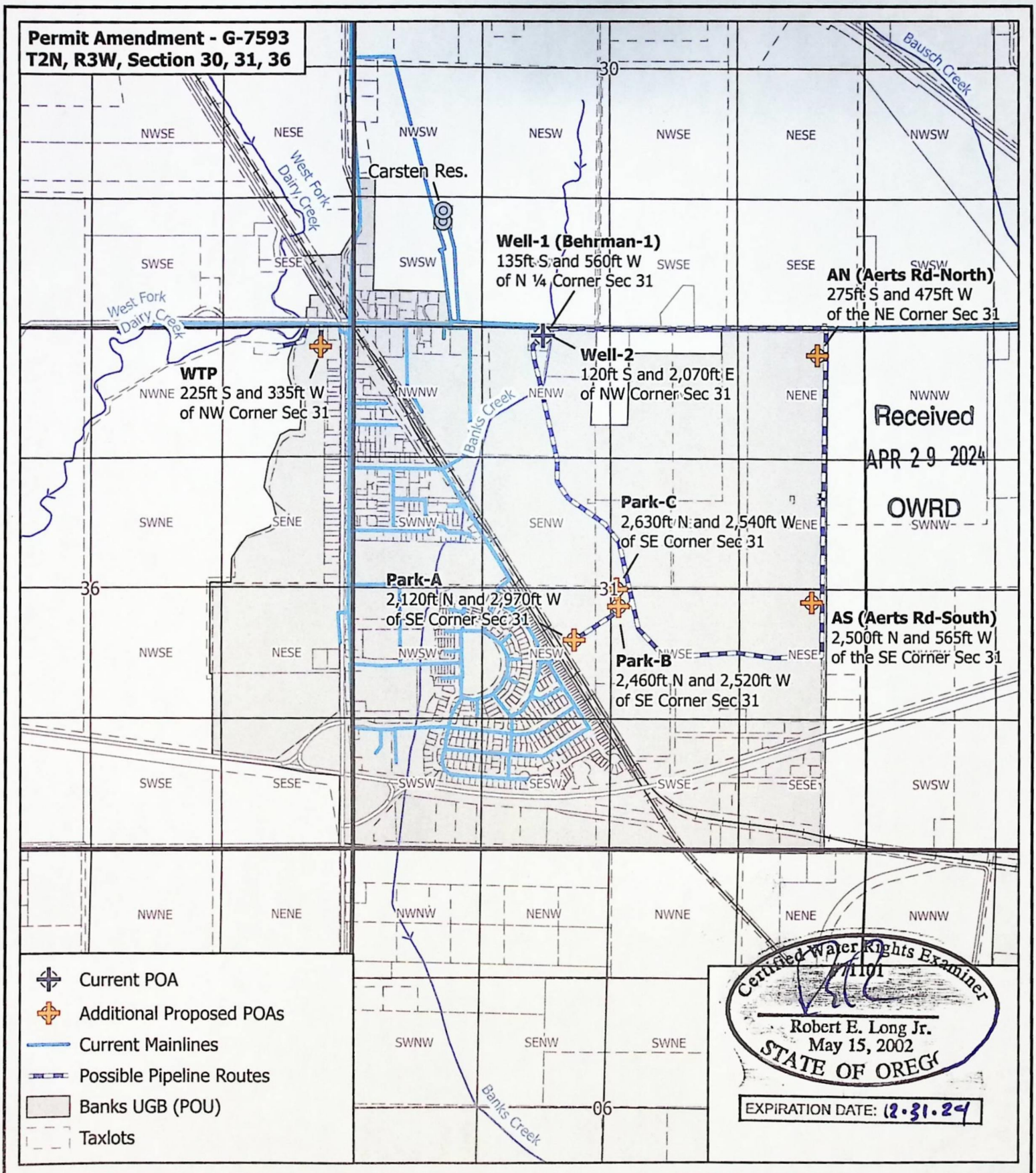
Enclosure

Permit Amendment Process

ORS 537.211

Changes: POD/POA, Place of Use





CwM-H2O
Complete Water Management

311 B Avenue, Suite P
Lake Oswego, Oregon 97034
(503) 954-1326

Figure 1
Permit Amendment Map
Permit G-7593 - City of Banks

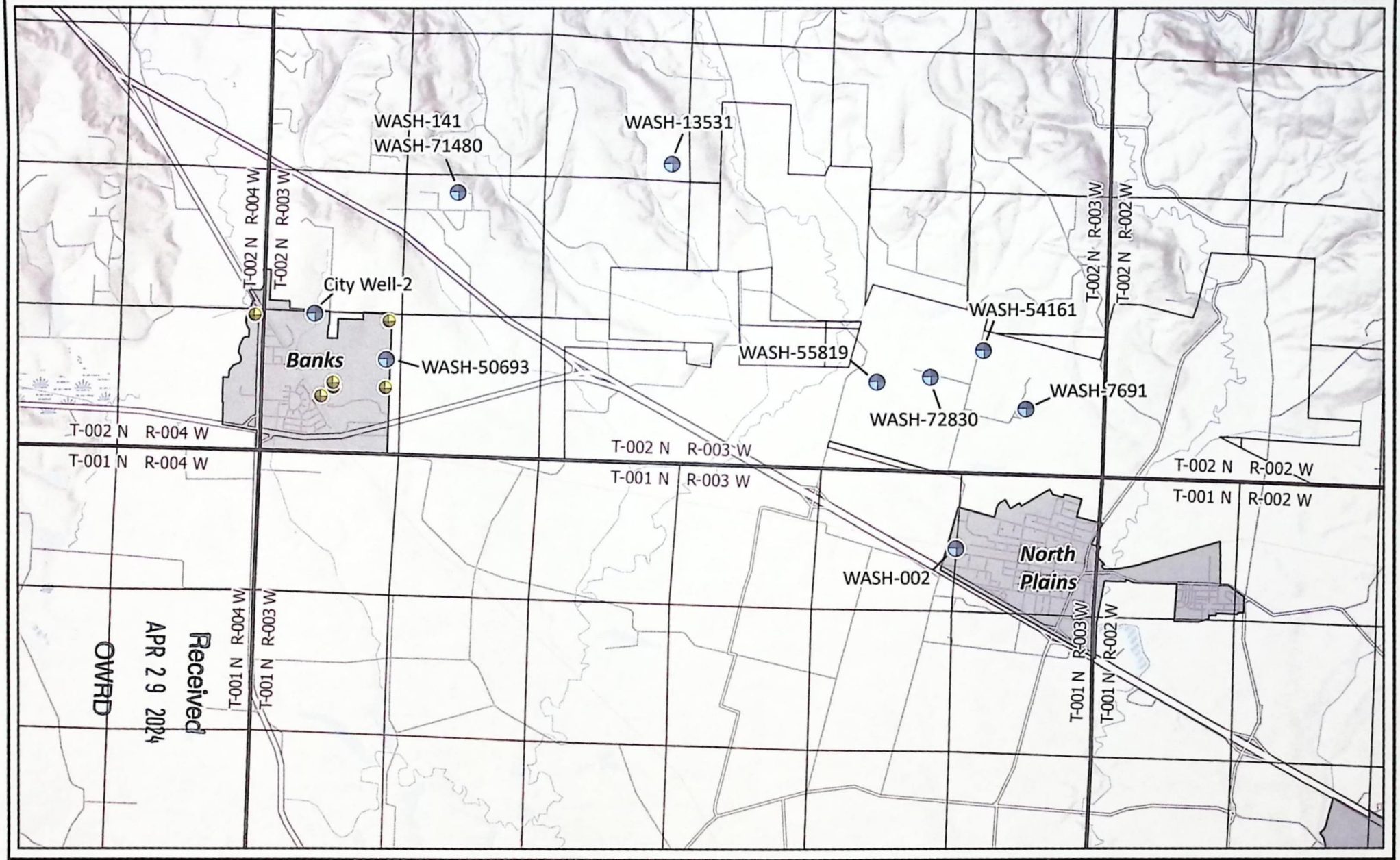
No.	Date	By	Revisions
1	DATE	AUTH	DRAFT

N 0 500 1,000 2,000 ft
Scale: 1" = 1,320'

Proj#: 1501007
Banks Eastside

City of Banks
13680 NW Main Street
Banks, OR 97106

14449 -



CwM-H2O
Complete Water Management

1319 SE MLK Jr. Blvd, Suite 204
Portland, Oregon 97214
(503) 954-1326

Figure 1
Vicinity Map

No.	Date	By	Revisions
1	DATE	AUTH	DRAFT

N

0 2,000 4,000 8,000 ft

1" = 5,000'

Proj#: 1501009
City of Banks Hydrogeology

City of Banks
13680 NW Main Street
Banks, OR 97106

- Reference Basalt Wells
- Additional Proposed POAs
- Urban Growth Boundaries
- Township-Range
- Section

14449 -

Application for
Permit Amendment
Part 1 of 5 – Minimum Requirements Checklist

OREGON WATER RESOURCES DEPARTMENT

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

This permit amendment 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.

Received
APR 29 2024
OWRD

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

☒ Part 1 – Completed Minimum Requirements Checklist.

☒ Part 2 – Completed Application Map Checklist.

☒ Part 3 – Application Fee, payable by check to the Oregon Water Resources Department, and completed Fee Worksheet, page 3: **$4,300**

☒ Part 4 – Completed Applicant Information and Signature.

☒ Part 5 – Information about Permits to be Amended: **Number of permits to be amended: 1**
List the Permits here: Permit G-7593
Please include a separate Part 5 for each permit. (See instructions on page 6)

☒ Completed Permit Amendment Application Map (Does not have to be prepared by a Certified Water Right Examiner). **(Attachment 1)**

☐ ☒ N/A Request for Assignment Form and statutory fee. The request for assignment form has to be completed if the applicant is **not** the permit holder of record and needs to be assigned to the permit; **or** the landowner of the proposed place of use is **not** the permit holder of record and needs to be assigned to the permit Assignment is not needed if the applicant is the permit holder of record.

☒ ☐ N/A Affidavit(s) of Consent are required from all permit holder(s) of record if the permit is not assigned to the applicant **or** other permit holders of record that are not listed as applicants. **(Attachment 2)**

☒ ☐ N/A Oregon Water Resources Department's Land Use Information Form with approval and signature (or signed land use form receipt stub) 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 3)**

☒ ☐ N/A Water Well Report/Well Log for changes in point(s) of appropriation (well(s)) or additional point(s) of appropriation. **Existing Well-1 Log Included (Attachment 4)**

☐ ☒ 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 feet from the surface water source and more than 1000 feet upstream or downstream from the point of diversion. (ORS 540.531(2) or (3)).

(For Staff Use Only)
WE ARE RETURNING YOUR APPLICATION FOR THE FOLLOWING REASON(S):
___ Application fee not enclosed/insufficient ___ Map not included or incomplete
___ Land Use Form not enclosed or incomplete
___ Additional signature(s) required ___ Part ____ is incomplete
Other/Explanation _____
Staff: _____ 503- _____ Date: ____/____/____

Received
APR 29 2024
OWRD

Part 2 of 5 – Permit Amendment Map Checklist

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

Please be sure that the map you submit includes all the items listed below and meets the requirements of OAR 690-380-3100, however, the map does not have to be prepared by a Certified Water Right Examiner. Check all boxes that apply.

Received
APR 29 2024
OWRD

☐ ☒ N/A If **more than three** permits are involved, separate maps for each permit.

☒ 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 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 use permit, 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 permit is being changed, a separate hachuring is needed for the portion of the permit left unchanged.

☐ ☒ N/A If you are proposing a change in place of use, show the proposed place of use with hachuring that includes separate hachuring for each permit, 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 use 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°).

Part 3 of 5 – Fee Worksheet

	FEE WORKSHEET for PERMIT AMENDMENT		
1	Base Fee (includes one type of change to one permit for up to 1 cfs)	*1*	$1,360
2	Types of change proposed: ☐ Place of Use ☒ Point of Diversion/Appropriation Number of above boxes checked = 1 (2a) Subtract 1 from the number in line 2a = 0 (2b) *If only one change, this will be 0* Multiply line 2b by $1090 and enter »	*2*	0
3	Number of permits included in Permit Amendment 1 (3a) Subtract 1 from the number in 3a: 0 (3b) *If only one permit this will be 0* Multiply line 3b by $610 and enter »	*3*	0
4	Do you propose to add or change a well, or change from a surface water POD to a well? ☐ No: enter 0 ☒ Yes: enter $480 for the 1st well to be added or changed $480 (4a) Do you propose to add or change additional wells? ☐ No: enter 0 ☒ Yes: multiply the number of additional wells by $410 $2,460 (4b) Add line 4a to line 4b and enter » » » » » » » » » » » » » » » »	*4*	$2,940
5	Do you propose to change the place of use? ☒ No: enter 0 on line 5 ☐ Yes: enter the cfs for the portions of the permits to be amended (see below*): _____ (5a) Subtract 1.0 from the number in 5a above: _____ (5b) If 5b is 0, enter 0 on line 5 » If 5b is greater than 0, round up to the nearest whole number: _____ (5c) and multiply 5c by $350, then enter on line 5 »	*5*	0
6	Add entries on lines 1 through 5 above » » » » » » » » » » Subtotal:	*6*	$4,300
7	Is this permit amendment: ☐ necessary to complete a project funded by the Oregon Watershed Enhancement Board (OWEB) under ORS 541.932? ☐ endorsed in writing by ODFW as a change that will result in a net benefit to fish and wildlife habitat? If one or more boxes is checked, multiply line 6 by 0.5 and enter on line 7 If no box is applicable, enter 0 on line 7» » » » » » » » » » » » »	*7*	0
8	Subtract line 7 from line 6 » » » » » » » » » » » » » » » » **Permit Amendment Fee:**	*8*	**$4,300**

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APR 29 2024
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*Example for Line 5a calculation to transfer 45.0 acres of Primary Permit S-12345 (total 1.25 cfs for 100 acres) and 45.0 acres of Supplemental Permit S-87654 (1/80 cfs per acre) on the same land:

1. For irrigation calculate cfs for each permit involved as follows:
   a. Divide total authorized cfs by total acres in the permit *(for S-12345, 1.25 cfs ÷100 ac)*; then multiply by the number of acres to be changed to get the application cfs *(x 45 ac= 0.56 cfs)*.
   b. If the water right permit does not list total cfs, but identifies the allowable use as 1/40 or 1/80 of a cfs per acre; multiply number of acres proposed for change by either 0.025 (1/40) or 0.0125 (1/80). *(For S-87654, 45.0 ac x 0.0125 cfs/ac = 0.56 cfs)*
2. Add cfs for the portions of permits on all the land included in the application; however **do not count cfs for supplemental permits on acreage for which you have already calculated the cfs fee for the primary permit on the same land.** The fee should be assessed only once for each "on the ground" acre included in the application. *(In this example, blank 5a would be only 0.56 cfs, since both permits serve the same 45.0 acres. Blank 5b would be 0 and Line 5 would then also become 0).*

Part 4 of 5 – Applicant Information and Signature

Applicant Information

APPLICANT/BUSINESS NAME			PHONE NO.	ADDITIONAL CONTACT NO.
City of Banks (Jolynn Becker, City Manager)				
ADDRESS **13680 NW Main Street**				FAX NO.
CITY **Banks**	STATE **OR**	ZIP **97106**	E-MAIL **jbecker@cityofbanks.org**	
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			PHONE NO.	ADDITIONAL CONTACT NO.
Bob Long, CWRE, RG, RHG			**503-954-1626**	
ADDRESS **311 B Ave, Suite P**				FAX NO.
CITY **Lake Oswego**	STATE **OR**	ZIP **97034**	E-MAIL **bob.long@cwmh2o.com**	
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.				

City of Banks Permit G-7593 currently has only one approved point of appropriation (POA), Well-1. Well-1 is constructed within 70 ft of City Well-2, and the two wells cause pumping interference when operated in conjunction. Well-2 has a higher pumping capacity and a higher pumping rate available on its water right. When Well-2 pumps, the water level in Well-1 drops (and vice-versa). Therefore, Well-1 cannot effectively operate at the same time as Well-2 and is only able to produce a fraction of its water right.

The purpose of this permit amendment application is to add additional POA locations to the Well-1 water right. Wells constructed at these additional POAs will be sufficiently separated from Well-2 that they will be able to operate independently without incurring significant interference. Furthermore, having multiple wells under Permit G-7593 will allow the City to optimize production under this right and limit the compounding drawdown effects between Well-1 and Well-2.

This amendment application includes 7 additional POA locations. The City intends to develop between 1 and 3 of these new wells on Permit G-7593. Adding the 7 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 other proposed well location (AN), as documented in the attached consent forms.

☐ ~~Check this box if this project is fully or partially funded by the American Recovery and Reinvestment Act. (Federal stimulus dollars)~~

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APR 29 2024
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Is the applicant the permit holder of record? ☒ Yes ☐ No

If NO, include either:

☐ ~~A completed assignment form (with required statutory assignment fee), assigning all or a portion of the permit to the applicant(s), OR~~

☐ ~~An affidavit of consent from the permit holder(s) of record that gives permission for the applicant to amend the permit.~~

Has the Completion ("C") Date of the permit(s) in this application expired? ☐ Yes ☒ No

If YES, this application will not be accepted by the Department.

If NO, what are the completion dates of the permit(s)? Extended Completion Date: 10/01/2027

- If the permit completion date expires while the Permit Amendment Application is pending, the Department will not approve the Permit Amendment Application until an Extension of Time Application is approved for the permit.

- You may consider using the Reimbursement Authority process to expedite the processing of this Permit Amendment Application if the completion date of the permit expires within 6 months of the date of filing this application.

By my signature below, I confirm that I understand:

- Prior to Department approval of the permit amendment, 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 permit 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: _____

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

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APR 29 2024
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Applicant Signature	Print Name (and Title if applicable)	Date
	Toby Manager Johnna Becke	4-10-24

Check one of the following:

☒ The applicant is responsible for completion of change(s). Notices and correspondence should continue to be sent to the applicant.

☐ The permit holder(s) of record will be responsible for completing the proposed change(s) after the final order is issued. Copies of notices and correspondence should be sent to the permit holder(s) of record.

Check the appropriate box, if applicable:

☒ Check here if any of the permits proposed for amendment are or will be located within or served by an irrigation or other water district.

IRRIGATION DISTRICT NAME	ADDRESS	
Tualatin Valley Irrigation District	**2330 Elm Street**	
CITY	STATE	ZIP
Forest Grove	**OR**	**97116**

**The City of Banks Urban Growth Boundary falls within the same Sections and Quarter-quarters as portions of the Tualatin Valley Irrigation District's service area. The water produced, conveyed, and used under the City's water rights and water distribution system is separate from water that may be provided by the District.*

☐ ~~Check here if water for any of the permits 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 local governments (each county, city, municipal corporation, or tribal government) within whose jurisdiction water will be diverted, conveyed or used.

ENTITY NAME	ADDRESS	
City of Banks	**13680 NW Main Street**	
CITY	STATE	ZIP
Banks	**OR**	**97106**

**The current and proposed POAs and the existing POU are located completely within the City of Banks' service area as defined by the Urban Growth Boundary. Therefore, all water production and usage under this right occurs within the jurisdiction of the City alone.*

Part 5 of 5 – Water Use Permit Information

Please use a separate Part 5 for each permit being changed. See instructions on page 6, to copy and paste additional Part 5s, or to add additional rows to tables within the form.

PERMIT # G-7593

Table 1. Location of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA)
(Note: If the POD/POA name is not specified in the permit, assign it a name or number here.)

POD/POA Name or Number	Is this POD/POA Authorized by the permit or is it Proposed?	If POA, OWRD Well Log ID#	Twp		Rng		Sec	¼ ¼		Tax Lot, DLC or Gov't Lot	Measured Distances (from a recognized survey corner)
Well-1 (Behrman Well 1)	☒ Authorized ☐ Proposed	**WASH-7651**	**2**	**N**	**3**	**W**	**31**	**NE**	**NW**	**0402**	135ft S & 560ft W of N ¼ Corner Sec 31
WTP (Water Treatment Plant)	☐ Authorized ☒ Proposed	*PROPOSED*	**2**	**N**	**4**	**W**	**36**	**NE**	**NE**	**0600**	175 ft S & 335 ft W of NW Corner Sec 31
AN (Aerts Rd North)	☐ Authorized ☒ Proposed	*PROPOSED*	2	N	3	W	31	NE	NE	0100	275 ft S & 475 ft W of the NE Corner Sec 31
AS (Aerts Rd South)	☐ Authorized ☒ Proposed	*PROPOSED*	2	N	3	W	31	NE	SE	0100	2,500 ft N & 565 ft W of the SE Corner Sec 31
Park-A (Park Primary)	☐ Authorized ☒ Proposed	*PROPOSED*	2	N	3	W	31	NE	SW	0600	2,120 ft N & 2,970 ft W of the SE Corner Sec 31
Park-B (Park Alternative)	☐ Authorized ☒ Proposed	*PROPOSED*	2	N	3	W	31	NW	SE	0100	2,460 ft N & 2,520 ft W of the SE Corner Sec 31
Park-C (Park Alternative)	☐ Authorized ☒ Proposed	*PROPOSED*	2	N	3	W	31	NW	SE	0400	2,630 ft N & 2,540 ft W of the SE Corner Sec 31
Well-2 (Behrman Well 2)	☐ Authorized ☒ Proposed	**WASH-62373**	**2**	**N**	**3**	**W**	**31**	**NE**	**NW**	**0402**	120ft S & 2,070 ft E 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)
- ☐ Point of Diversion (POD)
- ☐ Additional Point of Diversion (APOD)
- ☐ Point of Appropriation/Well (POA)
- ☒ Additional Point of Appropriation (APOA)
- ☐ Surface water POD to Ground Water POA

Will all of the proposed changes affect the entire water use permit?

- ☒ Yes — Complete only the proposed ("to" 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 permit to be changed.

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APR 29 2024
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For a change in place of use: N/A

~~**Does the permit holder of record own or control the land TO which the place of use is being moved?**~~
~~☐ Yes ☐ No~~

~~If NO, the landowner of the land TO which the place of use is being **moved must be assigned to the permit as a permit holder of record** by submitting a completed Request for Assignment form and the required statutory fee for an assignment.~~

~~**Is the proposed place of use contiguous to the authorized place of use?** ☐ Yes ☐ No~~

~~The permitted place of use can be moved only to lands that are contiguous to the authorized place of use **unless** the change to non-contiguous lands is in furtherance of mitigation or conservation efforts undertaken for the purposes of benefiting a species listed as sensitive, threatened, or endangered under ORS 496.171 to 496.192 or the federal Endangered Species Act of 1973 (16 U.S.C. 1531 to 1544), as determined by the listing agency. Contiguous land being either adjacent land or land separated from the land to which a permit is authorized by roads, utility corridors, irrigation ditches or publicly owned rights of way.~~

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

Table 2. Description of Changes to Water Use Permit # G-7593

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-1 AN WTP AS PARK-A PARK-B PARK-C WELL-2	9/29/1977
TOTAL ACRES										TOTAL ACRES						N/A		

Additional remarks: *The proposed changes effect the entire water right. The place of use for Permit G-7593 is the City's municipal service area.*

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APR 29 2024
OWRD
14449 -

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

If YES, list the other certificate, permit, or ground water registration numbers: **N/A** (no "from" lands)

If the permit(s) are for irrigation or supplemental irrigation use, other water rights existing on the same land for irrigation that are subject to transfer must either change concurrently or be cancelled. Any change to a water right certificate or ground water registration must be filed separately in a water right transfer application or ground water registration modification application, respectively.

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-1 Log is Attachment 4, Well-2 Log is Attachment 5, other new POAs are proposed,** 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) (intervals)	Perforated or screened intervals (in feet)	Static water level (in feet)	Source aquifer	Well - specific rate (cfs or gpm).
WELL-1	**YES**	-	**450 ft**	**8-5/8"**	**0-210 ft**	**0-210 ft**	**Open-hole to 450 ft**	**32.2 ft bgs***		
WELL-2	YES	WASH-62373	665 ft	12"	0-300 ft	0-300 ft	Open-hole to 665 ft	34.4 ft bgs*		
AN	NO	-								
AS	NO	-								
PARK-A	NO	-							**CRBG**	**0.67 CFS**
PARK-B	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		
PARK-C	NO	-								
WTP	NO	-								

**The proposed well designs are based on the general construction of Well-2, which is proposed to be added as a POA to this permit. The attached Basalt Aquifer Memo (Attachment 6) describes available data that suggests the two water-bearing zones function as a single aquifer.*

**Measurement at Well-1 collected on April 7, 2023.*

Well-1

Application for
Water Right Transfer

OREGON WATER RESOURCES DEPARTMENT
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 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 Permit G-7593

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-1)
(site address)

M Cropp — 3/5/2024
Signature of Affiant — Date

Signature of Affiant — Date

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

OFFICIAL STAMP
ANGELA GAYLE LANTER
NOTARY PUBLIC - OREGON
COMMISSION NO. 1016725
MY COMMISSION EXPIRES SEPTEMBER 26, 2025

Angela G. Lanter
Notary Public for Oregon

My commission expires September 26, 2025

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Revised 7/1/2021

Well-1

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 Robert S. Bobosky, Manager, Wolverine Financial, LLC in my/our capacity as Owner of the land containing a proposed POA,
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 Permit G-7593
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-1)
(site address)

Robert S Bobosky
Signature of Affiant

January 9th, 2024
Date

Signature of Affiant

Date

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

OFFICIAL STAMP
ICEZICK LEONARD BATISTE
NOTARY PUBLIC - OREGON
COMMISSION NO. 1031130
MY COMMISSION EXPIRES NOVEMBER 21, 2026

I L Batiste
Notary Public for Oregon

My commission expires 11/21/2026

Received
APR 29 2024
OWRD

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ATTACHMENT 2

Application for

Water Right Transfer

OREGON WATER RESOURCES DEPARTMENT
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 Quail Valley Golf Course 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 G-7593

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) 2N331CA06900 (TL 6900),

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

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

Doug Hixson
Signature of Affiant

4.9.2024
Date

Signature of Affiant

Date

Subscribed and Sworn to before me this 9 day of April, 2024.

Madison Marie Ross
Notary Public for Oregon

OFFICIAL STAMP
MADISON MARIE ROSS
NOTARY PUBLIC - OREGON
COMMISSION NO. 1045431
MY COMMISSION EXPIRES FEBRUARY 20, 2028

My commission expires February 20 2028

Revised 7/1/2021

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APR 29 2024
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Application for
Water Right Transfer

OREGON WATER RESOURCES DEPARTMENT
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 QUAIL VALLEY GOLF COURSE 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 G-7593

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)
(site address)

Doug Hixson
Signature of Affiant

4.9.2024
Date

Signature of Affiant

Date

Subscribed and Sworn to before me this 9 day of April, ~~2024~~ 2024.

Madison Marie Ross
Notary Public for Oregon

OFFICIAL STAMP
MADISON MARIE ROSS
NOTARY PUBLIC - OREGON
COMMISSION NO. 1045431
MY COMMISSION EXPIRES FEBRUARY 20, 2028

My commission expires February 2028

14449 -

Received
APR 29 2024
OWRD

Revised 7/1/2021

ATTACHMENT 2

Application for Water Right Transfer

OREGON WATER RESOURCES DEPARTMENT
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 Quail Valley Golf Course 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 G-7593

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) and in two locations in a proposed park area (Park-B and Park-C)
(site address)

Doug Hixson
Signature of Affiant

4.9.2024
Date

Signature of Affiant

Date

Subscribed and Sworn to before me this 9 day of April, 2024.

Madison Marie Ross
Notary Public for Oregon

OFFICIAL STAMP
MADISON MARIE ROSS
NOTARY PUBLIC - OREGON
COMMISSION NO. 1045431
MY COMMISSION EXPIRES FEBRUARY 20, 2028

My commission expires February 20 2028

Received
APR 29 2024
OWRD

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Revised 7/1/2021

ATTACHMENT 3

Land Use Information Form

OREGON WATER RESOURCES DEPARTMENT

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
14449 - APR 29 2024
OWRD

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		*	☐ Diverted ☒ Conveyed ☒ Used	
		31	NE NW	0402		☒ Diverted ☐ Conveyed ☐ Used	
		31	NE NE	0100		☒ Diverted ☐ Conveyed ☐ Used	
		31	NE SW	6900		☒ Diverted ☐ Conveyed ☐ Used	
		31	NW SE	0100		☒ Diverted ☐ Conveyed ☐ Used	
		31	NE SE	0100		☒ Diverted ☐ Conveyed ☐ Used	
		25	SE SE	0600		☐ Diverted ☒ Conveyed ☒ Used	
		30	SW SW	*		☐ Diverted ☒ Conveyed ☒ Used	
		30	NW SW			☐ Diverted ☒ Conveyed ☒ Used	
	4W	36	NE NE	0600		☒ Diverted ☒ Conveyed ☒ Used	
		36	E ¼	*		☐ Diverted ☒ Conveyed ☒ Used	
		36	NW SE			☐ Diverted ☒ Conveyed ☒ Used	
		36	SW SE			☐ Diverted ☒ Conveyed ☒ 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)*

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APR 29 2024
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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) _____

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29 2024;
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Estimated quantity of water needed: 0.67 ☒ 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:

Permit amendment application to add additional POAs to support potential construction of new well(s) for one of the City's two groundwater supply rights (G-7593).

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:	
	Received APR 29 2024 OWRD	☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ 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: Johnni Becker Title: City Manager

Signature: Johnni Becker Phone: 503-324-5112 Date: 4-9-24

Government Entity: _____

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: _____

ATTACHMENT 4

CTOR
ort

WATER WELL REPORT
STATE OF OREGON
(Please type or print)

WASH 7651

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

Received
APR 29 2024

of well completion.

RECEIVED
SEP - 61977
(Do not write above this line)
WATER RESOURCES DEPT.
SALEM, OREGON

(1) OWNER:
Name City of Banks
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:
Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☒
Irrigation ☐ Test Well ☐ Other ☐

(5) 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

(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? AMJannsen
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 OWRD
¼ ¼ 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 84 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] (Drilling Machine Operator) Date 8/29/77, 19
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. Jannsen Drilling Co. (Person, firm or corporation) (Type or print)
Address 21075 SW Tualatin Valley Hwy. Aloha, Oregon
[Signed] Edward M. Jannsen (Water Well Contractor)
Contractor's License No. 79 Date 8/29/77, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

14449 -

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
SEP - 6 1977
WATER RESOURCES DEPT.
SALEM, OREGON

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

State Well No. 2N/3W-31

State Permit No.

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 12.

(3) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:
Threaded ☐ Welded ☐
..." Diam. from ... ft. to ... ft. Gage ...
..." 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
¼ ¼ Section T. R. W.M.
Bearing and distance from section or subdivision corner

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

(12) WELL LOG:
Diameter of well below casing
Depth drilled ft. Depth of completed well ft.

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

MATERIAL	From	To	SWL
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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OWRD

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] ... (Drilling Machine Operator) Date ..., 19...
Drilling Machine Operator's License No. ...

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name ... (Person, firm or corporation) (Type or print)
Address ...
[Signed] ... (Water Well Contractor)
Contractor's License No. ... Date ..., 19...

(USE ADDITIONAL SHEETS IF NECESSARY)

14449 -

SP*45656-119

RECEIVED WASH 62373
JUN 02 2005
WATER RESOURCES DEPT
SALEM, OREGON

ATTACHMENT 5

WELL I.D. # L 75346

START CARD # 173577

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

(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 Diameter	From	To	SEAL 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	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

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

(7) PERFORATIONS/SCREENS
☐ Perforations Method _____
☐ Screens Type _____ Material _____

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

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

Yield gal/min	Drawdown	Drill stem at	Time
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 basalthrd	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

Received
APR 29 2024
OWRD

(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 _____

ORIGINAL – WATER RESOURCES DEPARTMENT FIRST COPY – CONSTRUCTOR SECOND COPY – CUSTOMER 06/16/2004

14449 -

Conti. Page 2

RECLWASH 62373

JUN 02 2005

WATER RESOURCES DEPT
SALEM, OREGON

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

WELL I.D. # L 75346

START CARD # 173577

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

(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 Diameter	From	To	SEAL Material	From	To	Sacks or Pounds

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

(6) CASING/LINER

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

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

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

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

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APR 29 2024
OWRD

(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, fracs, 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 fracs.	468	615	
Blk basalt interbed, occ claystone occ lava streaks.	615	660	48
Blk/gry-blk basalt, fracs.	660	665	

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APR 29 2024
OWRD

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

(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

ORIGINAL – WATER RESOURCES DEPARTMENT FIRST COPY – CONSTRUCTOR SECOND COPY – CUSTOMER 06/16/2004

14449 -

CwM-H2O
Complete Water Management

Pacific Northwest

April 17, 2024

1501011

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

c/o: Dennis Orlowski, *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

1319 SE MLK Jr. Blvd, Suite 204, Portland, Oregon 97214
Complete Water Management | CwMH2O.com

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 with in 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 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

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,

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

Received
APR 29 2024
OWRD 14449 -

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

4456 Via St. Ambrose • Claremont • Ca • 91711 909.625.6262 fax 909.399.3180 www.pacificsurveys.com

PACIFIC SURVEYS

STATIC SPINNER
UP & DOWN RUNS
NON-PUMPING CONDITION

Job No. 23530

File No.

Company CITY OF BANKS

Well WELL 2

Field BANKS

County WASHINGTON State OR

Location:

41700 NW BANKS RD.
GPS: 45.6214 -123.1066

Sec. Twp. Rge.

Other Services:

VIDEO CALIPER
DYNAMINC SPINNER
STOP COUNTS
SPINNER ANALYSIS

Permanent Datum	T.O.C.	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Log Measured From	T.O.C.		
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
Pumping Water Level	NOT MEASURED
Max. Recorded Temp.	N/A
Pump Rate (GPM)	N/A
Time Well Ready	0800
Time Logger on Bottom	1200
Equipment Number	PS-7
Location	SAC
Recorded By	SCHUMACHER
Witnessed By	R. DOUGHERTY

Received
APR 29 2024
OWRD

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				

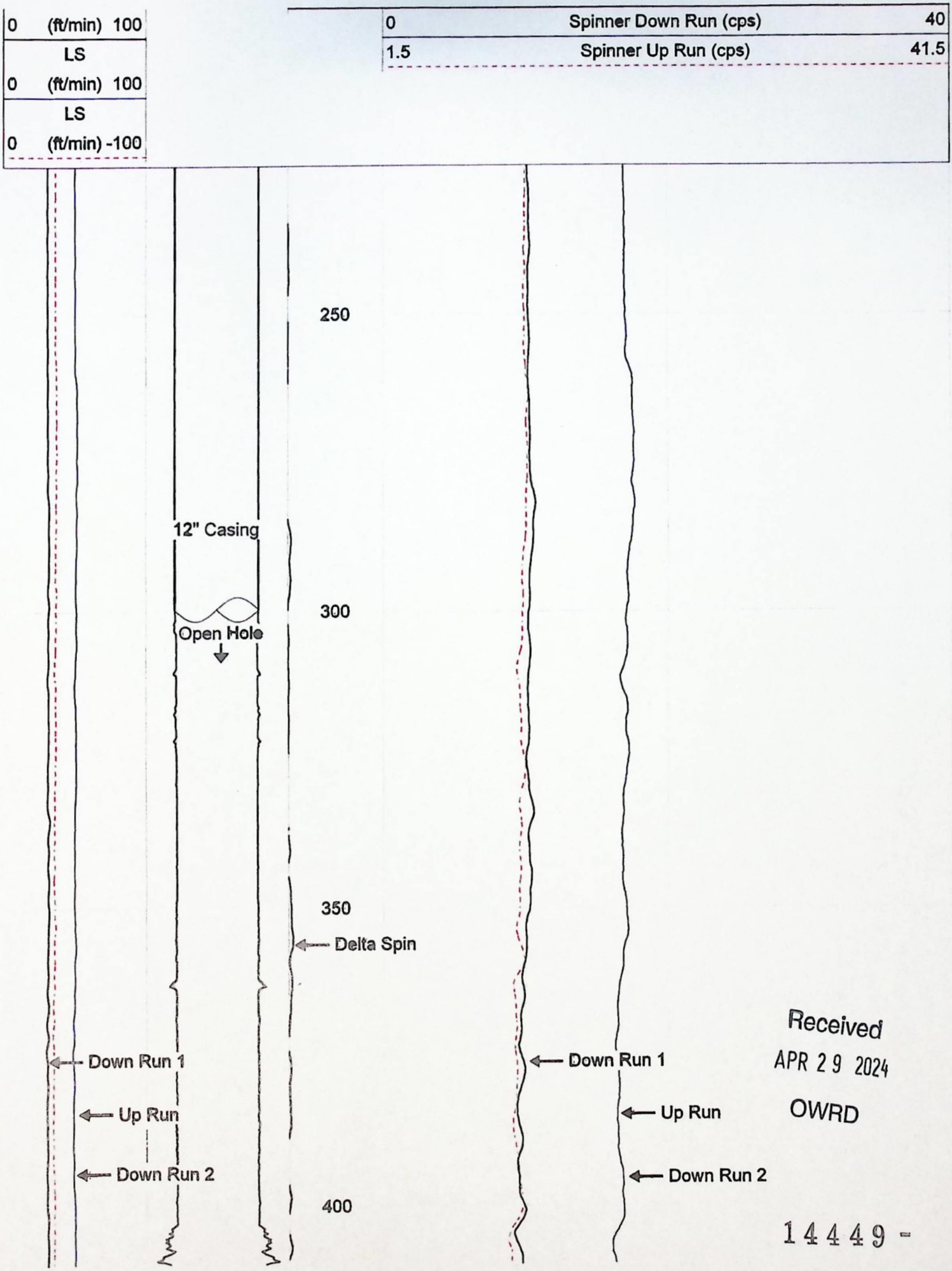
14449 -

<<< Fold Here >>>

Comments

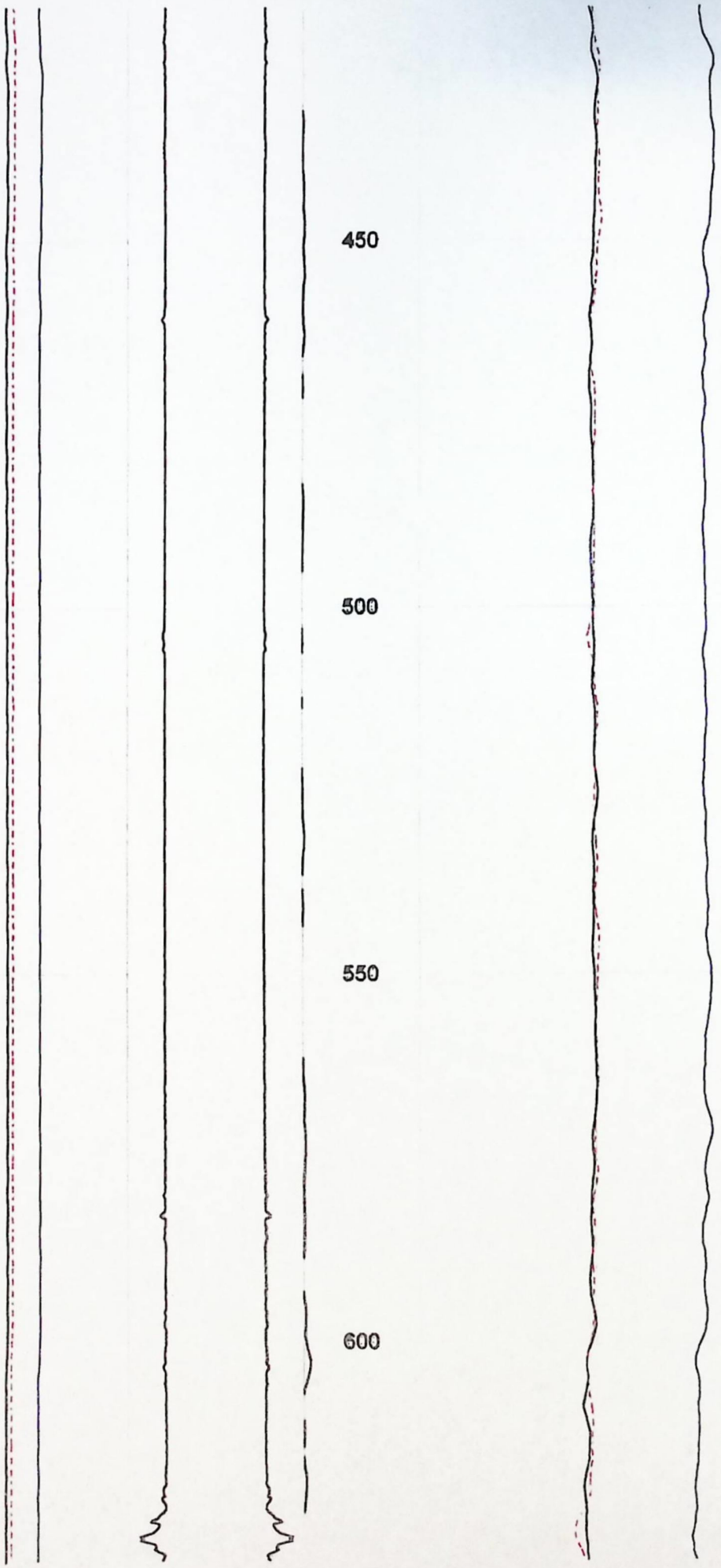
FULL BORE
12" OPEN HOLE BELOW 300'

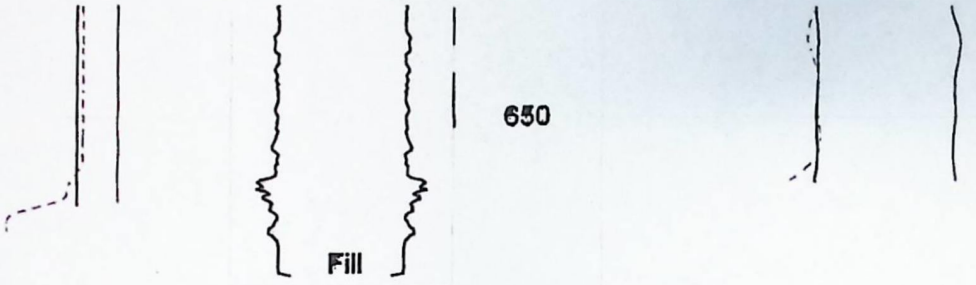
Database File 23530.db
Dataset Pathname statD1
Presentation Format spinmerg
Dataset Creation Fri Jan 12 10:11:44 2018
Charted by Depth in Feet scaled 1:240



Received
APR 29 2024
OWRD

14449 -





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

The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

WATER WELL REPORT
STATE OF OREGON
(Please type or print)

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

WASH 7651

State Well No. 2N/3W-31

State Permit No.

(1) OWNER:
WATER RESOURCES DEPT. SALEM, OREGON

Name City of Banks

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

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☒
Irrigation ☐ Test Well ☐ Other ☐

(5) 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

(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? AMJannson

Yield: 275 gal./min. with 224 ft. drawdown after 48 hrs.

150 " 146 " "

" " " "

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

Artesian flow g.p.m.

Temperature of water 58° Depth artesian flow encountered ft.

Received
APR 29 2024
OWRD

(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

¼ ¼ 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 84 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] (Drilling Machine Operator) Date 8/29/77, 19

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. Jannsen Drilling Co. (Person, firm or corporation) (Type or print)

Address 21075 SW Tualatin Valley Hwy. Aloha, Oreg

[Signed] Edward M Jannsen (Water Well Contractor)

Contractor's License No. 79 Date 8/29/77, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

14449 -

SP*45656-119

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
SEP - 6 1977
WATER RESOURCES DEPT.
SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON

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

State Well No. 2N/3W-31

State Permit No.

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 12.

(3) TYPE OF WELL:

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

(4) PROPOSED USE (check):

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

(5) CASING INSTALLED:

Threaded ☐ Welded ☐

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

¼ ¼ Section T. R. W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found _____ ft.

Static level _____ ft. below land surface. Date

Artesian pressure _____ lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing _____

Depth drilled _____ ft. Depth of completed well _____ ft.

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

MATERIAL	From	To	SWL
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	

Received
APR 29 2024
OWRD

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____

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

14449 -

Pacific Surveys, LLC
A full service geophysical well logging company

Ryan Dougherty
Summit Water Resources, LLC

December 14, 2022

RE: Static Spinner

On November 30th, 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

4456 Via St. Ambrose • Claremont • Ca • 91711 909.625.6262 fax 909.399.3180 www.pacificsurveys.com

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

Sec. Twp. Rge.

Other Services:

CALIPER

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

Date	11-30-2022		
Run Number	ONE		
Depth Driller	640'		
Depth Logger	641'	Received	
Bottom Logged Interval	620'		
Top Log Interval	0'	APR 29 2024	
Static Water Level	~25'		
Depth Of Pump Bowls	N/A		
Density / Viscosity	N/A	OWRD	
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				
Prot. String				
Production String	10.25" ID	0.25" WALL	0'	315.1'
Liner				

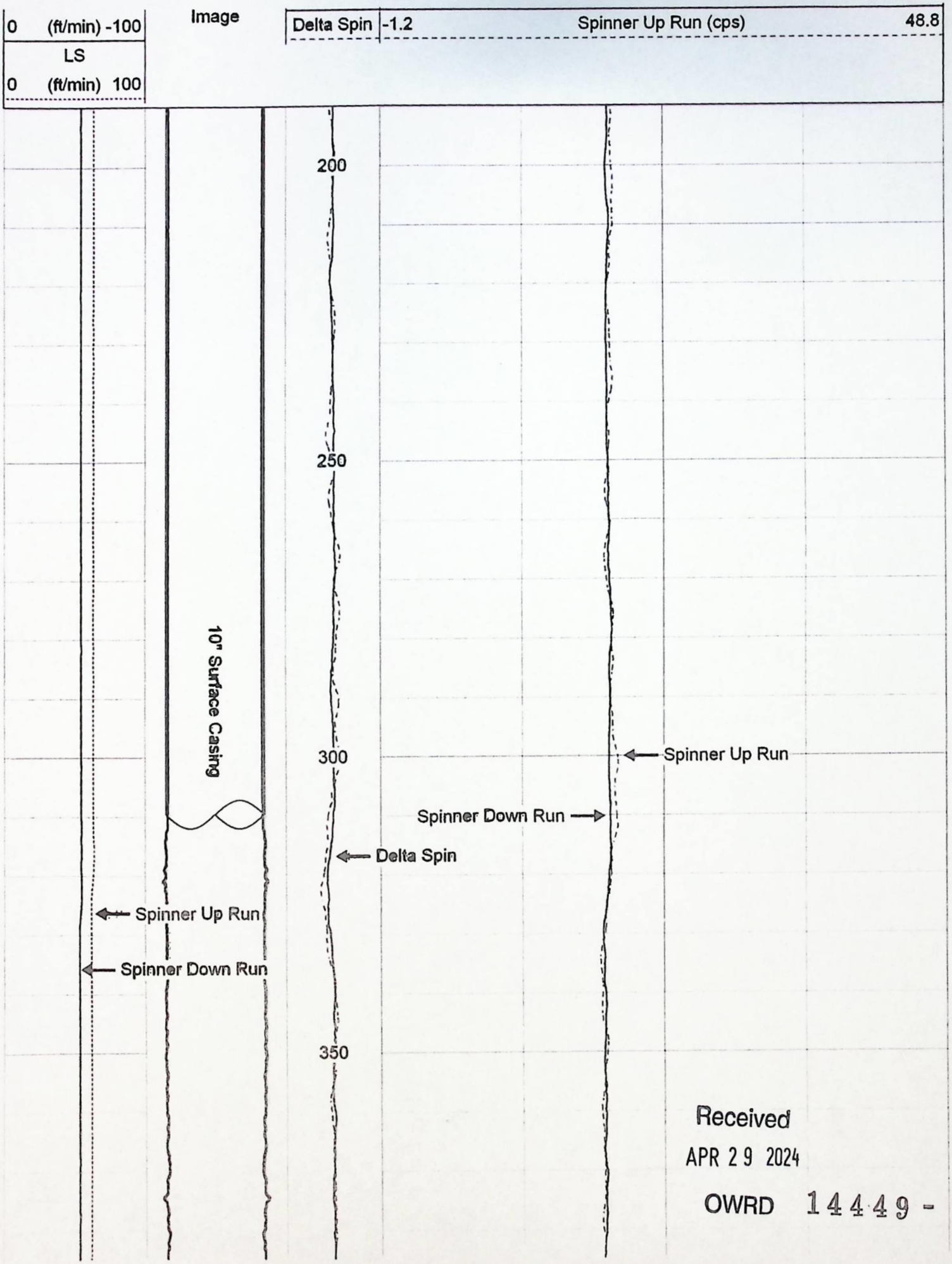
14449 -

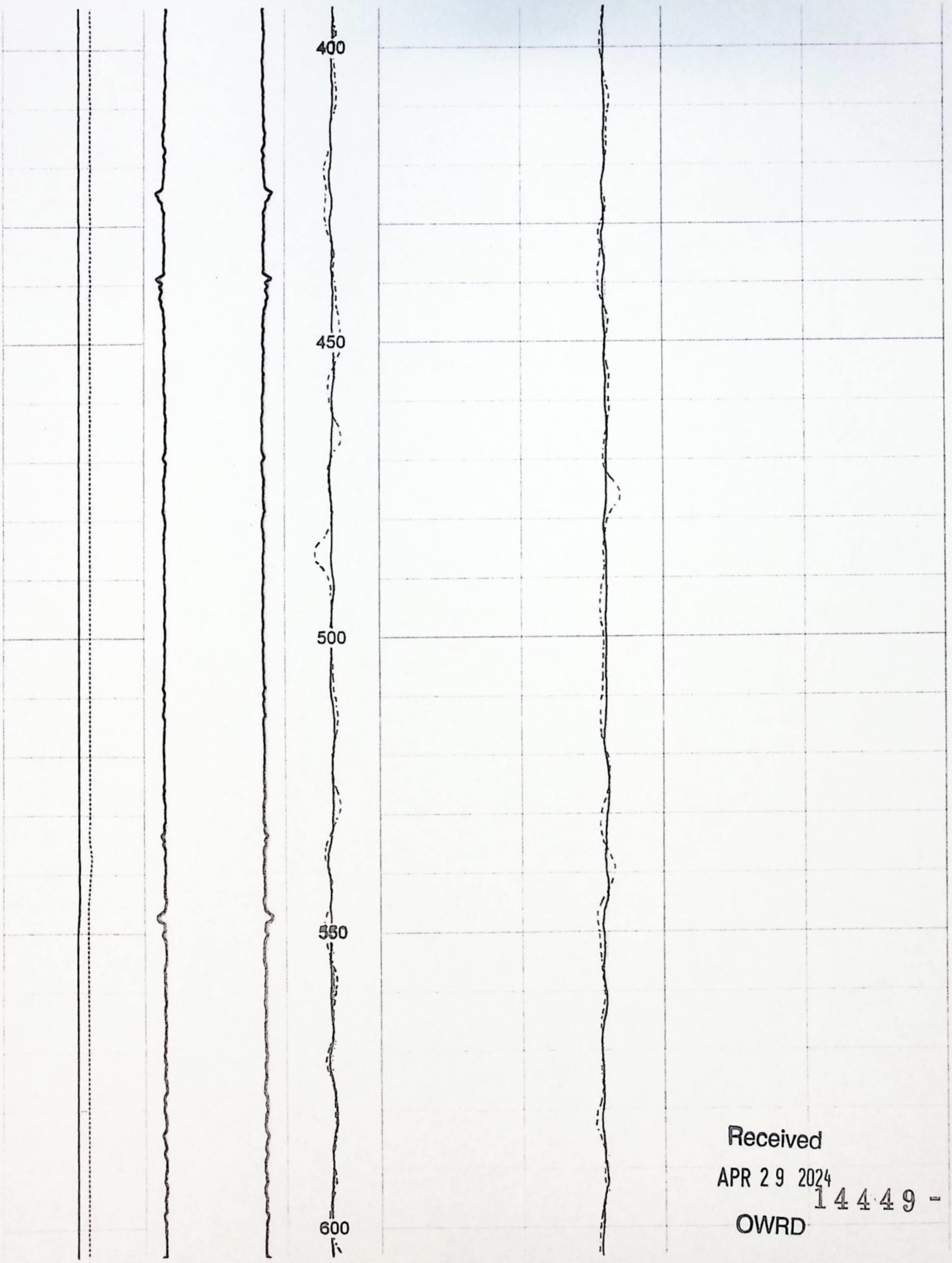
<<< Fold Here >>>

Comments

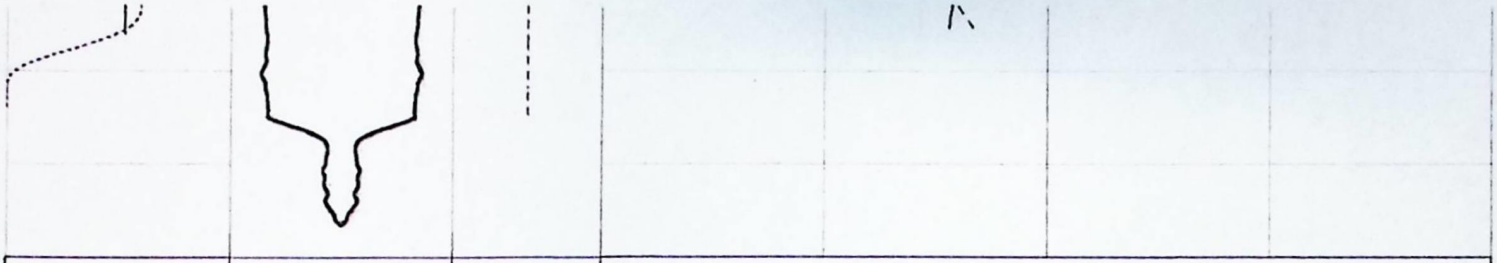
OPEN HOLE FROM 315.1 FT TO APPROX. 645 FT.

Database File 30460.db
Dataset Pathname spn_d4
Presentation Format spinmerg
Dataset Creation Wed Nov 30 11:05:14 2022
Charted by Depth in Feet scaled 1:240





14449 -



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

EXHIBIT B
AREA BASALT WELLS

Received
APR 29 2024
14449 - OWRD

RECEIVED WASH 62373 **CITY WELL-2**

JUN 02 2005

WATER RESOURCES DEPT
SALEM, OREGON

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

WELL I.D. # L 75346

START CARD # 173577

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

(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 Diameter	From	To	SEAL 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	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

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

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

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

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

Yield gal/min	Drawdown	Drill stem at	Time
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 basalthrd	206	231	
Gry-brn basalt w/ interbeds.	231	251	
Gry-gry blk basalt hrd	251	313	
Brn basalt interbed	313	325	

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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

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WASH 50693

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MAY 28 1996
WATER RESOURCES DEPT.
SALEM OREGON

QV WELL

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

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

(START CARD) # 86703

(1) OWNER: Well Number
Name QUAIL VALLEY GOLF COURSE
Address 12565 NW AERTS RD.
City BANKS State OR Zip 97106

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

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

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

(5) BORE HOLE CONSTRUCTION:
Special Construction approval [ ] Yes [X] No Depth of Completed Well 640 ft.
Explosives used [ ] Yes [X] No Type Amount

HOLE Diameter	From	To	SEAL 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 [X] B [X] 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
Casing:	10"	+1	312	.250	X		X	
Liner:								

Final location of shoe(s)

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

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

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

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

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? [X] 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 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:
Ground Elevation

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.	515	575	18
broken green mineral stain			"
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
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 & 573
Signed Date 05/22/96

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Contn. Page 2

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JUN 02 2005

WATER RESOURCES DEPT
SALEM, OREGON

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

WELL I.D. # L 75346

START CARD # 173577

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

(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 Diameter	From	To	SEAL Material	From	To	Sacks or Pounds

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

(6) CASING/LINER

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

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

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

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

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

Yield gal/min	Drawdown	Drill stem at	Time

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, fracs, 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 fracs.	468	615	
Blk basalt interbed, occ claystone occ lava streaks.	615	660	48
Blk/gry-blk basalt, fracs.	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

(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

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STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

WASH 7691

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SEP 29 1989

WATER RESOURCES DEPT.
SALEM, OREGON

(START CARD) # 13022

2N/3W/36C

pg. 1

(1) OWNER:

Well Number: WATER

Name: Pumpkin Ridge Development, Inc.

Address: One Southwest Columbia, Suite 1010

City: Portland State: OR Zip: 97258

(2) TYPE OF WORK:

[X] New Well [ ] Deepen [ ] Recondition [ ] Abandon

(3) DRILL METHOD

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

[ ] Other

(4) PROPOSED USE:

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

[ ] Thermal [ ] Injection [ ] Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval: Yes [ ] No [X] Depth of Completed Well: 583 ft.

Explosives used: Yes [ ] No [X] Type: Amount:

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
17½	0	65	Cement	0	65	50 sacks
17½	65	200	Drill gel	65	200	
17½	200	224	Cement	200	224	25 sacks
14-3/4	224	232	Cement	224	232	" "

How was seal placed: Method [ ] A [ ] B [X] C [X] 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	232	.250	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
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
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

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APR 29 2024

OWRD

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

[X] 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:

(9) LOCATION OF WELL by legal description:

County: Washington Latitude ' " Longitude ' "

Township 2 N N or S, Range 3 W E or W, WM.

Section 36 SE ¼ SW ¼

Tax Lot Lot Block Subdivision

Street Address of Well (or nearest address)

(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.

WWC Number

Signed Date

(bonded) Water Well Constructor Certification:

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

WWC Number 1266

Signed Date 9/27/89

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STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

RECEIVED Ridge 1N/3W/36CC

SEP 29 1989 Development

(START CARD) # 13022 pg 2

(1) OWNER:

Well Number: WATER RESOURCES DEPT SALEM, OREGON

Name

Address

City State Zip

(2) TYPE OF WORK:

☐ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD

☐ Rotary Air ☐ Rotary Mud ☐ Cable

☐ Other

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☐ Irrigation

☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

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

Explosives used Yes ☐ No ☐ Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
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:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

☐ Perforations Method

☐ Screens Type Material

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

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

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

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

Temperature of water Depth Artesian Flow Found

Was a water analysis done? ☐ Yes By whom

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

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County Latitude Longitude

Township N or S, Range E or W, WM.

Section ¼ ¼

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	4(
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 be knowledge and belief.

WWC Number

Signed Date

(bonded) Water Well Constructor Certification:

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

WWC Number

Signed Date

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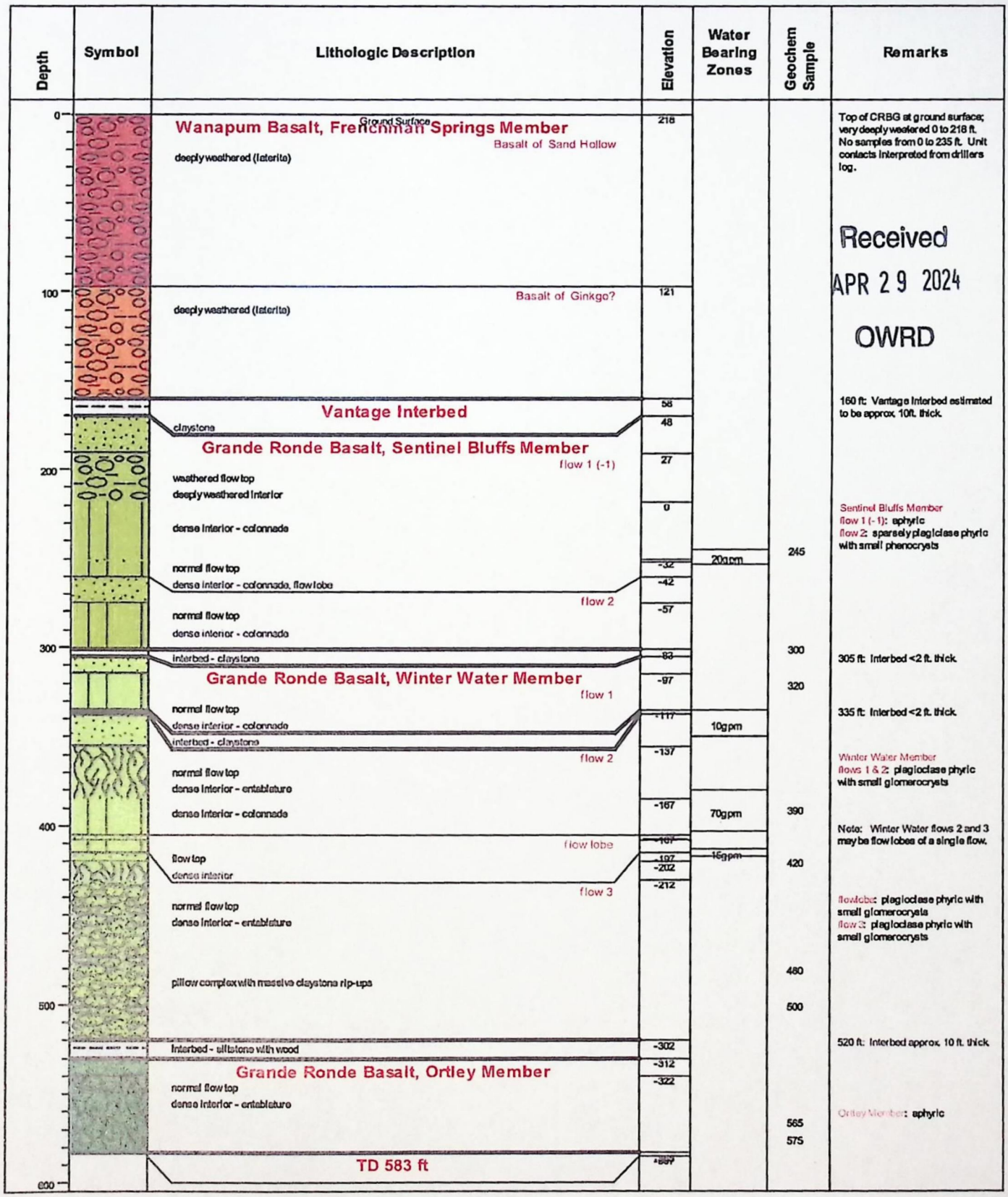
14449 -

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



Top of CRBG at ground surface; very deeply weatered 0 to 218 ft. No samples from 0 to 235 ft. Unit contacts interpreted from drillers log.

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

JUN 10 1987 RECEIVED WATER SUPPLY 013531 24/3W-21dd

WATER RESOURCES DEPT JUL 09 1987 SALEM, OREGON

Well Number

(1) OWNER:
Name Harry Lazott
Address RT 20 Box
City Banks State OR Zip 97106

(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 Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
10	0	100	Cement	0	100	18 sacks
6"	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	1/4	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	4	10	500	160 PVC	☐	☑	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) Drive 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			☐	☑
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(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:

(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 ¼ SE ¼
Tax Lot Lot Block Subdivision
Street Address of Well (or nearest address) Hahn rd.

(10) STATIC WATER LEVEL:
250 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
Brn soil	0	2	
Red clay	2	40	
Tan clay	40	90	
Brn clay	90	140	
Brn clay - Broken rock	140	300	
Black Gravel - W.B.	300	320	250
Brn clay - Layers rock	320	440	
Black Gravel W.B.	440	490	250
Brn clay	490	500	250

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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.
WWC Number
Signed Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.
WWC Number 711
Signed Joseph Trussell Date 5-21-87

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WASH 54161

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NOV 27 1998

WATER RESOURCES DEPT.
SALEM, OREGON

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

WELL I.D. # L 27709

START CARD # 118198

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

(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 Diameter	From	To	SEAL 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:					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	4½	0	455	200	☐	☒	☒	☐
					☐	☐	☐	☐

Final location of shoe(s) 4½x6 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			☐	☒
						☐	☐
						☐	☐
						☐	☐
						☐	☐

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

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

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	0	210	62
open hole			
Red minerals sludge & rock fragements	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

ORIGINAL – WATER RESOURCES DEPARTMENT FIRST COPY – CONSTRUCTOR SECOND COPY – CUSTOMER

14449 -

WASH 55819

APR - 5 2000

WATER RESOURCES DEPT.
SALEM, OREGON

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

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

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

(1) OWNER: Well Number

Name CROPP FARMS
Address 31345 NW NORTH AVE.
City NORTH PLAINS State OR Zip 97133

(2) TYPE OF WORK

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

(3) DRILL METHOD:

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

(4) PROPOSED USE:

[X] Domestic [ ] Community [ ] Industrial [ ] Irrigation
[ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [X] No Depth of Completed Well 420 ft.
Explosives used [ ] Yes [X] No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
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 [X] C [X] 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	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
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
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

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

[ ] Pump [ ] Bailer [X] Air [ ] Flowing 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? [X] Yes By whom AMJ
Did any strata contain water not suitable for intended use? [ ] Too little
[ ] Salty [X] Muddy [ ] Odor [X] 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

ORIGINAL – WATER RESOURCES DEPARTMENT FIRST COPY – CONSTRUCTOR SECOND COPY – CUSTOMER

14449 -

STATE OF OREGON
WATER SUPPLY WELL REPORT
(ORS 537.765 & OAR 690-205-0210)
Instructions for completing this report are on the last page of this form.

WASH 71480

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

(1) LANDOWNER Owner Well I.D.
First Name Brady + Darci Last Name Wilson
Company
Address 1815 NW 143rd 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 Dia	From	To	SEAL Material	From	To	Amount	Sacks/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

Csng	Linr	Dia	+	From	To	Gauge	Steel	Plastic	Welded	Thrd
X		6"	+	1½	133½	250	X		X	
	X	4½		6	486			X		

Shoe ☐ Inside ☒ Outside ☐ Other Location of shoe(s) 133½
Temporary casing ☐ Yes Diameter From To

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

Perf	Scrn	Csng	Linr	Screen Dia	From	To	Screen/ slot width	Slot length	# of slots	Tele/ pipe size
X			X		446	486	.38		100	4½

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

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
60	200		1½ 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 N or 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	1-29-13			232

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)
1-29-13	350	365	10			232
1-29-13	415	430	15			232
1-29-13	472	486	35			232

(11) WELL LOG Ground Elevation

Material	From	To
brown soil	0	2
brown clay	2	5
red brown sandstone	5	12
red clay	12	48
brown clay	48	69
red clay	69	87
brown sandstone	87	98
grey rock	98	384
grey rock w/clay + wood	384	411
grey rock	411	460
grey rock w/clay + wood	460	471
grey rock	471	486

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.

SALEM, OR
MAR 06 2013

License Number Date
RECEIVED BY OWRD
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.

License Number 1430 Date 2-16-13
Signed Jeff Halbrook
Contact Info. (optional)

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APR 29 2024
OWRD

ORIGINAL – WATER RESOURCES DEPARTMENT ONE COPY FOR CONSTRUCTOR ONE COPY FOR CUSTOMER
SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK 01/02/2009

14449 -

WASH 72830

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

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

(3) DRILL METHOD

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

(4) PROPOSED USE

[X] Domestic [ ] Irrigation [ ] Community
[ ] Industrial/ Commericial [ ] Livestock [ ] Dewatering
[ ] Thermal [ ] Injection [ ] Other

(5) BORE HOLE CONSTRUCTION

Special Standard [ ] Attach copy
Depth of Completed Well 515 ft.

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs
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 [X] B [ ] C [ ] D [ ] E
[X] 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
◉		6	X	2	428	250	◉		X	

Shoe [ ] Inside [ ] Outside [ ] Other Location of shoe(s)
Temp casing [ ] Yes Dia From To

(7) PERFORATIONS/SCREENS

Perforations Method
Screens Type Material

Perf/Screen	Casing/ Liner	Screen Dia	From	To	Screen/Slot width	Slot length	# of slots	Tele/ 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	Units

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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

	Date	SWL (psi)	+	SWL (ft)
Existing Well / Predeepening				
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 Mee Bigby

(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)

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APR 29 2024

ORIGINAL - WATER RESOURCES DEPARTMENT
THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK
SALEM, OR

Form Version: OWRD

14449 -

STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

Was. Y. 141

SEP 24 1990

WATER RESOURCES DEPT.
SALEM, OREGON

2N/3W/29 ba

(START CARD) # 20118

(1) OWNER: Well Number:

Name James & Chantal Faraudo

Address 808 S.W. 175th Pl.

City Beaverton State OR Zip 97006

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

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	179	250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	4	5	455		☐	☑	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) none

(7) PERFORATIONS/SCREENS:

☑ Perforations Method DRILL

☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
435	455		40	5?8		☐	☑
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

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

☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
5		440	1 hr.

Temperature of water Depth Artesian Flow Found

Was a water analysis done? ☐ Yes By whom

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

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County Wash Latitude Longitude

Township 2N N or S. Range 3W E or W. WM.

Section 29 NE ¼ NW ¼

Tax Lot 510 Lot Block Subdivision

Street Address of Well (or nearest address) Walker Road, Banks, OR.

(10) STATIC WATER LEVEL:

305 ft. below land surface. Date 9-19-9

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	
Brn Clay	26	150	
Weathered Rock	150	165	
Med Grey Rock	165	205	
Seamy Grey Rock	205	240	
Brn Rock	240	288	
Grey Rock	288	295	
Brn Rock	295	334	
Dark Grey Rock	334	346	
Grey Rock	346	374	
Black Por Rock	374	383	30
Grey Rock	383	393	
Black Rock	393	397	30
Brn Clay	397	402	
Blue Clay	402	406	
Brn/Grey Clay	406	418	
Dark Grey Sandstone	418	446	
Dark Grey Clay	446	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 b knowledge and belief.

WWC Number

Signed Date

(bonded) Water Well Constructor Certification:

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

WWC Number 715

Signed Don Feahir Date 9-20-90

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C1

14449 -

STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

WATER RESOURCES DEPT. SALEM, OREGON

WASH 0002

1N/3W/1C

(START CARD) # 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 Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
10	0	359	Cement + 5% Bent	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:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	+1	359	250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	none				☐	☐	☐	☐
					☐	☐	☐	☐

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
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

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

☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
180		350	1 hr.
90		180	½ hr.

Temperature of water ____ Depth Artesian Flow Found ____

Was a water analysis done? ☐ Yes By whom ____

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

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ____

Depth of strata: ____

(9) LOCATION OF WELL by legal description:

County Wash Latitude ____ Longitude ____

Township 1N N or S, Range 3W E or W, WM.

Section 1 ¼ SW ¼

Tax Lot ____ Lot ____ Block ____ Subdivision ____

Street Address of Well (or nearest address) 7408 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	SWL
367	380	180	95

(12) WELL LOG: Ground elevation ____

Material	From	To	SWL
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 Seamy ROCK	329	344	
Med Grey ROCK	344	367	
BRN Porous ROCK	367	380	95

Received APR 29 2024 OWRD

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 constructi standards. Materials used and information reported above are true to my b knowledge and belief.

WWC Number ____

Signed ____ Date ____

(bonded) Water Well Constructor Certification:

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

WWC Number 215

Signed Don Feakes Date 3-30-90

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C 3.

14449 -

#18

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

(Wash 199)

1N/3W/1 CC

(START CARD) # 18727

(1) OWNER: Well Number:
Name Forest Products Oregon Canadien Inc
Address
City North Plains State Ore 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 500 ft.
Explosives used Yes ☐ No ☐ Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
8	380	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: Existing well					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:
☐ Perforations Method
☐ Screens Type Material

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

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

Yield gal/min	Drawdown	Drill stem at	Time
500+	Full	500	1 hr.
250	Full	200	
120	Full	150	

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 ¼ SW ¼
Tax Lot Lot Block Subdivision
Street Address of Well (or nearest address) 7408 West Commercial - North Plains Ore

(10) STATIC WATER LEVEL:
95 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

From	To	Estimated Flow Rate	SWL
Existing well		150 ±	95
413	434	150 ±	95
475	500	150 ±	95

(12) WELL LOG: Ground elevation 200 ±

Material	From	To	SWL
Existing well 380 Deep			
Broken Brown Basalt	380	413	
Dark gray Basalt Broken	413	434	
Blue Basalt with holes	434	475	
Brown Basalt Broken w/holes	475	500	

RECEIVED
DEC 17 1990
WATER RESOURCES DEPT.
SALEM, 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 constructi standards. Materials used and information reported above are true to my b knowledge and belief.

WWC Number
Signed Date

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

WWC Number 128
Signed Gale L. Abernathy Date June 19 9

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C 3

14449 -

CwM-H2O
Complete Water Management

April 17, 2024

Oregon Water Resources Department
Attn: *Water Rights Services Division*
725 Summer St. NE Ste A
Salem, Oregon 97301

RE: CITY OF BANKS – PERMIT AMENDMENT APPLICATION FOR PERMIT G-7593

Dear OWRD Staff,

Please find accompanying this letter an Application for Permit Amendment for the City of Banks (City) groundwater Permit G-7593. The City currently has one point of appropriation (POA) on this right, City Well-1 (WASH-7651). The City is proposing to add multiple potential well locations distributed throughout the City with the intent of eventually developing viable wells at between one and three of these locations. This amendment also adds the City's other well, Well-2 (WASH-62373), as a POA on the Well-1 permit. No change the place of use or character of use is proposed.

This amendment is proposed to meet two goals. The City's utilization of Well-1 is limited due to the well's close proximity to Well-2, the City's primary groundwater source. Operations of Well-2 result in interference at Well-1 and, for this reason, Well-1 is operated only infrequently. By adding Well-2 and additional locations to the permit, the City will be able to remove the interference limitation as an operation factor and develop a greater portion of the permitted rate. Distributing the production under Permit G-7593 between two or three wells will also reduce localized drawdown effects on the basalt aquifer due to pumping during peak-demand season.

The City previously submitted a permit amendment in 2005 (T-10055) to add Well-2 as a POA under G-7593. Based on the Oregon Water Resource Department's (OWRD) review of T-10055 and various discussions between the OWRD and the City between 2008 and 2015, it was determined that such a transfer was not possible. The reasoning was that there was not sufficient evidence to show that the two basalt water-bearing zones tapped by the two wells (upper and lower zones) were a single aquifer (based on information from OWRD staff Marc Norton, Karl Wozniak, Michael Thoma, and Kris Byrd). An administrative hold was placed on T-10055 in September 2015. It has been the City's intent to withdraw T-10055, although this has not been completed to date.

The City would now like to request that T-10055 be withdrawn, as more recent groundwater data has elucidated the details aquifer question. Spinner log analyses from Well-2 and the nearby Quail Valley irrigation well, along with static groundwater elevation data from the winter and spring seasons, have demonstrated that the upper and lower water-bearing zones do behave as a single aquifer in the Banks area, as discussed in Attachment 6 – Basalt Aquifer Memo. For this reason, the City again proposes to add POAs to the Well-1 permit, including Well-2, to allow the City to develop its permitting rate under G-7593. As of 2021, the previous development limitation on G-7593 has been removed (WMCP FO, 2021), allowing the City to develop the full 0.67 cfs.

Some of the proposed well locations are not on City-owned property. One of the proposed POAs (WTP) is located on a lot that the City is currently in negotiations to purchase. The other proposed

311 B Avenue, Suite P, Lake Oswego, OR 97034
Complete Water Management | CwMH2O.com

POAs are on developer-owned lands. The City has obtained agreements with the landowners for access to drill, construct, develop, and operate municipal wells at the proposed locations. Landowner consent forms are included in this application package (Attachment 2).

The Permit Amendment application is accompanied by a variety of supplemental forms and attachments:

- Reimbursement Authority (RA) Request for Expedited Review
- Attachment 1 – Transfer Map
- Attachment 2 – Landowner Consent Forms
- Attachment 3 – Land Use Information Form
- Attachment 4 – Well-1 Well Log
- Attachment 5 – Well-2 Well Log
- Attachment 6 – Basalt Aquifer Memo
- A check from the City for the RA fee of $125
- A check from the City for the transfer application fee of $4,300

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

Received
APR 29 2024
OWRD

311 B Avenue, Suite P, Lake Oswego, OR 97034
Complete Water Management CwMH2O.com

14449

Permanent Transfer Application Checklist

Check the Certificates in WRIS

Transfer # T-14449

Checked by __Dante_____ **Date** ___5/2/2024_____	**Type of Change(s) Proposed:** **NO other changes allowed other than those listed**	
Fee Received: **$4300**	☐ POU ☐ POD ☐ APOD ☐ POA ☒ APOA ☐ USE	
Calculated Fee: **$4300**		***How many rights to be Transferred?*** ***1***
Deficiencies and Observations:		***Certificate #(s)*** ***Permit G-7593***

If **OK, check box; if not, fill in.**

☒ **1.** Is the applicant information complete? Have all the applicants listed at the top of the page signed at the bottom?
If not, what is missing? Whose signature is missing? _____

☒ **2.** Has the applicant indicated that the place of use is in or near an irrigation district? Have they included a Form D? ☒ N/A.
Name of the District _____

☒ **3.** Part 5 of application, has the applicant completed the entire page and does the information match the description of the explanation of the reasons on Part 4 of the application?
If not, you may need to contact the applicant or agent? _____

☒ **4.** For multiple certificates, do each of the certificates listed on Application Page 1 have their own separate completed Part 5 tables 1 & 2? *(compare with OAR 690-380-3220-may need to return)*
If no, which certificates are missing a separate Part 5, tables 1 & 2? _____

☒ **5.** Has the map been completed and signed by a CWRE? Does the map meet the requirements?
If not, what is missing? _____. Map waiver included? ☐

☒ **6.** If a change in point of appropriation, have the well logs been included? ☐ N/A.

☒ **7.** If a change in place of use within Umatilla County, have the applicant(s) provided a Supplemental Form U? ☒ N/A.

☒ **8.** Has applicant filled out the Minimum Requirements Checklist (Part 1 of 5)? Is the application complete? If not, what is missing (check Evidence of Use and Land Use)?_____
_____

☒ **9.** If all boxes on this checklist are checked (with no remaining deficiencies identified), accept the application. Put this check sheet in the transfer folder.

OR:

☐ This application is deficient, and **CANNOT** be accepted.
It should be returned and the **deficiencies listed in the "staff" section at the bottom of Application Page 1**, unless the applicant or agent can resolve the deficiencies within 2-3 days.

Actions taken:

_____date_____

Revised 12/2022.krf

14449 -

STATE OF OREGON
WATER RESOURCES DEPARTMENT

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

RECEIPT # 142944 INVOICE # _____

RECEIVED FROM: City of Bend
BY: _____

APPLICATION	
PERMIT	
TRANSFER	T-14449

CASH: ☐ CHECK:# ☒ 26997 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D $ 2,127.06

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES	47124 R-11498-25	$
0412	OTHER:	(IDENTIFY) Transfer R.A.	$ 2,127.06

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

4270 WRD OPERATING ACCT

	MISCELLANEOUS				
0407	COPY & TAPE FEES				$
0410	RESEARCH FEES				$
0408	MISC REVENUE: (IDENTIFY)	_____			$
TC162	DEPOSIT LIAB. (IDENTIFY)	_____			$
0240	EXTENSION OF TIME				$
	WATER RIGHTS:	**EXAM FEE**		**RECORD FEE**	
0201	SURFACE WATER	$	0202	$	
0203	GROUND WATER	$	0204	$	
0205	TRANSFER	$			
	WELL CONSTRUCTION	**EXAM FEE**		**LICENSE FEE**	
0218	WELL DRILL CONSTRUCTOR	$	0219	$	
	LANDOWNER'S PERMIT		0220	$	

_____ OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

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

_____ OTHER (IDENTIFY) _____

0607 TREASURY 0467 HYDRO ACTIVITY

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

_____ TREASURY OTHER / RDX

FUND _____ TITLE _____
OBJ. CODE _____ VENDOR # _____
DESCRIPTION _____ $

RECEIPT: 142944 DATED: 5/17/24 BY: _____

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

CITY OF BANKS

26997

Oregon Water Resource Dept

5/14/2024

Date	Type	Reference	Original Amt.	Balance Due	Discount	Payment
5/14/2024	Bill		2,127.06	2,127.06		2,127.06
					Check Amount	2,127.06

Received
MAY 17 2024
OWRD

Checking

Application Number: T-14449

2,127.06

STATE OF OREGON

WATER RESOURCES DEPARTMENT

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

RECEIPT # 142817

INVOICE # _____

RECEIVED FROM: City of Brooks

BY: _____

APPLICATION	
PERMIT	
TRANSFER	T-14449

CASH: ☐ CHECK:# ☒ 26905 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D	$125.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES 47124 R11499.29		$
0412	OTHER: (IDENTIFY) Transfer R.A		$125.00

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

4270 WRD OPERATING ACCT

MISCELLANEOUS

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

WATER RIGHTS:

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

WELL CONSTRUCTION

		EXAM FEE		LICENSE FEE
0218	WELL DRILL CONSTRUCTOR	$	0219	$
	LANDOWNER'S PERMIT		0220	$

_____ OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

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

_____ OTHER (IDENTIFY) _____

0607 TREASURY 0467 HYDRO ACTIVITY

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

_____ TREASURY OTHER / RDX

FUND _____ TITLE _____

OBJ. CODE _____ VENDOR # _____

DESCRIPTION _____ $ _____

RECEIPT: 142817 DATED: 4-29-2024 BY: [signature]

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

CITY OF BANKS

26905

Oregon Water Resource Dept

4/10/2024

Date	Type	Reference	Original Amt.	Balance Due	Discount	Payment
4/10/2024	Bill		125.00	125.00		125.00
					Check Amount	125.00

Well #2 - For RA Application

Received

APR 29 2024

OWRD

Checking 125.00

STATE OF OREGON

WATER RESOURCES DEPARTMENT

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

RECEIPT # 142827

INVOICE # _____

RECEIVED FROM: City of Bandon

BY: _____

APPLICATION	
PERMIT	
TRANSFER	T-14149

CASH: ☐ CHECK:# ☒ 26933 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D $ 4,300.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES		$
_____	OTHER:	(IDENTIFY) _____	$

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

4270 WRD OPERATING ACCT

MISCELLANEOUS 46110

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

WATER RIGHTS:

		EXAM FEE		RECORD FEE
0201	SURFACE WATER	$	0202	$
0203	GROUND WATER	$	0204	$
0205	TRANSFER	$ 4,300.00		

WELL CONSTRUCTION

		EXAM FEE		LICENSE FEE
0218	WELL DRILL CONSTRUCTOR	$	0219	$
	LANDOWNER'S PERMIT		0220	$

_____ OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

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

_____ OTHER (IDENTIFY) _____

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

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

_____ TREASURY OTHER / RDX

FUND _____ TITLE _____

OBJ. CODE _____ VENDOR # _____

DESCRIPTION _____ $

RECEIPT: 142827 DATED: 4-29-2024 BY: _____

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

CITY OF BANKS

26933

Oregon Water Resource Dept

4/22/2024

Date	Type	Reference	Original Amt.	Balance Due	Discount	Payment
4/22/2024	Bill		4,300.00	4,300.00		4,300.00
					Check Amount	4,300.00

Received
APR 29 2024
OWRD

Checking 4,300.00