

Application for Permanent Water Right Transfer

Part 1 of 5 – Minimum Requirements Checklist



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

This transfer application will be returned if Parts 1 through 5 and all required attachments are not completed and included.
For questions, please call (503) 986-0900, and ask for Transfer Section.

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

- Part 1 – Completed Minimum Requirements Checklist.
- Part 2 – Completed Transfer Application Map Checklist.
- Part 3 – Application Fee, payable by check to the Oregon Water Resources Department, and completed Fee Worksheet, page 3. Try the new online fee calculator at: http://apps.wrd.state.or.us/apps/misc/wrd_fee_calculator. If you have questions, call Customer Service at (503) 986-0801.
- Part 4 – Completed Applicant Information and Signature.
- Part 5 – Information about Water Rights to be Transferred: **How many water rights are to be transferred? 1 List them here: 90019 (Attachment A)**
Please include a separate Part 5 for each water right. (See instructions on page 6)

Attachments:

- Completed Transfer Application Map. [\(Attachment B\)](#)
- Completed Evidence of Use Affidavit and supporting documentation. [\(Attachment C\)](#)
- N/A Affidavit(s) of Consent from Landowner(s) (if the applicant does not own the land the water right is on.)
- N/A Supplemental Form D – For water rights served by or issued in the name of an irrigation district. Complete when the transfer applicant is not the irrigation district.
- N/A Oregon Water Resources Department’s Land Use Information Form with approval and signature (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. [\(Attachment D\)](#)
- N/A Water Well Report/Well Log for changes in point(s) of appropriation (well(s)) or additional point(s) of appropriation. [\(Attachment E\)](#)
- N/A Geologist Report for a change from a surface water point of diversion to a ground water point of appropriation (well), if the proposed well is more than 500’ from the surface water source and more than 1000’ upstream or downstream from the point of diversion. See OAR 690-380-2130 for requirements and applicability.

(For Staff Use Only)

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

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

Other/Explanation _____

Staff: _____ 503-986-0_____ Date: ____/____/____

Part 2 of 5 – Transfer Application Map

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

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

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

Part 4 of 5 – Applicant Information and Signature

Applicant Information

APPLICANT/BUSINESS NAME Port of Morrow, Attn: Miff Devin		PHONE NO. 541-481-7467	ADDITIONAL CONTACT NO.
ADDRESS 2 Marine Drive		FAX NO.	
CITY Boardman	STATE OR	ZIP 97818	E-MAIL MiffD@portofmorrow.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.			

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

AGENT/BUSINESS NAME GSI Water Solutions, Attn: Bruce Brody-Heine		PHONE NO. 971-200-8519	ADDITIONAL CONTACT NO.
ADDRESS 147 Shevlin Hixon Drive, Suite 201		FAX NO.	
CITY Bend	STATE OR	ZIP 97702	E-MAIL bbheine@gsiws.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.			

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Explain in your own words what you propose to accomplish with this transfer application, and why:
 The Port has 2 production wells located within the same building (Port Well 2 & Well 3). Port Well 2 is a basalt well and Port Well 3 is an alluvial well. Certificate 90019 was issued to supersede Certificate 47191 following transfer T-6965. The point of appropriation for Certificate 47191 was Port Well 2 (MORR 756), which is completed in the Umatilla Member of the Columbia River Basalt Group (CRBG). Due to an error introduced during the transfer T-6965 certification process, the point of appropriation location description on Certificate 90019 pointed to Port Well 3 (MORR 757) (inside the same building) instead of Port Well 2. This transfer corrects the point of appropriation location description and well name to be Port Well 2 (MORR 756) as originally intended, as well as adding four proposed additional points of appropriation to allow for more flexibility and efficiency in delivering water.
 If you need additional space, continue on a separate piece of paper and attach to the application as "Attachment 1".

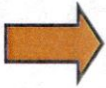
Check One Box

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

By my signature below, I confirm that I understand:

- Prior to Department approval of the transfer application, I may be required to submit payment to the Department for publication of a notice in a newspaper with general circulation in the area where the water right is located, once per week for two consecutive weeks. If more than one qualifying newspaper is available, I suggest publishing the notice in the following newspaper: Heppner Gazette-Times.
- Amendments to the application may only be made in response to the Department’s Draft Preliminary Determination (DPD). The applicant will have a period of at least 30 days to amend the application to address any issues identified by the Department in the DPD, or to withdraw the application. Note that amendments may be subject to additional fees, pursuant to ORS 536.050.
- Failure to complete an approved change in place of use and/or change in character of use, will result in loss of the water right (OAR 690-380-6010).

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



Miff Devin

Applicant signature

Miff Devin, Port of Morrow

Print Name (and Title if applicable)

10/6/20

Date

Applicant signature

Print Name (and Title if applicable)

Date

Is the applicant the sole owner of the land on which the water right, or portion thereof, proposed for transfer is located? Yes No *If NO, include signatures of all deeded landowners (and mailing and/or e-mail addresses if different than the applicant's) or attach affidavits of consent (and mailing and/or e-mail addresses) from all landowners or individuals/entities to which the water right(s) were conveyed.*

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Check the following boxes that apply:

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

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

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

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

https://www.oregon.gov/owrd/WRDFormsPDF/Transfer_Property_Transactions.pdf

RECEIVING LANDOWNER NAME N/A			PHONE NO.	ADDITIONAL CONTACT NO.
ADDRESS				FAX NO.
CITY	STATE	ZIP	E-MAIL	

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Describe any special ownership circumstances here: _____


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

IRRIGATION DISTRICT NAME N/A	ADDRESS	
CITY	STATE	ZIP

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

ENTITY NAME N/A	ADDRESS	
CITY	STATE	ZIP

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

ENTITY NAME City of Boardman	ADDRESS P.O. Box 229, 200 City Center Circle	
CITY Boardman	STATE OR	ZIP 97818

ENTITY NAME Morrow County Planning Department	ADDRESS P.O. Box 40	
CITY Irrigon	STATE OR	ZIP 97844

Part 5 of 5 – Water Right Information

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

CERTIFICATE # 90019

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Description of Water Delivery System

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System capacity: 2.0 cubic feet per second (cfs) OR
 _____ gallons per minute (gpm)

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Describe the current water delivery system or the system that was in place at some time within the last five years. Include information on the pumps, canals, pipelines, and sprinklers used to divert, convey, and apply the water at the authorized place of use. Water is pumped from the well into the Port's municipal water distribution system.

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

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

POD/POA Name or Number	Is this POD/POA Authorized on the Certificate or is it Proposed?	If POA, OWRD Well Log ID# (or Well ID Tag # L-___)	Twp		Rng		Sec	¼ ¼		Tax Lot, DLC or Gov't Lot	Measured Distances (from a recognized survey corner)
Port Well 3	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	MORR 757	4	N	25	E	10	NE	NW	Road	1073 feet South and 1348 feet East from NW corner of Section 10
Port Well 2	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	MORR 756	4	N	25	E	10	NE	NW	Road	1069 feet South and 1378 feet East from NW corner of Section 10
Well A1	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	N/A	4	N	25	E	12	NW	NE	103	100 feet South and 2700 feet East from NW corner of Section 12
Well B1	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	N/A	4	N	25	E	1	SW	NE	100	2390 feet South and 2100 feet West from NE corner of Section 1
Well C1	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	N/A	4	N	25	E	2	SE	NW	GL 8	1410 feet South and 3450 feet West from NE corner of Section 2
Well D1	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	N/A	4	N	25	E	2	NE	SE	100	2950 feet South and 600 feet West from NE corner of Section 2

NOTE: Certificate 90019 was issued to supersede Certificate 47191 following transfer T-6965. The point of appropriation for Certificate 47191 was Port Well 2 (MORR 756), which is completed in the Umatilla Member of the Columbia River Basalt Group (CRBG). Due to an error introduced during the transfer T-6965 certification process, the point of appropriation location description on Certificate 90019 pointed to Port Well 3 (MORR 757) (inside the same building) instead of Port Well 2.

This transfer corrects the point of appropriation location description and well name to be Port Well 2 (MORR 756) as originally intended, as well as adding four proposed additional points of appropriation. Proposed Wells A1, B1, C1, and D1 would all be completed in the Umatilla Member of the CRBG, the same aquifer as Port Well 2. Please see Attachment F for a review of the basalt geology associated with the wells in the vicinity of the Port of Morrow.

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

- | | |
|---|---|
| <input type="checkbox"/> Place of Use (POU) | <input type="checkbox"/> Supplemental Use to Primary Use (S to P) |
| <input type="checkbox"/> Character of Use (USE) | <input checked="" type="checkbox"/> Point of Appropriation/Well (POA) |
| <input type="checkbox"/> Point of Diversion (POD) | <input type="checkbox"/> Additional Point of Appropriation (APOA) |
| <input type="checkbox"/> Additional Point of Diversion (APOD) | <input type="checkbox"/> Substitution (SUB) |
| <input type="checkbox"/> Surface Water POD to Ground Water
POA (SW/GW) | <input type="checkbox"/> Government Action POD (GOV) |

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

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

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

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

Table 2. Description of Changes to Water Right Certificate # 90019

List the change proposed for the acreage in each 1/4. 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)					PROPOSED (the "to" or "on" 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.					The listing as it would appear AFTER PROPOSED CHANGES are made.																		
Twp	Rng	Sec	1/4	Gvt Tax Lot/DLC	Type of USE listed on Certificate	POD(s) or POA(s) (name or number from Table 1)	Priority Date	Proposed Changes (see "CODES" from previous page)	Twp	Rng	Sec	1/4	Tax Lot/DLC	Gvt Lot/DLC	Acres	New Type of USE	POD(s)/ POA(s) to be used (from Table 1)	Priority Date					
EXAMPLE																							
2	S	9	NE	NW	100	15.0	Irrigation	POD #1 POD #2	1901	POU/POD	2	S	9	E	1	NW	NW	500	1	10.0	POD #5	1901	
											2	S	9	E	2	SW	NW	500		5.0	POD #6	1901	
										POA	The Port of Morrow Service Area										Port Well 2, Well A1, Well B1, Well C1, Well D1	5/31/1974	
										TOTAL ACRES:													

Additional remarks: The new POAs will serve water to the existing POU - "the Port of Morrow Service Area." Although not modified by this transfer application, the existing POU map is included in Attachment B.

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For Place of Use or Character of Use Changes

Are there other water right certificates, water use permits or ground water registrations associated with the “from” or the “to” lands? Yes No **N/A – The authorized use is municipal use, so water rights are not ‘layered.’**

If YES, list the certificate, water use permit, or ground water registration numbers: No change is proposed for the place of use or character of use.



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

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

Ground water supplemental Permit or Certificate # N/A;
Surface water primary Certificate # N/A.

For a change from Supplemental Irrigation Use to Primary Irrigation Use

Identify the primary certificate to be cancelled. Certificate # N/A

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.

Tip: You may search for well logs on the Department’s web page at:

http://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx

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.

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Proposed or Authorized POA Name or Number	Is well already built? (Yes or No)	If an existing well: OWRD Well ID Tag No. L-___	Total well depth	Casing Diameter	Casing Intervals (feet) *	Seal depth(s) (intervals)	Perforated or screened intervals (in feet)	Static water level of completed well (in feet)	Source aquifer (sand, gravel, basalt, etc.)	Well -specific rate (cfs or gpm). If less than full rate of water right
Port Well 3	Yes	MORR 757	46.5 ft	16-in	0-47	0-20'	35.5-42.5'	5.5 ' bgs	Umatilla Member (CRBG)	
Port Well 2	Yes	MORR 756	560 ft	16-in 12-in	0-72 ft +2-487 ft	0-86' 427-435'	12-in open 487-560	150' bgs		
Well A1	No	N/A	400 ft	16-inch 12-inch	+3-325 ft 315-400 ft	0-325 ft*	~ 350 - 560' Targeting the CRBG Umatilla Member at each location			
Well B1	No	N/A	400 ft	16-inch 12-inch	+3-325 ft 315-400 ft	0-325 ft*				
Well C1	No	N/A	400 ft	16-inch 12-inch	+3-325 ft 315-400 ft	0-325 ft*				
Well D1	No	N/A	400 ft	16-inch 12-inch	+3-325 ft 315-400 ft	0-325 ft*				

Notes:

* the geologic cross section shown in Attachment F shows that the basalt layers dip beneath the Port. The proposed casing and seal depths are estimated depths at these future drilling location that will allow for the sealing and construction of the well to target production from the CRBG Umatilla member that will match the Port's Well #2 current source of water.

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Attachment A

Water Right Certificate 90019

Application for a Water Right Transfer – Port of Morrow

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STATE OF OREGON
COUNTY OF MORROW
CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

PORT OF MORROW
PO BOX 200
BOARDMAN OR 97818

confirms the right to use the waters of A WELL, tributary to COLUMBIA RIVER for MUNICIPAL USES.

This right was perfected under Permit G-5332. The date of priority is May 31, 1974. The amount of water to which this right is entitled is limited to an amount actually used beneficially, and shall not exceed 2.0 CUBIC FEET PER SECOND (CFS); or its equivalent in case of rotation, measured at the well.

The well is located as follows:

Twp	Rng	Mer	Sec	Q-Q	Measured Distances
4 N	25 E	WM	10	NE NW	PORT WELL NO. 3 - 1073 FEET SOUTH AND 1348 FEET EAST FROM NW CORNER, SECTION 10

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

A description of the place of use is as follows:

THE PORT OF MORROW SERVICE AREA NEAR BOARDMAN, OREGON

The use of water transferred for municipal use shall not exceed in any one year the peak amount of water actually used by the industry in any one of the five years prior to January 5, 1994.

When required by the Department the water user shall install an in-line flow meter or other suitable device for measuring and recording the quantity of water used. The type and plans of the measuring device must be approved by the Department prior to beginning construction and shall be installed under the general supervision of the Department.

Water shall be acquired from the same aquifer as the original point of appropriation.

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NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW

This is an order in other than a contested case. This order is subject to judicial review under ORS 183.482. Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.482. Pursuant to ORS 183.482, ORS 536.075 and OAR 137-003-0675, you may petition for judicial review and petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

This certificate is issued to confirm a change in PLACE OF USE AND CHARACTER OF USE approved by an order of the Water Resources Director entered JANUARY 5, 1994, at Special Order Volume 48, Page 34, approving Transfer Application 6965, and supercedes Certificate 47191, State record of Water Right Certificates.

MAR 27 2015

Issued _____



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

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Attachment B
Application Maps
Application for a Water Right Transfer – Port of Morrow

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Leah Cogan

From: STARNES Patrick K * WRD <Patrick.K.Starnes@oregon.gov>
Sent: Thursday, October 8, 2020 11:43 AM
To: Leah Cogan
Subject: Re: Map scale waiver question

Hi Leah,

Yes, you will need a map scale waiver for that attached map. To that end, the Department has reviewed the map and grants a map scale waiver.

Please include a printed copy of this e-mail with the application and maps when you submit them.

Sincerely,

Kelly

Kelly Starnes, Transfer Program Analyst
Oregon Water Resources Department
725 Summer St NE Suite A
Salem OR 97301-1271
Telephone: 503-986-0886 Fax: 503-986-0903
E-mail: patrick.k.starnes@oregon.gov

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Please Note: Under Oregon Law, messages to and from this e-mail address may be available to the public.

From: Leah Cogan <lcogan@gsiws.com>
Sent: Thursday, October 8, 2020 11:28:11 AM
To: STARNES Patrick K * WRD <Patrick.K.Starnes@oregon.gov>
Subject: Map scale waiver question

Good morning,

GSI is submitting a transfer application to add new POAs to an existing certificate 90019. Although the POU is not being changed, we are including a map of the authorized POU as part of the application package. This map shows the POU on an 8.5x11 sheet of paper (the existing POU map is on a 24x36 inch oversized sheet). I've attached the new map we're planning to submit for your reference.

Do we need a map scale waiver to accompany this re-scaled authorized POU map?

Thank you,

Leah Cogan
Water Resources Analyst
mobile: 541.272.9888
1600 SW Western Boulevard, Suite 240, Corvallis, OR 97333
GSI Water Solutions, Inc. | www.gsiws.com
pronouns: she, her

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Attachment C
Evidence of Use Affidavit and Documentation
Application for a Water Right Transfer – Port of Morrow

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Application for Water Right Transfer

Evidence of Use Affidavit



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

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

State of Oregon)
) ss
 County of MORROW)

I, MARK PATTON, in my capacity as CHIEF OPERATING OFFICER,
 mailing address PORT OF MORROW, 2 MARINE DRIVE, BOARDMAN, OR 97818
 telephone number (541)481-7678, being first duly sworn depose and say:

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1. My knowledge of the exercise or status of the water right is based on (check one):
- Personal observation Professional expertise

2. I attest that:

Water was used during the previous five years on the **entire** place of use for Certificate # 90019; **OR**

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

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

OR

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

(continues on reverse side)

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

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

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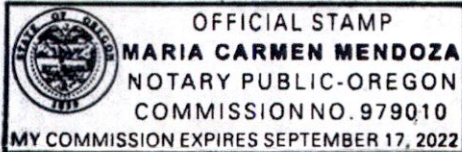


 Signature of Affiant

10/6/20

 Date

Signed and sworn to (or affirmed) before me this 6th day of October, 2020.





 Notary Public for Oregon

My Commission Expires: Sept. 17, 2022

Supporting Documents	Examples
<input type="checkbox"/> Copy of a water right certificate that has been issued within the last five years. (not a remaining right certificate)	Copy of confirming water right certificate that shows issue date
<input type="checkbox"/> Copies of receipts from sales of irrigated crops or for expenditures related to use of water	<ul style="list-style-type: none"> ● Power usage records for pumps associated with irrigation use ● Fertilizer or seed bills related to irrigated crops ● Farmers Co-op sales receipt
<input type="checkbox"/> Records such as FSA crop reports, irrigation district records, NRCS farm management plan, or records of other water suppliers	<ul style="list-style-type: none"> ● District assessment records for water delivered ● Crop reports submitted under a federal loan agreement ● Beneficial use reports from district ● IRS Farm Usage Deduction Report ● Agricultural Stabilization Plan ● CREP Report
<input type="checkbox"/> Aerial photos containing sufficient detail to establish location and date of photograph	<p>Multiple photos can be submitted to resolve different areas of a water right. If the photograph does not print with a "date stamp" or without the source being identified, the date of the photograph and source should be added.</p> <p>Sources for aerial photos: OSU – www.oregonexplorer.info/imagery OWRD – www.wrd.state.or.us Google Earth – earth.google.com TerraServer – www.terra-server.com</p>
<input type="checkbox"/> Approved Lease establishing beneficial use within the last 5 years	Copy of instream lease or lease number
<input checked="" type="checkbox"/> Water use reported to OWRD for Certificate 90019	Water use reporting data for the last 2 years is attached.

Water Use Report Based on Water Right



Cert:90019 CF *

PORT OF MORROW PO BOX 200 BOARDMAN, OR 97818

Records per page: 2 [View All](#)

Acre-feet (AF) of Water Used

Water Year*	Report ID	Facility	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Water Used	Irrigated Acres
2019	35153	MORR 756 (BASALT)	86.84	88.92	98.09	86.91	85.87	91.43	88.18	88.02	89.81	83.36	83.92	92.35	1063.70	
2018	35153	MORR 756 (BASALT)	85.12	86.32	92.05	45.81	0.00	46.16	81.03	92.97	87.44	91.80	89.99	90.70	889.40	

1 2 3 4 5 6 7 8 9 10 ...

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

- The Water Resources Department makes reasonable efforts to screen the data for quality control; however, the Department cannot accept responsibility for errors, omissions, or accuracy of the information. Notification of any errors is appreciated. Send notifications to wateruse@wr.state.or.us or call (503) 986-0905.
- Water use is reported by point of diversion (POD), rather than by water right.
- If a POD is shared with multiple water rights, it is not feasible to separate out the amount used under the water right being queried from water used by other rights using this same POD.
- Monthly amounts indicate:
 - For diverted rights, the total amount diverted during the month;
 - For storage rights, the amount generally stored in the reservoir/pond during the month, as represented by the volume of water impounded on approximately the same day each month.
- Water use amounts have all been converted to "acre-feet" (AF), regardless of the original measurement unit reported. One AF is the volume of water that will cover an acre of ground one foot deep = 325,850 gallons.
- Zeroes indicate that a report was received stating that no water was used during those months; if a year is not listed, no report of water use was received for that year.

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Attachment E
Well Logs for MORR 756 and MORR 757
Application for a Water Right Transfer – Port of Morrow

13552

TO WATER WELL CONTRACTOR
The original of this report must be filed with the

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

WATER WELL REPORT

STATE OF OREGON
(Please type or print)
SALEM, OREGON

RECEIVED

JAN 9 1975

State Well No. 4N/25E-10ba

State Permit No. #1

MOOR 750

(10) LOCATION OF WELL:

County MORROW Driller's well number 5489
NE 1/4 NW 1/4 Section 10 T. 4N R. 25E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 443 ft.
Static level 8 ft. below land surface. Date 12/20/74
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 12
Depth drilled 560 ft. Depth of completed well 560 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
<u>SEE ATTACHED SHEET</u>			

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Work started SEPT 10 1974 Completed DEC 20 1974
Date well drilling machine moved off of well DEC 23 1974

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] [Signature] Date 12/30 1974
(Drilling Machine Operator)
Drilling Machine Operator's License No. 57

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 RJ STRASSER DRILLING CO
(Person, firm or corporation) (Type or print)
Address 8110 SE SUNSET LANE PORTLAND, ORE
[Signed] [Signature]
(Water Well Contractor)
Contractor's License No. 10 Date DEC 30 1974

(1) OWNER:

Name PORT OF MORROW
Address NO 1 MARINE DRIVE BOARDMAN ORE. 97818

(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

CASING INSTALLED:

Threaded Welded
16" Diam. from 0 ft. to 72 ft. Gage 312
12" Diam. from +2 ft. to 437 ft. Gage 330
" Diam. from _____ ft. to _____ ft. Gage _____

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? STRASSER
Yield: 970 gal./min. with 177 ft. drawdown after 24 hrs.
" " " " " "
" " " " " "
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow _____ g.p.m.

(9) CONSTRUCTION:

Well seal—Material used GRAVULAR BENTONITE TO 40 FT. CEMENT GROUT
Well sealed from land surface to 40 TO 86 AND 427-435 ft.
Diameter of well bore to bottom of seal 16 AND 20 in.
Diameter of well bore below seal 12 in.
Number of sacks of cement used in well seal 55 sacks
Number of sacks of bentonite used in well seal 9 sacks
Brand name of bentonite NATIONAL
Number of pounds of bentonite per 100 gallons of water PUT IN DRY GRAVULAR lbs./100 gals.
Was a drive shoe used? Yes No Plugs _____ Size: location _____ ft.
Did any strata contain unusable water? Yes No
Type of water? ALKALI depth of strata 42
Method of sealing strata off CASING AND CEMENT
Was well gravel packed? Yes No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

R. J. Strasser Drilling Co.

8110 S. E. Sunset Lane
Portland, Oregon 97206
January 1, 1974

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Log of well for Port of Morrow

sand and gravel	0 - 5
sand and boulders, some binder	5 - 20
loose sand and gravel	20 - 42
broken rock	42 - 44
medium hard black basalt	44 - 50
hard grey basalt	50 - 98
porous black basalt	98 - 108
green clay	108 - 142
porous brown basalt	142 - 154
porous black basalt	154 - 175
medium hard grey basalt	175 - 190
porous brown basalt	190 - 201
hard grey basalt	201 - 311
broken black basalt	311 - 320
green clay	320 - 402
green sandy clay	402 - 422
medium hard black basalt	422 - 426
broken black basalt	426 - 432
medium hard black basalt	432 - 443
porous black basalt	443 - 475
medium hard black basalt	475 - 483
porous black and brown basalt	483 - 501
medium hard black basalt	501 - 533
porous black basalt	533 - 550
green clay and shale	550 - 560

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

WATER WELL REPORT

STATE OF OREGON
(Please type or print)

RECEIVED
JUN 13 1973
STATE ENGINEER
SALEM, OREGON

State Well No. 4N/25E-10^{6a}

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

MORROW 757

(Do not write above this line)

(1) OWNER:

Name Port of Morrow Comm.
Address City Hall, Boardman, Oregon 97818

(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

CASING INSTALLED:

Threaded Welded
1.6" Diam. from 0.0 ft. to 47.5 ft. Gage 350-won
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:

Perforated? Yes No.
Type of perforator used Mills Knife
Size of perforations 7/16 in. by 3 in.
240 perforations from 35.5 ft. to 42.5 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? Lane To be made by of Pasco.
Yield: gal./min. with ft. drawdown after hrs.
" " " " "
" " " " "
Baller test 60 gal./min. with 2.5 ft. drawdown after 1 1/2 hrs.
Artesian flow NONE g.p.m. L
Temperature of water 55 Depth artesian flow encountered NONE ft.

(9) CONSTRUCTION:

Well seal—Material used Bentonite
Well sealed from land surface to 20.5 ft.
Diameter of well bore to bottom of seal 20 in.
Diameter of well bore below seal 17 1/4 in. Driveshoe
Number of sacks of cement used in well seal NONE sacks
Number of sacks of bentonite used in well seal 2 1/2 sacks
Brand name of bentonite Boroid
Number of pounds of bentonite per 100 gallons
of water Not Metered, well mixed lbs./100 gals.
Was a drive shoe used? Yes No Plugs Size: location
Did any strata contain unusable water? Yes No
Type of water? L depth of strata L
Method of sealing strata off L
Was well gravel packed? Yes No Size of gravel: L
Gravel placed from L ft. to L ft.

(10) LOCATION OF WELL:

County Morrow Driller's well number 54
NE 1/4 NW 1/4 Section 10 T. 4N R. 25 E. W.M.
Bearing and distance from section or subdivision corner

270' due north of S.W. corner of the NE 1/4 of the NW 1/4 sec. of Sec. 10.

(11) WATER LEVEL: Completed well.

Depth at which water was first found 7.5 ft.
Static level 5.5 ft. below land surface. Date June 11/73
Artesian pressure NONE lbs. per square inch. Date June 11/73

(12) WELL LOG:

Diameter of well below casing was 1.5"
Depth drilled 48.0 ft. Cemented back to 46.5 ft. Depth of completed well 46.5 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
Hard sandy silt, Topsoil	0.0	2.0	
Sand, gravel, cobbles & Boulder	2.0	28.0	7.0
Coarse sand & gravel	28.0	42.5	7.0
Med grain sand	42.5	44.0	5.5
Boulder, surrounded by med. grain brown sand	44.0	45.5	5.5
Med. grain brown sand	45.5	48.0	5.5
Cemented hole back from 48.0 to 46.5			
3 sac. Cement #1 to prevent pumping sand.			

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Work started May 29 1973 Completed June 11 1973
Date well drilling machine moved off of well June 11 1973

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] John P. Brown Date June 11, 1973
(Drilling Machine Operator)
Drilling Machine Operator's License No. 481

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name B. S. B. Drilling Co.
(Person, firm or corporation) (Type or print)
Address P.O. Box 124 Hermiton, Ore 97838
[Signed] John L. Brown
(Water Well Contractor)
Contractor's License No. 516 Date June 11, 1973

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Attachment F
Port of Morrow Regional Basalt Geology
Application for a Water Right Transfer – Port of Morrow

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Basalt Geology – Port of Morrow and Vicinity

Geology and Hydrogeology

The water supply wells completed in the Columbia River Basalt Group (CRBG) flows associated with the Port of Morrow and surrounding areas encounter multiple basalt flows. The water-bearing basalt units that are encountered from ground surface downward include the 3 separate flows from the Saddle Mountain Basalt (Elephant Mountain, Pomona, and Umatilla Members) and several Wanapum Basalt flows (Priest Rapids and Frenchman Springs Sentinel Gap Flow and Frenchman Springs Sand Hollow Flow Members). To better understand the basalt system and the water-bearing units, a cross-section was prepared in the vicinity of the Port of Morrow. Figure 1 presents the location of the cross-section and the wells used in its development, and Figure 2 presents the basalt units within the cross-section.

Historically, water supply wells were constructed across multiple water-bearing zones found within the basalt system. However, current practices consider this to be comingling of the individual water-bearing units and can cause unintended impacts. To eliminate these impacts, current well construction standards for CRBG wells require new wells be completed in only one water-bearing zone.

Points of Appropriation

The Port of Morrow's existing Port Well 2 (MORR 756) has a completed depth of 560 feet below ground surface (bgs) and appropriates groundwater from only the Umatilla Member of the Saddle Mountain Basalt, as shown in Figure 2. Due to an error during the certification of Certificate 90019 and multiple other Port rights at the same time, the location description for the Port Well 2 on Certificate 90019 is not accurate. This transfer application corrects the location description for the existing POA to reflect the actual Port Well 2 (which has always been at this location). Port Well 3 (MORR 757 – located 30 feet west and inside the same building) has a completed depth of 47 feet bgs and appropriates water from Quaternary-Tertiary Sediments, and because it produces water from a different aquifer, it should not be included as a point of appropriation on this water right.

The Port of Morrow is proposing to also add four (4) additional points of appropriation (APOA) to this right. The Port has identified 4 locations where they may potentially drill new wells into the basalt aquifer system, well cluster locations A, B, C, and D (refer to Transfer map). Although there may be up to 3 completed basalt wells at each of the proposed new locations (associated with "other" Port water rights), this transfer identifies only the well within these clusters that will be completed in the Umatilla Member as proposed APOAs, ensuring that the proposed APOAs are producing water from the same aquifer.

Wells A1, B1, C1, and D1 will be the first wells in clusters A, B, C, and D, and will all be completed in the Umatilla Member. This transfer is proposing to add as APOA to Certificate 90019 wells A1, B1, C1, and D1.

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ATTACHMENT

Geologic Summary and Geologic Logs

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Geologic Summary Evaluation of MORR 777

Well Completed: December 30, 1969

Total Depth: 335 ft bgs

REPORTED WELL CONSTRUCTION (from State of Oregon Water Well Report form):

16 inch-diameter steel casing from 0 ft to 51 ft bgs; drilled with bentonite/cement seal 0 ft to 45 ft.

12 inch-diameter steel casing from 0 ft to 162 ft bgs; cement & bentonite grout seal from 0 ft to 162 ft bgs.

8 inch-diameter open-borehole from 162 ft to 335 ft bgs.

Open Interval In Well: 162 ft to 335 ft bgs.

STRATIGRAPHIC UNITS PENETRATED IN WELL

Note: Interpretation of stratigraphic units (and unit contacts) penetrated in the MORR 777 well are based on (1) information from the MORR 777 Driller's Log, (2) a 08 November 2003 downhole video log of this well, and (3) information from the adjacent MORR 51714 well.

<u>Depth (ft bgs)</u>	<u>Thickness (ft)</u>	<u>Unit</u>	<u>Comments</u>
0 to 45	45	Suprabasalt sediments	Cataclysmic Flood/Alkali Canyon Fm.
45 to 90	45	Elephant Mtn. Member, Saddle Mtns. Basalt	
90 to 120	30	Rattlesnake Ridge Member, Ellensburg Fm.	Described as green & blue clay.
120 to 254	134	Pomona Member, Saddle Mtns. Basalt	Lower contact from video well log.
254 to 320	66	Selah Member, Ellensburg Fm.	Described as blue, green clay.
320 to 335	+15	Umatilla Member, Saddle Mtns. Basalt	

Potential Water-Bearing Stratigraphic Units in the Well's Open Borehole Interval (162 to 335 ft bgs):

Bottom of the Pomona Member, Saddle Mtns. Basalt

Selah Member, Ellensburg Formation

Upper portion of the Umatilla Member, Saddle Mtns. Basalt



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Geologic Summary Evaluation of MORR 776**Well Completed:** January 17, 1975**Total Depth:** 555 ft bgs**REPORTED WELL CONSTRUCTION** (from State of Oregon Water Well Report form):

10 inch-diameter steel casing from 0 ft to 120 ft bgs with cement grout seal from 0 ft to 120 ft bgs;

10 inch-diameter open borehole from 120 ft to 220 ft bgs;

8 inch-diameter open borehole from 220 ft to 555 ft bgs.

Open Interval In Well: 120 ft to 555 ft bgs.**STRATIGRAPHIC UNITS PENETRATED IN WELL**

Note: Due to the "uneven quality" of descriptions on the original Driller's Log, interpretation of stratigraphic units (and unit contacts) penetrated the MORR 776 well are based on (1) information from the MORR 776 Driller's Log, (2) a 16 February 2004 downhole video log of this well, and (3) information from nearby wells MORR 777 and MORR 51714.

<u>Depth (ft bgs)</u>	<u>Thickness (ft)</u>	<u>Unit</u>	<u>Comments</u>
0 to 30	30	Suprabasalt sediments	Cataclysmic Flood/Alkali Canyon Fm.
30 to 120	90	Elephant Mtn. Member, Saddle Mtns. Basalt	Estimated – water-bearing at 93 ft bgs.
120 to 162	42	Rattlesnake Ridge Member, Ellensburg Fm.	No sediments noted on log; likely includes top of the Pomona Member.
162 to 256	94	Pomona Member, Saddle Mtns. Basalt	No contact on well log; from video log.
256 to 327	71	Selah Member, Ellensburg Fm.	No contact on well log; from video log.
327 to 392	65	Umatilla Member, Saddle Mtns. Basalt	No contact on well log; from video log.
392 to 433	41	Mabton Member, Ellensburg Fm.	"claystone, green" on well log; contacts from video log.
433 to 533	100	Priest Rapids Member, Wanapum Basalt	
533 to 555*	+22	Quincy/Squaw Cr. Member, Ellensburg Fm.	"claystone, blue" noted on well log.

*Given the depth of this well and the resulting artesian pressure of the completed well (4 psi listed on log) there is a strong likelihood that it is also open to the top of the Frenchman Springs Member, Wanapum Basalt

Potential Water-Bearing Stratigraphic Units in the Well's Open Borehole Interval (120 to 555 ft bgs):

Rattlesnake Ridge Member, Ellensburg Formation

Pomona Member, Saddle Mtns. Basalt

Selah Member, Ellensburg Formation

Umatilla Member, Saddle Mtns. Basalt

Mabton Member, Ellensburg Formation

Priest Rapids Member, Wanapum Basalt

Quincy/Squaw Creek Member, Ellensburg Formation

Top of the Frenchman Springs Member, Wanapum Basalt



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Geologic Summary Evaluation of MORR 51714

Well Completed: March 9, 2009

Total Depth: 571 ft bgs

REPORTED WELL CONSTRUCTION (from State of Oregon Water Well Report form):

- 20 inch-diameter steel casing from -8 ft to 40 ft bgs;
- 16 inch-diameter steel casing 0 ft to 60 ft bgs; cement grout seal 0 ft to 60 ft bgs;
- 12 inch-diameter steel casing from +1 ft to 320 ft bgs; cement grout seal 0 ft to 320 ft bgs;
- 16 inch-diameter open borehole from 320 ft to 565 ft bgs;
- 12 inch-diameter open borehole from 565 ft to 571 ft bgs.

Open Interval In Well: 320 ft to 571 ft bgs.

STRATIGRAPHIC UNITS PENETRATED IN WELL

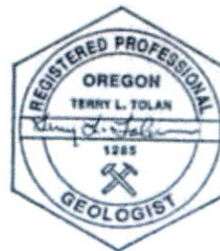
Note: Interpretation of stratigraphic units (and unit contacts) penetrated in the MORR 51714 well are based on (1) information from the MORR 51714 Driller's Log, (2) a 16 February 2004 downhole video log of the adjacent MORR 776 well, and (3) information from the adjacent MORR 776 Driller's log.

<u>Depth (ft bgs)</u>	<u>Thickness (ft)</u>	<u>Unit</u>	<u>Comments</u>
0 to 49	49	Suprabasalt sediments	Cataclysmic Flood/Alkali Canyon Fm.
49 to 118	69	Elephant Mtn. Member, Saddle Mtns. Basalt	
118 to 162	44	Rattlesnake Ridge Member, Ellensburg Fm.	Described as "blue clay".
162 to 257	95	Pomona Member, Saddle Mtns. Basalt	
257 to 327	70	Selah Member, Ellensburg Fm.	Described as "blue clay".
327 to 392	65	Umatilla Member, Saddle Mtns. Basalt	No contact on well log; from video log.
392 to 433	41	Mabton Member, Ellensburg Fm.	No sediments on well log; from video log.
433 to 534	101	Priest Rapids Member, Wanapum Basalt	
534 to 555	21	Quincy/Squaw Cr. Member, Ellensburg Fm.	No sediments on well log; from video log.
555 to 571*	+16	Frenchman Springs Member, Wanapum Basalt	No contact noted on log – estimated.

*Given the depth of this well there is a strong likelihood that it is also open to the top of the Frenchman Springs Member, Wanapum Basalt

Potential Water-Bearing Stratigraphic Units in the Well's Open Borehole Interval (320 to 571 ft bgs):

- Middle to Bottom of the Umatilla Member, Saddle Mtns. Basalt
- Mabton Member, Ellensburg Formation
- Priest Rapids Member, Wanapum Basalt
- Quincy/Squaw Creek Member, Ellensburg Formation
- Top of the Frenchman Springs Member, Wanapum Basalt



Expires 01/01/2021

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Log of Borehole: Port of Morrow No. 1

Also known as:

Project: Port of Morrow

Well ID: MORR 752

Location: SW SW, sec. 10, T4N, R25E

Geologist: Terry L. Tolan, R.G.

Kennedy/Jenks Consultants

Engineers & Scientists

Kennedy/Jenks Consultants
 1020 N. Center Parkway, Suite F
 Kennewick, Washington 99336
 509-734-9763
 FAX 509-734-9764
 www.kennedyjenks.com

Depth	Symbol	Lithologic Description	Elevation	Water Bearing Zones	Geochem Sample	Remarks
0		Ground Surface	0			
		Pleistocene Cataclysmic Flood Deposits	-39			
		Elephant Mountain Member Saddle Mountains Basalt	-91			
100		Rattlesnake Ridge Member Ellensburg Formation	-121			
		Pomona Member Saddle Mountains Basalt	-275			
300		Seiah Member Ellensburg Formation	-341			
		Umatilla Member Saddle Mountains Basalt	-496			
500		Mabton Member Ellensburg Formation	-550			
		Priest Rapids Member Wanapum Basalt	-650			
		Quincy / Squaw Creek Member Ellensburg Formation	-670			
		Frenchman Springs Member Wanapum Basalt	-685			
		TD 685 ft.				

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Drilled By: Stadel Drilling Co.
 Drill Method: Rotary and Cable
 Drill Date: 2/9/1978

Total Depth: 685

Page: 1 of 1

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Geologic Log For Site MORR 1526

NWIS Site ID: 455048119400701

OWRD Log ID: MORR 1526

Well location: 04N/25E-10ADB

Depth drilled, in feet below land surface: 900

Land surface altitude, in feet above Nation Geodetic Vertical Datum of 1929: 272




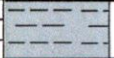
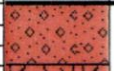



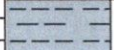
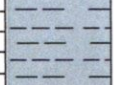
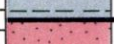





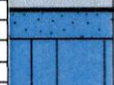



Logged by: T. L. Tolan

Date drilled: 02/01/1991

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Depth	Symbol	Lithologic Description	Elevation	Water Bearing Zones	Geochem Sample	Remarks
0		Cataclysmic Flood Deposits <small>Ground Surface</small>	0			
		Alkali Canyon Formation conglomerate / sandstone	-20			
		Elephant Mountain Member - Saddle Mountains Basalt dense interior - colonnade	-60		70	
		Rattlesnake Ridge Member - Ellensburg Formation sandstone, pebbly sandstone, claystone	-90			
		Pomona Member - Saddle Mountains Basalt flow top breccia	-120			
		dense interior - entablature	-150			
						
		dense interior - colonnade	-250		250	
		Selah Member - Ellensburg Formation tuff, sandstone, paleosols	-270			275 - 283ft. fused tuff
						
		Umatilla Member - Saddle Mountains Basalt normal flow top	-345			
		dense interior - entablature	-380			
						
		dense interior - colonnade	-470		440	
		Mabton Member - Ellensburg Formation siltstone / claystone	-500			
		Priest Rapids Member - Wanapum Basalt normal flow top dense interior - colonnade	-555 -570	Lolo flow		
						
		Quincy / Squaw Creek Member - Ellensburg Formatic diatomite, siltstone	-650			
			-670		670	
						

13552

Geologic Log For Site MORR 1526

NWIS Site ID: 455048119400701

OWRD Log ID: MORR 1526

Well location: 04N/25E-10ADB

Depth drilled, in feet below land surface: 900

Land surface altitude, in feet above Nation Geodetic Vertical Datum of 1929: 272



Logged by: T. L. Tolan

Date drilled: 02/01/1991

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OWRD

Depth	Symbol	Lithologic Description	Elevation	Water Bearing Zones	Geochem Sample	Remarks
		Frenchman Springs Member - Saddle Mountains Bas				
		Basalt of Sentinel Gap flow 1	-720			
		flow top breccia dense interior - colonnade			760	
		internal vesicular zone dense interior - colonnade	-770 -780		805	
800						
		Basalt of Sentinel Gap flow 2	-830			
		normal flow top dense interior - colonnade	-855		855	
900		TD 900 ft.			900	
1000						
1100						
1200						
1300						
1400						

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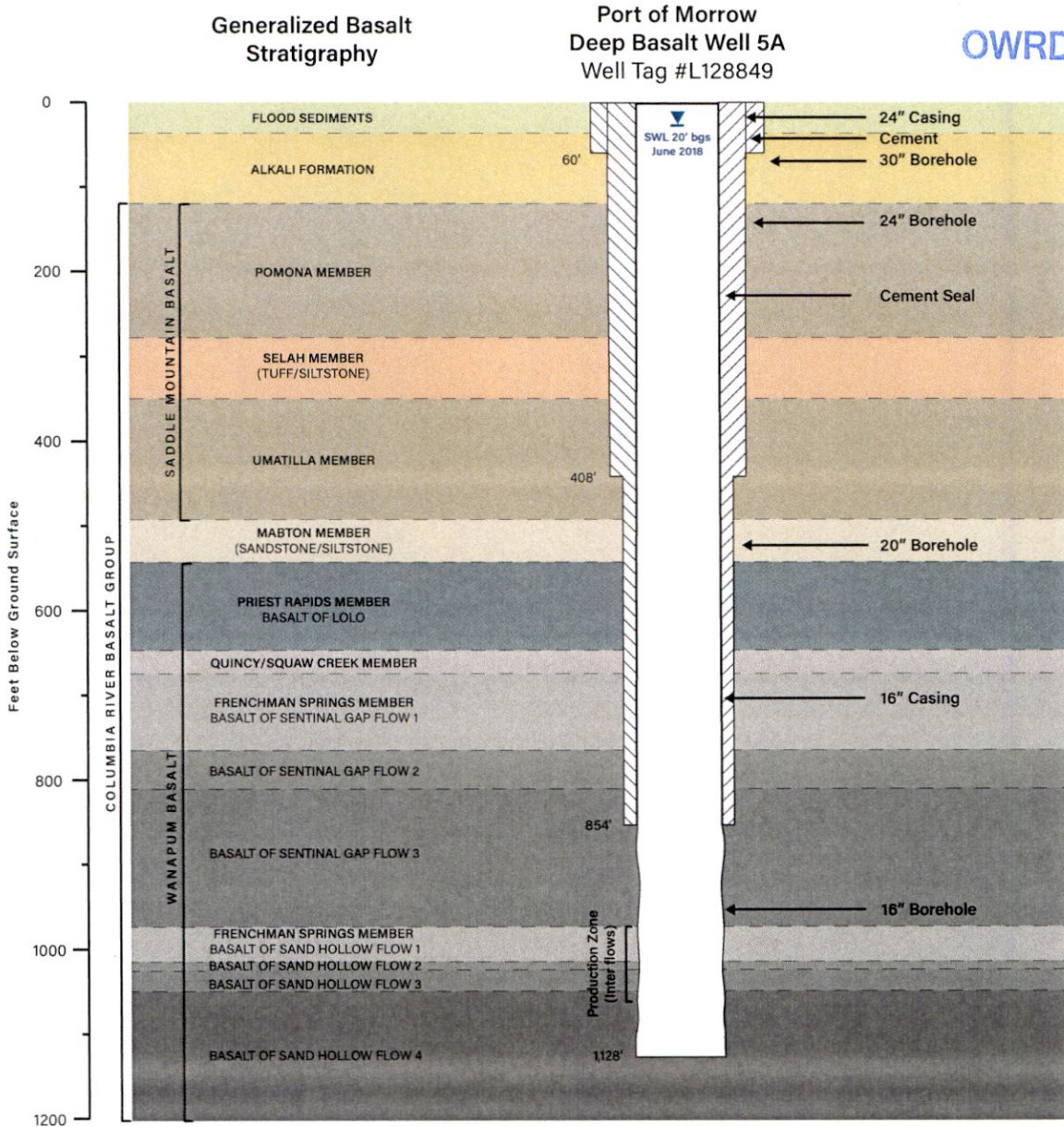


FIGURE 2
Well 5A As-Built
Port of Morrow

13552



Geologic Log - POM Well #5A

By T.L. Tolen RG
April 02, 2018

Depth (ft bgs)		UNIT			
0		sand/silt	Quaternary Eolian Sand		
10	9				
20		sand / gravel	Quaternary Cataclysmic Flood Deposits		
30					
35					
40		Clay-gravel	Mio-Pliocene Alkali Canyon Formation		
50					
60					
70		Clay-gravels			
80					
90					
100		basaltic gravels / Claystone			
110					
120	121				
130		FTB	Eroded Top-Discontinuity		
135					
140		FT		Pomona Saddle	Columbia River
150	147			Member Mtns.	Basalt Group
160				Basalt	
170		DIE			
180		v. sparsely phyric phyric-jsmall olivine phenos			
190					

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OWRD

Model 20 x 20 TO THE INCH 46 1240
 2 1/2 x 1/2, 1/4, 1/8, 1/16
 RECEIVED 9 85848 CO.

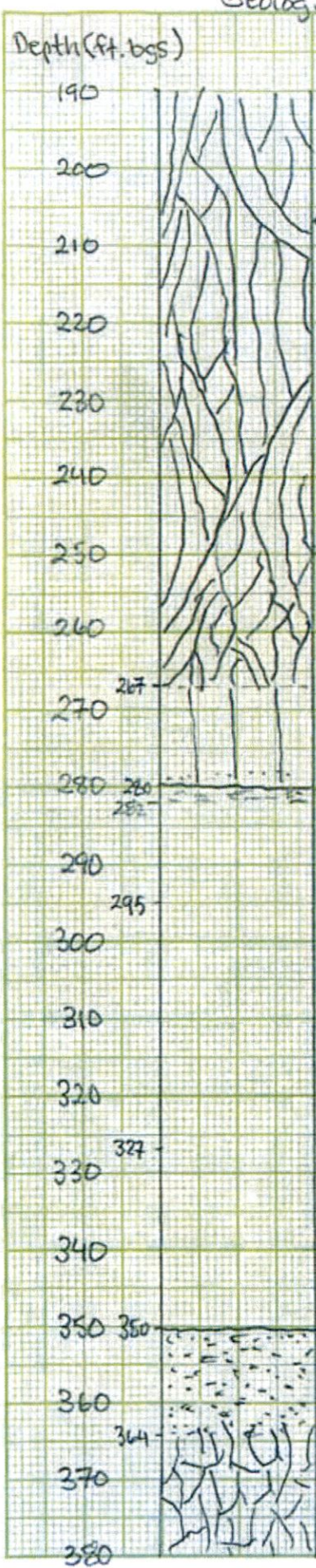
13552

Geologic Log - Pom Well #5A

By T.L. Tolan, R.G.
April 02, 2018

Depth (ft. bgs)	UNIT			
190				
200				
210		← 207		
220	DIE			RECEIVED
230				NOV 05 2020
240				OWRD
250			Pomona	Saddle
260			Member	Mtns.
270				Basalt
280				Columb
290				River
300				Basalt
310				Group
320				
330				
340				
350				
360	FT			
370	DIE		Umetilla	Saddle
380			Member	Mtns.
				Basalt

M&E 20 x 20 TO THE INCH 45 1240
 7 x 12 SHEETS
 RESPIRE & EYER SS.



fused tuff
tuff/siltstone
sandstone

tuff/
siltstone

tuff/siltstone
v. fine sandstone

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OWRD

Saddle

Pomona

Mtns.

Member

Basalt

Columb
River
Basalt
Group

Selah

Ellensburg

Member

Formation

Saddle

Umetilla

Mtns.

Member

Basalt

Geologic Log - Tom Well # 5A

Depth (ft bgs)	UNIT	DESCRIPTION	UNIT	DESCRIPTION	UNIT	DESCRIPTION
380						
390						
400						
410						
420	DIE		Umatilla	Saddle		
430			Member	Mtns.		Columbia
440				Basalt		River
450						Basalt
460						Group
470	470	Baked Siltstone/ Clayston	rafted pod	metton		
480	481		member			
490	492	DIE				
		FB few ves				
500	505	Siltstone/ Paleosols				
510			Metton	Ellensburg		
520		Sandstone/ Siltstone	Member	Fernstrom		
530	532	Claystone/ Siltstone				
540	542	Eroded FT				
		few ves				
550	551	DIC	Basalt of	Priest		
			Lolo	Rapids		
560				Member		Wenepum
570						Basalt

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OWRD

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K&E 20 X 20 TO THE INCH 46 1240
 7 1/2 X 12 PICTURES
 RECEIVED 8 88888 100

Geologic Log - Pom Well #5A

By T.L. Tolen, RG
April 02, 2018

Depth (ft (bgs))	UNIT				
570					RECEIVED
580					NOV 05 2020
590	DK			Priest	OWRD
600	Sparsely plagioclase phyric (phenos < 0.5cm)	Basalt	Rapids	Wanapun	Columbia
610		of	Member	Basalt	River
620		Lolo			Basalt
630					Group
640	DIC				
643-647	PC				
650					
660	clay and diatomite (carbon wood)		Quincy- Squaw Creek Member	Ellensburg Formation	
670	silt/clay				
675					
680	FTB	Basalt of Sentinel Gap	Frenchman Springs Member	Wanapun Basalt	
690	Flow I				
700	FTB				
710					
720	FT				
730					
737					
740	sparsely microphyric				
750	DIC				
755		← X 755			
760					

Geologic Log - POM Well #5A

By T.L. Tolens, RG
April 02, 2018

Depth (ft bgs)	UNIT			
760	DIC Flow 1			
765	FTB			
770	Flow 2			RECEIVED
780	DIC microphytic			NOV 05 2020
790	DIC			OWRD
800	← X 804 Basalt	Frenchmen		Columbia
810	812	of Springs	Wana-pum	River
820	Flow 3 FTB	Sentinel Gap	Member Basalt	
830	FT			Basalt
840	← X 842 DIC			Group
850				
860	858			
870				
880				
890	ephytic			
900	Spic microphytic			
910	DIC			
920				
930				
940				
950				

*Depths below casing (854 ft bgs) reflect visual observations during the well video. Due to video drift, the depths on this log are approximately 6 feet deeper than the actual borehole.

MSE 20 & 20 TO THE INCH 46 1240

Geologic Log - Pom Well #5A

By T.L. Tolan, R.G.
June 18, 2018

Depth (ft bgs)	UNIT	
950	Basalt of Sentinel Gap	Flow 2 DIC zphyric
960		← * 964
970		v spec microphyric.
980	Basalt	Flow 1 FT "Olex Flow"
990		978 989
1000	Basalt	DIC
1010	of Frenchman River	← * 1004 26. Plag. Phytic
1020	Sand	1021 1026
1030	Hollow Springs	FT Flow 2 DIC spec Phytic
1040	Basalt	1037 FT Flow 3 DIC spec. Plag. Phytic
1050	Member	← * 1050
1060	Wenapum Basalt	1056 FTB Flow 4
1070		1066 FT
1080		1076 DIC
1090		zphyric
1100		DIC
1110		
1120		← * 1123
1130		1134 TD

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OWRD

Columbia
River
Basalt
Group



Expires 01/01/2019

*Depths below casing (854 ft bgs) reflect visual observations during the well video. Due to video drift, the depths on this log are approximately 6 feet deeper than the actual borehole.

MADE FOR & TO THE INCH 46 1240
 1 1/2" 10-10-15
 1/2" 10-10-15

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OWRD

ATTACHMENT
Cross-Section Well Logs

13552

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

NOV - 5 1993

MORR
1617

4N/26E/1866
46842

(START CARD) #

(1) OWNER: Well Number _____
 Name Larry Chastagner
 Address P.O. Box 1123
 City Umatilla State OR Zip 97882

(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 200 ft.
 Explosives used Yes No Type _____ Amount _____

HOLE		SEAL		Amount	
Diameter	From To	Material	From To	sacks	pounds
15"	0 76	Cement	0 76	161	sacks
10"	76 200				

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: 10"	72	76	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 8"	117	200	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) 76

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

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
140	200	1/4x3"	5	rows		<input type="checkbox"/>	<input checked="" type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian
 Yield gal/min 4000+ Drawdown _____ Drill stem at 200 Time 1 hr.

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

(9) LOCATION OF WELL by legal description:
 County Morrow Latitude _____ Longitude _____
 Township 4N N or S. Range 26E E or W. WM. _____
 Section 18 NW 1/4 NW 1/4 _____
 Tax Lot 4704 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Highway 730, milepost 168, Umatilla, OR 97882

(10) STATIC WATER LEVEL:
4 ft. below land surface. Date 9-30-93
 Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 152

From	To	Estimated Flow Rate	SWL
152	177	4000+	4

(12) WELL LOG:
 Ground elevation _____

Material	From	To	SWL
Sand	0	2	
Sandy clay	2	38	
Black sand	38	67	
Yellow sand	67	71	
Gray basalt	71	121	
Brown basalt	121	133	
Brown clay	133	139	
Green clay	139	152	
Black & brown basalt with green soapstone	152	177	WB
Gray basalt	177	200	

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OWRD

Date started 9-24-93 Completed 9-30-93

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

(bonded) Water Well Constructor Certification:
 I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.
 Signed Patrick Wallace WWC Number 1218 Date 10-15-93

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This well cannot go
deeper than 400 or until
we hit the basalt
so we intend to move
a cable tool on it
and drive it to the
hard rock he intends
to check (Pump Test)
again at that time

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JUL 16 1968

STATE ENGINEER
SALEM OREGON

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

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

WATER WELL REPORT

STATE OF OREGON

APR 11 1977 State Well No.

2/N/25E-11cd

(Please type or print)

WATER RESOURCES DEPT.

State Well No.

SALEM, OREGON

MARK 7167

(1) OWNER:

Name L.G. + Margaret Lott
Address P.O. Box 294
Boardman, Oregon 97818

(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

CASING INSTALLED:

6" Diam. from 0 ft. to 29 ft. Gage 257
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:

Perforated? Yes No.

of perforator used

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

(7) SCREENS:

Well screen installed? Yes No

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

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? Yes No If yes, by whom?
gal./min. with ft. drawdown after hrs.
30 " 40 " 1 "
Packer test 75 gal./min. with 80 ft. drawdown after 1 hrs.
Artesian flow g.p.m.
perature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Cement
Well sealed from land surface to 29 ft.
Diameter of well bore to bottom of seal 6 9 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 7 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 Morrow Driller's well number
SE 1/4 SW 1/4 Section 11 T. 47. R. 25E. W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 90 ft.
Static level 60 ft. below land surface. Date 3-31-77
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 6"

Depth drilled 142 ft. Depth of completed well 142 ft.

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

MATERIAL	From	To	SWL
Topsoil	0	3	
Sand	3	12	
Rock, brown	12	19	
Basalt, black	19	80	
Claystone, blue	80	120	
Rock, black + blue claystone	120	142	U.B.

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Work started 3-31 1977 Completed 4-1 1977
Date well drilling machine moved off of well 4-1 1977

Drilling Machine Operator's Certification:

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

[Signed] John Van Swell Date 4/1, 1977
(Drilling Machine Operator)
Drilling Machine Operator's License No. 1027

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 TROY GRIFFIN (Type or print)
Address 900 HERMISTON AVE HERMISTON, ORE (Type or print)
[Signed] Troy Griffin (Water Well Contractor)
Contractor's License No. 65 Date 4-1, 1977

MORR 52462

MORR 52462

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765 & OAR 690-205-0210)

WELL I.D. LABEL# L128849
START CARD # 212565
ORIGINAL LOG #

(1) LAND OWNER
Owner Well I.D. 5A
First Name Last Name
Company Port of Morrow
Address PO Box 200
City Boardman State OR Zip 97818

(2) TYPE OF WORK
[X] New Well [] Deepening [] Conversion
[] Alteration (complete 2a & 10) [] Abandonment (complete 5a)

(2a) PRE-ALTERATION
Dia + From To Gauge Stil Plstc Wld Thrd
Casing: [] [] [] [] [] [] [] []
Material From To Amt sacks/lbs
Seal: [] [] [] [] [] [] [] []

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

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

(5) BORE HOLE CONSTRUCTION
Special Standard [] (Attach copy)
Depth of Completed Well 1126 ft.
BORE HOLE
Dia From To Material From To Amt sacks/lbs

How was seal placed: Method [X] A [] B [X] C [] D [] E
Backfill placed from 1126 ft. to 1128 ft. Material slough
Filter pack from ft. to ft. Material Size
Explosives used: [] Yes Type Amount

(5a) ABANDONMENT USING UNHYDRATED BENTONITE
Proposed Amount Pounds Actual Amount Pounds

(6) CASING/LINER
Casing Liner Dia + From To Gauge Stil Plstc Wld Thrd
Shoe [] Inside [X] Outside [] Other Location of shoe(s) 854
Temp casing [] Yes Dia From To

(7) PERFORATIONS/SCREENS
Perforations Method
Screens Type Material
Perf/ Casing/Screen Screen/slot Slot # of Tele/ Screen Liner Dia From To width length slots pipe size

(8) WELL TESTS: Minimum testing time is 1 hour
[X] Pump [] Bailer [] Air [] Flowing Artesian
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
2275 85 65

Temperature 79 °F Lab analysis [] Yes By
Water quality concerns? [] Yes (describe below) TDS amount 182
From To Description Amount Units

(9) LOCATION OF WELL (legal description)
County Morrow Twp 4 N N/S Range 25 E E/W WM
Sec 10 SW 1/4 of the NE 1/4 Tax Lot 100
Tax Map Number 04N25E10 Lot
Lat " or DMS or DD
Long " or DMS or DD
[] Street address of well [X] Nearest address
750 Columbia Ave NE, Boardman, OR 97818

(10) STATIC WATER LEVEL
Date SWL(psi) + SWL(ft)
Existing Well / Pre-Alteration
Completed Well 6/15/18 20
Flowing Artesian? [] Dry Hole? []
WATER BEARING ZONES Depth water was first found 10
SWL Date From To Est Flow SWL(psi) + SWL(ft)

(11) WELL LOG
Ground Elevation
Material From To
See Attached Formation Log
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JUL 05 2018
OWRD
OWRD
Date Started 11/8/17 Completed 6/18/18

(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 1991 Date 6/29/18
Signed Ryan Latta

(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 649 Date 6/29/18
Signed Stephen Pulcinella
Contact Info (optional)

13552

MORR 52462

WATER SUPPLY WELL REPORT -
continuation page

WELL I.D. LABEL#	L128849
START CARD #	212565
ORIGINAL LOG #	

(2a) PRE-ALTERATION

Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

Material	From	To	Amt	sacks/lbs

(5) BORE HOLE CONSTRUCTION

BORE HOLE			SEAL			sacks/ lbs
Dia	From	To	Material	From	To	
16	856	1128				
						Calculated
						Calculated
						Calculated
						Calculated

FILTER PACK

From	To	Material	Size

(6) CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

(7) PERFORATIONS/SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrm/slot width	Slot length	# of slots	Tele/ pipe size

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

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(10) STATIC WATER LEVEL

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(11) WELL LOG

Material	From	To

Comments/Remarks

*grout outside 24" casing

MORR 52462

**Port of Morrow Well 5A
SC #212565 - Well Tag ID # L128849
Formation Log
by Schneider Water Services**

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<u>FM</u>	<u>TO</u>	<u>DESCRIPTION</u>	
0	9	Soil, brown, sandy, silty	
9	35	Gravel, 8" minus & sand, brown, coarse	
35	45	Clay, brown, medium w/gravel, 6" minus	
45	59	Clay, grey, medium w/gravel, 6" minus	
59	78	Basalt, grey, medium w/claystone lenses, green & grey, soft-medium	
78	82	Basalt, black, medium soft	
82	83	Basalt, black, soft w/claystone, green, soft	
83	93	Basalt, medium soft, fractured w/claystone, green, medium-soft & gravel, multicolored	
93	122	Basalt, soft-hard, fractured w/claystone, green, medium-soft & gravel, multicolored	
122	139	Basalt, multicolored, broken, vesicular	
139	275	Basalt, grey, hard	
275	285	Basalt, grey, black-brown-green, fractured, broken	
285	290	Claystone, green w/basalt, grey, black & green, broken	
290	338	Claystone, green	
338	355	Claystone, green, soft w/basalt, black	
355	470	Basalt, black & dark grey, hard	
470	483	Clay, blue green, hard, w/basalt, black, medium	
483	488	Basalt, dark grey, hard, occasional pyrite	
488	489	Basalt, black, medium-soft	
489	492	Sand, black, medium	
492	496	Clay, green, soft, silty	
496	505	Claystone, green, hard w/basalt, black, weathered, broken	
505	532	Sandstone, grey & green	RECEIVED
532	542	Claystone, green, medium-hard	JUL 05 2018
542	545	Basalt, black, medium, fractured, broken, vesicular	OWRD
545	552	Basalt, dark grey, medium-hard, fractured	
552	643	Basalt, grey, hard, some fractures	
643	647	Basalt, black, fractured & broken, some vesicles & clay green, medium-hard	
647	650	Basalt, black, fractured, broken w/wood, hard, semi-petrified w/clay, brown, soft & claystone, tan, hard	
650	651	Clay, multicolored, medium	
651	660	Clay, green, medium, soft	
660	667	Clay, green, hard	
667	675	Clay, whitish green, soft w/basalt, black, broken	
675	712	Basalt, black & brown, broken & fractured w/colored minerals (brown and green), some vesicles	
712	718	Basalt, brown & some grey, broken, fractured, weathered, some vesicles	

MORR 52462

**Port of Morrow Well 5A
SC #212565 - Well Tag ID # L128849
Formation Log
by Schneider Water Services**

<u>FM</u>	<u>TO</u>	<u>DESCRIPTION</u>
718	721	Basalt, grey & some brown, medium, fractured, broken w/brown mineral stain, some vesicles
721	760	Basalt, dark grey, fractured, hard
760	765	Basalt, dark grey to black, medium hard, some fractures
765	769	Basalt, black & red, medium-soft, fractured, broken, some vesicles
769	775	Basalt, black, medium, fractured
775	812	Basalt, grey, medium-hard, some fractures
812	818	Basalt, greenish grey, medium, fractured, vesicular, some brown and red stains
818	824	Basalt, dark grey, and brown, medium, vesicular, fractured, weathered
824	834	Basalt, dark grey, medium vesicular, fractured, some weathered
834	837	Basalt, dark grey, medium hard, occ fractures
837	976	Basalt, dark grey, hard, some fractures
976	984	Basalt, black, medium, vesicular
984	989	Basalt, black, medium, some fractures
989	1017	Basalt, grey, hard
1017	1021	Basalt, black, med, fractured, broken, some vesicles
1021	1026	Basalt, dark grey, hard
1026	1031	Basalt, black, broken, vesicular
1031	1039	Basalt, dark grey, hard, some fractures
1039	1051	Basalt, dark grey, hard
1051	1069	Basalt, black, weathered, broken, vesicular
1069	1078	Basalt, grey, hard, fractured
1078	1089	Basalt, grey, hard
1089	1108	Basalt, black w/brown, fractured, broken, occ vesicles, some weathered
1108	1114	Basalt, grey, hard, occ fractures
1114	1128	Basalt, dark grey, medium hard, some fractures

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STATE OF OREGON

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4N/25E/10aa

WATER WELL REPORT
(as required by ORS 537.765)

WATER RESOURCES DEPT. (START CARD) # 19829

MORROW
1526

(1) OWNER: Well Number: 4 SALEM, OREGON
Name Port of Morrow
Address PO Box 200
City Boardman State OR Zip 97818

(9) LOCATION OF WELL by legal description:
County Morrow Latitude Longitude
Township 4N N or S, Range 25E E or W, WM.
Section 10 NE 1/4 NE 1/4
Tax Lot Lot Block Subdivision
Street Address of Well (or nearest address)

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

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable
 Other Reverse Circulation Air Rotary

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

(10) STATIC WATER LEVEL:
ft. below land surface. Date
Artesian pressure 18 lb. per square inch. Date 2/1/91

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No
Explosives used Yes No Type Amount

(11) WATER BEARING ZONES:
Depth at which water was first found 7

From	To	Estimated Flow Rate	SWL
677	900	see (8)	see (10)
7	33	unknown	7

May be others between above zones

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

24	0	57	cement	0	650	270 sacks
20+	57	650				
16	650	682				
15	682	900				

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

(12) WELL LOG: Ground elevation approx. 272

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 18	+4.5	650	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16	638	682	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
24	37	57	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 12*	627	900	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

*except at screens and top 5' balls out to 16"

Final location of shoe(s) 24" @ 57; 18" @ 650

(12) WELL LOG: Material From To SWL

See attached sheet			
Step Test:			
1675 gpm 60' DD after 2.3 hrs			
1970 gpm 76' DD after 5.0 hrs (incl. above)			
2360 gpm 102' DD after 7.5 hrs (incl. above)			
2930 gpm 149' DD after 9.5 hrs (incl. above)			
3490 gpm 197' DD after 11.5 hrs (incl. above)			
DD includes 18 psi shut in plus pumping level.			

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(7) PERFORATIONS/SCREENS:
 Perforations Method factory mill cut
 Screens * Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
677	692	.2x3	360			<input type="checkbox"/>	<input checked="" type="checkbox"/>
*692	717	.150	cont	12	PS	<input type="checkbox"/>	<input type="checkbox"/>
717	774	.2x3	1368			<input type="checkbox"/>	<input checked="" type="checkbox"/>
*774	784	.150	cont	12	PS	<input type="checkbox"/>	<input type="checkbox"/>
784	818	.2x3	816			<input type="checkbox"/>	<input checked="" type="checkbox"/>
*818	843	.150	cont	12	PS	<input type="checkbox"/>	<input type="checkbox"/>
843	900	.2x3	1368			<input type="checkbox"/>	<input checked="" type="checkbox"/>

Date started 7/23/90 Completed 2/1/91

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

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.
Signed David Donnelly WWC Number 806 Date 2/1/91

Yield gal/min Drawdown Drill stem at Time
-step test reported in (12) 1 hr.
-24 hour constant rate test on attached graph
-well flows 1500 gpm with approx 2 psi back pressure

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.
Signed Stephen Schneider WWC Number 649 Date 2/1/91

Temperature of water 75° Depth Artesian Flow Found below 650
Was a water analysis done? Yes By whom OWNER
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other
Depth of strata:

Port of Morrow
Well #4

Start Card No. 19829
by Schneider Drilling Co.

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WATER RESOURCES DEPT.
SALEM, OREGON

<u>From</u>	<u>To</u>	<u>Description</u>
0	3	Sand, brown, med w/some gravel
3	8	Gravel 4" minus & sand, med-coarse
8	18	Gravel 10" minus & sand, coarse, some cemented
18	33	Gravel 10" minus & sand, med-coarse, tan
33	39	Gravel 8" minus w/clay, brown
39	56	Gravel 3" minus w/clay, binder, brown
56	57	Basalt, brown, fractured
57	62	Basalt, black, hard
62	80	Basalt, black & grey, hard
80	83	Basalt, black & grey, hard, some fractures
83	88	Basalt, brown, med
88	91	Basalt, brown, soft
91	101	Clay, brown, soft
101	111	Clay, grey-blue, soft
111	128	Clay, greenish blue w/brown rock & claystone
128	133	Basalt, black & grey, vesicular
133	136	Basalt, red & brown, vesicular
136	139	Basalt, grey & brown, med
139	150	Basalt, grey, hard
150	153	Basalt, multi-color: brown, black, grey, hard
153	182	Basalt, grey, hard
182	188	Basalt, mostly grey, some brown & red, hard
188	278	Basalt, grey, hard
278	283	Basalt, grey & black, med
283	290	Basalt, green & purple, soft
290	339	Clay, green w/black rock
339	345	Claystone, blueish green
345	371	Basalt, black w/blue clay & claystone
371	381	Basalt, black
381	499	Basalt, grey, hard
499	514	Clay, green w/some rock, black
514	521	Clay, greyish brown
521	552	Clay, blueish green w/claystone, blueish green
552	569	Basalt, grey, med
569	571	Basalt, grey, med to hard
571	622	Basalt, grey, hard
622	652	Basalt, grey, hard, fractured
652	677	Clay, multi-color, green, brown w/some basalt, black
677	696	Basalt, black, vesicular w/green clay
696	706	Basalt, black, vesicular w/quartz
706	712	Basalt, multi-color, broken, vesicular
712	716	Basalt, black fractures w/vesicular basalt
716	724	Basalt, grey & black, fractures
724	766	Basalt, grey, very fractured, hard
766	775	Basalt, black, med, fractured
775	782	Basalt, black & red, vesicular, soft
782	785	Basalt, black, fractured
785	807	Basalt, red, fractured, stained & black basalt
807	822	Basalt, black, fractured
822	835	Basalt, red & black vesicular, very, very soft
835	845	Basalt, black & red, much harder, fractured
845	867	Basalt, black, some fractures, med
867	885	Basalt, black, fractured
885	900	Basalt, gray, some fractures

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

WATER WELL REPORT

RECEIVED

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

STATE OF OREGON

MAY 1 1978

State Well No.

4N/25E-10CC

(Please type or print)

State Permit No.

MORROW 752

Port Well 1

(1) OWNER:

Name Port Of Morrow
Address Boardman, 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

CASING INSTALLED:

Threaded Welded
6" Diam. from +1 ft. to 75 ft. Gage 250
12" Diam. from +1-6" ft. to 535 ft. Gage 330

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? Faremore Pump
Yield: 2000+ gal./min. with 3 ft. drawdown after 6 1/2 hrs.
Bailer test 1500 gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow 1500 g.p.m.
Temperature of water 78 Depth artesian flow encountered 680 ft.

(9) CONSTRUCTION:

Well seal—Material used Cement Grout
Well sealed from land surface to 75 ft.
Diameter of well bore to bottom of seal 20 in.
Diameter of well bore below seal 16" to 535, 10" to 685
Number of sacks of cement used in well seal 130 sacks
How was cement grout placed? Western Power Grouter

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 Morrow Driller's well number _____
S.W. 1/4 SW 1/4 Section 10 T. 4N R. 25E W.M.
Bearing and distance from section or subdivision corner _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found 8 ft.
Static level Flowing ft. below land surface. Date 2/9/78
Artesian pressure 35 lbs. per square inch. Date 2/9/78

(12) WELL LOG:

Diameter of well below casing 10"
Depth drilled 685 ft. Depth of completed well 685 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
Sand & gravel grey	0	3	
Sand & Boulders grey	3	39	
Med Hard broken Basalt grey	39	41	
Hard Basalt grey	41	140	
Med Basalt brn.	140	151	
Hard Basalt grey	151	186	
Med Basalt porous brn.	186	198	
Hard Basalt grey	198	309	
Hard broken Basalt blk.	309	322	
Hard Basalt grey	322	474	
Med Porous Basalt blk.	474	529	
Hard Basalt grey	529	670	
Med Sandstone brn W.B.	670	685	

Test pumping was delayed so long by Faremore Pump because of artesian conditions. Completed 4/19/78

Work started 7/27/77 19 Completed 2/9/78 19
Date well drilling machine moved off of well 2/9/78 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] Charles E. Stadeli Date 4/29/78, 19____
(Drilling Machine Operator)

Drilling Machine Operator's License No. 84

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 Stadeli Drilling CO (Type or print)
(Person, firm or corporation)

Address Mt Angel, Or.

[Signed] Charles E. Stadeli (Water Well Contractor)

Contractor's License No. 519 Date 4/29/78, 19____

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TO WATER WELL CONTRACTOR
The original and best copy
of this report shall be
filed with the

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

RECEIVED WATER WELL REPORT

STATE OF OREGON JAN 9 1975
(Please type or print)
STATE ENGINEER
SALEM, OREGON

State Well No. 4N/25E-10ba
State Permit No. _____
Port Well 2 #1

MORROW 750

1) OWNER:

Name PORT OF MORROW
Address NO 1 MARINE DRIVE
BOARDMAN ORE. 97818

(10) LOCATION OF WELL:

County MORROW Driller's well number 5489
NE 1/4 NW 1/4 Section 10 T. 4N R. 25E W.M.
Bearing and distance from section or subdivision corner

(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

(11) WATER LEVEL: Completed well.

Depth at which water was first found 443 ft.
Static level 8 ft. below land surface. Date 12/20/74
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 12
Depth drilled 560 ft. Depth of completed well 560 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
<u>SEE ATTACHED SHEET</u>			
<u>RECEIVED</u>			
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CASING INSTALLED:

Threaded Welded
16" Diam. from 0 ft. to 72 ft. Gage 312
12" Diam. from +2 ft. to 437 ft. Gage 330
" Diam. from _____ ft. to _____ ft. Gage _____

PERFORATIONS:

Perforated? Yes No.

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? STRASSER
Yield: 970 gal./min. with 177 ft. drawdown after 24 hrs.
" " " " " "
" " " " " "
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow _____ g.p.m.

Temperature of water 70° Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used GRANULAR BENTONITE TO 40 FT. CEMENT GROUT
Well sealed from land surface to 40 TO 86 AND 427-435 ft.
Diameter of well bore to bottom of seal 16 AND 20 IN
Diameter of well bore below seal 12 in.
Number of sacks of cement used in well seal 55 sacks
Number of sacks of bentonite used in well seal 9 sacks
Brand name of bentonite NATIONAL
Number of pounds of bentonite per 100 gallons of water PUT IN DRY GRANULAR lbs./100 gals.
Was a drive shoe used? Yes No Plugs _____ Size: location _____ ft.
Did any strata contain unusable water? Yes No
Type of water? ALKALI depth of strata 42
Method of sealing strata off CASING AND CEMENT
Was well gravel packed? Yes No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

Work started SEPT 10 1974 Completed DEC 20 1974
Date well drilling machine moved off of well DEC 23 1974

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] [Signature] Date 12/30, 1974
(Drilling Machine Operator)
Drilling Machine Operator's License No. 57

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 RJ STRASSER DRILLING CO
(Person, firm or corporation) (Type or print)
Address 8110 SE SUNSET LANE PORTLAND, ORE
[Signed] [Signature]
(Water Well Contractor)
Contractor's License No. 10 Date DEC 30, 1974

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R. J. Strasser Drilling Co.

8110 S. E. Sunset Lane
 Portland, Oregon 97206
 January 1, 1974

Log of well for Port of Morrow

sand and gravel	0 - 5
sand and boulders, some binder	5 - 20
loose sand and gravel	20 - 42
broken rock	42 - 44
medium hard black basalt	44 - 50
hard grey basalt	50 - 98
porous black basalt	98 - 108
green clay	108 - 142
porous brown basalt	142 - 154
porous black basalt	154 - 175
medium hard grey basalt	175 - 190
porous brown basalt	190 - 201
hard grey basalt	201 - 311
broken black basalt	311 - 320
green clay	320 - 402
green sandy clay	402 - 422
medium hard black basalt	422 - 426
broken black basalt	426 - 432
medium hard black basalt	432 - 443
porous black basalt	443 - 475
medium hard black basalt	475 - 483
porous black and brown basalt	483 - 501
medium hard black basalt	501 - 533
porous black basalt	533 - 550
green clay and shale	550 - 560



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October 30, 2020

Kelly Starnes
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301

Re: Transfer Application for Certificate 90019

Dear Mr. Starnes:

GSI Water Solutions, Inc. (GSI), is submitting the enclosed transfer application on behalf of the Port of Morrow. Due to an error during the certification of Certificate 90019 and multiple other Port water rights at the same time, the point of appropriation location description on the certificate points to Port Well 3 (MORR 757) instead of Port Well 2 (MORR 756). Both of these wells are located within the same building, and are separated by only 30 feet. This transfer application corrects the name and location description for the existing point of appropriation to reflect the actual Port Well 2, which has always been at this location. The Port of Morrow is also proposing to add four (4) additional points of appropriation to this right which would all be completed in the same aquifer as Port Well 2.

The Port requests that the C-date for this transfer application be made October 1, 2029, which will allow the Port sufficient time to finalize the future well locations, develop the funding through their master planning process, and then drill the well (takes up to 7 months per well - depending upon the depth).

The transfer application and a check in the amount of \$1,570.00 for the application fee are enclosed. If you have any questions regarding this application, please contact me at 971-200-8519.

Sincerely,

A handwritten signature in blue ink that reads "Bruce Brody-Heine". The signature is written in a cursive, flowing style.

Bruce Brody-Heine

CC: Miff Devin, Port of Morrow

Enclosures: Transfer Application
Check in the amount of \$1,570

13552