

STATE OF OREGON
WATER SUPPLY WELL REPORT

MORR 52764

WELL I.D. LABEL# L 149371
START CARD # 1058470
ORIGINAL LOG #

(as required by ORS 537.545 & 537.765 and OAR 690-205-0210)

(1) LAND OWNER
Owner Well I.D. Well 6
First Name Last Name
Company Port of Morrow
Address 2 Marine Drive
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
Casing: Dia From To Gauge Stl Plstc Wld Thrd
Seal: Material From To Amt sacks/lbs

(3) DRILL METHOD
[X] Rotary Air [] Rotary Mud [] 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 [X] (Attach copy)
Depth of Completed Well 702 ft.
BORE HOLE
Dia From To Material From To Amt sacks/lbs

How was seal placed: Method [] A [X] B [X] C [] D [] E
Backfill placed from 251 ft. to 315 ft. Material Bent chips/gravel
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 Stl Plstc Wld Thrd
Shoe [] Inside [X] Outside [] Other Location of shoe(s) 702
Temp casing [] Yes Dia 20 From + [X] 2 To 48

(7) PERFORATIONS/SCREENS
Perforations Method
Screens Type V-Wire Material 304 SS
Perf/S Casing/ Screen Dia From To Scrn/slot Slot # of Tel/
creen 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)
1,300 82 450 72
Temperature 70 °F Lab analysis [X] Yes By Client

Water quality concerns? [] Yes (describe below) TDS amount 200 mg/L
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 2 SW 1/4 of the SW 1/4 Tax Lot 100
Tax Map Number Lot
Lat ° ' " or 45.852467 DMS or DD
Long ° ' " or -119.664674 DMS or DD
[] Street address of well [X] Nearest address
71449 RAIL LOOP DRIVE Boardman OR 97818

(10) STATIC WATER LEVEL
Table with columns: Existing Well / Pre-Alteration, Completed Well, Date, SWL(psi), SWL(ft)
Rows: 12-10-2022, 274; 12-10-2022, 274

(11) WELL LOG
Ground Elevation 289
Table with columns: Material, From, To
Rows: See Attached Formation Log, RECEIVED, JAN 11 2023, OWRD

Date Started 09-20-2022 Completed 12-10-2022
(bonded) 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 2040 Date 01-10-2022
Signed [Signature]

(bonded) Water Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
License Number 1523 Date 01-10-2023
Signed [Signature]
Contact Info (optional)

ORIGINAL - WATER RESOURCES DEPARTMENT

MORR 52764



10621 Todd Road East
Edgewood, WA 98372
253 604-4878

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Well Name: Port of Morrow Well #6 Production Well

Start Card/Permit #: 1058470

Label #: 149371

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Material Description	From:	To:
Sand and Gravel Med	0	15
Sand Med (Hit water at 30 feet)	15	34
Sand Fine and Gravels up to 3"	34	48
Basalt Black	48	95
Basalt Weathered W/Brown Claystone some Quartz and Sand	95	115
Brown Clay W/Some Pumice	115	117
Blue Clay	117	137
Weathered Basalt and Pumice	137	147
Cinders Red and Blue	147	150
Weathered Basalt	150	160
Basalt Black	160	172
Basalt Fractured/Loose	172	180
Basalt Black Fractured	180	212
Basalt Black Hard	212	225
Basalt Fractured	225	226
Basalt Black	226	235
Basalt Fractured	235	257
Basalt Black Med	257	304
Claystone Green	304	355
Green Clay w/Weathered Basalt	355	382
Basalt Weathered Vesicular	382	395
Basalt Soft	395	412
Claystone Green w/Basalt	412	420
Basalt Fractured and Some Weathering	420	448
Claystone Green w/Basalt Mostly Basalt at 462	448	465
Basalt w/Claystone Filled Fractures	462	510
Basalt Brown Vesicular	510	515
Basalt Fractured	515	524
Basalt Fractured w/Green Claystone	524	540
Same as Above With More Gray and Blue Claystone	540	555
Blue Clay w/Some basalt	555	565
Blue Clay w/Fine Sand	565	580
Blue Clay w/Fine Sand Some Rock Present	580	593
Basalt Dark Gray Med w/Minimal Blue Clay	593	610
Basalt Dark Gray Hard w/Minimal Blue Clay	610	650
Blue Clay w/ Basalt and Fine to Course Sands @ 650 Sample Only	650	670
Basalt Dark Gray Hard w/ Blue Clay Present	670	701
Light Brownish Gray Clay Very Soft	701	704



December 19, 2022

ROBERT STADELI WWC/MWC #1523
HOLT SERVICES
12305 NW 56TH STREET
VANCOUVER, WA 98682

FINAL ORDER

Dear Mr. Stadel:

The Special Standards Request Form you submitted for owner: Port of Morrow, Start Card number 1058470, is hereby approved for the following: You may construct this well, using bentonite and gravel to fill the void space, as described on your Special Standards Request Form dated December 19, 2022, with a couple of stipulations as described below:

-If no clay interval is found, the upper seal shall be placed according Oregon Administrative Rule (OAR) 690-210-0130. If a clay interval is found the upper seal shall be placed according to OAR 690-210-0150 (1)(c) Method 3 (Under-Reaming).

-The lower split seal shall be placed according to OAR 690-210-0150 (1)(c) Method 3 (Under-Reaming).

All other well construction standards must be adhered to. A copy of your Special Standards Request Form is enclosed.

Verbal approval of this Special Standards Request was provided on October 27, 2022.

The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.

If you have any questions regarding this letter, I may be contacted at (503) 302-8618, or by e-mail at tommy.k.laird@water.oregon.gov.

Sincerely,

Tommy Laird
Well Construction Program Coordinator
Oregon Water Resources Department

enclosure

cc: Shaun Finn, Well Inspector, North Central Region

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This is a FINAL ORDER other than contested case. This final order is subject to judicial review under ORS 183.484. Any petition for judicial review of the final order must be filed within the time specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or 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.



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

Special Standards
Request Form

REQUEST FOR WRITTEN APPROVAL TO USE CONSTRUCTION METHODS NOT INCLUDED IN OREGON ADMINISTRATIVE RULES 690-200 THROUGH 690-240

Before the request can be considered, this form must be completed. Requests shall be submitted to the Well Construction Program Coordinator, Water Resources Department, 725 Summer Street NE, Suite A, Salem OR 97301-1266. Requests may also be considered by the appropriate Regional Manager.

Date of request: 12/19/22 Oral approval date (if applicable): 10/27/2022

Bonded Well Constructor (name, license #, and mailing address): Robert Stadel
1523 12305 NE 56th Street Vancouver, WA 98682

(1) Location of Well: SW 1/4 SW 1/4 Tax lot 100 Section 2, Township 4 N, Range 25 E, Morrow County
Address at well site: 71449 Rail Loop Drive

(2) Start Card Number(s)(for work to be done): 1058470

(3) Name and Address of Land Owner: Port of Morrow 2 Marine Dr Boardman, OR 97818

(4) Distance to the nearest septic tank, drainfield, closed sewage line (if water supply well)
Nothing in the area

(5) The unusual site conditions which necessitate this request: Caved and void zone in the Selah inner bed interval requiring split seal

(6) The proposed construction methods that the bonded well constructor believes will be adequate for this well: (attach additional pages if needed)
Install split seal utilizing bentonite chips and crushed gravel in void zone

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- (7) Diagram showing the pertinent features of the proposed well design and construction:
(attach additional pages if needed)

See attached

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PLEASE NOTE:

- (1) The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.
- (2) If it should be determined at some future date that the well, due to its construction, is allowing ground water contamination, waste or loss of artesian pressure, the undersigned shall return to the site and rectify the problem.
- (3) If oral approval was granted, a written request must be submitted to the Department either within three (3) working days of the date of oral approval or prior to the completion of the associated well work. Failure to submit a written request as described above may void prior oral approval.

I have read and understand the above information. I further attest that the information provided is accurate to the best of my knowledge.



Bonded Constructor Signature: _____

Port of Morrow Well 6 Special Standard Seal Construction Diagram. SC 1058470

