

Approved:



MEMO

To: Kristopher Byrd, Well Construction Manager
From: Tommy Laird, Well Construction Program Coordinator
Subject: Review of Water Right Application G-19281
Date: October 23, 2024

The attached application was forwarded to the Well Construction Section by the Groundwater Section. Andrew Wentworth and Travis Brown reviewed the application. Please see Andrew's and Travis' Groundwater Review and the Well Reports.

Applicant's Well #1 (MARI 3357): Based on a review of the Well Report, Well #1 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The problem is that according to the Water Supply Well Report, the well is not sealed to the proper depth and the well head is flush with land surface. In order to meet minimum construction standards, the well must be resealed with an approved grout to a minimum depth of 40 feet bgs, and the well head must be extended so that it is at least one-foot above land surface.

My recommendation is that the Department not issue a permit for Well #1 unless it is brought into compliance with current minimum well construction standards or information is provided showing that it is constructed to meet current minimum well construction standards.

The construction of Well #1 may not satisfy hydraulic connection issues.

Applicant's Well #2 (MARI 3334): Based on a review of the Well Report, Applicant's Well #2 seems to protect the groundwater resource.

The construction of Well #2 may not satisfy hydraulic connection issues.

Applicant's Well #3 (MARI 3675): Based on a review of the Well Report, Well #3 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The problem is that according to the Water Supply Well Report, the well is not sealed to the proper depth, or sealed with an approved grout. In addition, the well head is flush with land surface. In order to meet minimum construction standards, the well must be resealed with an approved grout to a minimum depth of 58 feet bgs, and the well head must be extended so that it is at least one-foot above land surface.

My recommendation is that the Department not issue a permit for Well #3 unless it is brought into compliance with current minimum well construction standards or information is provided showing that it is constructed to meet current minimum well construction standards.

The construction of Well #3 may not satisfy hydraulic connection issues.

WATER WELL REPORT
STATE OF OREGON

3334
MARI....

RECEIVED

State Well No. 6511w-25cd

APR 6 1983

State Permit No. _____

PLEASE TYPE or PRINT IN INK
WATER RESOURCES DEPT.

SALEM, OREGON
(10) LOCATION OF WELL:

(1) OWNER:

Name Ben Eckley
Address 5885 Rowena River Rd.
City The Dalles State OR 97058

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Air Driven Domestic Industrial Municipal
Rotary Mud Dug Irrigation Test Well Other
 Bored Thermal: Withdrawal Reinjection

(4) PROPOSED USE (check):

(5) CASING INSTALLED:

Steel Plastic
Threaded Welded
6" Diam. from +1 ft. to 19 ft. Gauge .250

LINER INSTALLED:

4 1/2" Diam. from 0 ft. to 275 ft. Gauge 160 lb. test

(6) PERFORATIONS:

Perforated? Yes No
Type of perforator used Portable electric circular saw
Size of perforations 1/8 in. by 6 in.
96 perforations from 195 ft. to 275 ft.

(7) SCREENS:

Well screen installed? Yes No
Manufacturer's Name _____ Model No. _____
Type _____ 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?
Air test 33 gal./min. with drill stem at 274 ft. 1 hrs.
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow _____ g.p.m.
Temperature of water _____ Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Special standards: Yes No
Well seal—Material used Cement
Well sealed from land surface to 19 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 15 sacks
How was cement grout placed? Pressure grouted.
Was pump installed? No Type _____ HP _____ Depth _____ ft.
Was a drive shoe used? Yes No Plugs _____ Size: location _____ ft.
Did any strata contain unusable water? Yes No
Type of Water? _____ depth of strata _____
Method of sealing strata off _____
Was well gravel packed? Yes No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

County Marion Driller's well number _____
S.E. 1/4 S.W. 1/4 Section 25 T. 6 S R. 1 W W.M.
Tax Lot # _____ Lot _____ Blk _____ Subdivision _____
Address at well location: 6138 Cascade Highway NE
Silverton, OR 97381

(11) WATER LEVEL: Completed well.

Depth at which water was first found 2 29 ft.
Static level 203 ft. below land surface. Date 3-21-83
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 6"
Depth drilled 275 ft. Depth of completed well 275 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 & boulders	0	1	
Boulders & broken rock	1	14	
Basalt grey hard	14	57	
Basalt black	57	60	
Claystone grey soft	60	74	
Claystone br own soft	74	79	
Sandstone grey medium hard	79	85	
Sandstone grey hard	85	134	
Basalt grey hard	134	216	
Sandstone grey with occasional green streaks	216	227	
Basalt grey hard-water bearing	227	275	203

Work started 3-16-83 19 Completed 3-21-83 19
Date well drilling machine moved off of well 3-21-83 19

(unbonded) Water Well Constructor Certification (if applicable):

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Ben Stadel Date 3-24, 1983

Bonded Water Well Constructor Certification:

Bond 400GE 5995 Issued by: ST. Paul Fire & Marine Ins
(number) Surety Company Name

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

Name R. Stadel & Sons, Inc.
(Person, firm or corporation) (Type or print)

Address 11364 Evergreen Rd NE Silverton, OR

[Signed] Paul R. Stadel
Water Well Constructor Date 3-25, 1983

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

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

SP*45292-690

