

Approved:



MEMO

To: Kristopher Byrd, Well Construction Manager
From: Tommy Laird, Well Construction Program Coordinator
Subject: Review of Water Right Application G-19344
Date: February 26, 2025

The attached application was forwarded to the Well Construction Section by the Groundwater Section. Dennis Orłowski reviewed the application. Please see Dennis' Groundwater Review and the Well Reports.

Applicant's Well #1 (MARI 1599): 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 the Water Supply Well Report indicates that not enough seal material was used to seal the well and that the well head is flush with land surface. In order to meet minimum construction standards, the well must be resealed with an approved grout and the well head must be 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 repair of Well #1 may not satisfy hydraulic connection issues.

Applicant's Well #2 (MARI 70617): 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.

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

~~(Do not write above this line)~~ SALE

PORT
JULY 1972

State Permit No.

5S/1W-6 ab

G5986

Address Rte Box 244 Woodburn, Oregon

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

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

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

***** perforations from ***** ft. to ***** ft.

Diam. Slot size Set from ft. to ft.

Temperature of water _____ Depth artesian flow encountered ft.

Gravel placed from ft. to ft.

Bearing and distance from section or subdivision corner

Artesian pressure _____ lbs. per square inch. Date _____

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.

[illegible]

Contractor's License No. 277 Date December 4, 1972

SP*45656-119

STATE OF OREGON
WATER SUPPLY WELL REPORT

MARI 70617

WELL I.D. LABEL# L

144157

START CARD #

1055134

ORIGINAL LOG #

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

10/17/2022

(1) LAND OWNER

Owner Well I.D. _____

First Name BRENT

Last Name NELSON

Company BRENT NELSON FAMILY LLC

Address 17280 BOONES FERRY RD,

City WOODBURN State OR Zip 97071

(2) TYPE OF WORK

☒ New Well ☐ Deepening ☐ Conversion

☐ Alteration (complete 2a & 10) ☐ Abandonment (complete 5a)

(2a) PRE-ALTERATION

Casing:

Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

Material From To Amt sacks/lbs
Seal:

Material	From	To	Amt	sacks/lbs

(3) DRILL METHOD

☐ Rotary Air ☐ Rotary Mud ☒ Cable ☐ Auger ☐ Cable Mud
☐ Reverse Rotary ☐ Other _____

(4) PROPOSED USE

☐ Domestic ☒ Irrigation ☐ Community

☐ Industrial/ Commercial ☐ Livestock ☐ Dewatering

☐ Thermal ☐ Injection ☐ Other _____

(5) BORE HOLE CONSTRUCTION

Special Standard ☐ (Attach copy)

Depth of Completed Well 327.50 ft.

BORE HOLE			SEAL			sacks/	
Dia	From	To	Material	From	To	Amt	lbs
20	0	37	Bentonite Chips	0	37	53	S
16	37	341				Calculated	46
						Calculated	

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E

☒ Other OAR 690-210-0340

Backfill placed from 327.5 ft. to 341 ft. Material CEMENT

Filter pack from 247.5 ft. to 327.5 ft. Material GRAVEL Size 1/4-10

Explosives used: ☐ Yes Type _____ Amount _____

(5a) ABANDONMENT USING UNHYDRATED BENTONITE

Proposed Amount

Actual Amount

(6) CASING/LINER

Casing Liner

Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

Shoe ☐ Inside ☒ Outside ☐ Other Location of shoe(s) 267.33
Temp casing ☐ Yes Dia From + ☐ To

(7) PERFORATIONS/SCREENS

Perforations Method _____

Screens Type V WIRE

Material Stainless

Perf/ Screen	Casing/ Liner	Dia	From	To	Scrn/slot width	Slot length	# of slots	Tele/ pipe size
Screen	Casing	12	269.91	277.5	.1			
Screen	Casing	12	277.5	301	.25			

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

☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
1000	149	228	5

Temperature 54 °F Lab analysis ☐ Yes By _____

Water quality concerns? ☐ Yes (describe below) TDS amount 109 ppm

From	To	Description	Amount	Units

(9) LOCATION OF WELL (legal description)

County MARION Twp 5.00 S N/S Range 1.00 W E/W WM

Sec 6 NW 1/4 of the NE 1/4 Tax Lot 200

Tax Map Number _____ Lot _____

Lat _____ " or 45.16990898 DMS or DD

Long _____ " or -122.85502827 DMS or DD

☒ Street address of well ☐ Nearest address

17091 BOONES FERRY RD, WOODBURN, OREGON

(10) STATIC WATER LEVEL

	Date	SWL (psi)	+	SWL (ft)
Existing Well / Pre-Alteration				
Completed Well	9/30/2022			98
Flowing Artesian?	<input type="checkbox"/>			
Dry Hole?	<input type="checkbox"/>			

WATER BEARING ZONES

Depth water was first found 133.50

SWL Date	From	To	Est Flow	SWL (psi)	+	SWL (ft)
3/2/2022	133.5	136				46
3/10/2022	176	208				47
3/14/2022	212	214				47
4/19/2022	263	300.5				51

(11) WELL LOG

Ground Elevation _____

Material	From	To
Topsoil	0	1
Clay, brown, medium	1	12
Clay, Greenish gray, hard	12	18
Clay dark greenish gray, medium, sticky	18	53
Silt, dark greenish gray, Sandy	53	55
Silt, dark greenish gray, medium	55	58
Clay, Greenish gray, medium, sticky	58	92
Clay, gray, hard, sticky	92	94
Silt, gray, Sandy, hard	94	103
Clay, olive gray, Sandy, hard	103	109
Clay bound sand and gravel, gray	109	133.5
Sand and gravel, loose, black	133.5	136
Clay, greenish gray, hard, sticky	136	145
Clay, Dark gray, medium, sticky	145	152
Clay, brown, medium	152	160
Clay, gray, hard, sticky	160	164
Clay, greenish gray, hard, sticky	164	176
Silt, dark greenish gray, Sandy	176	183
Sand, black, fine, greenish gray silt	183	190

Date Started 2/16/2022

Completed 9/30/2022

(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 1704

Date 10/16/2022

Signed LARRY AMOS (E-filed)

(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 783

Date 10/17/2022

Signed IVAN GROSSEN (E-filed)

Contact Info (optional) _____

ORIGINAL - WATER RESOURCES DEPARTMENT

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version:

New exempt use wells must be submitted with a map and recording fee.

Comments/Remarks

WATER SUPPLY WELL REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow

MARI 70617

10/17/2022

Map of Hole

