

Approved:



# MEMO

**To:** Kristopher Byrd, Well Construction Manager  
**From:** Tommy Laird, Well Construction Program Coordinator  
**Subject:** Review of Water Right Application G-19328  
**Date:** March 5, 2025

The attached application was forwarded to the Well Construction Section by the Groundwater Section. Gabriela Ferreira reviewed the application. Please see Gabriela's Groundwater Review and the Well Report.

Applicant's Well #Well 1 (MARI 7668): Based on a review of the Well Report and on a discussion with the Groundwater Section, Well 1 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The problem is that the Well Report indicates the well was not sealed to the proper depth. In order to meet minimum construction standards, the well must be resealed with an approved grout to a minimum depth of 226 feet bgs.

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

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

State Well No. 75/2w-2469  
 State Permit No. G-8614

(1) OWNER:

Name Harold DeVries  
 Address 8434 Delphinium Pl. NE  
Salem, Oregon 97303

(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 ☒  
12" Diam. from plus 1 ft. to 193 ft. Gage 250  
 " Diam. from " ft. to " ft. Gage  
 " 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?  
 Yield: gal./min. with ft. drawdown after hrs.  
 " " " " " "  
 " " " " " "  
 AIR test app. 1000 gal./min. with 145 ft. drawdown after 3 hrs.  
 Artesian flow g.p.m.

(9) CONSTRUCTION:

Well seal—Material used Bentonite (National Brand)  
 Well sealed from land surface to 22 ft.  
 Diameter of well bore to bottom of seal 16 in.  
 Diameter of well bore below seal 12" to 193' & 8" to 330'  
 Number of sacks of Bentonite used in well seal 2 sacks  
 How was Bentonite placed? Gravity

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 Marion Driller's well number  
NE 1/4 NW 1/4 Section 24 T. 7S R. 2W W.M.  
 Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 194 ft.  
 Static level 44 ft. below land surface. Date 11/20/78  
 Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 8"  
 Depth drilled 330 ft. Depth of completed well 330 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
Top Soil	0	1	
Clay Brown	1	56	
Conglomerate Dirty Tight Brown	56	123	
Conglomerate Loose Grey	123	151	
Clay Sticky Blue & Grey	151	186	
Rock Loose Grey	186	193	
Basalt Grey & Green	193	221	WB
Basalt Hard Grey	221	270	
Basalt Medium Green & Brown	270	330	WB

Work started 11/10 19 78 Completed 11/18 19 78  
 Date well drilling machine moved off of well 11/20 19 78

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. Stadel Date 11/27, 19 78  
 (Drilling Machine Operator)

Drilling Machine Operator's License No. 860

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 West Coast Drilling Co., Inc.  
 (Person, firm or corporation) (Type or print)

Address 220 Academy St., Mt. Angel, Oregon 97362

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

Contractor's License No. 519 Date 11/27, 19 78