

Approved:



MEMO

To: Kristopher Byrd, Well Construction Manager
From: Tommy Laird, Well Construction Program Coordinator
Subject: Review of Water Right Application G-19404
Date: March 10, 2025

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

Applicant's Well #1 (MARI 6514): 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 was sealed with an unapproved seal placement method. In order to meet minimum construction standards, the well must be resealed with an approved grout.

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.

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
RECEIVED
STATE OF OREGON
NOV 15 1978

(Please type or print)
(Do not write above this line)

State Well No. 75/2w-366

State Permit No. 9 8521

(1) OWNER:

Name Donald Dunigan
Address 6739 Juniper N.E.
Salem, Or.

SALEM, OREGON LOCATION OF WELL:

County Marion Driller's well number
NW 1/4 NW 1/4 Section 3 T. 75 R. 2W 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 ☐
Cable ☒
Bored ☐

Driven ☐
Jetted ☐
Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒
10" Diam. from 7.1 ft. to 160 ft. Gage .250
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

(6) PERFORATIONS:

Perforated? ☒ Yes ☐ No.

Type of perforator used Mills Knife
Size of perforations 3/8 in. by 2 in.
960 perforations from 9.8 ft. to 158 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?
1: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " " " "
" " " " " "
Bailer test 50 gal./min. with 0 ft. drawdown after 1 hrs.
Artesian flow _____ g.p.m.
Temperature of water 52° Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used Cement Grout.
Well sealed from land surface to 2.5 ft.
Diameter of well bore to bottom of seal 14 in.
Diameter of well bore below seal 10 in.
Number of sacks of cement used in well seal 24 sacks
How was cement grout placed?
Mixed and poured

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.

(11) WATER LEVEL: Completed well.

Depth at which water was first found 81 ft.
Static level 54 ft. below land surface. Date 9/14/78
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing _____

Depth drilled 160 ft. Depth of completed well 160 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, Brown	0	2	
Clay, Brown, Silty	2	23	
Clay, Gray, Silty	23	41	
Clay, Gray, Firm	41	53	
Clay, Gray, Silty, Sandy	53	63	
Sand, Brown, clayey	63	81	
Sand, Brown, w/ Small pebbles	81	83	
Gravels, Small to large w/ Sand	83	94	
Cemented	94	97	
Gravels, Small to large	97	128	
w/ Brown Sand	128	131	
Gravels, Small to Very large	131	160	
Cemented, hard & Tite			
w/ lenses of harder gravels			
Gravels, Small to Very large			
w/ Brown Clay			
Gravels, Small to Very large			
and Cobbles, Cemented			
w/ lenses harder gravels			

Work started 8/23 1978 Completed 9/14 1978
Date well drilling machine moved off of well 9/14 1978

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] Stephen R. McDonald Date 9/14, 1978
(Drilling Machine Operator)
Drilling Machine Operator's License No. 986

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 Bello Well Drilling
(Person, firm or corporation) (Type or print)
Address 4783 Colima Dr. S.E.
[Signed] Karl Bello
(Water Well Contractor)
Contractor's License No. 579 Date 9/14, 1978