

Approved:



MEMO

To: Kristopher Byrd, Well Construction Manager
From: Tommy Laird, Well Construction Program Coordinator
Subject: Review of Water Right Application LL-1958
Date: June 21, 2024

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

Applicant's Well #1 (POLK 1000/POLK 993): 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. In order to meet minimum construction standards, the well must be recased and resealed with an approved grout to a minimum depth of 227 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.

NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

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

RECEIVED WATER WELL REPORT

STATE OF OREGON (Please type or print)

Do not write above this line

State Well No. 6/3w-7

State Permit No. _____

Polk 1000 60912

SEP 20 1967

(1) OWNER:

Name Lloyd Ray
Address Lane Star Rd

(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
6" Diam. from 1 ft. to 28 ft. Gage 280
" 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.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

(7) SCREENS:

Well screen installed? Yes No

Manufacturer's Name _____ Model No. _____
Type _____ Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WATER LEVEL: Completed well.

Static level 72 ft. below land surface Date 8-30-67
Artesian pressure _____ lbs. per square inch Date _____

(9) 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 _____ gal./min. with 138 ft. drawdown after 1 hrs.

Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes No

(10) CONSTRUCTION:

Well seal—Material used Cemented
Depth of seal 27 ft.
Diameter of well bore to bottom of seal 10 in.
Were any loose strata cemented off? Yes No Depth _____
Was a drive shoe used? Yes No
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) LOCATION OF WELL:

County Polk Driller's well number _____
1/4 Section 7 T. G.S.R. 3, 4 W.M. _____
Bearing and distance from section or subdivision corner _____

(12) WELL LOG:

Diameter of well below casing 6

Depth drilled 216 ft. Depth of completed well 216 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 as drilling proceeds. Note drilling rates.

MATERIAL	From	To	SWL
<u>Soil</u>	<u>0</u>	<u>1</u>	
<u>Brown - CLAY</u>	<u>1</u>	<u>3</u>	
<u>" - WEATHERED ROCK</u>	<u>3</u>	<u>28</u>	
<u>BLACK - BASALT</u>	<u>28</u>	<u>30</u>	
<u>" - " WEATHERED</u>	<u>30</u>	<u>40</u>	
<u>" - " BRUIEN</u>	<u>40</u>	<u>44</u>	
<u>RED - ROCK COMPLETELY WEATHERED</u>	<u>44</u>	<u>50</u>	
<u>BROWN - WEATHERED ROCK</u>	<u>50</u>	<u>59</u>	
<u>BLACK - BASALT ROCK</u>	<u>59</u>	<u>83</u>	
<u>PARTLY BRUIEN</u>	<u>83</u>	<u>155</u>	
<u>BLACK - BASALT ROCK</u>	<u>83</u>	<u>155</u>	
<u>" - " HONEYCOMB</u>	<u>155</u>	<u>165</u>	
<u>" - " WEATHERED</u>	<u>165</u>	<u>185</u>	
<u>" - " BRUIEN</u>	<u>185</u>	<u>190</u>	
<u>" - " WEATHERED</u>	<u>190</u>	<u>191</u>	
<u>" - " ROCK</u>	<u>191</u>	<u>216</u>	

Work started 8-28-67 19 _____ Completed 8-30-67 19 _____

Date well drilling machine moved off of well 8-30-67 19 _____

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] Geo. Rubin Date 9-1-67 19 _____
(Drilling Machine Operator)

Drilling Machine Operator's License No. 67

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 Harlan R. Miller - Rubin Son & West
(Person, firm or corporation) (Type or print)

Address 5545 Joseph St. S.E. Salem

[Signed] Harlan R. Miller
(Water Well Contractor)

Contractor's License No. 37 Date 9-1-67 19 _____

TO WATER WELL CONTRACTOR
The original and first copy
of this report are to be
filed with the
STATE ENGINEER, SALEM, OREGON
within 30 days from the date
of well completion.

RECEIVED NC
MAY 25 1973
STATE ENGINEER
SALEM, OREGON
(Please type or print)
(Do not write above this line)

RECEIVED
AUG 27 1973
State Well No. 6S/3W-7
State Permit No. 66912

(1) OWNER:
Name Lloyd RAY
Address Lone Star Rd

(2) TYPE OF WORK (check):
New Well Deepening Reconditioning Abandon
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL: (4) PROPOSED USE (check):
Rotary Driven Domestic Industrial Municipal
Cable Jetted Irrigation Test Well Other
 Bored

(5) CASING INSTALLED: Threaded Welded
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) 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?
gal./min. with ft. drawdown after hrs.
" " " " " "
" " " " " "
Pump test 100 gal./min. with 23 ft. drawdown after 1 hrs.
" " " " " "
" " " " " "
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used
Well sealed from land surface to ft.
Diameter of well bore to bottom of seal in.
Diameter of well bore below seal in.
Number of sacks of cement used in well seal sacks
Number of sacks of bentonite used in well seal sacks
Brand name of bentonite
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
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 Polk Driller's well number
Section 7 T. 6S R. 3W W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found ft.
Static level 23 ft. below land surface. Date 5-17-73
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing 6
Depth drilled 327 ft. Depth of completed well 327 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
BASALT Broken Partly weathered	218	303	
BASALT Broken with Sappentine	303	327	
Deepening			

Work started 5-14 1973 Completed 5-15 1973
Date well drilling machine moved off of well 5-17 1973

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] Harold A. Brandt Date 5-16, 1973
(Drilling Machine Operator)
Drilling Machine Operator's License No. 289

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 Robinson Earth Well Drilling
(Person, firm or corporation) (Type or print)
Address 4510 Dallas Hwy. Salem Oregon
[Signed] George H. Robinson
(Water Well Contractor)
Contractor's License No. 13 Date 5-22, 1973