

Approved:



MEMO

To: Kristopher Byrd, Well Construction Manager
From: Tommy Laird, Well Construction Program Coordinator
Subject: Review of Water Right Application G-19445
Date: May 13, 2025

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

Applicant's Well #Sherwood Basalt W1 (MULT 2198): Based on a review of the Well Report and on the Groundwater Review, Sherwood Basalt W1 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The problem is that according to the Well Report, the well was not sealed to the proper depth and it was sealed with an unapproved grout. Additionally, the well head is indicated as being flush with land surface. In order to meet minimum construction standards, the well must be resealed to the proper depth with an approved grout the well head must be at least one foot above land surface.

My recommendation is that the Department not issue a permit for Sherwood Basalt W1 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 Sherwood Basalt W1 may not satisfy hydraulic connection issues.

Applicant's Well # Sherwood Basalt W2 (Proposed): Sherwood Basalt W2 is a proposed well, therefore it cannot be reviewed for construction. Construction of this proposed well shall be completed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240. During construction of this well, specific attention should be paid to ensure sealing requirements are met and that the well does not commingle aquifers.

The construction of proposed Sherwood Basalt W2 may not satisfy hydraulic connection issues.

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

SEP-4-1969

STATE OF OREGON

(Please type or print)

STATE ENGINEER

STATE ENGINEER

SALEM, OREGON

State Well No.

State Permit No.

MULT 002198

(1) OWNER: (Division of the
Name SHERWOOD NURSERY, 7 D'S Nursery)Address 13020 Rose Park Way N.E.
PORTLAND, OREGON 97230

(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 ☐
Aug ☐ Bored ☐

(4) PROPOSED USE (check):

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

(5) CASING INSTALLED:

Threaded ☐ Welded ☒

10" Diam. from 0 ft. to 630 ft. Gage 250

8" Diam. from 584 ft. to 1014 ft. Gage 250

" Diam. from ft. to ft. Gage

PERFORATIONS: The Perforated? ☒ Yes ☐ No.Type of perforator used Star 4 Way Drive DownSize of perforations 3/8 in. by 1 1/4 in.

120 perforations from 620 ft. to 625 ft.

96 perforations from 563 ft. to 567 ft.

96 perforations from 533 ft. to 537 ft.

192 perforations from 489 ft. to 497 ft.

312 perforations from 456 ft. to 469 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) WATER LEVEL: Completed well.

tic level ft. below land surface Date

Artesian pressure lbs. per square inch Date

(9) WELL TESTS:

Drawdown is amount water level is lowered below static level

as a pump test made? ☐ Yes ☐ No If yes, by whom?

Id: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? ☐ Yes ☐ No

(10) CONSTRUCTION:

Well seal—Material used

Depth of seal ft.

Diameter of well bore to bottom of seal in.

Were any loose strata cemented off? ☐ Yes ☐ No DepthWas a drive shoe used? ☐ Yes ☐ NoDid 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 Multnomah Driller's well number1/4 1/4 Section 16 T. 1S R. R3E W.M.

Bearing and distance from section or subdivision corner

(12) WELL LOG:

Diameter of well below casing

Depth drilled ft. Depth of completed well 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
Top soil	0	2	
Clay, yellow	2	85	
Sand stone, white	85	153	
Clay, gray	153	162	
Clay, gray w/emb.gravel	162	190	
Rock, solid, mdm. hard	190	203	
Clay, gray, hard	203	448	
Gravel, cemented	448	478	Approx 310'
Clay, yellow	478	488	
Sand stone, mdm. hard	488	499	
Clay, yellow	499	510	
Clay, gray	510	533	
Rock, black mdm. hard.	533	539	
Clay, blue	539	562	
Rock, black mdm. hard	562	585	
Clay, blue	585	623	
Rock, black, mdm. hard.	623	635	
Clay, blue	635	642	
Rock, gray	642	668	
Clay, blue	668	798	
Rock, black soft	798	803	
Clay, blue,	803	836	continug

Work started 19 Completed 19

Date well drilling machine moved off of well 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] Stewart N. Brant Date 8/29, 1969
(Drilling Machine Operator)Drilling Machine Operator's License No. 246

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 HAAKON BOTTNER DRILLING COMPANY
(Person, firm or corporation) (Type or print)Address 3424 S.E. 174 AVE. PORTLAND, OREGON[Signed] Haakon Bottner
(Water Well Contractor)Contractor's License No. 109 Date 9/2, 1969

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.

MULT 2198
SHEET NO. 2
WATER WELL REPORT

MULT 2198

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

State Well No. 2
State Permit No. _____

(1) OWNER:

Name SHERWOOD NURSERY (Division of the 7 D's Nursery)
Address 13030 N.E. Rose Park Way
Portland, Oregon 97230

(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 ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☐

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

PERFORATIONS:

The Perforated? ☒ Yes ☐ No.

Type of perforator used 8 inch (Torch)

Size of perforations 3/16 in. by 8 in.
40 perforations from 940 ft. to 948 ft.
20 perforations from 890 ft. to 894 ft.
25 perforations from 798 ft. to 803 ft.
25 perforations from 630 ft. to 635 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) WATER LEVEL: Completed well.

Static level 450 ft. below land surface Date 8/14/69
Artesian pressure _____ lbs. per square inch Date _____

(9) WELL TESTS:

Drawdown is amount water level is lowered below static level Bottner Drilling

Was a pump test made? ☒ Yes ☐ No If yes, by whom _____
" 150 gal./min. with 12 ft. drawdown after 5 hrs.
" 300 " 17 " 2 "
" 384 " 20 " 5 "

Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Artesian flow _____ g.p.m. Date _____

Temperature of water 55 Was a chemical analysis made? ☐ Yes ☒ No

(10) CONSTRUCTION:

Well seal—Material used Bentonite, Cement Sand & Gravel
Depth of seal 30 ft.
Diameter of well bore to bottom of seal 16 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 Multnomah Driller's well number _____
" " Section 16 T. 1S R. R3E W.M. _____
Bearing and distance from section or subdivision corner _____

(12) WELL LOG:

Diameter of well below casing 8 "

Depth drilled 1031 ft. Depth of completed well 1031 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
Clay, brown, sandy	836	841	
Clay, blue	841	846	
Rock, Grey solid	846	872	
Clay, blue	872	890	
Rock, grey	890	894	
Clay, blue	894	938	
Rock, grey, very hard	938	954	
Clay, grey	954	982	
Clay, brown	982	1000	
Clay, blue	1000	1013	
Rock, black, soft	1013	1022	450 ft
Rock, black hard	1022	1029	
Rock, black hard with large crevice	1029	1031	

Work started June 27 19 68 Completed July 9 19 69
Date well drilling machine moved off of well August 14 19 69

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] James M. Bost Date 8/29 19 69
(Drilling Machine Operator)

Drilling Machine Operator's License No. 246

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 HAAKON BOTTLNER DRILLING COMPANY
(Person, firm or corporation) (Type or print)

Address 3424 S.E. 174 Ave., PORTLAND, OREGON

[Signed] Haakon Bottner
(Water Well Contractor)

Contractor's License No. 109 Date 9/2 19 69