Approved: 

MEMO

To: Kristopher Byrd, Well Construction Manager

From: Tommy Laird, Well Construction Program Coordinator

Subject: Review of Water Right Application G-19452

Date: May 13, 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 #Main (COLU 2531): Based on a review of the Well Report, Well #Main 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 at least five feet into the confining interval immediately overlying the artesian water-bearing zone. 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 #Main 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 #Main may not satisfy hydraulic connection issues

WATER WELL REPORT
STATE OF OREGON

COLU 2531

RECEIVED
JUN 21 1984
WATER RESOURCES DEPT
SALEM, OREGON

State Well No. 7N/4W-18

State Permit No.

PLEASE TYPE or PRINT IN INK

(1) OWNER:
Name Raymond Crocker
Address P.O. Box 142
City Clatskanie State OR 97016

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

(3) TYPE OF WELL:
Rotary Air ☒ Driven ☐
Rotary Mud ☐ Dug ☐
☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐
Thermal: ☐ Withdrawal ☐ Reinjection ☐

(5) CASING INSTALLED:
Steel ☒ Plastic ☐
Threaded ☐ Welded ☒
6" Diam. from +2 ft. to 58½ ft. Gauge 250
" Diam. from ft. to ft. Gauge

LINER INSTALLED:
4½" Diam. from 41'5" ft. to 241'9" ft. Gauge PVC

(6) PERFORATIONS:
Perforated? ☒ Yes ☐ No
Type of perforator used Saw
Size of perforations ¼ in. by 5 in.
26 perforations from 120 ft. to 241 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 4.1 gal./min. with drill stem at 241 ft. 1 hrs.
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Special standards: Yes ☐ No ☒
Well seal—Material used Cement grout
Well sealed from land surface to 38 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 12 w/5% Bentonite sacks
How was cement grout placed? Pumped in with tremmie pipe

Was pump installed? No Type HP Depth ft.
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 Columbia Driller's well number
¼ ¼ Section 18 T. 7N R. 4W W.M.
Tax Lot # Lot Blk 250 Subdivision
Address at well location: Not assigned

(11) WATER LEVEL: Completed well.
Depth at which water was first found 147 ft.
Static level 0 ft. below land surface. Date
Artesian pressure 2 lbs. per square inch. Date 6-18-84

(12) WELL LOG:
Diameter of well below casing 6
Depth drilled 242'9" ft. Depth of completed well 242'9" 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
Clay brown	0	2	
Clay reddish-brown	2	6	
Clay gray	6	12	
Clay brown	12	15	
Clay reddish-brown	15	18	
Sandy-clay & sandstone blue-gray	18	52	
Sandstone blue-gray	52	94	
Sandstone blue-gray w/some sandy clay	94	147	
Rock black broken	147	154	
Rock black & red med	154	159	
Shale rock blue-green	159	167	
Rock black-blue med	167	217	
Rock red & black	217	228	
Rock blue med	228	241'9"	

Work started 6-15 19 84 Completed 6-18 19 84
Date well drilling machine moved off of well 6-18 19 84

(unbonded) Water Well Constructor Certification (if applicable):
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] J. Steve McGhee Date , 19

Bonded Water Well Constructor Certification:
Bond #471F1529 (number) Issued by: Traveler's Insurance Surety Company Name
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name Dale McGhee & Sons Well DRilling, Inc. (Person, firm or corporation) (Type or print)
Address 3032 Allen St., Kelso, WA 98626
[Signed] J. Steve McGhee Water Well Constructor
Date 6-19 , 1984

NOTICE TO WATER WELL CONSTRUCTOR
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.

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