

Approved:



MEMO

To: Kristopher Byrd, Well Construction Manager
From: Tommy Laird, Well Construction Program Coordinator
Subject: Review of Water Right Application G-19427
Date: April 28, 2025

The attached application was forwarded to the Well Construction Section by the Groundwater Section. Darrick E. Boschmann reviewed the application. Please see Darrick's Groundwater Review and the Well Reports.

Applicant's Well #SW-2 (HARN 1803): Based on a review of the Well Report, well SW-2 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, the annular space is not large enough for the placement of concrete, and the 16-inch, 0.250-gauge casing exceeds a depth of 250 feet. Additionally, the well head is indicated as being flush with land surface. In order to meet minimum construction standards, the well must be recased and resealed with an approved grout and the well head must be at least one foot above land surface.

My recommendation is that the Department not issue a permit for well SW-2 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 well SW-2 may not satisfy hydraulic connection issues.

Applicant's Well #SW-3 (HARN 1800): Based on a review of the Well Report, well SW-3 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, the annular space is not large enough for the placement of concrete, and the 16-inch, 0.250-gauge casing exceeds a depth of 250 feet. Additionally, the well head is indicated as being flush with land surface. In order to meet minimum construction standards, the well must be recased and resealed with an approved grout and the well head must be at least one foot above land surface.

My recommendation is that the Department not issue a permit for well SW-3 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 well SW-3 may not satisfy hydraulic connection issues.

Applicant's Well #TC-3 (HARN 1802): Based on a review of the Well Report, TC-3 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, the annular space is not large enough for the placement of

concrete, and the 16-inch, 0.250-gauge casing exceeds a depth of 250 feet. Additionally, the well head is indicated as being flush with land surface. In order to meet minimum construction standards, the well must be recased and resealed with an approved grout and the well head must be at least one foot above land surface.

My recommendation is that the Department not issue a permit for well TC-3 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 well TC-3 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 RECEIVED

STATE OF OREGON

(Please type or print)

(Do not write above this line)

State Well No.

State Permit No.

APR 24 1978

WATER RESOURCES DEPT.

(1) OWNER:

Name Wallace L. Coleman
Address Fields Ore

(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 ☒
16" Diam. from 0 ft. to 448 ft. Gage 2025
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Perforated? ☒ Yes ☐ No.

Type of perforator used

Size of perforations 3/32 in. by 2 in.
64/Ft. perforations from 165 ft. to 448 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? OWNER

Yield: 1750 gal./min. with ft. drawdown after 6 hrs.

1525 " 56 " 22 1/2 "

" " " "

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

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Concrete

Well sealed from land surface to 20 ft.

Diameter of well bore to bottom of seal 20 in.

Diameter of well bore below seal 20 in.

Number of sacks of cement used in well seal 9 sacks

How was cement grout placed? Concrete mix Truck

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: 3/4-1/4

Gravel placed from 20 ft. to 448 ft.

(10) LOCATION OF WELL:

County HARNEY Driller's well number
NW 1/4 SW 1/4 Section 23 T. 39S R. 35E W.M.

Bearing and distance from section or subdivision corner

2310' N 412' E of SE Cor. Sec 22

(11) WATER LEVEL: Completed well.

Depth at which water was first found 48 ft.

Static level 40 ft. below land surface. Date 2-3-78

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 20

Depth drilled 448 ft. Depth of completed well 448 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	15	
Brown Clay	15	48	
Sand & Gravel	48	60	
Brown Clay	60	85	
Sand & Gravel	85	103	
Brown Clay	103	143	
Sand & Gravel	143	155	
Brown Clay	155	175	
Blue Clay	175	185	
Brown Clay	185	225	
Blue Sand & Small Gravel	225	235	
Blue Clay	235	245	
Blue Clay & Gravel	245	265	
Sand & Gravel	265	285	
Brown Clay	285	295	
Sand & Gravel	295	315	
Brown Clay	315	345	
Light Br. Clay & Strips of gravel	345	355	
Gray clay & Strips of gravel	355	365	
Brown clay	365	385	
Sand & Gravel & Strips of clay	385	395	
Sand & Gravel	395	435	
Brown Clay	435	445	

Work started 1-28 1978 Completed 2-20 1978

Date well drilling machine moved off of well 2-3 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] Wallace L. Coleman Date 4-19, 1978
(Drilling Machine Operator)

Drilling Machine Operator's License No.

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 (Person, firm or corporation) (Type or print)

Address

[Signed] Wallace L. Coleman (Water Well Contractor)

Contractor's License No. Date 4-19, 1978

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

WATER WELL REPORT

STATE OF OREGON APR 24 1978

(Please type or print)

(Do not write above this line)

WATER RESOURCES DEPT.
SALEM, OREGON

State Well No.

395/35E-22cd

Permit No.

APPL G-10227

(1) OWNER:

Name Wallace L. Coleman
Address Fields Ore.

(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 ☐
16" Diam. from 0 ft. to 448 ft. Gage 025
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Perforated? ☒ Yes ☐ No.

Type of perforator used

Size of perforations 3/32 in. by 2 in.
64 ft. perforations from 118 ft. to 448 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? owner

Yield: 2470 gal./min. with 88 ft. drawdown after 8 hrs.

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

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Concrete

Well sealed from land surface to 20 ft.

Diameter of well bore to bottom of seal 20 in.

Diameter of well bore below seal 20 in.

Number of sacks of cement used in well seal 9 sacks

How was cement grout placed? Concrete mix Truck

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: 3/4 - 1/4

Gravel placed from 20 ft. to 448 ft.

(10) LOCATION OF WELL:

County HARNEY Driller's well number

SE 1/4 SW 1/4 Section 22 T. 39S R. 35E W.M.

Bearing and distance from section or subdivision corner

825' N 2720' W of SE Cor. of Sec. 22

(11) WATER LEVEL: Completed well.

Depth at which water was first found ft.

Static level 23 ft. below land surface. Date 4-7-78

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing

Depth drilled 448 ft. Depth of completed well 448 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
SAND AND GRAVEL	0	15	
Sand Gravel & Clay	15	35	23
Clay & Gravel mixed	35	45	
Lava & Gravel	45	55	
Boulders	55	65	
Lava Boulders & clay	65	105	
Clay & small gravel	105	145	
Sand and gravel	145	285	
Lava Boulders	285	328	
Lava Cinders & Gravel	328	448	

Work started 3-28 1978 Completed 19

Date well drilling machine moved off of well 4-7- 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] Wallace L. Coleman Date 4-19, 1978
(Drilling Machine Operator)

Drilling Machine Operator's License No.

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 (Person, firm or corporation) (Type or print)

Address

[Signed] Wallace L. Coleman (Water Well Contractor)

Contractor's License No. Date 4-19- 1978

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

STATE OF OREGON

(Please type or print)

(Do not write above this line)

WATER RESOURCES DEPT.
SALEM, OREGON

State Well No.

Permit No.

(1) OWNER:

Name Wallace L. Coleman
Address Fields Oregon

(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 ☒
16" Diam. from 0 ft. to 296 ft. Gage 1025
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Perforated? ☐ Yes ☐ No.

Type of perforator used

Size of perforations 3/32 in. by 2 in.
64/Ft perforations from 96 ft. to 286 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? owner
Yield: 2950 gal./min. with 115 ft. drawdown after 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:

Well seal—Material used Concrete
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 20 in.
Diameter of well bore below seal 20 in.
Number of sacks of cement used in well seal 9 sacks
How was cement grout placed? Concrete mix
Truck

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: 3/4-1/4
Gravel placed from 20 ft. to 296 ft.

(10) LOCATION OF WELL:

County HARNEY Driller's well number
SW 1/4 NE 1/4 Section 23 T. 39S R. 35E W.M.

Bearing and distance from section or subdivision corner

2620 S 2805 E From NW Cor Sec 23

(11) WATER LEVEL: Completed well.

Depth at which water was first found 25 ft.
Static level 23 ft. below land surface. Date 3-28-78
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing

Depth drilled 296 ft. Depth of completed well 296 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 & Sand	0	10	
Sand and Gravel mixed	10	70	23
Gravel & Blue Brown Clay	70	100	
Gravel & Blue Clay	100	140	
Sand and Gravel	140	180	
Sand & Gravel Blue Clay	180	200	
Sand & Gravel Clay	200	260	
Sand & Brown Gravel	260	296	

Work started 3-20 1978 Completed 19
Date well drilling machine moved off of well 3-28 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] Wallace L. Coleman Date 4-19, 1978
(Drilling Machine Operator)

Drilling Machine Operator's License No.

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 (Person, firm or corporation) (Type or print)

Address

[Signed] Wallace L. Coleman (Water Well Contractor)

Contractor's License No. Date 4-19, 1978