Approved: 

MEMO

To: Kristopher Byrd, Well Construction Manager

From: Tommy Laird, Well Construction Program Coordinator

Subject: Review of Water Right Application G-19434

Date: May 13, 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 #3 (HARN 1522): Based on a review of the Well Report, Applicant's Well #3 seems to protect the groundwater resource.

The construction of Well #3 may not satisfy hydraulic connection issues.

Applicant's Well #4 (HARN 1523): Based on a review of the Well Report, Well #4 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 head is indicated as being flush with land surface. In order to meet minimum construction standards, the well head must be at least one foot above land surface.

My recommendation is that the Department not issue a permit for Well #4 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 #4 may not satisfy hydraulic connection issues.

STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

1522 Harney

JUN 30 1988 WATER RESOURCES DEPT SALEM, OREGON

SEP - 7 1988 WATER RESOURCES DEPT SALEM, OREGON

27S/36E/29 cc

Start Card #1617

(1) OWNER:

Well Number:

Name Norman Ranches

Address HC 77 Box 21

City Princeton State Or Zip 97721

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD

☐ Rotary Air ☐ Rotary Mud ☒ Cable

☐ Other

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation

☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes ☐ No ☒ Depth of Completed Well 116 ft.

Explosives used Yes ☐ No ☒ Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
20"	0	18	Cement	0	18	15 sacks
16"	18	97				
14"	97	116				

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E

☐ Other

Backfill placed from ft. to ft. Material

Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	16"	+1	20'	.250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

☐ Perforations Method

☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
3400	6 in		1 hr. 30 hr

Temperature of water 60° Depth Artesian Flow Found

Was a water analysis done? No ☐ Yes By whom

Did any strata contain water not suitable for intended use? No ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County Harney Latitude ' " Longitude ' "

Township 27S N or S, Range 36E E or W, WM.

Section 29 SW, ¼ SW ¼

Tax Lot 900 Lot Block Subdivision

Street Address of Well (or nearest address)

(10) STATIC WATER LEVEL:

71 ft. below land surface. Date 6/16/88

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 77'

From	To	Estimated Flow Rate	SWL
77'	116'	3400 gpm	71'

(12) WELL LOG:

Ground elevation 4100 MSL

Material	From	To	SWL
~~Clay loam topsoil~~	~~0~~	~~1~~	
~~Clay, brown~~	~~1~~	~~4~~	
~~Clay, sand coarse~~	~~4~~	~~12~~	
~~Clay, gravel~~	~~12~~	~~25~~	
~~Rock, black hard, clay~~	~~25~~	~~77~~	~~71~~
~~Rock Black, broken~~	~~77~~	~~116~~	~~71~~

Date started 5/21/88 Completed 6/15/88

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number

Signed Date

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 426

Signed John W McMaster Date 6/29/88

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9809C 10/86

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)

RECEIVED
FEB 26 1980
WATER RESOURCES DEPT
SALEM, OREGON

1523
KW

State Well No. 27s/36E-33cb
State Permit No.

(1) OWNER:
Name Toni Turner
Address Horseshoe T Ranch
Prineton Oregon 97721

(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 ☐
[redacted] ☐ Bored ☐

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

(5) CASING INSTALLED:
Threaded ☐ Welded ☐
12 " Diam. from 0 ft. to 100 ft. Gage 0.250
" 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? DEE Doman
[redacted]d: 1070 gal./min. with 60 ft. drawdown after 3 hrs.
" " " "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
[redacted]sian flow g.p.m.
Temperature of water 57° Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Cement Grout
Well sealed from land surface to 41 ft.
Diameter of well bore to bottom of seal 16 in.
Diameter of well bore below seal 12 in.
Number of sacks of cement used in well seal 46 sacks
How was cement grout placed? Pressure pump and Grout pipe

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 Wheeler Driller's well number
[redacted] ¼ [redacted] ¼ Section 33 T. 27S R. 36E W.M.
Bearing and distance from section or subdivision corner
[redacted] ft. N and [redacted] ft. E from the NW cor of Sec 33

(11) WATER LEVEL: Completed well.
Depth at which water was first found 16 ft.
Static level 35 ft. below land surface. Date 2-9-80
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 12"
Depth drilled 400 ft. Depth of completed well 400 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	3	0
Hardpan	3	7	0
Clay (Brown)	7	35	16
Fine gravel	35	36	16
Clay (Brown)	36	64	56
Clay (Blue)	64	81	56
Shale (Blue)	81	83	23
Clay (Blue)	83	96	23
Rock (Gray)	96	134	45
Sandstone & grav. (Brown)	134	157	45
Rock (Gray)	157	160	45
Clay (Orange)	160	190	45
Clay stone & V.C. sand (Green)	190	215	45
Clay (White w/brown st)	215	230	45
Clay (Brown)	230	240	45
Rock (Brown)	240	260	40
Rock (Gray)	260	310	35
Clay (Red)	310	335	35
Clay (Brown)	335	340	35
Rock (Gray)	340	400	35

Work started Nov 15 19 79 Completed 2-2 19 80
Date well drilling machine moved off of well 2-9 19 80

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] [redacted] West (Drilling Machine Operator) Date 2-9 19 80
Drilling Machine Operator's License No. 120

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 Pilcher Well Drilling (Person, firm or corporation) (Type or print)
Address 577 S. Knight., Prineville, OR
[Signed] Robert C. Pilcher (Water Well Contractor)
Contractor's License No. 698 Date 2-9 19 80

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119