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	REPORTE IVE Datate Well No.	١	,	
WATER RESOURCES DEPARTMENT, STATE OF SALEM, OREGON 97310	OREGON State Well Noc	3925	3SE	-230
within 30 days from the date of well completion.	boys # RESOURCES DEPT.	io	y a ngan No Sha na ng Long na n	Andreas and the second
(1) OWNER:	(10) LOCATION FOR WELL:			
Name Wallace L Soleman	County HARNEY Driller's well n			
Address Fields Ore			, , , , ,	
	NW 34 SW 34 Section 23 T. 395		5 E	W.M.
(2) TYPE OF WORK (check):	Bearing and distance from section or subdivisi		200	Λ <u></u>
New Well Deepening □ Reconditioning □ Abandon □	2310' N 412 E of SE Cor, Sec 22			
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed w	ell.		
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found	48		ft.
Rotary Driven Domestic Industrial Municipal Domestic Municipal	Static level 40 ft. below land	urface.	Date 1	-3-78
Dug Bored Irrigation Test Well Other	Artesian pressure lbs. per squar			
CACING INCOME LED				
CASING INSTALLED: Threaded Welded Welded	(12) WELL LOG: Diameter of well	oelow car	sing	LO
To "Diam from O ft to 448 ft. Gage 1025	Depth drilled 448 ft. Depth of compl	eted wel	1 44	Z ft.
"Diam. from	Formation: Describe color, texture, grain size			<u></u>
" Diam. from	and show thickness and nature of each stratu	m and a	quifer pe	enetrated.
PERFORATIONS: Perforated? Yes No.	with at least one entry for each change of forma position of Static Water Level and indicate prin	tion. Kep icipal wa	ort each ter-beari	change in ng strata.
Type of perforator used	MATERIAL	From	То	SWL
Size of perforations $\frac{3}{32}$ in. by 2 in.	TOV SOIL	8	15	-
64/F4, perforations from 165 ft. to 448 ft.	Brown Clay Sand & Grandy Brown Clay	48	85	
perforations fromft, toft	Sand & hard Brown Clay	45	103	
perforations fromft. toft.	Sand & Ghadel Anoun Clay	145	155	
	British Clair	186	196	-
(7) SCREENS: Well screen installed? Wes No	Blue Sand & Small Gravel	225	235	
Manufacturer's Name	- Rem Clan	235	245	
Type Model No.	Blue Clay 1 Ornavel	245	265	
Diam. Slot size Set from ft. to ft.	Sand & Gravel	265	285	
Diam. Slot size Set from ft. to ft.	Brown Clay	282	295	<u> </u>
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	Sand i Gravel	295	315	-
Was a pump test made? ☐ Yes ☐ No If yes, by whom? OWNER	Brown Clay	315	345	-
Tricks from the second	Englit Br. Clay & Strips of gravel Enay clay & Strips of arous	345 355	355	
The same of the sa	Bran clan	365	365 385	
1525 " 56 " 22 3"	Sand & Grand & String of Clan	385	395	
" " " " " " " " " " " " " " " " " " "	Sand & Gravel	395	435	
Bailer test gal./min. with ft. drawdown after hrs.	Brision Clay	H35	445	
Artesian flow g.p.m.	3			
perature of water Depth artesian flow encountered ft.	Work started 1-28 1978 Complete	d 2	20	1978
(9) CONSTRUCTION:	Date well drilling machine moved off of well	J3	5	1978
Well seal-Material used Concrete	Drilling Machine Operator's Certification:			
Well sealed from land surface to	This well was constructed under my	direct	super	vision.
Diameter of well bore to bottom of seal	Materials used and information reported best knowledge and belief	above a	are true	to my
Diameter of well bore below seal	[Signed] Hallace L. Coleman		-19	7 <i>§</i>
Number of sacks of cement used in well seal sacks	(Drilling Machine Operator)	Date(., 19
How was cement grout placed? Concrete mix Truck	Drilling Machine Operator's License No.		*********	**********
	TWO AS THE COLUMN TO SEE AS		-	-
A CONTRACTOR OF THE PROPERTY O	Water Well Contractor's Certification:			1 -
	This well was drilled under my jurisdi true to the best of my knowledge and bel	ction an ief.	d this r	eport is
Was a drive shoe used? Yes No Plugs Size: location ft.				
Did any strata contain unusable water? Yes No	Name (Person, firm or corporation)	(Ту	pe or prir	ıt)
Type of water? depth of strata	Address			
Method of sealing strata off	Signed Malder Letema		+	
Was well gravel packed? A Yes □ No Size of gravel: 34 - 4	(Water Well Contr.	actor)	_	·- c
Gravel placed from 20 ft. to 448 ft.	Contractor's License No Date	4-1	9	

NOTICE TO WATER WELL CONTRACTOR The original and first copy of this report are to be filed with the	© RECEIVED	1		
WATER RESOURCES DEPARTMENT, STATE OF	OREGON APR 24 1978 State Well Nos	398/3SE-	-22 <i>c</i> c	
Please type	or print)	-1		
within 30 days from the date of well completion. (Do not write a	SALEM, OREGON	APPL G-102	27	
(1) OWNER:	(10) LOCATION OF WELL:			
Name Wallace L. Coleman	County HARNEY Driller's well n	umbar		
Address FIRLDS Ore	58 45W 4 Section 22 T. 395			
			W.M.	
(2) TYPE OF WORK (check):	Bearing and distance from section or subdivis			
New Well Deepening ☐ Reconditioning ☐ Abandon ☐ If abandonment, describe material and procedure in Item 12.	835 N 2726 W of ZE	•	32 32	
	(11) WATER LEVEL: Completed w	ell.		
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found	7 7	ft.	
Rotary M Driven Domestic Industrial Municipal	Static level 33 ft. below land	surface. Date 4-7	-78	
Dug	Artesian pressure lbs. per squa	re inch. Date	<u> </u>	
(**CASING INSTALLED: Threaded Welded				
Threaded Welded Threaded Threa	(12) WELL LOG: Diameter of well	below casing		
"Diam from ft. to ft. Gage COCCO" "Diam from ft. to ft. Gage	Depth drilled 414 ft. Depth of comp	leted well 442	ft.	
"Diam. fromft. toft. Gage	Formation: Describe color, texture, grain size	and structure of ma	terials:	
Diam. Hom It. to	and show thickness and nature of each stratu with at least one entry for each change of forma	m and aquifer pene	trated.	
PERFORATIONS: Perforated? Yes No.	position of Static Water Level and indicate prin	non, Report each cha cipal water-bearing	inge in strata.	
Type of perforator used	MATERIAL	From To	swl	
Size of perforations 3/32 in. by in.	SANDAND CRIVE	0 15		
64/5+ perforations from 118 ft. to 448 ft.	SAND Granel & Clay		33	
perforations from ft. to ft.	Colan & Gravel mixed	35 45		
perforations from ft. to ft.	Lava & Gravel	45 55	.	
	Boulders	55 65	-	
(7) SCREENS: Well screen installed? Yes No	Lava Bolildera & clay	65 105		
Manufacturer's Name	Clay & Dmall gravel	105 145		
Type Model No.	Sand and mould	145 285		
Diam. Slot size Set from ft. to ft.	Lava Boulder	285 328		
Diam. Slot size Set from ft. to ft.	Larre Cindus i Grand	328 448		
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	- 100			
Was a pump test made? Yes □ No If yes, by whom? OWNOY	-			
Yield: 2470 gal./min. with \$\$ ft. drawdown after \$ hrs.				
H H H CONT. THE				
<i>II</i>				
Bailer test gal./min. with ft. drawdown after hrs.				
Artesian flow g.p.m.				
perature of water Depth artesian flow encountered ft.	Work started 3-28 1978 Complete	ed .	19	
(9) CONSTRUCTION:	Date well drilling machine moved off of well	4-7-	1970	
Well seal-Material used Concrete	Drilling Machine Operator's Certification:	······································	/0	
Well sealed from land surface to	This well was constructed under my	direct supervi	sion.	
Diameter of well bore to bottom of seal O in	Materials used and information reported	above are true to	my	
Diameter of well bore below sealin.	Materials used and information reported above are true to my best knowledge and belief.			
Number of sacks of cement used in well seal9sacks	[Signed] (Drilling Machine Operator)	Dāte	9	
How was cement grout placed? Concrete mix Truck	Drilling Machine Operator's License No.			
		tre 🚙 vale v grege		
	Water Well Contractor's Certification:		gh ei	
A STATE OF THE STA	This well was drilled under my jurisdiction and this report is			
Was a drive shoe used? 🗌 Yes 🐧 No Plugs Size: location ft.	true to the best of my knowledge and belief.			
Did any strata contain unusable water? Yes No	Name (Person, firm or corporation)	(Type or print)		
Type of water? depth of strata	Address	0		
Method of sealing strata off	Wall Plana			
Was well gravel packed? Yes I No Size of gravel: 3/4-1/4	[Signed] (Water Well Contr.	actor) -		
and 112	aww	1-19-	.75	
Gravel placed from COO ft. to 1 4 5 ft.	Contractor's License No Date	,]	l9	

NOTICE TO WATER WELL CONTRACTOR 5 - 8581 The original and first copy of this report are to be filed with the WATER WELL	L REPORT EIVED		
	OREGON APR 24 1978 State Well No. 35 35 - 230		
within 30 days from the date of well completion. (Do not write al	SALEM. OREGON		
(1) OWNER:	(10) LOCATION OF WELL:		
	1.1		
Name Wallace L Roleman	County HARNEY Driller's well number		
Address Fields Oregon	5W 14 NE 14 Section 23 T. 395 R. 358 W.M.		
(a) MYDE ON WORK (I I I)	Bearing and distance from section or subdivision corner		
(2) TYPE OF WORK (check):	2620 S 2805 E From NW Cor Sec		
New Well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐	23		
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed well.		
(3) TYPE OF WELL: (4) PROPOSED USE (check):			
Rotary Nº Driven II	Depth at which water was first found 25 ft.		
Cable Jetted Domestic Industrial Municipal	Static level 23 ft. below land surface. Date 3-28-78		
Dug Bored I Irrigation Test Well Other	Artesian pressure lbs. per square inch. Date		
CASING INSTALLED: Threaded Welded W	(12) WELL LOG: Diameter of well below casing		
	Depth drilled 29/6 ft. Depth of completed well 29/6 ft.		
"Diam. from	Formation: Describe color, texture, grain size and structure of materials;		
	and show thickness and nature of each stratum and aquifer penetrated.		
PERFORATIONS: Perforated? Yes No.	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.		
Type of perforator used			
3/4	MATERIAL From To SWL		
	106 2017 8 Jana 10 10		
Cot Ft perforations from 96 ft. to 286 ft.	Sandand Gravel Mured 10 70 23		
perforations from ft. to ft.	Cohanel & Blu Brown Clay 70 100		
perforations fromft. toft.	Chapel & Blue Com 100 140		
(7) SCREENS: Well screen installed? Yes No	Sand and Gemeny 140 180		
Menufacturer's Name	Sand Gravel Boro Clay 180 200		
Type Model No.	Sand Conave Clay 200 260		
Diam. Slot size Set from ft. to ft.	Sand Brown Gravel 260 396		
Diam. Slot size Set from ft. to ft.	=		
To the state of th			
(8) WELL TESTS: Drawdown is amount water level is lowered below static level			
Was a pump test made? Yes \(\subseteq \text{No If yes, by whom?} \)			
Yield: 2050 gal./min. with 115 ft. drawdown after hrs.			
n n			
" " "			
Bailer test gal./min. with ft. drawdown after hrs.			
Artesian flow g.p.m.			
perature of water Depth artesian flow encountered	24		
Depth artesian now encountered	Work started 3-20 1978 Completed 19		
(9) CONSTRUCTION:	Date well drilling machine moved off of well 3-28 1978		
Well seal-Material used Concrete	Drilling Machine Operator's Certification:		
Well sealed from land surface toft.	This well was constructed under my direct supervision.		
Diameter of well bore to bottom of seal 20 in.	Materials used and information reported above are true to my best knowledge and belief // //		
Diameter of well bore below seal in.	MANY A. A WATCHER W. J. 19 70		
Number of sacks of cement used in well seal sacks	[Signed] Date Date 19		
How was cement grout placed? Concrete mix	Drilling Machine Operator's License No.		
Truck	Wodan W.N Conduction of the In		
	Water Well Contractor's Certification:		
The state of the s	This well was drilled under my jurisdiction and this report is		
Was a drive shoe used? Yes No Plugs Size: location ft.	true to the best of my knowledge and belief.		
Did any strata contain unusable water? Yes No	Name (Person, firm or corporation) (Type or print)		
Type of water? depth of strata	Address		
Method of sealing strata off	MAN PWAR		
Was well gravel packed? XYes □ No Size of gravel: 3/4-1/4	[Signed] (Water Well Contractor)		
Gravel placed from 20 ft. to 390 ft.	Contractor's License No. Date		