Approved:

## **MEMO**

**To:** Kristopher Byrd, Well Construction Manager

From: Tommy Laird, Well Construction Program Coordinator

**Subject:** Review of Water Right Application G-19281

**Date:** October 23, 2024

The attached application was forwarded to the Well Construction Section by the Groundwater Section. Andrew Wentworth and Travis Brown reviewed the application. Please see Andrew's and Travis' Groundwater Review and the Well Reports.

Applicant's Well #1 (MARI 3357): Based on a review of the Well Report, Well #1 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 is not sealed to the proper depth and the well head is flush with land surface. In order to meet minimum construction standards, the well must be resealed with an approved grout to a minimum depth of 40 feet bgs, and the well head must be extended so that it is at least one-foot above land surface.

My recommendation is that the Department not issue a permit for Well #1 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 #1 may not satisfy hydraulic connection issues.

Applicant's Well #2 (MARI 3334): Based on a review of the Well Report, Applicant's Well #2 seems to protect the groundwater resource.

The construction of Well #2 may not satisfy hydraulic connection issues.

Applicant's Well #3 (MARI 3675): Based on a review of the Well Report, Well #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 is not sealed to the proper depth, or sealed with an approved grout. In addition, the well head is flush with land surface. In order to meet minimum construction standards, the well must be resealed with an approved grout to a minimum depth of 58 feet bgs, and the well head must be extended so that it is at least one-foot above land surface.

My recommendation is that the Department not issue a permit for Well #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 construction of Well #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

filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

WATER WELL REPORT CEIVED

STATE OF OREGONMAY 1 5 1975

(Please type or printSTATE ENGINEER

State Well No.	65-1w-25
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(Do not write above this line LEM, OREGON

,				
٠	State	Permit	No.	•

(1) OWNER:	(10) LOCATION OF WELL:			
Name Stan Eckley	County Marion Driller's well no			
Address	SF 45W 4 Section 25 T.65	R. 1 11	<u>/</u>	W.M.
Silventon Dae 97381	Bearing and distance from section or subdivision	on corne	r	
(2) TYPE OF WORK (check):			- /-	1.3.11
New Well ₩ Deepening □ Reconditioning □ Abandon □				
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed w	oll		
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found 2			ft.
Rotary Driven Domestic Na Industrial Municipal	Static level 166 ft, below land s		Data 4	-9
Cable   Jetted				
Dug   Bored   Irrigation   Test Well   Other	Artesian pressure lbs. per squar	e inch.	Date ———	
(5) CASING INSTALLED: Threaded Welded W	(12) WELL LOG: Diameter of well k		4	
6 " Diam. from 35 0 ft. to 35 ft. Gage 250	A .			/ a+
ft. Gageft.			//	6 11.
" Diam. from ft. to ft. Gage	Formation: Describe color, texture, grain size a and show thickness and nature of each strature.			
	with at least one entry for each change of format	tion. Repo	ort each o	change in
PERFORATIONS: Perforated?   Yes   No.	position of Static Water Level and indicate prin	cipal wat	er-bearin	g strata.
Type of perforator used	MATERIAL	From	То	SWL
Size of perforations in. by in.	Top 501)	0	_3	
perforations fromft. toft.	Red Clay	3	8-	
perforations from ft. to ft.	Brown Clay & Boulders	8	15	
perforations from ft. to ft.	Brown Clay	15	25	
(7) SCPEENS.	Brocken rock	25	35	
(7) SCREENS: Well screen installed? ☐ Yes 🛣 No	Black pasale	35	96	<del>-</del>
Manufacturer's Name	Grey basalt hard	96	136	
Diam. Slot size Set from ft. to ft.	Black basale	136	160	
Diam. Slot size Set from ft. to ft.	Black hasalt hard	180	209	
Diani	Visicular basalt	209	207	
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	VIOLCTAT WASTIE	201	216	
Was a pump test made?  Yes No If yes, by whom?				
yald: gal./min. with ft. drawdown after hrs.	/ Water from			
" "	1 309-3/6			
"Air " "				
Bailer test /5 gal./min. with 30 ft. drawdown after / hrs.				
		<del>  </del>		
				0,~
inperature of water Depth artesian flow encountered ft.	Work started 3 - 8 1973 Complete	-		19 /3
(9) CONSTRUCTION:	Date well drilling machine moved off of well	5-9		1975
Well seal-Material used Cement	Drilling Machine Operator's Certification:			
Well sealed from land surface toft.	This well was constructed under my Materials used and information reported	above a	super are true	vision.
Diameter of well bore to bottom of seal in.	best knowledge and belief.		1	
Diameter of well bore below seal in.	[Signed] What Julian (Orilling Machine Operator)	Date .5	114	, 19 <i>75</i>
Number of sacks of cement used in well seal sacks	Drilling Machine Operator's License No.	フィ	60	
Number of sacks of bentonite used in well seal sacks	- Personal Marian Special Bracelle 140.		***************************************	
Brand name of bentonite	Water Well Contractor's Certification:			
Number of pounds of bentonite per 100 galles	This well was drilled under my jurisdi	ction an	d this re	eport is
of waterlbs./100 gals.	true to the best of my knowledge and beli	ef.		
Was a drive shoe used? Yes No Plus Size: location ft.	Name / r/eSen Dr/lling	0		4
Did any strata contain unusable water \(\text{T Yes } \) No	Address R. Bex 375 & 8	م مريان	pe or prin	· //-
Type of water? depth of strata	DI. J		-07	
Method of sealing strata off	[Signed] After tuesen			
Was well gravel packed? ☐ Yes 🗡 No Size of gravel:	(Water Well Control	actor)		سم رد.
Gravel placed from ft. to ft.	Contractor's License No. 365 Date 5	117		<u>., 19./.</u> \
(USE ADDITIONAL SH	EETS IF NECESSARY)		50	+45656_11Q

## WATER WELL REPORT STATE OF OREGON

RECEIVED State Well No. 65 W-25cd

APR 6 1983

State Permit No.	***************************************

PLEASE	TYPE	or PRIN	요도통식	URCES	DEDT
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	SALEM, OREGON
1) OWNER:	(10) LOCATION OF WELL:
Name Ben Eckley	County Marion Driller's well number
Address 5885 Rowena River Rd.	8.E. 4 S.W. 4 Section 25 T. 6 S R. 1 W W.M.
City The Dalles State OR • 97058	Tax Lot # Lot Blk Subdivision
2) TYPE OF WORK (check):	Address at well location: 6138 Cascade Highway NE
	Silverton, OR 97381
New Well	(11) WATER LEVEL: Completed well.
f abandonment, describe material and procedure in Item 12.	Depth at which water was first found 2 29 ft.
3) TYPE OF WELL: (4) PROPOSED USE (check):	Static level 203 ft. below land surface. Date 3-21-83
Rotary Air 🕱 Driven 🗆 Domestic 🐹 Industrial 🗆 Municipal 🗆	Artesian pressure lbs. per square inch. Date
Cotary Mud	(12) WELL LOG: Diameter of well below casing 6"
	Depth drilled 275 ft. Depth of completed well 275 ft.
5) CASING INSTALLED: Steel No Plastic   Threaded  Welded No	Formation: Describe color, texture, grain size and structure of materials; and show
6	thickness and nature of each stratum and aquifer penetrated, with at least one entry
"Diam from ft to ft Gauge	for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.
LINER INSTALLED:	
4½ "Diam from 0 ft. to 275 ft. Gauge 160 lb.test	Topsoil & boulders 0 1
(6) PERFORATIONS: Perforated? 🛚 Yes □ No	Boulders & broken rock 1 14 Basalt grey hard 14 57
Type of perforator used Portable e lectric circular saw	Basalt grey hard 14 57 Basalt black 57 60
Size of perforations 1/8 in. by 6 in.	Claystone grey soft 60 74
96 perforations from 195 ft. to 275 ft.	Claystone grey soft 00 74 79
perforations from ft. to ft.	Sandstone grey medium hard 79 85
perforations from ft. to ft.	Sandstone grey hard 85 134
(7) SCREENS: Well screen installed? Tyes \$\mathcal{P}\$ No	Basalt grey hard 134 216
Manufacturer's Name	Sandstone grey with occasonal 216
Type Model No.	green streaks 227
Diam. Slot Size Set from ft. to ft.	Basalt grey hard-water bearing 227 275 203
Diam. Slot Size Set from ft. to ft.	
(8) WELL TESTS:  Drawdown is amount water level is lowered below static level	
Wes a pump test made? ☐ Yes 🖪 No If yes, by whom?	
d: gal/min. with tt. drawdown after hrs.	
Air test 33 gal./min. with drill stem at 274 ft. 1 hrs.	
Bailer test gal./min. with ft. drawdown after hrs.	
tesian flow g.p.m.	
nperature of water Depth artesian flow encountered ft.	Work started 3-16-83 19 Completed 3-21-83 19
(9) CONSTRUCTION: Special standards: Yes \( \text{No } \mathbb{Z} \)	Work started         3-16-83         19         Completed         3-21-83         19           Date well drilling machine moved off of well         3-21-83         19
Comont	
4 O	(unbonded) Water Well Constructor Certification (if applicable):
Well sealed from land surface to	This well was constructed under my lirect supervision. Materials used and information reported above and true to my best knowledge and belief.
Diameter of well bore below seal	[Signed] Date 3-24 , 19.83
Number of sacks of cement used in well seal	
How was cement grout placed? Pressure grouted.	Bonded Water Well Constructor Certification:  Bond 400GE 5995 Issued by: ST. Paul Fire & Marine Ins
	Bond 400GE 5995 Issued by: ST. Faul Fire & Marine Ins
gia de la companya de	This well was drilled under my jurisdiction and this report is true to
Was pump installed? No Type	the best of my knowledge and belief.  Name R. Stade li & Sons. Inc.
Was a drive shoe used? Yes No Plugs Size: location ft.	(Person, firm or corporation) (Type or print)
Did any strata contain unusable water? 🔲 Yes 🗷 No	Address 11364 Evergreen Rd NE Silverton, OR
Type of Water? depth of strata	[Signed] Paul & Stadeli
Method of sealing strata off	Water Well Constructor
Was well gravel packed? ☐ Yes 🛂 No Size of gravel:	Date 3-25 , 1983
Gravel placed from ft. to ft.	

File Original, and Duplicate with the STATE ENGINEER, SALEM, OREGON	LERS REPORT Do Not State Well No. 1W -36 Fill In State Permit No.
(1) OWNER: JUL 1 3 195	8(10) WELL TESTS:
Name BONF KOKNEY STAIL ENGI	Wal algump test made? □ Yes ௴ No If yes, by whom?
Address Route LiBOX 119 SIATE CIVOT SILVERTON, OREGONEM. ORE	Yield: gal./min. with ft. draw down after hrs.
SILUGRION, UNEGON	n n n
(2) LOCATION OF WELL:	Artesian flow g.p.m.
County MRION Owner's number, if any—	Shut-in pressure
R. F. D. or Street No. Route 11 Box 119  Bearing and distance from section or subdivision corner	Bailer test g.p.m. with ft. drawdown
270' EAST OF dysuing IN S36, T65,	Temperature of water Was a chemical analysis made? ☐ Yes ☐ No  Was electric log made of well? ☐ Yes ☐ No
Range I W. of willowith meridian	(11) WELL LOG:
	<b>9</b>
TYPE OF WORK (check):	Diameter of well, inches.  Total depth ft. Depth of completed well 220 ft.
well Deepening Reconditioning Abandon	Formation: Describe by color character size of material and structure and
indonment, describe material and procedure in Item 11.	show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.
(4) PROPOSED USE (check): (5) EQUIPMENT:	ft. to ft.
Domestic Industrial   Municipal   Rotary   Cable	25" 44" Comented Sand with Some
igation   Test Well   Other   Dug Well	" " arout O A Bout 2 a om @ 25th
CASING INSTALLED: If gravel packed	44" 53" BROKEN Growing
Threaded   Welded   Gage	They BASAIT.
FROM ft. to Tt. Diam. Wall of Bore ft. to ft.	53" 71" HARD Grow Basalt.
	" Extra Hard 54 - 58
n n n n n n n n n n n n n n n n n n n	" " " " " " " " " " " " " " " " " " " "
y y y y y y y y y y y y y y y y y y y	11" 124" Softer Greenish grey
Type and size of shoe or well ring Size of gravel:	124" 149" EXTRA HARD Grey Basalt
Describe joint	" " " " " " " " " " " " " " " " " " " "
a same	149" 154" MEDHARD BROWN LAVA
(7) PERFORATIONS: Type of perforator used	151" ilal" Real South Brown / AVI
SIZE of perforations in., length, by in.	WITH SOME WATER
M ft. to ft. perf per foot No. of rows	161" 202" HARD BLACK BASAIT
" N. A. A. W. " " " " " " " " " " " " " " " " " "	202" 218" DARK BROWN Seamy Baself
, , , , , , , , , , , , , , , , , , ,	2-18 220 year SHSHIT NAKOV
11 11 11 11 11 11 11 11 11 11 11 11 11	n n
SCREENS:  Give Manufacturer's Name, Model No. and Size	n n
Give Manufacturer's Hame, model No. and Side	n n
(8) CONSTRUCTION:	11 11
Was a surface sanitary seal provided? Yes ! No To what depth 4 ft.	n n
Were any strata scaled against pollution? Tyes No If yes, note depth of strata	Ground elevation at well sitefeet above mean sea level.
FROM ft. to ft.	Wolf Dellow's State and
" " "	Well Driller's Statement:  This well was drilled under my jurisdiction and this report is
METHOD OF SEALING DIVE IN ROCK	true to the best of my knowledge and belief.
(9) WATER LEVELS:	NAMEWILLIAM J. STENNETT
Depth at which water was first found 5 ft.	Address 361W4RNFRIMILIE ROAD ARE C.T.
Standing level home partiaged in the Standing level after the standing	Driller's well number
Log Accepted by:	[Signed] William Slennell
[Signed] Ly 7. Echly Dated July 2, 1958	(Well DriMer)
Owher	License No. Dated the 2 , 1955