Approved:

# **MEMO**

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

From: Tommy Laird, Well Construction Program Coordinator

**Subject:** Review of Water Right Application G-19344

Date: February 26, 2025

The attached application was forwarded to the Well Construction Section by the Groundwater Section. Dennis Orlowski reviewed the application. Please see Dennis' Groundwater Review and the Well Reports.

Applicant's Well #1 (MARI 1599): 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 the Water Supply Well Report indicates that not enough seal material was used to seal the well and that the well head is flush with land surface. In order to meet minimum construction standards, the well must be 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 #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 repair of Well #1 may not satisfy hydraulic connection issues.

Applicant's Well #2 (MARI 70617): 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.

WATER WELL R of this report are to be STATE OF OREGON E ENGINEER Well No. 55 W-6 ab filed with the STATE ENGINEER, SALEM, OREGON within 30 days from the date Do not write above this line OREGONState Permit No. of well completion. G5986 (1) OWNER: (10) LOCATION OF WELL: Name Paul Wanner County Marian Driller's well number Address Rte Box 244 Woodburn, Oregon 34 Section 6 T. 5S Bearing and distance from section or subdivision corner (2) TYPE OF WORK (check): New Well 17 Deepening [ Reconditioning Abandon [] If abandonment, describe material and procedure in Item 12. (11) WATER LEVEL: Completed well. (3) TYPE OF WELL: (4) PROPOSED USE (check): Depth at which water was first found 112 Rotary Domestic | Industrial | Municipal | Cable Jetted 🔲 Static level ft. below land surface. Date 12/1 Irrigation Test Well | Other Artesian pressure lbs. per square inch. Date CASING INSTALLED: Threaded Welded W (12) WELL LOG: 12 " Diam. from ....... 0 ft. to ..... 160 ft. Gage .250 Diameter of well below casing .... 160 ft. Depth of completed well ." Diam. from ...... ft. to ..... ft. Gage ..... 160 ft. Formation: Describe color, texture, grain size and structure of materials; ..." Diam. from ...... ft. to ..... ft. Gage .... 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 PERFORATIONS: position of Static Water Level and indicate principal water-bearing strata. Perforated? Tyes | No. Type of perforator used Millknife MATERIAL. Size of perforations in. by 3 Surface 0 160 perforations from 135 to Brown sandy clay 3 35 perforations from \_\_\_\_\_ ft. to \_\_\_ Blue sandy clay 35 80 perforations from ...... Blue clay 80 100 Sand (7) SCREENS: 100 112 Well screen installed? Yes No Sand and gravel 112 Manufacturer's Name ..... Sandy clay (blue) 143 Blue clay 155 \_\_\_\_ Slot size \_\_\_\_ Set from \_\_\_\_ ft. to \_\_\_\_ 160 Diam. \_\_\_\_ ft. to \_\_\_\_ ft. (8) WELL TESTS: Drawdown is amount water level is lowered below static level Was a pump test made? Yes \[ \subseteq No \] If yes, by whom? 500 gal./min. with 53 ft. drawdown after 8 hrs. gal./min. with Bailer test ft. drawdown after Artesian flow perature of water Depth artesian flow encountered ..... ft. Work started November 179 72 Completed December 1 1972 Date well drilling machine moved off of well (9) CONSTRUCTION: December 3 1972 Well seal-Material used Bentonite Drilling Machine Operator's Certification: This well was constructed under my direct supervision. Materials used and information reported above are true to my 25 in. Diameter of well bore to bottom of seal .... best knowledge and belief. Diameter of well bore below seal \_\_\_\_\_15½ in. (Prilling Machine Operator) Date Dec. 4..., 19.72 Number of sacks of cement used in well seal ..... Drilling Machine Operator's License No. ....26 Number of sacks of bentonite used in well eal \_\_\_\_\_\_\_ 59\_\_\_\_\_ sacks Brand name of bentonite Yellowstone Water Well Contractor's Certification: Number of pounds of bentonite per 10 gallons This well was drilled under my jurisdiction and this report is .60..... true to the best of my knowledge and belief. Was a drive shoe used? ☐ Yes I No Plugs \_\_\_\_ Size: location ..... ft. Name John Truman Miller Did any strata contain unusable water? Yes No (Person, firm or corporation) (Type or print) Type of water? Hubbard, Oregon 97032 Method of sealing strata off Was well gravel packed? 🗌 Yes 👿 No Size of gravel: ..... (Water Well Contractor) Contractor's License No. 277 Date December 4 , 19.72 Gravel placed from ...... ft. to

NOTICE TO WATER WELL CONTRACTOR The original and first copy

### STATE OF OREGON WATER SUPPLY WELL REPORT

**MARI 70617** 

WELL I.D. LABEL# L 1441:

START CARD # 1055

ORIGINAL LOG #

		upe	-	OI	_
L	144157				
	1055134				

(as required by ORS 53	7.545 & 537.765 and	OAR 690-205-	0210)	10/17	/2022	ORIG	INAL LOC	<del>}</del> #			
(1) LAND OWNER	Owner W	ell I.D									
First Name BRENT					(9) LOCATI	ON OF V	VELL (leg	al descr	ription)		
Company BRENT NELSON					County MARION	Twp	5.00 S	N/S	Range 1.00	W E/W WM	
Address 17280 BOONES FE	State OR	Zip <u>97</u>	7071		Sec 6	IW 1/4	of the NE	1/4	Tax Lot 200	)	
City WOODBURN (2) TYPE OF WORK	New Well	Zip Deepening	Conv	rersion	Tax Map Numbe  Lat°  Long°	r			Lot		
(2) TIPE OF WORK	eration (complete 2a &	2 10) Aban	lonment(cc		Lat°	<u>'</u>	" or 45.1699	0898		_ DMS or DD	
(2a) PRE-ALTERATIO		c 10) Abalic	ionnem(cc	mpiete 3a)	Long°_	'	" or <u>-122.85</u>	502827		_ DMS or DD	
Dia + Fr	om To Gauge	Stl Plstc W	'ld Thrd				f well	e			
Casing:			Ј Ш		17091 BOONES	S FERRY RI	), WOODBU	RN, ORE	GON		
Material Seal:	From To	Amt sacks/lbs	3 7								
(3) DRILL METHOD					(10) STATIC	WATER	LEVEL				
	ry Mud 🗙 Cable	Auger C	able Mud				1	Date S	SWL(psi) +	SWL(ft)	
Reverse Rotary	. — -				Existing We						
					Completed V		9/30/2			98	
(4) PROPOSED USE	Domestic X		Community				ng Artesian?		ory Hole?		
Industrial/ Commerication	= -	· ·			WATER BEARIN	NG ZONES	Dept		as first found _		
ThermalInjection	n Other				SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)	
(5) BORE HOLE CONS	STRUCTION	Special Star	ndard (/	Attach copy)	3/2/2022	133.5	136			46	
Depth of Completed V	Vell 327.50 ft.				3/10/2022	176	208			47	
BORE HOLE	36	SEAL	TF. 4	sacks/	3/14/2022	212	214			47	
Dia From To	Material	From		mt lbs	4/19/2022	263	300.5			51	
20 0 37 16 37 34		O Ca		53 S							
10 37 34			- I Curation	10	(44) 11/11/11	0.0					
		Ca	lculated		(11) WELL LOG Ground Elevation						
How was seal placed:	Method A	∐В ∐С	D	E		Material			From	То	
Other OAR 690-210-	0340		SEMENTE		Topsoil				0	1	
Backfill placed from 32					Clay, brown, me Clay, Greenish g				1 12	12	
Filter pack from 247.5	<u>-                                    </u>				Clay dark greeni		ium, sticky		18	53	
Explosives used: Ye	s Type	_ Amount _			Silt, dark greenis				53	55	
(5a) ABANDONMENT	USING UNHYD	RATED BE	NTONI	TE	Silk, dark greeni				55	58	
Proposed Amount	A	Actual Amount			Clay, Greenish g		, sticky		58	92	
(6) CASING/LINER					Clay, gray, hard,				92	94	
Casing Liner Dia			Stl Plstc		Silt, gray, Sandy Clay, olive gray,				103	103 109	
<u> </u>			$\bullet$	×	Clay bound sand				109	133.5	
$\bullet$ 12	247.5 3	27.5 .250	$\odot$	$\bowtie$	Sand and gravel,				133.5	136	
$\times$	<b>┦╞╬┈┼</b>		$\times \times$	HH	Clay, greenish gr				136	145	
$\bowtie$	$\dashv$ $\models$		$\times \times$	HH	Clay, Dark gray,		cky		145	152	
Shoe Inside X	Outside Other	Location of	shoe(s) 26	7 22	Clay, brown, me Clay, gray, hard,				152 160	160 164	
Temp casing Yes Dia			To	17.33	Clay, gray, hard,		ekv		164	176	
L					Silt, dark greenis				176	183	
(7) PERFORATIONS/S Perforations					Sand, black, fine	, greenish gr	ay silt		183	190	
	pe V WIRE	Material	Stainless		Date Started2	/16/2022	C	omplete	ed 9/30/2022		
Perf/ Casing/ Screen	• —	Scrn/slot Slo		Tele/							
Screen Liner Dia	From To	width leng	th slots	pipe size	(unbonded) Wa I certify that the					na altanotion on	
Screen Casing 12 Screen Casing 12	269.91 277.5 277.5 301	.1								ter supply well	
Screen Casing 12	211.5 301	.23								above are true to	
					the best of my k	_					
					License Number	1704		Date	10/16/2022		
(8) WELL TESTS: Mini	mum testing time i	is 1 hour			Signed LARI		- 01 1				
Pump     P	Bailer Ai	r 🔘	Flowing A	rtesian	LARI LARI	RY AMOS (I	E-filed)				
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)				(bonded) Water Well Constructor Certification							
1000	149	228	5		I accept respons	ibility for th	e constructio	n, deepen	ing, alteration,	, or abandonmen	
										above. All worl	
					construction stan					ter supply wel	
· <del></del>	F Lab analysis Ye		vmt 100				_		-	age and other.	
Water quality concerns? From To	Yes (describe b	eiow) IDS amo	unt 109 Amount	<u>ppm</u> Units	License Number	783		Date 10	0/17/2022		
					Signed IVAN	GROSSEN	(E-filed)				
					Contact Info (op						
					Ī						

**MARI 70617** 

WELL I.D. LABEL# L

144157

START CARD # 1055134

ORIGINAL LOG #

L	144157	
#	1055134	
4		

continuation page	10/17/2022 ORIGINAL LOG #	
(2a) PRE-ALTERATION	Water Quality Concerns	
Dia + From To Gauge Stl Plstc Wld Thrd	From To Description Amount Un	its
	1	$\overline{}$
Material From To Amt sacks/lbs		
		-
(5) BORE HOLE CONSTRUCTION	(10) STATIC WATER LEVEL	
DODE HOLE CEVI	SWL Date From To Est Flow SWL(psi) + SW	/L(ft)
Dia From To Material From To Amt	acks/	
Calculated	<b>─</b> ┃ <del>┃                                   </del>	
Calculated		
Calculated		
Calculated		
Calculated	<del>                               </del>	
Calculated		
FILTER PACK From To Material Size	(11) WELL LOG	
	Material From T	o'
		207
		208
(6) CASING/LINER	7.6 8 7	212 214
(b) CASHVO/LHVLK	7 7 8 8 7	219
Casing Liner Dia + From To Gauge Stl Plstc Wld T	11	224
		228
		239 244
		259
		263
		267
		271 300.5
		308
		315
	Silt, brown, hard	318
		320
(7) PERFORATIONS/SCREENS		332 341
Perf/ Casing/ Screen Scrn/slot Slot # of	Tele/	541
	pe size	
	-	
	Comments/Remarks	
(8) WELL TESTS: Minimum testing time is 1 hour	Bottom plate 327.5 FT	
	Lift bar 1.5' above bottom	
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr		
	l II	

### **MARI 70617**

#### 10/17/2022

# Map of Hole

# STATE OF OREGON WELL LOCATION MAP

This map is supplemental to the WATER SUPPLY WELL REPORT

## Oregon Water Resources Department

725 Summer St NE, Salem OR 97301 (503)986-0900



LOCATION OF WELL

Latitude: 45.16990898 Datum: WGS84

Longitude: -122.85502827

Township/Range/Section/Quarter-Quarter Section:

WM5.00S1.00W6NWNE

Address of Well:

17091 BOONES FERRY RD, WOODBURN, OREGON

Well Label: 144157

Printed: October 17, 2022

DISCLAIMER: This map is intended to represent the approximate location the well. It is not intended to be construed as survey accurate in any manner.

Provided by well constructor

