Approved:

MEMO

To: Kristopher Byrd, Well Construction Manager

From: Tommy Laird, Well Construction Program Coordinator

Subject: Review of Water Right Application G-19255

Date: August 27, 2024

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

Applicant's Well #1 (DESC 59429): 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 Well Report indicates that 48 sacks of bentonite were used to seal the well instead of the calculated 62 sacks that were needed based on the reported borehole and casing diameters. In order to meet minimum well construction standards, the well must be resealed with an approved grout.

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.

STATE OF OREGON

DESC	5942
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WATER SUPPLY WELL REPORT (ORS 537.765 & OAR 690-205-0210)

Instructions for completing this report are on the last page of this form.

WELL LABEL # L _____ START CARD#_ ORIGINAL LOG#

(1) LA	NI	OW	NEF	₹		Owner	Well I.	D			(9) LOCATION OF WELL (legal description)	
First N	ame	12	Du	- 1 T	La	st Name	a te	1 am	D		County Dash Twp 21 Nor S Range 20	E or W W.M
Addres	s .	7 Z.	5,	SUM	mel	5T 1	16 5	T100	,		Sec 34 La 1/4 of the Lu 1/4 Tax Lot 23	0 (
City	<u>5a</u>	12	<u> </u>			State	01	Zip _	973	01	Tax Map Number Lot Lat " or Long " or	
(2) TY	/PE	OF	wo	RK .	New	☐ Conve	ersion	☐ Dec	epening		Lat or	DMS or DD
						0) A b				ction 5a)	Long or	_ DMS or DD
				ATION			Well D	epth		ft.	Street Address of Well (or nearest address) 16 600 HW BYCHA ON 97712	120
Seal N	1ate	rial									BYCHA ON 9771L	
Casing	д Ту	pe:		Steel	☐ PI	lastic [Other				(10) STATIC WATER LEVEL	
		-				sing Diar					(10) STATIC WATER LEVEL Date SWL(psi) +	SWL (ft)
(3) DE	211	1. M	ETH	OD	Rotary	Air 🗆	Rotary N		7 Auger		Existing Well/Pre-Alteration Completed Well 2-/9-/2	143
						Rotary [Flowing Artesian? Yes Dry Hole?	
		_						_			WATER BEARING ZONES Depth water was first found	
(4) PR	ROP	OSI	ED U	SE L	Domesti	ic ⊠ Iπ ck □ De	rigation		Communi	ty		
☐ The						ж 🗀 Б	waterin	g 🗀 m	gection		SWL Date From To Est Flow SWL (psi) +	145
_					RUCTION			_			325 326 /60 pl	143
						t. Special	Standar	d- □ v 6	es (attach	conv)	390 400 (0000)	143
Берш						и вреени			os (actuen	СОРУУ	456 460 100091	43
Dia		ORE From	HOL:	E _To	I Mat	erial	SEA From		Amount	Scks/lbs		<u></u>
7411	+	0		26	Bea		0		48	Soul	(11) WELL LOG Ground Elevation	_
16"		1		460	12						Material From	To
	<u> </u>		+								Top Soil	_2
					<u> —</u>						4: Brain CIN/	26
How w	as se	al pl	aced:	Meth	od 🔲 🗸	A □ B	□С	☐ D	☐ E		Brown Lava Rock 20 Gry Basalt 86	100
X Oth	er_	<u> </u>	ni p	<i>P</i>	ow-	ft. Ma		_			By Yed Clay 100	180
											Black Lave Rook 150	260
iller p	аск	irom		11. 10		t. Material			ize		Fed Clay 260	320
(5a) A	BAN	NDO	NME	NT USI	NG UNHY	YDRATEI	BENT	ONITE	:		PINK Paurice 325	32.0
Calcula	ited.	Amo	unt Pr	oposed t	o be Used	:			sac	cks/lbs	Red Clay 360	3 90
Actual	Amo	ount l	Used:						sa	cks/lbs	Penice , 390	430
											Playe and Brank 430	460
(6) CA	SI	NG/I	LINE	R		1 0	Lac	ن بدا		ıl mı	Sard	
X	ınr	<i>11</i> .	1	From	26	Gauge	Steel	Plasti	c Welde	d Thrd	-	
	-	•	+	+ •		1, 7, 50	1		+			
											Date Started /-26- 12 Completed 2. 19-	/7
Shoe []] ln	side		utside [Other L	ocation of	shoe(s)				(unbonded) Water Well Constructor Certification 1 certify that the work I performed on the construction, deepening	alteration of
Tempor	rary	casin	g 🗆	Yes D	iameter _	F	rom		То		aRECEIVED BY ISOWRD IC PEOPLE DIPPLY CONSTRUCTION Standards. Materials used and information reported about	well
(7) DE	DE	OD A	TIO	NE/CC	DEENC							ve are true to
Perfora			Meth		REENS						the best of my knowledge and belief.	
Screens	3		Туре				//aterial				License Number 1 2 2012 APR 6 5 2C:2	_
	ı		1			1	Screen	.,	1	Tele/	Signed WATER RESOURCES DEPT	
				Screen			slot	Slot	# of	pipe	Signed SALEM, OR SALEM, OREGON	
Perf S	crn	Csng	Linr	Dia	From	To	width		. 1 .	size	(bonded) Water Well Constructor Certification	
	_						_				l accept responsibility for the construction, deepening, alteration,	
-									-		abandonment work performed on this well during the construction da	
-	\dashv					1	+		_		above. All work performed during this time is in compliance with Or supply well construction standards. This report is true to the best of r	•
	_			_							and belief.	,
						ing time					License Number /654 Date 3-25	2 12
-	Pum	-		Bailer				wing Ar			License Number 1634 Date 3-23	
		ıl/mii	1	Drawdo	wn Dri	ill stem/Pui	np deptl	1 I	Duration	(hr)	Signed The	
	750		•	10'		460			h/1		Contact Info. (optional)	
						Yes By						
		ty co		1		e below) T	ī .		1	ppm	Scarch drilling INC	
Fro	m	_	То		Desc	ription	A	mount	Ur	nits	_	

STATE OF OREGON WATER SUPPLY WELL REPORT

DESC 59429

(ORS 537.765 & OAR 690-205-0210)

WELL LABEL # L 103892 START CARD # 193837 ORIGINAL LOG #

Instructions for completing	g this report are on the la	ast page of this form	ORIGINAL LOG#					
(1) LANDOWNER	Owner W	/ell I.D	(9) LOCATION OF WELL (legal description)					
First Name Ochnen	1 0 E S S	te Land	County Dresh Twp 21 Nor S Range 20 E or W W.M.					
Address 775 50	want 5T NE	- 55100	2 - /	Sec 34 Lu 1/4 of the Lu 1/4 Tax Lot 230 (
City Salem	State	Zip <u>47</u>	Tax Map Number Lot					
(2) TYPE OF WORK			Tax Map Number Lot Lat ' . "or					
Alteration (complete Se				VI lac Hwy2c				
(2a) PRE-ALTERATION	ON: Wo	ell Depth	Street Address of Well (or nearest address) 16 600 Hwy20					
Seal Material								
	el Plastic 🗆 🤄		(10) STATIC WATER LEVEL					
Casing Gauge	Casing Diamet	ter	Date SWL(psi) + SWL ((ft)				
(A) DRIVE MERILOR			Existing Well/Pre-Alteration	,				
(3) DRILL METHOD ☐ Cable ☐ Cable Mud	,		er	Completed Well 2-19-12 /43				
	Keverse Kotary	Other		Flowing Artesian? Yes Dry Hole? Yes WATER BEARING ZONES Depth water was first found 240				
(4) PROPOSED USE	☐ Domestic ☐ Irriga	ation 🔲 Commu	nity	-				
Industrial/Commercial		atering Injection	1	SWL Date From To Est Flow SWL (psi) + SWL (ft)			
Thermal	Other			325 326 /60 2 /93				
(5) BORE HOLE CON			.1	390 yes 1000x 143				
Depth of Completed Well	π. Special Sta	andard: Y es (atta	en copy)	430 460 100090 143				
BORE HOLE		SEAL	Jara					
Dia From To		rom To Amou	nt Scks/lbs	(11) WELL LOG Ground Elevation				
16" 26 460) perci C	J ZE YY	750	Material From To				
7. 20 700				Ter Soil 0 2				
				4: Brain C/2/ 2 26				
How was seal placed: M	ethod A B	\Box C \Box D \Box H	Ξ	Brown Lava ROCK 20 86				
Other 3 min	poul			Com Basalt 86 100 By Yed Clay 100 180	-			
Backfill placed from				Black Lave Raph 150 260	,—			
ilter pack from f	. to ft. Material	Size		Fed Clay 260 320	>			
(5a) ABANDONMENT U	SING UNHVDRATED B	RENTONITE:		1 Puniar 1320 32				
Calculated Amount Propos			eacks/lbs	PINK Prince 325 360 Red Clay 360 390				
Actual Amount Used:				Red Clay 360 390				
Tieldai Tillioani Coda.	_	_		Pury's and Brand 430 460				
(6) CASING/LINER				Sard				
Csng Linr Dia + Fi		Steel Plastic We	lded Thrd					
X 164 + 1	26 .250	V						
				Date Started 1-26-12 Completed 2. 19-17				
					_			
Shoe Inside Outsid				(unbonded) Water Well Constructor Certification I certify that the work I performed on the construction, deepening, alteration	on, or			
Temporary casing Yes	Diameter From	m To		abandonment of this well is in compliance to prove pupply well construction standards. Materials used and information reported above are true				
(7) PERFORATIONS/	COPERS				ie to			
	SCREENS			the best of my knowledge and belief.				
	Ma	nterial		License Number APR 5 2C:2				
		Screen/	Tele/	Signed WATER RESOURCES DEPT				
Scre	en	slot Slot #	of pipe	Sal FM, OREGON				
Perf Scrn Csng Linr Di	a From To	width length sk	ots size	(bonded) Water Well Constructor Certification				
		-		I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates repor	Hed			
				above. All work performed during this time is in compliance with Oregon wa				
				supply well construction standards. This report is true to the best of my know				
(8) WELL TESTS: M	nimum tacting time is	1 hour	and belief.					
Pump Bail		☐ Flowing Artesian	License Number 1654 Date 3-25 12	-				
	down Drill stem/Pump		- W					
1750			Signed / Signed					
	ab analysis Yes By		Contact Info. (optional)					
Water quality concerns?			Scarch drilling INC					
From To	Description	Amount	ppm Units					
1	1							