Approved: Market

Мемо

To:	Kristopher Byrd, Well Construction Manager		
From:	Tommy Laird, Well Construction Program Coordinator		
Subject:	Review of Water Right Application G-19371		
Date:	March 6, 2025		

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

Applicant's Well #Well 2 (MARI 4897): Based on a review of the Well Report, Well 2 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The problem is that the Well Report indicates the well was sealed with an unapproved grout 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 and the well must be at least one-foot above land surface.

My recommendation is that the Department not issue a permit for Well 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 2 may not satisfy hydraulic connection issues.

Applicant's Well #Well 3 (MARI 70766): 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 #Well 4 (MARI 4888): 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 the Well Report indicates the well seal was placed with an unapproved seal placement method 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 and the well 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 repair of Well 4 may not satisfy hydraulic connection issues.

	-		-	
NOTICE TO WATER WELL CONTRACTOR		•		
of this report are to be (404), WATER WE		Lla.		~
STATE ENGINEER, SALEM, OREGON 97310	e or print MAY 17 1968 Starwell No.	-100	<u>-</u>	C.,
within 30 days from the date (Do not write a	bove this line)	ło		
or wen completion.	SIALEN OREGON			
(1) OWNER:	(11) LOCATION OF WELL:			
Name Homon Coulot	County Marion Driller's well r	umber	1306	
Address 8550 Wheatland Rd NR Salem Oregon	1/4 1/4 Section 13 T. 6	R.	3W	W.M.
made and and and but one of othe	Bearing and distance from section or subdivisi	on corner		
(2) TYPE OF WORK (check):				······································
New Well 🙀 Deepening 🗌 Reconditioning 🗌 Abandon 🗍				
If abandonment, describe material and procedure in Item 12.				
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(12) WELL LOG: Diameter of well	below cas	ing	
Rotary Driven Cable Detted Domestic Industrial Municipal	Depth drilled 180 ft. Depth of com	oleted well	180	ft.
Dug 🔲 Bored 🗌 🔤 Irrigation 🎞 Test Well 🗌 Other 📋	Formation: Describe color, texture, grain size	and struc	eture of n	naterials;
CASING INSTALLED: Threaded Welded	and show thickness and nature of each strat with at least one entry for each change of for	um and a mation. P	quifer pe eport eac	net rated, h change
10	in position of Static Water Level as drilling p	roceeds. 1	Note drilli	ng rates.
	MATERIAL	From	To	SWL
ft. to ft. Gage	TopSoil	<u> </u>	2	
PERFORATIONS: Perforated? 12 Yes T No.	Brown Clay	2	4.5	
Type of perforator used Mills	Gray Clay	45	60	
Size of perforations ? in. by 3/8 in.	Black sand & gray cley		80	
500 perforations from	Black sand & gravel	080	00	
	Brown Sand & Charal	00	100	
perforations from ft. to ft.	Brown sand & gravel	100	135	
	Gray Clay	135	165	
perforations from ft. to ft.	Black Sand	165	175	<u> </u>
(7) SCREENS: Well screen installed? Ver El No.	Black sand & gravel	175	180	40
Manufacturer's Name				
Type				
Diam Slot size Set from ft. to ft.				
Diam				
(8) WATER LEVEL: Completed well.				
stic level 40 ft. below land surface Date 5-2-68				ļ
Artesian pressure lbs. per square inch Date				+
(A) WEY I MECHICA. Drawdown is amount water lavalie				
(3) WELL TESTS: Drawdown is amount water level is lowered below static level				
Was a pump test made? 🕁 Yes 🗌 No If yes, by whom? Driller	Work started April Q 10900 Comp	leted More	3. 69	, 19 3
eld: 400 gal./min. with 30 ft. drawdown after 12 hrs.	Date well drilling machine moved off of well	Mav	· 3. 68	19
<u> </u>		<i></i>		
<u> </u>	This well was constructed under my	direct su	pervisio	n. Mate-
Bailer test gal./min. with ft. drawdown after hrs.	rials used and information reported at	ove are	true to	my best
Artesian flow g.p.m. Date	knowledge and beller.	•	to 🤝	69-
Temperature of water Was a chemical analysis made? [] Yes [] No	[Signed] (Drilling Machine Operator)	Date I	\$1.Y	.yq19
(10) CONSTRUCTION:	Duilling Machine Oncester's Times 31	1 5 1	-	
Well seal-Material used Drill cuttings & Puddle Clay	Limmy machine Operator's License No			
Depth of seal	Water Well Contractor's Certification:	_ -	-	
Diameter of well bore to bottom of seal12 in.	This well was drilled under my juri	sdiction a	and this	report is
Were any loose strata cemented off? 🗌 Yes 🖾 No Depth	NAME WITTA METTE DETITIO	MPA NV	-	
Was a drive shoe used? 🙀 Yes 🗌 No	(Person, firm or corporation)	(T)	pe or prin	t)
Did any strata contain unusable water? 🔲 Yes 😰 No	Address 7641 35th ave. NE Sal	em. Ore	gon 9	7303
Type of water? depth of strata	\bigcirc $. \land \land$	0	1	
Method of sealing strata off	[Signed] Cmil H	KSC	LlK	2
Was well gravel packed? 🗌 Yes 🛐 No Size of gravel:	(Water Well Cont	ractor)	_	
Gravel placed from ft. to ft.	Contractor's License No	May 4	1968	., 19
(USE ADDITIONAL S	HEETS IF NECESSARY)			

STATE OF OREGON	MARI	70766 WELL I.D. LABEL# L ₁	44161
WATER SUPPLY WELL REPORT		START CARD #	058770
(as required by ORS 537.545 & 537.765 and OAR 690-205-0210)	2/21/2	2023 ORIGINAL LOG #	
LAND OWNER Owner Well I.D.			
irst Name RAY AND MARQUERITE Last Name GANNON	•	(9) LOCATION OF WELL (legal des	serintion)
ompany		County MANON Two COO S N/S	
ddress 27011 SW PETES MOUNTAIN RD.		$\frac{\text{County} \text{MARION}}{\text{MARION}} \text{Twp} 0.00 \text{S} \text{IV/S}}$	$\frac{1}{100} \frac{1}{100} \frac{1}$
ity WEST LINN State OR Zip 97068		Sec 13 NE 1/4 of the NE 1/	4 Tax Lot <u>400</u>
TYPE OF WORK X ^{New Well} Deepening Conv	version	1 ax Map Number " or 45 05252274	Lot DMS or DI
Alteration (complete 2a & 10) Abandonment(co	omplete 5a)	Lat $01 \frac{43.05352274}{45.05352274}$	DMS of DI
a) PRE-ALTERATION		Street address of well	DIVIS OF DI
Casing:		3301 BROOKLAKE RD NE SALEM OR 97	303
Material From To Amt sacks/lbs			505
Seal:			
DRILL METHOD		(10) STATIC WATER LEVEL	
Rotary Air Rotary Mud Cable Auger Cable Mud		Date	SWL(psi) + SWL(ft)
Reverse Rotary Other		Existing Well / Pre-Alteration	
		Flowing Artesian?	Dry Hole?
Industrial Communicial Linester In Community	у		
Industrial/ Commercial Livestock Dewatering		WATER BEARING ZONES Depth water	r was first found 63.00
Inermal Injection X Other CEKI 50/15		SWL Date From To Est Fl	ow SWL(psi) + SWL(ft)
BORE HOLE CONSTRUCTION Special Standard ((Attach copy)	10/7/2022 63 65	45
Depth of Completed Well 257.00 ft.		10/10/2022 81 87	45
BORE HOLE SEAL	sacks/	10/13/2022 98 135	46
Dia From To Material From To A	Amt lbs	10/18/2022 140 141	51
20 0 30 Bentonite Chips 0 36 16 36 257 Calculated	44 S 44	10/19/2022 165 177	52
Calculated		(11) WELL LOG Ground Elevation	
How was seal placed: Method A B C D	E	Material	From To
X Other OAR 690-210-0340	_	Gravel	0 0.5
Backfill placed from ft. to ft. Material		Clay,brown, hard	0.5 12
Filter pack from <u>176</u> ft. to <u>257</u> ft. Material GRAVEL Size	3/8 8	Clay, brown, medium	12 28
Explosives used: Yes Type Amount		Clay, brown, sandy, hard	28 30
		Clay, brown, medium, sticky	30 43
Proposed Amount Actual Amount	111	Silt dark greenish gray sandy hard	53 67
		Gravel and sand, siltbound,	62 63
Casing Liner Dia + From To Caugo Sti Dista	Wid Thed	Gravel and sand,black,loose	63 65
$\boxed{\bullet} \qquad \boxed{16} \qquad \boxed{X} \qquad 2 \qquad 200 \qquad 375 \qquad \boxed{\bullet} \$ {\bullet} \{\bullet} \{\bullet} \@} \{\bullet} \@} \@} \@} \@} \@} \@} \@} \@} \@} \@		Clay,dark gray, soft	65 74
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		Silt,dark gray, sandy,hard	74 81
	ΗH	Gravel and sand, black	81 87
		Silt dark gray medium	<u> </u>
		Gravel.cobbles.brown sand	98 135
Shoe Inside Outside Other Location of shoe(s) 20	00 —	Clay, greenish gray,soft,some gravel	135 140
Temp casing Yes Dia From $+\Box$ To		Black sand and gravel	140 141
		Clay, greenish gray,hard,sticky	141 154
Perforations Method		Silt,gray,medium	154 161
Screens Type v wire Material stainless s	steel	Date Started 10/3/2022 Comple	eted 1/21/2023
Perf/ Casing/ Screen Scrn/slot Slot # of	Tele/	Complete Complete	
Screen Liner Dia From To width longth slots	s pipe size	(unbonded) Water Well Constructor Certifica	tion
Screen Liner Dia Promi 10 width length slots		I certify that the work I performed on the cons	truction, deepening, alteration,
Screen Casing 12 202.25 254 .22		abandonment of this well is in second	with Oragon water1-
Screen Casing 12 202.25 254 .22		abandonment of this well is in compliance	with Oregon water supply we
Screen Casing 12 202.25 254 .22		abandonment of this well is in compliance construction standards. Materials used and infor the best of my knowledge and belief.	with Oregon water supply we rmation reported above are true
Screen Casing 12 202.25 254 .22		abandonment of this well is in compliance construction standards. Materials used and infor the best of my knowledge and belief. License Number 1704 Date	with Oregon water supply we rmation reported above are true
Screen Casing 12 202.25 254 .22		abandonment of this well is in compliance construction standards. Materials used and infor the best of my knowledge and belief. License Number <u>1704</u> Date	with Oregon water supply we rmation reported above are true
Screen Casing 12 202.25 254 .22 WELL TESTS: Minimum testing time is 1 hour		abandonment of this well is in compliance construction standards. Materials used and infor the best of my knowledge and belief. License Number <u>1704</u> Date Signed LARRY AMOS (E-filed)	with Oregon water supply we rmation reported above are true <u>1/22/2023</u>
Screen Casing 12 202.25 254 .22 WELL TESTS: Minimum testing time is 1 hour • Pump Bailer Air Flowing A	Artesian	abandonment of this well is in compliance construction standards. Materials used and infor the best of my knowledge and belief. License Number <u>1704</u> Date Signed <u>LARRY AMOS (E-filed)</u>	with Oregon water supply we rmation reported above are true <u>1/22/2023</u>
Screen Casing 12 202.25 254 .22 WELL TESTS: Minimum testing time is 1 hour • Pump Bailer Air Flowing A Yield gal/min Drawdown Drill stem/Pump depth Duration (1)	Artesian (hr)	abandonment of this well is in compliance construction standards. Materials used and infor the best of my knowledge and belief. License Number 1704 Date Signed LARRY AMOS (E-filed) (bonded) Water Well Constructor Certification	with Oregon water supply we rmation reported above are true <u>1/22/2023</u>
Screen Casing 12 202.25 254 .22 WELL TESTS: Minimum testing time is 1 hour • Pump Bailer Air Flowing A Yield gal/min Drawdown Drill stem/Pump depth Duration (1) 1125 69 157 4	Artesian hr)	abandonment of this well is in compliance construction standards. Materials used and infor the best of my knowledge and belief. License Number 1704 Date Signed LARRY AMOS (E-filed) (bonded) Water Well Constructor Certification I accept responsibility for the construction, deep work performed on this well during the accept	with Oregon water supply we rmation reported above are true <u>1/22/2023</u> n pening, alteration, or abandonm
Screen Casing 12 202.25 254 .22 WELL TESTS: Minimum testing time is 1 hour • Pump Bailer Air Flowing A Yield gal/min Drawdown Drill stem/Pump depth Duration (0 1125 69 157 4	Artesian (hr)	abandonment of this well is in compliance construction standards. Materials used and infor the best of my knowledge and belief. License Number 1704 Date Signed LARRY AMOS (E-filed) (bonded) Water Well Constructor Certification I accept responsibility for the construction, deep work performed on this well during the construction performed during this time is in compliance	with Oregon water supply we rmation reported above are true <u>1/22/2023</u> n pening, alteration, or abandonm ion dates reported above. All w
Screen Casing 12 202.25 254 .22 WELL TESTS: Minimum testing time is 1 hour • Pump Bailer Air Flowing A Yield gal/min Drawdown Drill stem/Pump depth Duration (I) 1125 69 157 4	Artesian (hr)	abandonment of this well is in compliance construction standards. Materials used and infor the best of my knowledge and belief. License Number <u>1704</u> Date Signed <u>LARRY AMOS (E-filed)</u> (bonded) Water Well Constructor Certification I accept responsibility for the construction, deep work performed on this well during the construct performed during this time is in compliance construction standards. This report is true to the H	with Oregon water supply we rmation reported above are true <u>1/22/2023</u> n pening, alteration, or abandonm ion dates reported above. All w with Oregon water supply v pest of my knowledge and belie
Screen Casing 12 202.25 254 .22 WELL TESTS: Minimum testing time is 1 hour • Pump Bailer Air Flowing A Yield gal/min Drawdown Drill stem/Pump depth Duration () 1125 69 157 4 Temperature 54 °F Lab analysis Yes By	Artesian (hr)	abandonment of this well is in compliance construction standards. Materials used and infort the best of my knowledge and belief. License Number 1704 Date Signed LARRY AMOS (E-filed) (bonded) Water Well Constructor Certification I accept responsibility for the construction, deep work performed on this well during the construction performed during this time is in compliance construction standards. This report is true to the build in the construction standards. This report is true to the build in the construction performed number 2002	with Oregon water supply we rmation reported above are true <u>1/22/2023</u> n pening, alteration, or abandonm ion dates reported above. All we with Oregon water supply we pest of my knowledge and belief
Screen Casing 12 202.25 254 .22 WELL TESTS: Minimum testing time is 1 hour • Pump Bailer Air Flowing A Yield gal/min Drawdown Drill stem/Pump depth Duration (I) 1125 69 157 4 Temperature 54 °F Lab analysis Yes By Water quality concerns? Yes (describe below) TDS amount 73 Prom To	Artesian (hr) ppm Units	abandonment of this well is in compliance construction standards. Materials used and information the best of my knowledge and belief. License Number 1704 Date Signed LARRY AMOS (E-filed) (bonded) Water Well Constructor Certification I accept responsibility for the construction, deep work performed on this well during the construction performed during this time is in compliance construction standards. This report is true to the best in the total standards. This report is true to the best of the total standards. This report is true to the best of the total standards. This report is true to the best of the total standards. This report is true to the best of the total standards. This report is true to the best of the total standards. This report is true to the best of the total standards. This report is true to the best of the total standards. This report is true to the best of the total standards. This report is true to the best of the total standards. This report is true to the best of the total standards. This report is true to the best of the total standards. This report is true to the best of the total standards. This report is true to the best of the total standards. This report is true total standards.	with Oregon water supply we rmation reported above are true <u>1/22/2023</u> n pening, alteration, or abandonm ion dates reported above. All w with Oregon water supply w best of my knowledge and belie <u>2/21/2023</u>
Screen Casing 12 202.25 254 .22 WELL TESTS: Minimum testing time is 1 hour • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • •	Artesian (hr) ppm Units	abandonment of this well is in compliance construction standards. Materials used and infort the best of my knowledge and belief. License Number 1704 Date Signed LARRY AMOS (E-filed) (bonded) Water Well Constructor Certification I accept responsibility for the construction, deep work performed on this well during the construction genome during this time is in compliance construction standards. This report is true to the the License Number 783 Date Signed IVAN GROSSEN (E-filed)	with Oregon water supply we rmation reported above are true <u>1/22/2023</u> n pening, alteration, or abandonm ton dates reported above. All w with Oregon water supply w pest of my knowledge and belie: <u>2/21/2023</u>

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version: New exempt use wells must be submitted with a map and recording fee.

WATER SUPPLY WELL REPORT -

continuation page



WELL I.D. LABEL# L 144161 START CARD # 1058770 ORIGINAL LOG

ORIGINA

Water Quality Concerns

MARI 70766

From	То	Description	Amount	Units

(10) STATIC WATER LEVEL

SWL Date	From	То	Est Flow	SWL(psi)	+	SWL(ft)
10/28/2022	191.5	254				52

(11) WELL LOG

Material	From	То
Silt,gray,hard,sandy	161	165
Sand,fine,black,dark gray silt	165	175
Sand and gravel, black	175	177.5
Clay, dark greenish gray, hard, dry	177.5	183
Claystone and hard silt, olive gray, bed	183	191.5
Gravel and sand, clay bound	191.5	196
Gravel,sand, cobbles, bedded with clay	196	212
Gravel, sand, cobbles, loose	212	254
Sandy clay, some gravel	254	256
Cemented gravel	256	257

Comments/Remarks

Bottom plate welded at 257' Lift bar welded at 255.5' **no well drilling took place after static was taken** WATER SUPPLY WELL REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow **MARI 70766**

2/21/2023

Map of Hole

STATE OF OREGON WELL LOCATION MAP

This map is supplemental to the WATER SUPPLY WELL REPORT

LOCATION OF WELL

Latitude: 45.05352274 Datum: WGS84 Longitude: -122.99201897 Township/Range/Section/Quarter-Quarter Section: WM6.00S3.00W13NENE Address of Well: 3301 BROOKLAKE RD. NE, SALEM , OR, 97303

Oregon Water Resources Department 725 Summer St NE, Salem OR 97301

Well Label: 144161

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



Printed: February 9, 2023

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



MARI 70766

2/21/2023

Map of Hole

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Provided by well constructor



A WATER WELL CONTRACTOR	L REPORT
are to be filed with the	AL REPORT MAINE State Well No (OSI3W-13
RESOURCES DEPARTMENT, STALEM, OREGON 97310 (Please yr	of pride
thin 30 days from the date	State Permit No.
WATER RESOURCE	8
(1) OWNER: SALEM ON CES	(10) LOCATION OF WELL:
Name William S. Downer OREGO	County. Marion Driller's well number X 2161
Address 9700 River Rd. NE	<u><u>14</u> <u>14</u> Section <u>13</u> T. 6S R. <u>3W</u> W.M.</u>
Brooks, Uregon 9/305	Bearing and distance from section or subdivision corner
(2) TIPE OF WORK (check):	
New Well X Deepening Reconcitioning Abandon I	
(2) TYPE OF WELL: (A) PROPOSED USE (check):	(11) WATER LEVEL: Completed well.
Rotary X Driven D	Depth at which water was first found 99 ft.
CableJettedDomesticIndustrialMunicipal	Static level 40 ft. below land surface. Date 7/1/10
Dug Bored [] Infigation X Test went [] Other []	Artesian pressure lbs. per square inch. Date
CASING INSTALLED: Threaded D Welded X	(12) WELL LOG: Diameter of well below casing
10 " Diam. from top ft. to 103 ft. Gage .230	Depth drilled 163 ft. Depth of completed well 163 ft.
" Diam. from ft. to ft. Gage	Formation: Describe color, texture, grain size and structure of materials;
It. to	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: Perforated? X Yes D No.	position of Static Water Level and indicate principal water-bearing strata.
Type of perforator used Mills Knife Perforator	MATERIAL From To SWL
Size of perforations $\frac{3/8}{1000}$ in. by $\frac{22}{2}$ in.	Topsoil 0 2
800 perforations from 110 ft. to 160 ft.	Brown Clay 2 42
	Brown Sand and Gravel
perforations from ft. to ft.	with Brown Clay 76 99
(7) SCREENS: Well screen installed? Yes X No	Brown Sand and Gravel 99 163
Manufacturer's Name	
Type	
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? driller	
yield: 650 gal./min. with 5 ft. drawdown after 2 hrs.	
" " "	
<u> </u>	
Bailer test gal./min. with ft. drawdown after hrs.	
Artesian flow g.p.m.	
nperature of water Depth artesian flow encountered ft.	Work started 7/6/78 19 Completed 7/7/78 19
(9) CONSTRUCTION:	Date well drilling machine moved off of well $1/8/18$ 19
Well seal-Material used Portland Cement	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 $1/\frac{1}{2}$ in.	best knowledge and belief.
Diameter of well bore below seal 10 in.	[Signed] A. allan I. N. Cup. Date 7/8/78, 19.
Number of sacks of cement used in well seal <u>24</u> sacks	Drilling Machine Operator's License No. 752
How was cement grout placed? Poulou in the colle col	
	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
Was a drive shoe used? 🕅 Yes 🗌 No Plugs Size: location ft.	Name Willamette Drilling Co.
Did any strata contain unusable water? 🛛 Yes 🐰 No	(Person, firm or corporation) (Type or print)
Type of water? depth of strata	Address 1450 Barnick Rd. NE Salem, OR 9730
Method of sealing strata off	[Signed] & allow I APOIL
Was well gravel packed? 🗌 Yes 💢 No Size of gravel:	(Water Well Contractor)
Gravel placed from ft. to ft.	Contractor's License No. <u>561</u> Date <u>7/8/78</u> , 19
(USE ADDITIONAL 8)	HEETS IF NECESSARY) SP*45656-119