Approved: Jart MA

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To:	Kristopher Byrd, Well Construction Manager
From:	Tommy Laird, Well Construction Program Coordinator
Subject:	Review of Water Right Application G-19146
Date:	June 3, 2024

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

Applicant's Well #1 (MARI 54600): Based on a review of the Well Report, Applicant's Well #1 seems to protect the groundwater resource.

The construction of Well #1 may not satisfy hydraulic connection issues.

Applicant's Well #2 (MARI 7750): 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 according to the Water Supply Well Report, the well is not sealed to the proper depth. In order to meet minimum construction standards, the well must be recased and resealed with an approved grout to a minimum depth of 158 feet bgs.

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

Applicant's Well #3 (MARI 16624): 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. In order to meet minimum construction standards, the well must be recased and resealed with an approved grout to a minimum depth of 104 feet bgs.

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.

Applicant's Well #4 (MARI 15392): Based on a review of the Well Report, Applicant's Well #4 seems to protect the groundwater resource.

The construction of Well #4 may not satisfy hydraulic connection issues.

Applicant's Well #5 and Well #6 (Proposed): Well #5 and Well #6 are proposed wells, therefore they cannot be reviewed for construction. Construction of these proposed wells shall be completed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240. During construction of these wells, specific attention should be paid to ensure sealing requirements are met and that the wells do not commingle aquifers.

The construction of proposed Well #5 and Well #6 may not satisfy hydraulic connection issues.

Applicant's Well #7 (MARI 58808): Based on a review of the Well Report, Applicant's Well #7 seems to protect the groundwater resource.

The construction of Well #7 may not satisfy hydraulic connection issues.

Applicant's Well #8 (MARI 4414): Based on a review of the Well Report, Well #8 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. In order to meet minimum construction standards, the well must be recased and resealed with an approved grout to a minimum depth of 18 feet bgs.

My recommendation is that the Department **not issue** a permit for Well #8 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 #8 may not satisfy hydraulic connection issues.

<u>^</u>				RE		EIVED				
WATER SU (as required b	F OREGON PPLY WELL J y ORS 537.765)		00	FE WATER	B (RES) 4 2000 OURCES DEPT.	Pg] J	2 <u>319</u> 1211	26	
(1) OWNER: Name M G Y Address 6 5 City 5 a l e (2) TYPE OF V New Well (3) DRILL ME Address 6 5 (2) TYPE OF V New Well (3) DRILL ME Address 4 e (3) DRILL ME Construct Domestic Domestic Domestic Domestic Domestic Domestic Domestic Domestic Domestic Domestic Domestic Domestic Domestic Domestic Thermal (5) BORE HO Special Construct Explosives used HOLE Diameter From 14 0 13 12 25 12 30	OO SI WORK Deceening [] Alta Deceening [] Alta Alta THOD: Alta Rotary Mud Injection DUSE: Community Injection Ite CONSTRUC tion approval [] Yee Yee Yos [Z]No T Mate 30 Ite Construct 112 Ite Construct	State O State O Sta	/ell Numbo S-+ R econdition Auger Difference Oth h of Comp. Amo To II 2 4	Zip 97.3 Zip 97.3 a) Abandonm gation ber leted Well 4/6 Sacks or possids // 4/ber		$\frac{SE}{(10) \text{ STATIC WATER}}$ $\frac{7.3}{\text{ Artesian pressure}}$ $(11) \text{ WATER BEARIN}$ Depth at which water was $\frac{\text{From}}{8}$ 20 7.5 $\frac{19.5}{8}$	Latitude N or S Range N E 1/4 ot Block (or nearest address) C C R R LEVEL: ww land surface. Ib. per squar NG ZONES:	$\frac{1}{85}$	ngitude E or \ 1/4 ubdivision 2 4 + h Date / - 2 Date d Flow Rate	Ave 8- 8 0
How was seal placed from Gravel placed from (6) CASING/L	om ft. to m ft. to	ft.	B X G Material Size of g	C X D [Materia Top Soil		From O	⊡ 2 8	SWL
Diameter Casing: 10 in Liner: 8 in 8 in	From To +1 112 +8in 400 +8in +24			Welded Three C C C C C C C		Decomposed broken Clays Red & brow Decomposed brown Clay Weathered red + brown	basalt with clay basalt with clay Clay	4 4 20 4 40	14 20 40 50	
Final location of f (7) PERFORA Perforation Screens From To 295 395	TIONS/SCREE s Method] Type Slot .2 sizeNumbe	r, Diameter	Mater Tele/pipe size	Casing L		Gray basa Red brown Weathered Black ba Black basa Black basa Black basa fractured	Cinders i basalt basalt basalt rsalt rsalt	50 014 78 84 84 88 91 163	78 84 88 91 163 177	
(8) WELL TES	TS: Minimum	testing time i				Cont P Date started 1-10- (unbonded) Water Well (I certify that the work I of this well is in compliant Materials used and inform and belief.	performed on the const ce with Oregon water st	ion: ruction, alter upply well co e true to the t	nstruction st est of my kr	undonment tandards. nowledge
Temperature of w Was a water analy Did any strata com Salty Muc Depth of strata:	vsis done?	Depth of the second sec	CE d use?	und VED Too little 2000		Signed (bonded) Water Well Con I accept responsibility f performed on this well dur performed during this time construction standards. Th Signed Low	or the construction, altering the construction dates in compliance with	ration, or ab- tes reported a	bove. All w r supply well owledge and mber <u>127</u>	<u>vork</u>

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MARI	CEIVED	
STATE OF OREGON 54600 FEE	304 2000 <u>Pg 2 of</u>	٤
		81926
(as required by ORS 537.765) Instructions for completing this report are on the last page of this form. SAL	ESOURCES DEPT. START CARD # _/_	21164
(1) OWNER: Well Number	(9) LOCATION OF WELL by legal descripti	ion:
Name Muron Kuenzi	County Marion Latitude	Longitude
Address 6500 State St	Township 7-5 N or S Range 2-	- <i>W</i> E or W. WM.
City Salem State OR Zip9730	Section <u>34</u> NE $1/4$ N	
 (2) TYPE OF WORK New Well Deepening Alteration (repair/recondition) Abandonment (3) DRILL METHOD: 	Tax Lot <u>00500</u> Lot Block Street Address of Well (or nearest address) <u>58</u> , <u>5F</u> Salem	Subdivision 574th Ave
Kotary Air Rotary Mud Cable Auger	(10) STATIC WATER LEVEL:	
Other	<u>73</u> ft. below land surface.	Date 1-28-00
(4) PROPOSED USE: Domestic Community Industrial Irrigation	Artesian pressure lb. per square ind (11) WATER BEARING ZONES:	ch. Date
Thermal Injection Livestock Other	(II) WATER BEAKING ECHES.	
(5) BORE HOLE CONSTRUCTION:	Depth at which water was first found	
Special Construction approval Yes No Depth of Completed Well <u>400</u> ft.		
Explosives used Yes Xeo Type Amount HOLE SEAL	From To I	Estimated Flow Rate SWL
Diameter From To Material From To Sacks or pounds		
	(12) WELL LOG:	
How was seal placed: Method A B C D E	Ground Elevation	
Other		
Backfill placed fromft. toft. Material Gravel placed from ft. to ft. Size of gravel	Gray basalt Simi-	From To SWL
(6) CASING/LINER:	fractured	177 195
Diameter From To Gauge Steel Plastic Welded Threaded	Weathered basalt	195 226
	under basan ber	226 230
	Fractured black basalt with Claustone Layers	230266
		266 290
	Weathered basalt.	290 309
	Soft black basalt with	200 2//
Final location of shoe(s)	Weathered seams Black basalt Simi	309 366
Perforations Method		366 378
Screens Type Material	Black busalt with	
Slot Tele/pipe From To size Number Diameter size Casing Liner	fractured seams.	378 392
	Gray basalt very	392 397
	Soft gray basalt	397 400
	· •	
(8) WELL TESTS: Minimum testing time is 1 hour	Date started $1 - 10 - 00$ Completed	1 1 - 28 - 00
Flowing	(unbonded) Water Well Constructor Certification:	
Pump Bailer Air Artesian	I certify that the work I performed on the construct of this well is in compliance with Oregon water suppl	
Yield gal/min Drawdown Drill stem at Time 1 hr.	Materials used and information reported above are tru and belief.	
¥ 441		VWC Number 1629
	Signed June Jan	Date / -2.1 -00
Temperature of water Depth Artesi Fred Ger VED	(bonded) Water Well Constructor Certification:	on or abandonment w1-
Was a water analysis done? Yes By whom Did any strata contain water not suitable for intended use?	I accept responsibility for the construction, alterati performed on this well during the construction dates r	eported above. All work
Did any strata contain water not suitable for intended use? Salty Muddy Odor Colored Other 2 4 2000	performed during this time is in compliance with Ore construction standards. This report is true to the best	gon water supply well of my knowledge and belief.
Depth of strata:	T PO IOIO	WWC Number 1273
WATER RESOURCES DEI SALEM, OREGON	Bigned Thoge I supper	Date <u>1-28-00</u>

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

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STATE OF OREGON RECEIVED MAR WATER WELL REPORT (as required by ORS 537.765) UL - 2 1986 PLEASE TYPE	OF PRINT IN INK	13/2	W-	27dc
WATER REPORT	OF FRINT IN INF	(for offi	icial use	only)
(1) OWNER: SALEN OPPOT	(10) LOCATION OF WELL by lega	l descri	intior):
Name Carl Jensen Jr.	County Marion SW 14 SE 14			of
Address 6532 Howell Prairie Rd. NE	Township T7S Barron 2	W		. WM.
City Salem State Or.	(Township is North or South) Tax Lot Lot Block Subdivision	(Range is Eas	t or West))
(2) TYPE OF WORK (check):	MAILING ADDRESS OF WELL (or nearest address) $\frac{1}{2}$			st of
New Well 🖄 Deepening 🗆 Reconditioning 🗆 Abandon 🗆 If abandonment, describe material and procedure in Item 12.	Howell Prairie Rd. on No. State St.	rth s	ide	of
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(11) WATER LEVEL of COMPLET	TED WI	ELL:	
Rotary Air 🙀 Driven 🗌 Domestic 🗌 Industrial 🗌 Municipal 🔲	Depth at which water was first found 55			ft.
Rotary Mud Dug D. Irrigation 🖾 Withdrawal D Reinjection D	Static level 70 ft. below	land surface	e. Date	6-27-86
Cable Dered Other: Piezometric Grounding Test	Artesian pressure lbs. per	square incl	n. Date	-
CASING INSTALLED: Steel Plastic Welded	(12) WELL LOG: Diameter of well below Depth drilled 400 ft. Depth of	f completed	well 4	400 ft.
<u>1.2</u> " Diam. from	Formation: Describe color, texture, grain size and structure and nature of each stratum and aquifer penetrated, with at formation. Report each change in position of Static Way water-bearing strata.	east one ent	TV for an	ah ahanga of
► LINER INSTALLED: Steel □ Plastic □ Threaded □ Welded □	MATERIAL	From	То	SWL
"Diam. from	Soil med brown		2	DWL
	Clay med brown	2	20	
(6) PERFORATIONS: Perforated? Size of perforations in. by in.	Clay brwn, gravel mix	20	39	
	<u>Clay med brown</u>	39	_55	
perforations from	Cemented gravel tight	55	81	H2o
perforations from	Sand med gray	81	86	
	Conglomerate grey	86	147	
(7) SCREENS: Well screen installed? Yes A No Manufacturer's Name	<u>Decompsed cap rock red</u> Basalt hard grev	147 153	153	
Type	Weatherd basalt brn-red		162 201	
Diam Slot Size Set from ft. to	Basalt hard grey-fract		206	H20
Diam ft. to ft. to ft.	Basalt med hard blk			
(8) WELL TESTS: Drawdown is amount water level is lowered	Basalt hard grey		291	
below static level	Basalt hard semi fract		325	
Was a pump test made? Yes X No If yes, by whom?	Basalt hard gry-fract		<u>338</u>	
Vield: Air 500-60@l./min. with ft. drawdown after hrs.	Basalt visic gry	338		<u>H20</u>
	<u>Basalt hard gry</u> Basalt fract grey		398	
Air test O U = 0 U = 0 U gal/min. with drill stem at 3 5 () ft. 2 hrs. Bailer test gal/min. with ft. drawdown after hrs.		398	400	
Artesian flow g.p.m.				
Temperature of water Depth artesian flow encountered ft.				
(5) CONSTRUCTION: Special standards: Yes D No 😡	Date work started $6-13-86$ /complete		7-86	
Well seal—Material used <u>Cement grout</u>	Date well drilling machine moved off of well	6-2	7-86	19
Well sealed from land surface to $20 \& 12$ bags @ $150-160$ 'ft	(unbonded) Water Well Constructor Certifica	tion (if a	pplical	ole):
Diameter of well bore to bottom of seal	This well was constructed under my direct supe	rvision. M	aterials	sused and
Diameter of well bore below seal	information reported above are true to my best kno	wledge and	d belief.	
Amount of sealing material $\frac{4.7}{1.000000000000000000000000000000000000$	[Signed]	Date		, 19
How was cement grout placed? Pumped with dia. pump	(bonded) Water Well Constructor Certificatio			
thru 2" pipes, up to 150', gravel	Bond Issued by:			
3/4" from 150 up to 20' Cement to 1s	(number) (Sure	ty Company 1	Name)	
Was pump installed?	On behalf of <u>Staco Well Service</u> (type or print name of Wat	<u>⊇S, Ţr</u> er Well Cónst	T.C.	
Was a drive shoe used? Yes X No Plugs Size: location ft. Did any strata contain unusable water? Yes X No	This well was drilled under my jurisdiction ar	9 Z E	1	
Type of Water? depth of strata	best of my knowledge and belief:	u uns rep	ort is ti	rue to the
Method of sealing strata off	(Signed) Chuck Stadeli	1		
Was well gravel packed? Ves X No Size of gravel:	(Water Well Constructo	r)	······	
Gravel placed from ft. to ft.	(Dated) <u>6-30-86</u>			****
NOTICE TO WATER WELL CONSTRUCTOR	WATER RESOURCES DEPARTMENT		07	*****

The original and first copy of this report are to be filed with the

SP*46866-690

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STATE OF OREGON	DE	CEI	IVE	MAR	ROD 7	n/2u	k	5K	7
(as required by ORS 537.765)	UU ,	JUN 8	3 1989	回10624 (S	TART CARD) #	9141			
(1) OWNER: Name PFENNIG FARMS	Well Nump	EEM. O	RECO	(9) LOCATION	L'átitude	′″I	ongitude		ı ı
Address 6092 Macleay Road	S.E.			Township 7 Sou	<u>ith</u> N or S, Range 2	West		E or W,	WM.
City Salem State	<u>Oregon</u>	Zip 973	01	Section 35	<u>SW</u> 1/4	NW	- ¼		
(2) TYPE OF WORK:					_ Lot Block		Subdi	vision	
XX New Well Deepen Recondition	Ab:	andon		Street Address of W	ell (or nearest address) _ ck Sale	m Ore			•
(3) DRILL METHOD			-						
XX Rotary Air				(10) STATIC W	elow land surface.		Doto	6–3–8	39
(4) PROPOSED USE:					lb. per squ	are inch.	Date .		
$\underbrace{K}_{X} Domestic \qquad \Box \; Community \; \Box \; Industrial$	🗌 Irrigati	ion		(11) WATER B			·····		
Thermal Injection Other				Depth at which water was			Feet		
(5) BORE HOLE CONSTRUCTIO	N: h of Complete		58 д	From	To		ated Flow	Rate	SWL
Special Construction approval Yes No Dept Yes No 🛛 XX	h of Complete	ea weii	<u> </u>	136 Ft	252 Ft	250	GPM		105'
Explosives used 🗌 🏋 Type	. Amount								
HOLE SEAL Diameter From To Material From	n To	Amo sacks or							
12" 0' 79' Cement 0'		38	pounda	(12) WELL LO	<u>C.</u>	<u>i</u>			
8" 79' 258				(12) WELLLO	Giodidelevaa	ion			
				0.1	Material		From	т <u>о</u> 2	SWL
How was seal placed: Method A B K (<u> </u>	<u> </u>		Soil Brown Clay			2	14	
Other				Large Boulde	r		14	21	
	terial			Weathered Ro	ck		21	70	
Gravel placed from ft. to ft. Siz	e of gravel			Gray Basalt	Firm		70	86	
(6) CASING/LINER:				the second se	d Weathered R	lock	86	99	
Diameter From To Gauge Stee Casing: 8" +1 79" 250 Image: Stee	Plastic V	Welded T	hreaded	Black Basalt Gray Basalt	Firm		<u>99</u> 124	<u>124</u> 136	
$C_{asing:}$ 8" +1 79" .250 \Box				Black Basalt		3	$\frac{124}{136}$	187	
			. 🗖	Black Broken	the second se		187	203	
				Gray Basalt	Very Firm		203	246	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				Gray Broken Gray Basalt	Basalt WI Firm	3	<u>246</u> 252	252	105'
Final location of shoe(s)		Ш		Gray Dasall	FLLIII			2.00	105
(7) PERFORATIONS/SCREENS				Air Test May	Fluctuate.				
X Perforations Method	Electr	ic Dri	11						
Screens Type	Material			5% Bentonite	<u>Used To Sea</u>	L_Well	•		
Slot From To size Number Diameter	Tele/pipe size	Casing	Liner						
From To size Number Diameter $223'$ $258'$ $250 \frac{1}{2}$ Rou			XX						
					-31-890 Cor	• • •	6-3-	80	<u> </u>
		П				mpleted		0.7	
(8) WELL TESTS: Minimum testin	g time is	1 hour		(unbonded) Water	Well Constructor C ne work I performed	ertificat: on the co	ion: mstructi	on, alte	ration, o
□ Pump □ Bailer XX Air	8	Flowing		abandonment of thi	s well is in complian	ice with (Oregon	well cor	structior
	omat	Tim		standards. Materials knowledge and belief.	used and information	reported	above a	re true to	o my besi
Yield gal/minDrawdownDrill st250252		1 hr							
				Signed		E	Date		
				(bonded) Water We	ell Constructor Cert	ification	1 : 4 amo 4 d	or -1	
	Artesian Flow			work performed on t	sibility for the constr his well during the co	nstruction	n dates r	eported	above. al
Was a water analysis done? Yes By whom				work performed du	ring this time is i	in compl	iance w	ith Ore	egon wel
Did any strata contain water not suitable for intended	use? ∐ To	o little		belief. MONDER	ds. This report is tru 5 DRI LING, I	e io ine b NC. 🗤	NANC N.	iy KIIOW.	lage and
□ Salty □ Muddy □ Odor □ Colored □ Ot Depth of strata:				Signed . D.	Monda		Date $\underline{\phi}$	<u>\$ *(</u>	
Depth of strata:		1ENT	SECO	ND COPY - CONSTRUCT					9809C 3/8

-	-	W	UCT - 5		auri) r	-e /-	DAN	1 DEC	ab
WATER W	DF OREGON ELL REPOR ⁴ by ORS 537.765)	T	ATER RESOUR SALEM, ORE	CES DEPT	SPART CARD) # 24	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2:0/2	\$5 <u>~</u>] \$	
(1) OWNER	:	Well Nun	nber:	(9) LOCATIO	N OF WELL by le	val de	escript	ion:	
Name Randal			-	County Maric	Latitude N or S. Range		Longitude		
Address 5041 S City Silver		State OR	7in 97381	Township 7S	N or S. Range	ZW		_E or W,	WM.
			20077001	Section2			1/4		
(2) TYPE O		1		Tax Lot	Lot Block Well (or nearest address)	Howal	Subdi	vision iro R	d
X New Well (3) DRILL N		Recondition	Abandon	North of	Well (or nearest address) _ State St.	110/001		<u> </u>	
Rotary Air	Rotary Mud	Cable		(10) STATIC	WATER LEVEL				
	· · · · ·			<u>55</u> f	t. below land surface.		Date .	9-28	-90
(4) PROPOS		· · · · · · · · · · · · · · · · · · ·		Artesian pressure	lb. per squ	are inch.	Date _		-
]_Industrial 🛛 🖾 Irrig]_Other	ation	(11) WATER	BEARING ZONE	S:			
	OLE CONST	···· ` · · · · · · · · · · · · · · · ·		Depth at which water w	as first found118	3'			
(5) BURE H	OLE CONST	RUCTION:	eted Well 347 ft		То	,	nated Flow	Rate	SWL
Y	es No D D	lo Depth of Comple	··· -	118	123	50 <u>c</u>	Jpm		55
Explosives used	Type	Amount	· · · ·	250	272	200	gpm		55
HOLE		SEAL	Amount	275	347		gpm	1	55
Diameter From	To Materi 83 Cement		sacks or pounds 71 SaCKS						
10 83			12 20012	(12) WELL LO	DG: Ground elevat	ion			
					Material		From	То	SWL
				Top soil			0	1	
How was seal placed	: Method 🔲 A	🗆 в 🖾 с 🗆 р	Ε	Clay brown	-		1.	14	
Other		- [•]		Basalt bould	ler		14	16	
Backfill placed from	ftto	ftMaterial	<u> </u>	Clay brown			16	22	
Gravel placed from _	ft. to	ft. Size of gravel		Decomposed :	rock w/ basalt		22		
(6) CASING	/LINER:			interbeds				56	
Diameter	From To	Gauge Steel Plastic			hard weathere		56	118	
Casing: <u>10</u>	+1 1/2 83	1			n & grey fract	ured	118	123	WB
<u></u>				Basalt grey			123	129	
				Basalt grey	pourous		129	131 132	
				Clay grey	ous weathered		132	144	
Liner:					grey hard wit	h	144		· · · · ·
Final location of sho	e(s)			fractures	<u>gro</u> ₁ <u>int</u>			250	
	RATIONS/SC			Basalt pour	ous		250	272	WB
Perforatio	-			Basalt_hard			272	275	
Screens	ns Method Type	Materia	al		& white pouro		275	292	WB
La sereeus	Slot	Tele/pipe			w/ small hole	S	292	306	
From To	size Number		Casing Liner	Basalt pour			306	330	
		\vdash			w/ fractures	<u>کم ،</u>	330	317	
	$+$ \rightarrow			holes		`		347	
		<u> </u>					 '		
				Date started 9-25-	90		9-28-9	30	L
	1			Date started	Con	npleted			· ·
		um testing time is		[·	well Constructor Co				
• •			Flowing	abandonment of th	the work I performed on the well is in compliance	ce with	Oregon v	well cons	struction
🗌 Pump	Bailer	Air Air	Artesian	standards. Material	s used and information	reported	above ar	e true to	o my best
Yield gal/min	Drawdown	Drill stem at	Time	knowledge and belie	"Alt non	v	WWC Nu	mber V	358
600		347	1 hr.	Signed Dent	\$ HAAD		Date		
l		1			Vell Constructor Cert insibility for the constru			or ahan	donment
Temperature of wate		Depth Artesian Flow		work performed on	this well during the cor	struction	n dates re	eported a	above, al
Was a water analysi		By whom		work performed d	uring this time is in	n compl	liance wi	ith Oreş	gon well
		e for intended use?		belief.	rds/This report is true		best of m WWC Nur		
	dy ∐ Odor ∐ Co	olored 🗌 Other	······································		¥)			nber	100
Depth of strata:				Signed	*		Date		
ORIGINAL & FIRS	ST COPY - WATER	RESOURCES DEPART	MENT SECO	ND COPY - CONSTRUC	TOR THIRD CO	OPY - CUS	STOMER		9809C 3/88

· · · · · · · · · · · · · · · · · · ·	MARI	58808				
	Westerberg Dr	illing, Inc.	Amended	Ma	rı 5	8808
STATE OF OREGON	36728 S. Kropf	Rd.		- 74154		
WATER SUPPLY WELL REPORT (as required by ORS 537.765)	Molalia, OR 9	7038	WELL I.D. #	L /1454		
Instructions for completing this report are on the l	829-252	5	START CAR	D # <u>171839</u>		
(1) LAND OWNER Well Nur	nber	(9) LOCATION	OF WELL (legal	description)		
Name Carl Jensen Farms Address 6532 Howell Prairie Rd.	NE	County <u>Marion</u> Tax Lot <u>100</u>		Lot		
City Silverton State OR	Zip 97381	Township 6 Section 24	S	Range 2	w	WM
(2) TYPE OF WORK New Well	Abandonment Conversion	Section 24 Lat ° Long °				
(3) DRILL METHOD		Long°	" or		(degre	es or decimal)
Rotary Air Cable Auger	Cable Mud	Street Address of W	ell (or nearest addre	ss) <u>7832 Howe</u> Silverton, (
(4) PROPOSED USE		(10) STATIC WA		~	0.4.05	
	Irrigation	58			3-1-05	
• • • • • • • • • • • • • • • • • • •		Artesian pressure	ft. below land surf: lb. per squ	are inch Date		
(5) BORE HOLE CONSTRUCTION Special Depth of Completed Well 239 ft. Explosives used: Yes Z No Type		(11) WATER BE Depth at which wate	ARING ZONES			· · · · · · · · · · · · · · · · · · ·
BORE HOLE	SEAL	From	To	Estimated F	low Rate	SWL
Diameter From To Material From 16" 0 58 Cement 0	n To Sacks or Pounds 58 48 sacks	110	230	>1000 gpm		58'
12" 58 239						
	ZC DD DE	(12) WELL LOG	Grou	nd Elevation		·
Other ft. to ft. M	laterial	Mate		From	To	SWL
	ze of gravel	Soil Clay silty brown		0 2 2 2		· · · · · · · · · · · · · · · ·
(6) CASING/LINER		Clay silty blue			5	
Diameter From To Gauge Ste Casing: 12" +1.5 238 .250 2	el Plastic Welded Threaded	Clay grey sticky Siltstone brown	W/ sillstone	45 6 64 8		·
		Cemented sand v Sand & gravel br		85 9 93 1	<u>3</u>	
		Sand & gravel lo	ose	110 1	16	
Liner: None		Brown sand med Cemented grave			18 24	
Drive Shoe used Inside Outside None		Sand brown w/ g			28	
Final location of shoe(s) 238'		Cemented gravel	rn water bearing		48 75	
(7) PERFORATIONS/SCREENS	***************************************	Cemented gravel			80 96	<u></u>
Perforations Method Holte ai		continued on page				
Screens Type		Date Started 2-21-0) <u>5</u> C	mpleted 3-1-0	5	
Size	Tele/pipe Casing Liner size	(unbonded) Water	Well Constructor (work I performed o			alternation of
<u>150 230 1/4x2 3840</u>		abandonment of this	well is in complian	ce with Oregon v	vater supply	well
		construction standar the best of my know		ind information i	eported abov	e are true to
		WWC Number 235	8 /	Date_8-17-	05 🔎	
(8) WELL TESTS: Minimum testing time is	1 hour			Alert	6	
- · - ·	Flowing Artesian	Signed Dup	1 /2/	<u>A CAR</u>		
Yield gal/min Drawdown Drill ste 960 35'	m at Time 4 hr.	(bonded) Wayer W	ell Constructor Ce ibility for the constr		g, alteration,	or
		abandonment work j above. All work per	performed on this w	ell during the con	nstruction da	tes reported
Temperature of water 54 Depth Artesia	an Flow Found	supply well construct				
Was a water analysis done? Yes By whom		- and belief.		•		
Did any strata contain water not suitable for intended		WWC Number 688		Date <u>3-17-</u>	05	<u></u>
Salty Muddy Odor Colored Oth Depth of strata:		Signed Ste	vers M.	Studity	,	
						·····
ORIGINAL – WATER RESOLICES	DEPATIONENT FIRS	ST COPY - CONSTRU	CTOR SE	COND COPY -	CUSTOMER	2 06/16/2004
	OURCES DEPT					
SALEM	OREGON					

.

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765)

Westerberg Drilling, Inc. 36728 S. Kropf Rd. Molalla, OR 97038 of this form.

58808

MARI

Instructions for completing this report are on the last page

(1) LAND OW Name Carl Jr.	Farms		Well Number					
Address 7157 S	state St. N							
<u>City</u> Salem		Stat	e OR	Zir	97301			
(2) TYPE OF		New V (repair/recond		bandonm	ent 🔲 Co	nversion		
(3) DRILL MI	Rotary M	ud 🔲 Cable	Auger [Cable N	/Iud			
(4) PROPOSE Domestic Thermal				Irrigatio				
(5) BORE HO Depth of Comple Explosives used:	ted Well_2	39 <u>1</u>						
BORE F Diameter Fro	m To				Sacks or			
<u>16" 0</u> 12" 58	239	Cement	0	58	48 sacks			
	233					·····		
			1					
How was seal pla								
Backfill placed fr Gravel placed fro								
(6) CASING/L	INER		1970 - 11 ⁻¹					
	er From		auge Stee 50 2	Plastic	Welded 7	hreaded		
		1						
Liner: None								
Drive Shoe used	Inside		-					
	Inside							
Drive Shoe used Final location of (7) PERFORA	Inside shoe(s) <u>23</u>	CREENS Method	Holte air	perfor				
Drive Shoe used Final location of (7) PERFORA Perforatio	Inside shoe(s) <u>23</u> TIONS/S ns	3' CREENS Method _ Type	Holte air	perfor Mate	rial			
Drive Shoe used Final location of a (7) PERFORA Perforatio Screens From To	Inside shoe(s) 233 TIONS/Sens Slot Size	3' CREENS Method _ Type Number 1	Holte air	perfor Mate	rial			
Drive Shoe used Final location of (7) PERFORA Perforatio	Inside shoe(s) 233 TIONS/Sens Slot Size	3' CREENS Method _ Type	Holte air	perfor Mate Tele/pipe	rial			
Drive Shoe used Final location of a (7) PERFORA Perforatio Screens From To	Inside shoe(s) 233 TIONS/Sens Slot Size	3' CREENS Method _ Type Number 1	Holte air	perfor Mate Tele/pipe	rial			

(8) WELL TESTS: Minimum testing time is 1 hour

Drawdown

🗖 Air

🔲 Bailer

35'

Pump

960

Yield gal/min

WELL I.D. # L 71454

START CARD # 171839

LAX LOL IVV		Lot		
Tax Lot <u>100</u> Township <u>6</u>	S	Range 2	v	v wa
Section 24	NF		1/4 SF	
Lat° Long°	" or		(deg	rees or decima
Long°	" or		(deg	rees or decima
Street Address of We	ell (or nearest addre	ss) 7832 H	owell Prairie	Rd NF
		Silverte	on, OR 97381	
			· · · · · · · · · · · · · · · · · · ·	
(10) STATIC WA	TER LEVEL			
58	It. below land surfa	ice.	Date <u>3-1-05</u>	· · · · ·
	ft. below land surfa			
Artesian pressure	lb. per squ	are inch	Date	
······				
(11) WATER BE	ARING ZONES	10'		
Depth at which water				
From	To	Estimat	ed Flow Rate	
110	230	>1000 g	pm	58'
			· · ·	
		+		
(12) WELL LOG	Grou	nd Elevatior	1	
Mate	rial	From	То	SWL
Soil		0	2	
Clay silty brown		2	20	
				· · · · ·
Clay silty blue		20	45	
Clay silty blue Clay grey sticky y	w/ siltstone	20 45	45 64	
Clay silty blue Clay grey sticky y Siltstone brown		20 45 64	45 64 85	
Clay silty blue Clay grey sticky v Siltstone brown Cemented sand v	v/ gravel	20 45 64 85	45 64 85 93	
Clay silty blue Clay grey sticky v Siltstone brown Cemented sand v Sand & gravel bro	w/ gravel own	20 45 64 85 93	45 64 85 93 110	
Clay silty blue Clay grey sticky v Siltstone brown Cemented sand v Sand & gravel bro Sand & gravel loc	w/ gravel own ose	20 45 64 85 93 110	45 64 85 93 110 116	
Clay silty blue Clay grey sticky v Siltstone brown Cemented sand v Sand & gravel bro Sand & gravel loo Brown sand med	v/ gravel own ose	20 45 64 85 93	45 64 85 93 110	
Clay silty blue. Clay grey sticky v Siltstone brown Cemented sand v Sand & gravel bro Sand & gravel loc Brown sand med Cemented gravel	v/ gravel own ose	20 45 64 85 93 110 116	45 64 85 93 110 116 118	
Clay silty blue. Clay grey sticky y Siltstone brown Cemented sand y Sand & gravel bro Sand & gravel bro Brown sand med Cemented gravel Sand brown w/ gr	w/ gravel own ose ravel brown	20 45 64 85 93 110 116 118 124 128	45 64 85 93 110 116 118 124	
Clay silty blue Clay grey sticky y Siltstone brown Cemented sand y Sand & gravel bo Sand & gravel loo Brown sand med Cemented gravel Sand brown w/ gr	w/ gravel own ose ravel brown	20 45 64 85 93 110 116 118 124 128	45 64 85 93 110 116 118 124 128	
Clay silty blue. Clay grey sticky y Siltstone brown Cemented sand y Sand & gravel brown Sand & gravel boo Brown sand med Cemented gravel Cemented gravel Cemented gravel Cemented gravel	w/ gravel own ose ravel brown n water bearing brn dry	20 45 64 85 93 110 116 118 124 128 148 175	45 64 85 93 110 116 118 124 128 148	
Clay silty blue. Clay grey sticky y Siltstone brown Cemented sand y Sand & gravel brown Sand & gravel brown sand med Cemented gravel Cemented gravel Cemented gravel Cemented gravel Cemented gravel br Cemented gravel br	v/ gravel own ose ravel brown n water bearing brn dry n water bearing	20 45 64 85 93 110 116 118 124 128 148 175	45 64 85 93 110 116 118 124 128 148 175	
Clay silty blue. Clay grey sticky y Siltstone brown Cemented sand y Sand & gravel bro Sand & gravel bro Cemented gravel Cemented gravel Cemented gravel Cemented gravel Cemented gravel Cemented gravel br Cemented gravel br Cemented gravel br Cemented gravel br Cemented gravel br Comtinued on page	w/ gravel own ose ravel brown n water bearing brn dry n water bearing je 2	20 45 64 85 93 110 116 118 124 128 148 175 180	45 64 85 93 110 116 118 124 128 148 175 180 196	
Clay silty blue. Clay grey sticky y Siltstone brown Cemented sand y Sand & gravel bro Sand & gravel bro Cemented gravel Cemented gravel Cemented gravel Cemented gravel Cemented gravel Cemented gravel br Cemented gravel br Cemented gravel br Cemented gravel br Cemented gravel br Comtinued on page	w/ gravel own ose ravel brown n water bearing brn dry n water bearing je 2	20 45 64 85 93 110 116 118 124 128 148 175 180	45 64 85 93 110 116 118 124 128 148 175 180 196	
Clay silty blue Clay grey sticky y Siltstone brown Cemented sand y Sand & gravel brown Sand & gravel brown sand med Cemented gravel Cemented gravel br Cemented gravel br Continued on pag Date Started 2-21-0	v/ gravel own ose ravel brown n water bearing brn dry n water bearing te 2 5 Co	20 45 64 85 93 110 116 118 124 128 148 175 180 0mpleted 3	45 64 85 93 110 116 118 124 128 148 175 180 196 -1-05	
Clay silty blue Clay grey sticky y Siltstone brown Cemented sand y Sand & gravel brown Sand & gravel brown sand med Cemented gravel Sand brown w/ gr Cemented gravel Cemented gravel br Cemented gravel br Cemented gravel br Cemented gravel br Cemented gravel br Continued on pag Date Started 2-21-0 (unbonded) Water V	v/ gravel own ose ravel brown n water bearing brn dry n water bearing te 2 5 6 6 6 6 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	20 45 64 85 93 110 116 118 124 128 148 175 180 0 mpleted <u>3</u> Certificatio	45 64 85 93 110 116 118 124 128 148 175 180 196 196	
Clay silty blue Clay grey sticky y Siltstone brown Cemented sand y Sand & gravel brown Sand & gravel brown sand med Cemented gravel Sand brown w/ gr Cemented gravel Cemented gravel br Cemented gravel br Cemented gravel br Cemented gravel br Cemented gravel br Continued on pag Date Started 2-21-0 (unbonded) Water V	w/ gravel own obse ravel brown n water bearing brn dry n water bearing te 2 5 Co Well Constructor (work I performed on	20 45 64 85 93 110 116 118 124 128 148 175 180 certification the constru	45 64 85 93 110 116 118 124 128 148 175 180 196 -1-05 n action, deepenir	ng, alteration, d
Clay silty blue. Clay grey sticky y Siltstone brown Cemented sand y Sand & gravel brown Sand & gravel brown Sand & gravel low Cemented gravel Cemented	w/ gravel own ose ravel brown n water bearing brn dry n water bearing je 2 5 Co Well Constructor of work I performed on well is in complian is. Materials used a	20 45 64 85 93 110 116 118 124 128 148 175 180 Certification n the construct or existing the second	45 64 85 93 110 116 118 124 128 148 175 180 196 -1-05 muction, deepeningon water suppl	ng, alteration, o
Clay silty blue. Clay grey sticky y Siltstone brown Cemented sand y Sand & gravel brown Sand & gravel brown w/ gr Cemented gravel Cemented gravel Cemented gravel Cemented gravel Cemented gravel br Cemented gravel br	w/ gravel own ose ravel brown n water bearing brn dry n water bearing je 2 5 Co Well Constructor of work I performed on well is in complian is. Materials used a	20 45 64 85 93 110 116 118 124 128 148 175 180 Certification n the construct or existing the second	45 64 85 93 110 116 118 124 128 148 175 180 196 -1-05 muction, deepeningon water suppl	ng, alteration, o
Clay silty blue. Clay grey sticky y Siltstone brown Cemented sand y Sand & gravel brown Sand & gravel brown Sand & gravel low Cemented gravel Cemented	v/ gravel own ose ravel brown n water bearing brn dry n water bearing te 2 5 Co Well Constructor (work I performed on well is in complian ls. Materials used a edge and belief.	20 45 64 85 93 110 116 118 124 128 148 175 180 Certification n the construct or existing the second	45 64 85 93 110 116 118 124 128 148 175 180 196 -1-05 muction, deepeningon water suppl	ng, alteration, o

(bonded) Wayer Well Constructor Certification I accept asponsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

Was a water analysis done? Yes By whom	c Number \$88, Date 3-17-05
Did any strata contain water not suitable for intended use?	od Steven M. Stadely
Temperature of water 54 Depth Artesian Flow Found and be	y well construction standards. This report is true to the best of my knowled belief.

ORIGINAL - WATER RESOURCES DEPARMANT 2 1 2005 COPY - CONSTRUCTOR

Flowing Artesian

4 hr.

Drill stem at

06/16/2004 SECOND COPY - CUSTOMER

WATER RESOURCES DEPT SALEM, OREGON

Time

MARI 58808



36728 S. Kropf Rd., Molalla, OR 97038 • Phone: (503) 829-2526 FAX (503) 829-7514

WELL ID# L 71454	
OWNER: Carl Jr. Farms	
ADDRESS: 7157 State St. NE	
CITY/STATE/ZIP: Salem, OR 97301	

WELL ADDRESS: 7832	Howell	Prairie	Rd. NE	Silverton,	OR 97381
COUNTY Marion		ΤΟ\	NNSHIP	6S R	ANGE
SECTION 24	NE	1/4	SE	1/4 TAX LOT	r 100

(12) WELL LOG INFO. CONT'D FROM PREVIOUS PAGE:

(12) WELL LOG INFO. CONT'D FROM PREVIOUS PAGE:						
MATERIAL	FROM	TO	SWL			
Sand & gravel loose	196	201				
Cemented gravel brown	201	214				
Cemented gravel grey	214	218				
Sand & gravel loose	218	220				
Cemented gravel grey	220	231				
Siltstone green w/ grey clay	231	239				
N.A. P. 7						
Westerberg prilling, Inc	3					
36728 S. Kropf Rd.						
Molalla, OR 97038						
829-2526						
029-2320						
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Page 2

MAR 2 1 2005

WATER RESOURCES DEPT SALEM, OREGON

4411		. "	6/_		. 1 4	
File Original and First Copy with the STATE ENGINEER, SALEM, OREGON	•	LL REPORT F OREGON	State Well No.	W-64	<u>K</u>	
(1) OWNER: Name Contract Gunders Address Roate 2 Silverton, Oragon	6 <i>H</i>		Drawdown is amount lowered below static le	water lovel evel m?	f hrs.	
(2) LOCATION OF WELL: County Marion Owner's number,	if ony	<u>" 3 5 0 "</u> <u>" "</u> Bailer test gal./min. w	yith ft. drawdov	ý vn after	"	
$N \oplus \frac{14}{4} SE \frac{14}{4}$ Section $J - \frac{4}{7}$ T. G. Bearing and distance from section or subdivision con	Artesian flow g.p.m. Date Temperature of water Was a chemical analysis made? Yes Yes					
<u>568°30'W 1715 Ft.</u> 140000 Sec 24	from last	(12) WELL LOG: Depth drilled /4/2_ft. Formation: Describe by color, show thickness of aquifers and stratum penetrated, with at le	Diameter of well Depth of completed y character, size of materi the kind and nature of ast one entry for each	vell 14 ial and stru the materi	cture, and al in each	
		MATERI		FROM	то	
(3) TYPE OF WORK (check): New Well Deepening D Recondition andonment, describe material and procedure in		Silt Sand Sand - Wate	r Begring	0' 60' 94'	60' 97' 135'	
(4) PROPOSED USE (check): (5) 7 Domestic Industrial Municipal Rot Irrigation A Test Well Other Dug	ole 🔲 Jetted 🗌	Grave/	J	135	142-1	
Type of perforator used SIZE of perforations 12						
(9) CONSTRUCTION: Was well gravel packed? ∑Yes □ No Size of g Gravel placed fromft. toft.	2 ft.	(13) PUMP: Manufacturer's Name Be Type: 74-61199-	ertrley Sub	H.P	15-	
Was a surface seal provided? A Yes □ No To wh Material used in seal— Concrete Did any strata contain unusable water? □ Yes A Type of water? Depth of strata Method of sealing strata off 0	No	Well Driller's Statement: This well was drilled un true to the best of my know	ledge and belief.		-	
(10) WATER LEVELS:	the Date $7/6/60$ ch Date	NAME <u>R. 57</u> (Person, firm, Address <u>Ro. 47</u> <u>e</u> <u>3</u> Driller's well number	Box 177A			
Log Accepted by:		[Signed]				
[Signed] Date	l	License No.	(Well Driller) Date	*	, 19	
	(USE ADDITIONAL SH	EETS IF NECESSARY)				