Approved:

MEMO

To: Kristopher Byrd, Well Construction Manager

From: Tommy Laird, Well Construction Program Coordinator

Subject: Review of Water Right Application G-19282

Date: October 23, 2024

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 (CLAC 54178): 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 (CLAC 56492): 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 (CLAC 75335): 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 #4 (CLAC 75720): 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 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 resealed with an approved grout to a minimum depth of 222 feet bgs.

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

Applicant's Well #5 (CLAC 72846): Based on a review of the Well Report, Applicant's Well #5 seems to protect the groundwater resource.

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

Applicant's Well #7 (CLAC 75843): 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.

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765) Instructions for completing this report are of

WELL I.D. #L 28524 START CARD# 120449

Instructions for completing this report are on the last page of this form.		
(1) OWNER: Well Number	(9) LOCATION OF WELL by legal descript	ion:
Name Bill Patterson	County Clackers 5 Latitude	Longitude
Address P.D. Bx. 99	Township 2 or S Range 4	E or W. WM.
City Borna State Or Zip 97009		<u> </u>
(2) TYPE OF WORK	Tax Lot 3900 Lot Block	Subdivision
New Well Deepening Alteration (repair/recondition) Abandonment	Street Address of Well (or nearest address) 2	9105 SE WEITZ LI
(3) DRILLMETHOD:	Eagle Creek Or, 97	622
Rotary Air Rotary Mud Cable Auger	(10) STATIC WATER LEVEL:	13 = 20
Other	ft. below land surface.	Date 12 -17-98
(4) PROPOSED USE:	Arte stan pressure lb. per square in	-
Domestic Community Industrial Irrigation	(11) WATER BEARING ZONES:	
Thermal Injection Livestock Other		
(5) BORE HOLE CONSTRUCTION:	Depth at which water was first found 248	
Special Construction approval Yes No Depth of Completed Well 280 ft.	•	
Explosives used Yes No Type Amount	From To	Estimated Flow Rate SWL
HOLE SEAL	35 58 5	ealed OFF 22
Diameter From To Material From To Sacks or pounds	248 256 4	16 +
Diameter From To Material From To Sacks or pounds 12 O ES Carent O 193 51 SackS		RECEIAED
15" 65 193		
811 193 280		DEO 9 9 1000
0 110 200	(12) WELL LOG:	UEU & & 199 0
How was seal placed: Method A B C D BE	Ground Elevation	WATER RESOURCES DEPT.
	Ground Exevation	SALEM, OREGON
Backfill placed from ft. to ft. Material	Material	From To SWL
	Top Soil	0 2
Clart, plant 2 m	clay + Rolders	2 35
(6) CASING/LINER:	Grave L& Bolders	35 58 12
Diameter From To Gauge Steel Plastic Welded Threaded	Clay Blue	58 45
		65 160
	clay sour	160 170
	Clay Blue	170 210
	clay Gray	210 215
Liner: 6 180 240 200	day Blue	215 235
	Clay Gray	
Final location of shoe(s)	clay Blue	
(7) PERFORATIONS/SCREENS:	Sand Multi Colored	
Perforations Method	clas Gray	256 270
Screens Type 10 SCOT Material PUC	Clay Blue DECEIVE	270 280
Slot Tele/pipe Casing Liner	T R Part of Run H W Root	
From To size Number Diameter size Casing Liner 246 280 10515		
	FEB 2 3 1999	
	WATER RESOURCES D	pr
	SALEM, OREGON	
(8) WELL TESTS: Minimum testing time is 1 hour	Date started	
Flowing	(unbonded) Water Well Constructor Certification	
Pump ☑Bailer ☐ Air ☐ Artesian	I certify that the work I performed on the constru	ction, alteration, or abandonment
Yield gal/min Drawdown Drill stem at Time	of this well is in compliance with Oregon water sup Materials used and information reported above are t	rue to the best of my knowledge
40 ⁺ 3' 1hr.	and belief.	· / ->
		WWC Number 15/2
	Signed Thomas Youghan	Date 12-17-98
Temperature of water 56 Depth Artesian Flow Found	(bonded) Water Well Constructor Cortification:	
Was a water analysis done? Yes By whom	Laccent responsibility for the construction, altera	ation, or abandonment work
Did any strata contain water not suitable for intended use? Too little	performed on this well during the construction date:	s reported above. All work
Salty Muddy Odor Colored Other	performed during this time is in compliance with Or construction standards. This report is true to the be-	st of my knowledge and belief.
-		WWC Number 2-5-7
Depth of strata:	Add O. Launahers	Date 7-17-98
ORIGINAL WATER RESOLUTOES DEPARTMENT FIRST COPY - C	ONSTRUCTOR SECOND COPY - CUSTOMER	₹

State of Oregon WATER WELL REPORT (as required by ORS 537.765)

Page 1 of 1

State Well ID L44582 Start Card # 126951

(1)	OWNER: Name Address City	PATTERSON NU 14990 SE ORI BORING			l No. L4	21p 97009	(9) LOCATION OF WELL County CLACK Township 2 S Section 31 Tax Lot 3900	Lat. ° ¹ Range NW	" 4 E W 1/4 SE		° r i	•
(2)	TYPE OF	WORK: NEW WEL	.L				Street Address of 29105 SE WEITZ R	Well (or neares	st Address)		31011	
		THOD: ROTARY USE: IRRIGAT			***		•	EVEL: ow land surface. ure lb pe				2 <u>5/0</u> 1
(5)	Special	E CONSTRUCTION Construction es used NO HOLE From To 0 62 62 195 195 280		SEAL F	rom To	Amount 39 SACKS 42 SACKS	Depth at which From 20 240	ZONES:	t found 20) .ow Rate GPM		SWL 18 122
	Seal pla	cement method	d C				(12) WELL LOG:					
	Backfi	ll: from	_ ft to	_ ft	Material				Ground el		۰	
	Gravel	: from	_ ft to	_ ft	Size		•	terial		From	To	SWL
/41	CASING/L	INED.			····		TOP SOIL SOIL & CLAY			0 2	2 4	
(0)	Diam		îo Gauge	Materi	اد	Connection	BROWN CLAY			4	10	
Cas				STEEL	u.	WELDED	GRAVEL, BOULDERS	& SAND		10	54	18
	8		210 .250	STEEL		WELDED	BLUE CLAY			54	90	
							GRAY SAND & CLAY			90	111	
							BLUE CLAY			111	146	
Lin	er					-	GRAY CLAY			146	192	
		- , , 					BLUE CLAY			192	240	
Fin	al Locati	on of shoe(s)) 195'9'1/	2" 1UBE	X		BLUE CLAY WITH SE	AMS OF COARSE (SEMENTED	240	260	122
(7)		IONS/SCREENS:	:				BLUE CLAY	RECEIVE		260	280	122
	[_] Scr	eens Type		м	aterial _			FEB 0 1 200	31			
		Slot			Tele/pip	oe .		1. 2.00	71			
	From	To Size	Number D	iam.	Size	Casing/liner	WATE	RESOURCES	S DEPT			
							Date started 1/10	ALEM, OREGO	Complete	d <i>1/2</i>	5/01	
(8)	WELL TES		esting time	is 1 h			(unbonded) Water We the work I performe onment of this well well construction s reported above are	ed on the constr . is in compliar standards. Mater	ruction, al nce with Or rials used	teration egon was and inf and be	on, or ater su formati	aband- upply ion
	Yield GPI		own .	at		Time	Signed					
	80			280		1 hr.						
	80			280		2 hr	(bonded) Water Well sibility for the co performed on this w above. All work pe	onstruction, altwell during the	teration, o e construct	r aband ∶ion dat	donment es rep	t work corted
	Temperate	ure of water		•		ow Found	with Oregon water s	supply well cons	struction s	tandard	ls. Th	
		r analysis do					report is true to t	he pest of my k	poul edge a			
		or water not strata	suitable fo	r use _			Signed LLA	Well	low		lumber 1/30/	

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765 & OAR 690-205-0210) **CLAC 75335**

10/18/2019

WELL I.D. LAB START CAL ORIGINAL LO

		ragerori
EL# L	132924	
RD#	1044096	
OG#		

(1) LAND OWNER Owner Well I.D.		
First Name Last Name	(9) LOCATION OF WELL (legal description)	
Company PATTERSON NURSERY SALES	County CLACKAMAS Twp 2.00 S N/S Range 4.00	E E/W WM
Address PO BOX 99	Sec 31 SW 1/4 of the NE 1/4 Tax Lot 2	
City BORING State OR Zip 97009	Tay Man Number	700
(2) TYPE OF WORK New Well Deepening Conversion	Let o "Or	DMS or DD
Alteration (complete 2a & 10) Abandonment(complete 5a)	Tax Map Number Lot Lat " or " or " Long " or "	DMS 01 DD
(2a) PRE-ALTERATION	Street address of well Nearest address	DMS or DD
Dia + From To Gauge Stl Plstc Wld Thrd Casing:		
	29300 SE BURNETT RD EAGLE CREEK OR 97022	
Material From To Amt sacks/lbs		
Seal:	(10) STATIC WATER LEVEL	
X Rotary Air X Rotary Mud Cable Auger Cable Mud	Date SWL(psi)	SWL(ft)
	Existing Well / Pre-Alteration	T SWE(II)
Reverse Rotary Other	Completed Well 9/30/2019	178
(4) PROPOSED USE Domestic X Irrigation Community	Flowing Artesian? Dry Hole?	
Industrial/ Commercial Livestock Dewatering	WATER BEARING ZONES Depth water was first found	365.00
Thermal Injection Other	•	
	SWL Date From To Est Flow SWL(psi)	+ SWL(ft)
(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy	9/30/2019 365 380 100	178
Depth of Completed Well 380.00 ft.		
BORE HOLE SEAL sacks/		i I I I I
Dia From To Material From To Amt 1bs		i I
12 0 161 Cement 0 161 80 S		
6 161 380 Calculated 25	1	,
Calculated	(11) WELL LOG Ground Flavation	
	Oround Elevation	
How was seal placed: Method A B XC D E	Material From	To
Other	Brown clay w/ cobbles/boulders 0	64
Backfill placed from ft. to ft. Material	Gray clay 64	81
Filter pack from ft. to ft. Material Size	Blue clay 81 Brown clay 89	89 110
Explosives used: Yes Type Amount	Gray clay 110	125
(5a) ABANDONMENT USING UNHYDRATED BENTONITE	Brown clay 125	138
Proposed Amount Actual Amount	Gray clay 138	164
-	Brown clay 164	210
(6) CASING/LINER	Gray clay 210	263
Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd	Small white gravel w/ wood 263	365
	Gray gravel w/ seams of blue clay 365	375
●	Gray gravel w/ seams of blue clay 365	375
	Brown sandstone 375	380
Shoe X Inside Outside Other Location of shoe(s) 380		
<u> </u>		
Temp casing Yes Dia From + To To		
(7) PERFORATIONS/SCREENS		
Perforations Method		
Screens Type Johnson Material Stainless steel	Date Started 8/2/2019 Completed 9/30/2019	
Perf/ Casing/ Screen Scrn/slot Slot # of Tele/	(
Screen Liner Dia From To width length slots pipe size	(unbonded) Water Well Constructor Certification I certify that the work I performed on the construction, deeper	ina altanation on
Screen Casing 6 290 380 12	abandonment of this well is in compliance with Oregon w	
	construction standards. Materials used and information reported	
	the best of my knowledge and belief.	above are true to
	License Number 1738 Date 10/18/2019	
(O) WELL TERRED M	1/38 2 3 10/16/2019	
(8) WELL TESTS: Minimum testing time is 1 hour	Signed VANCE WAGNER (E-filed)	
Pump Bailer • Air Flowing Artesian	- VIII(OZ WITOTIZIE (Z IIIOU)	
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)	(bonded) Water Well Constructor Certification	
100 380 2.5	I accept responsibility for the construction, deepening, alteratio	
	work performed on this well during the construction dates reporte	
	performed during this time is in compliance with Oregon w	
Temperature 55 °F Lab analysis Yes By	construction standards. This report is true to the best of my know	ledge and belief.
Water quality concerns? Yes (describe below) TDS amount 57 ppm	License Number 1738 Date 10/18/2019	
From To Description Amount Units		
	Signed VANCE WAGNER (E-filed)	
	Contact Info (optional)	
ODICINAL WATER DESCRIBES	DED A DEMENIT	

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by OPS 537.765 & OAR 690-205-0210)

CLAC 75720

WELL I.D. LABEL# L 137479

START CARD # 1046843

ORIGINAL LOG #

(as required by ORS 537.765 & OAR 690-205-0210)	4/16/2020	ORIGINAL LOG	#	
(1) LAND OWNER Owner Well I.D.				
(1) LAND OWNER First Name Last Name	(9) LOCA	TION OF WELL (lega	d description)	
Company PATTERSON NURSERY SALES	()	CKAMAS Twp 2.00 S) E E/WWM
Address P.O. BOX 68		SW 1/4 of the NE		
City EAGLE CREEK State OR Visual State OR State OR State OR State OR Conversion Con	Tax Map Nun	nber		
(2) TYPE OF WORK X New Well Deepening Conversion	ete 5a) Lat	nber" or"		DMS or DD
Alteration (complete 2a & 10) Abandonment(complete 2a) PRE-ALTERATION	Long	°" or		DMS or DD
Dia + From To Gauge Stl Plstc Wld Thrd	()	Street address of well	Nearest address	
Casing:	29105 SE W	IETZ LN		
Material From To Amt sacks/lbs				
Seal:	(10) STAT	TIC WATER LEVEL		
Rotary Air Rotary Mud Cable Auger Cable Mud	(10) 51/11		ate SWL(psi)	+ SWL(ft)
Reverse Rotary Other	Existing	Well / Pre-Alteration		
	Complete	ed Well 4/15/20	20	141
(4) PROPOSED USE Domestic X Irrigation Community		Flowing Artesian?		
Industrial/ Commericial Livestock Dewatering	WATER BEA		water was first four	
Thermal Injection Other	SWL Date	From To	Est Flow SWL(psi) + SWL(ft)
(5) BORE HOLE CONSTRUCTION Special Standard (Attac	ch copy) 4/9/2020	50 64	20	22
Depth of Completed Well 329.00 ft.	4/15/2020	260 315	120	141
BORE HOLE SEAL	sacks/			
Dia From To Material From To Amt	lbs			
12 0 190 Cement w/2% Bentonity 0 1190 11566 8 190 329 Calculated 5133.7				
6 170 325 Smeanacd 3155.7		T 0 0		
Calculated	(11) WELI	LOG Ground Eleva	ation	
How was seal placed: Method A B XC D	,	Material	From	To
Other	top soil		0	1.5
Backfill placed from ft. to ft. Material	cobbles & bro		1.5	12
Filter pack from ft. to ft. Material Size	gravel w/ cob	bies	64	64 120
Explosives used: Yes Type Amount	blue / gray sa	ndv clav	120	148
(5a) ABANDONMENT USING UNHYDRATED BENTONITE			148	217
Proposed Amount Actual Amount	blue/ gray cla	ystone	217	252
(6) CASING/LINER	brown sandst		252	260
Casing Liner Dia + From To Gauge Stl Plstc Wld	Inra I	sandstone w/ pumice w/b	260	281
● 8 X 2 261 250 ● X	blue/gray cla	ystone w/ coarse black s.s	281 315	315 329
)	313	32)
	$H \parallel$			
Shoe Inside Other Location of shoe(s) 261	□			
Temp casing \boxed{X} Yes Dia 12 From $+\boxed{X}$ 2 To 71				
(7) PERFORATIONS/SCREENS Perforations Method				
Screens Type factory slotted Material pvc	Date Starte	d4/7/2020 Ca	ompleted <u>4/15/202</u>	20
	Tele/	<u> </u>		
	DC SIZC (Water Well Constructor Cer		
Screen Liner 6 249 329 .32		the work I performed on the of this well is in complia		
		standards. Materials used and		
		y knowledge and belief.	·	
	License Num	ber	Date	
(8) WELL TESTS: Minimum testing time is 1 hour				
(b) Pump Bailer Air Flowing Artes:	ian Signed			
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)		ter Well Constructor Certifi	cation	
120 105 252 1	¬ l` ′	onsibility for the construction		tion, or abandonmen
	work perform	ed on this well during the cons	struction dates repor	rted above. All work
		uring this time is in compli		
Temperature 57 °F Lab analysis Yes By		standards. This report is true to	-	wledge and belief.
	Depm License Num	ber <u>1771</u>	Date 4/16/2020	
From To Description Amount Un	its Signed GF	ODGE VOLINGBERG (E.C.)	nd)	
	<u> </u>	ORGE YOUNGBERG (E-file (optional) Youngberg Pump a		503-630-3970
	Contact into	(opnonar) 1 oungoerg rump a	and then Dinning pin	505 050-5710
	D 000 D 00 : :			

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765 & OAR 690-205-0210)

WELL I.D. LABEL# L	118532	
START CARD#	212551	
ORIGINAL LOG#		

(1) LAND OWNER Owner Well I.D	
First Name Last Name	(0) LOCATION OF WELL (local description)
Company Patterson Nursery Sales, Inc.	(9) LOCATION OF WELL (legal description)
Address PO Box 99	County CLACKAMA Twp 2 S N/S Range4 E E/W WM
City Boring State OR Zip 97009	Sec 31 SE 1/4 of the NW 1/4 Tax Lot 1400
(2) TYPE OF WORK New Well Deepening Conversion	Tax Map Number 2 4E 31B Lot
Alteration (complete 2a & 10) Abandonment(complete 5a)	Lat°' or DMS or DD
(2a) PRE-ALTERATION	Long Bivis of BB
Dia + From To Gauge Stl Plstc Wld Thrd	
Casing:	29300 SE Burnett Rd, Eagle Creek, OR 97022
Material From To Amt sacks/lbs	
Seal:	(40) CIT A TING AN A TIND A TINGE
(3) DRILL METHOD	(10) STATIC WATER LEVEL Date SWL(psi) + SWL(ft)
Rotary Air Rotary Mud Cable Auger Cable Mud	Date SWL(psi) + SWL(ft) Existing Well / Pre-Alteration
Reverse Rotary Other	Completed Well 01-19-2017 138
(4) PROPOSED USE Domestic Irrigation Community	Flowing Artesian? Dry Hole?
Industrial/ Commercial Livestock Dewatering	
	WATER BEARING ZONES Depth water was first found $\frac{2}{2}$
ThermalInjectionOther	SWL Date From To Est Flow SWL(psi) + SWL(ft)
(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)	$N, m \stackrel{?}{\swarrow} \stackrel{49}{\searrow} N, m$
Depth of Completed Well 432 ft.	1 N. M. 2 49 N. M. W. W. W. W. W.
BORE HOLE SEAL sacks/	
Dia From To Material From To Amt lbs	
20 0 54 Cement 0 10 15 S	
16 54 222 Calculated 10 12 222 446 Bentonite Chips 10 35 317 S	1
Calculated 37	(11) WELL LOG Ground Elevation
How was seal placed: Method A B C D E	Ground Elevation
Other Pour & Probe Bent.	Material From To See Attached Formation Log
Backfill placed from 432 ft. to 446 ft. Material Pea Gravel	
Filter pack from 200 ft. to 250 ft. Material CSSI Size 10/20	
Explosives used: Yes Type Amount —	
(5a) ABANDONMENT USING UNHYDRATED BENTONITE	DEAFINE PARAMETER
Proposed Amount Pounds Actual Amount Pounds	RECEIVED BY OWRD
(6) CASING/LINER	
(6) CASING/LINER Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd	FFR 0.6 2017
	PEB VO CUIT
8 X 1.5 227 .250 X	
8 242 316 .250	CALEAR AG
	SALEM, OR
6 317 357 .250	
Shoe Inside Outside Other Location of shoe(s)	
Temp casing Yes Dia From To	
(7) PERFORATIONS/SCREENS	
Perforations Method	
Screens Type V-Shaped Wire Wrap Material 304SS	Date Started 11-15-2016 Completed 01-20-2017
Perf/ Casing/ Screen Scm/slot Slot # of Tele/	
Screen Liner Dia From To width length slots pipe size Screed 8 227 242 0.04	(unbonded) Water Well Constructor Certification
	I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well
Scree 6 357 422 0.04 cont. Ps	construction standards. Materials used and information reported above are true to
	the best of my knowledge and belief.
	License Number 1/97 Date 02-01-2017
(8) WELL TESTS: Minimum testing time is 1 hour	2 02-01-2017
• •	Signed
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr) 65 89 8	(bonded) Water Well Constructor Certification
05 05	I accept responsibility for the construction, deepening, alteration, or abandonmen
	work performed on this well during the construction dates reported above. All work
7 OF 1 1 OF 1	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.
Temperature 56 °F Lab analysis Yes By	,
Water quality concerns? Yes (describe below) TDS amount 120 ppm From To Description Amount Units	License Number 649 Date 02-01-2017
	02-01-2017

CLAC 72846

WATER SUPPLY WELL REPORT - continuation page

											ORIGINAL L	OG#		
(2a) PRE									Water Q	uality Co	ncerns			
Dia	+ 1	From	To G	auge Stl	Pistc Wi	d Thrd			From	То	Descri	ption	Amoun	t Units
	Ц.			$\sqcup \square$						T	1			
—	\vdash			<u> </u> Q	$\Box Q \sqcup$	\vdash								
Mata	<u>Ш.</u>				<u> </u>	<u>"</u> [_]								
Mate	eriai		From	To .	Amt sacks	/lbs			l	1				
<u> </u>			-	 					 		-			+
(5) BORI	E HO	LECC	IGTON	ICTION	J				(10) STA	TIC WA	ATER LEVEL	ı		
	RE HO)115 I ICC	CHO	' SEA	т			SWL Dat	te Fro	m To	Est Flow	SWL(psi)	+ SWL(ft)
	From	LE To	М	aterial	Fron		Amt	sacks/ lbs			29 232	300	1	
									01-19-201		34 236 38 240	5	}	138
		-	Cemen	t	35	175 Calculate	145 d 37	S	 		58 363	£ (8)	,	/
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F	ILTER	R PACK	•					_	(4.4)		•			
From			Material	Size					(11) WEI	LL LOG				
25	50	432 G	ravel	pea					<u> </u>	Ma	terial		From	То
ļ	_													
L									ļ 		-			
(6) CASI	NG/L	INER				-								-
			_		_	G.1	****				•			
Casing	Liner	Dia	+ F	rom To	Gauge	Stl Pls	tc Wld	Thrd						
		6	42	2 432	.250		7 E							-
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(7) PERF	ORA	TIONS	S/SCRE	ENS										
Perf/ Ca			_		Scrn/slot	Slot	# of	Tele/	I 		FEB 0 6 20	И		-
Screen Li	iner	Dia	From	То	width	length	slots	pipe size						
+	-+			<u> </u>				\vdash			SALEM, O	R.		
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(8) WEI					_									
Yield gal	ıl/min	Draw	/down	Drill sten	n/Pump dep	th Di	ıration (l	hr)						
				\top		<u> </u>		7			a welded steel plate) .		
									Diameters					
_		-		1				_	Annulus Ir	om 1/2, to	bottom of 12" casi	ng nas siough	•	
<u> </u>								_	H					

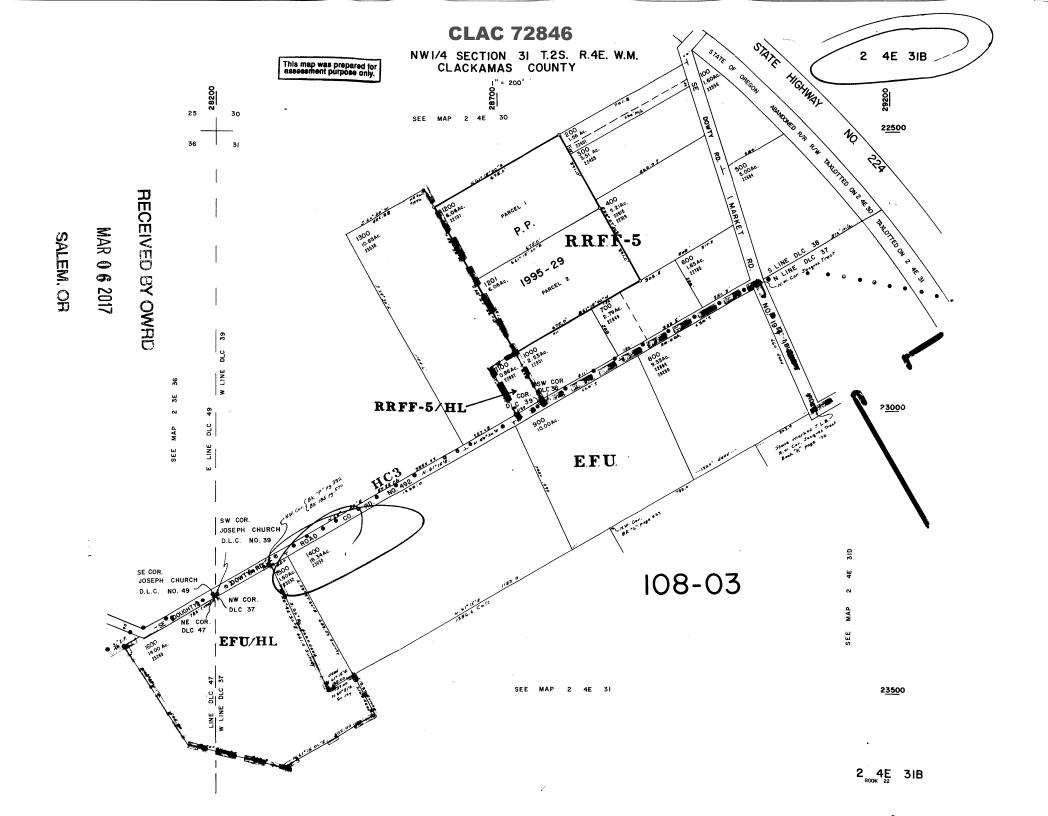
CLAC 72846

Clerc 77846

Patterson - Well # 5 Replacement Start Card # 212551 - Well Tag ID # L 118532

Formation Log by Schneider Water Services

<u>FM</u>	<u>TO</u>	DESCRIPTION	
0	2	Topsoil	
2	7	Cobbles and gravel, with clay, tan soft, with sand brown, medium-fine	
7	49	Cobbles and gravel, with sand brown, medium-fine	
49	51	Clay, brown, medium, sandy	
51	90	Clay, blue-grey, soft-medium, sticky	
90	133	Sand, grey and black, fine	
133	193	Clay, green, medium	
193	204	Clay, dark grey, soft-medium, sticky	
204	216	Clay, grey, medium	
216	224	Clay, dark brown, soft-medium	
224	229	Clay, dark grey, with sand, dark grey, cemented, hard	
229	232	Sand, dark grey, fine	
232	234	Clay, green, soft	
234	236	Sand, black, medium-coarse, occasonal gravel, 1/4" minus	
236	238	Clay, grey, medium	
238	240	Claystone, light grey, with sand, medium-coarse	
240	250	Clay, green, medium	
250	260	Clay, grey, soft-medium, silty	
260	284	Clay, green medium	
284	292	Clay, grey, medium	
292	293	Clay, green, medium	RECEIVED BY OWRD
293	301	Clay, blue, medium	S. SWILD
301	310	Clay, brown, medium, sticky	FEB 06 2017
310	313	Clay, multicolored, soft	0 0 2017
313	315	Clay, red, soft-medium	SALEM, OR
339	349	Clay, brown, medium, some sand, brown, fine-medium	and and the same of the same o
349	351	Pumice, grey, medium	
351	358	Clay, brown, medium	
358	363	Sand, grey, medium-fine	
363	367	Clay, light brown, medium	
367	372	Clay, brownish red, soft-medium, with cemented sand, grey, medium-fine	
372	390	Sand, multicolored, fine-course	
390	411	Siltstone, brown, hard, with some rock	
411	422	Sandstone, grey, soft-hard, with some rock	
422	442	Rock, grey, medium, some fractures, some weathering, occastional rock, brown, medium	ım
442	444	Rock, brown and grey, soft-medium, with clay, grey hard	
444	446	Rock, grey & brown, soft-medium, with clay grey hard	
		, o v ,	



STATE OF OREGON WATER SUPPLY WELL REPORT CLAC 75843

Page 1 of 2 WELL I.D. LABEL# L 137486 START CARD # 1047542

(as required by ORS 537.765 & OAR 690-205-0210)	6/24/2	2020	ORIGI	NAL LOG	#	7342		
First Name Last Name	<u> </u>	(9) LOCAT	ION OF W	ELL (lega	al descr	iption)		
Company PATTERSON NURSERY SALES		County CLACK				_	Е	E/W WN
Address PO BOX68		Sec 31	SW 1/4 o	of the NE	1/4	Tax Lot 2	700	
City EAGLE CREEK State OR Zip 97022 2) TYPE OF WORK New Well Deepening O	Conversion	Tax Map Numb Lat	er	-		Lot		
Alteration (complete 2a & 10) Abandonmer	nt(complete 5a)	Lat°_		' or			DM:	S or DD
2a) PRE-ALTERATION	in(complete 3a)	Long°_		or			DM	S or DD
Dia + From To Gauge Stl Plstc Wld Th	nrd	St.	reet address of	well (Nearest a	ıddress		
Casing:	_	29105 SE WIE	IZ LN					
Seal:	-							
3) DRILL METHOD		(10) STATI	C WATER					
Rotary Air Rotary Mud Cable Auger Cable M	ſud	Evicting W	ell / Pre-Altera		Date S	WL(psi) -	⊦ SWL	_(ft)
Reverse Rotary Other		Completed	Well	6/18/20	20	———	137	7 3
4) PROPOSED USE Domestic X Irrigation Commu	unity	- I	Flowing	g Artesian?	D1	ry Hole?	157	7.5
Industrial/ Commercial Livestock Dewatering		WATER BEARI		_		as first found	•	
Thermal Injection Other		SWL Date	From			SWL(psi)		
5) BORE HOLE CONSTRUCTION Special Standard	(Attach conv)					T - (F=-)		
Depth of Completed Well 400.00 ft.	(Attach copy)	6/18/2020	250	360	180		1 1	37.3
BORE HOLE SEAL	sacks/						1 —	
	Amt lbs						1 ====	
12 0 161 Cement w/2% Bentonit 0 80 Calculate	4700 P ed 2161.58							
8 161 400 Calculate Bentonite Chips 80 161	18 C							
Calculate	ed 45.93	(11) WELL	LOG	Ground Elev	ation			
How was seal placed: Method A B XC D) <u> </u>		Material			From	То)
XOther POURED & HYDRATED		brown clay				0		6
Backfill placed from ft. to ft. Material	:	gravel & cobble blue/gray clay	es			6		58 36
Filter pack from ft. to ft. Material S.		gray gritty clay				86		05
Explosives used: Yes Type Amount		blue / gray clay				105	17	79
5a) ABANDONMENT USING UNHYDRATED BENTO	ONITE	gray claystone				179		11
Proposed Amount Actual Amount		blue claystone sandstone w/ pu	ımice			211 258	25	17
6) CASING/LINER Casing Liner Dia + From To Gauge Stl Pl	1-4- W/14 Th4	sanstone coarse				317		65
8 X 3 363 12 0		cemented grave	el			365	39	91
6 246 306 200 6 384 390 200	ŏĦ Ħ I	gray claystone				391	40	00
6 384 390 200						+	+	
	$Q \square \square \square$							
	\bigcirc \square \square \square							
Shoe Inside Other Location of shoe(s							+	
Temp casing \times Yes Dia $\underline{12}$ From $+ \times \underline{1}$ To	80					+	+	
7) PERFORATIONS/SCREENS Perforations Method push down perforator								
Screens Type factory slot Material pvc		Date Started	6/3/2020	C	omplete	d 6/18/2020	1	
	# of Tele/							
	slots pipe size	(unbonded) W I certify that the					ning alter	ration o
Perf Casing 8 250 360 .25 1 Screen Liner 6 306 346 .32	2040	abandonment						
Screen Liner 6 346 366 .35		construction sta	andards. Mate	rials used and				
Screen Liner 6 366 384 .1		the best of my	-	belief.				
Screen Liner 6 390 400 .1		License Number	er		Date _			
8) WELL TESTS: Minimum testing time is 1 hour		Signed						
	ng Artesian		Wu. C	4 C 4**	·4•			
	on (hr)	(bonded) Water				ina -14: *		and
100 02 330	U	I accept respon work performed						
		performed duri	ing this time	is in compli	iance wit	h Oregon w	vater su	apply we
Temperature 57 °F Lab analysis Yes By		construction sta	ındards. This r	eport is true t	o the best	of my know	ledge and	d belief.
Water quality concerns? Yes (describe below) TDS amount 1		License Numbe	er <u>1771 </u>		Date 6/2	24/2020		
From To Description Amo	ount Units	Signed GEO	RGE YOUNG	DEDC (E #1	-d)			_
		Contact Info (or				rilling ph. 50	3-630-39	70
		(0	r					
ORIGINAL - WATER	R RESOURCES DE	EPARTMENT						

CLAC 75843

WE

ELL I.D. LABEL# L	137486	
START CARD #	1047542	
ORIGINAL LOG#		

continuation page	6/24/2020		ORIGINAL L		17342	
2a) PRE-ALTERATION	Water (Quality Cor	ncerns	·		
Dia + From To Gauge Stl Plstc Wld Thrd	From	То	Descri	ption	Amour	nt Units
Material From To Amt sacks/lbs						
5) BORE HOLE CONSTRUCTION	(10) STA	ATIC WA	TER LEVEL	i		
DODE HOLE GEAL	acks/ SWL Da	ate Fron	n To	Est Flow	SWL(psi)	+ SWL(ft)
Dia From To Material From To Amt						
Calculated						
Calculated						
Calculated						
Calculated						
FILTER PACK From To Material Size	(11) WE	ELL LOG				
From To Material Size		Mate	erial		From	То
6) CASING/LINER						
Casing Liner Dia + From To Gauge Stl Plstc Wld T	hrd					
8 9 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -						
88	-					
	-					
88-1						
7) PERFORATIONS/SCREENS						
Perf/ Casing/ Screen Scrn/slot Slot # of	Tele/					
Screen Liner Dia From To width length slots p	pe size					
	Comme	ents/Rema	rks			
(8) WELL TESTS: Minimum testing time is 1 hour						
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr						
]					
] []					