WELL I.D. LABEL# L 118533 STATE OF OREGON START CARD# 212553 WATER SUPPLY WELL REPORT ORIGINAL LOG# (as required by ORS 537.765 & OAR 690-205-0210) (1) LAND OWNER CLAC 73573 Owner Well I.D., First Name Last Name (9) LOCATION OF WELL (legal description) Company Patterson Nursery Sales, Inc County Clackamas Twp 2 S N/S Range 4 Address PO Box 99 Sec 31 NE 1/4 of the SW 1/4 Tax Lot __ City Boring State OR Zip <u>97009</u> Tax Map Number _____ 2 4E 31 New Well Deepening (2) TYPE OF WORK DMS or DD Alteration (complete 2a & 10) Abandonment(complete 5a) DMS or DD Street address of well Nearest address Gauge Stl Piste Wld Thrd 29300 SE Burnett Rd, Eagle Creek, OR 97022 Material From To Amt sacks/lbs Seal: (10) STATIC WATER LEVEL (3) DRILL METHOD Date SWL(psi) SWL(ft) Rotary Air X Rotary Mud Cable Auger Cable Mud Existing Well / Pre-Alteration Reverse Rotary Other Completed Well 10/25/17 (4) PROPOSED USE Domestic X Irrigation Flowing Artesian? Dry Hole? Community 6' Industrial/ Commericial Livestock Dewatering WATER BEARING ZONES Depth water was first found Thermal Injection Other SWL Date From Tο Est Flow SWL(psi) SWL(ft) (5) BORE HOLE CONSTRUCTION Special Standard (Attach copy) 2/10/17 6 55 NM 6 Depth of Completed Well 3154* N/A 148 158 NM BORE HOLE SEAL 10/25/17 1262+/-3149+/-70 234 Material From From To lbs 3/8 Bent Chips 66 20' 68 186 | Sack 0 16' 68 1,015 Calculated 70 10" 3,154 1,015 1000 281 (11) WELL LOG Calculated 262 Ground Elevation Method X A How was seal placed: From Material X Other Pour and Probe 3/8 bentonite chips See Attached Formation Log BY OWRD Backfill placed from _____ ft. to ____ ft. Material. Filter pack from ____ __ ft. to ft. Material Explosives used: Yes Type_ Amount **() 4** 2017 (5a) ABANDONMENT USING UNHYDRATED BENTONITE Proposed Amount Actual Amount Pounds Bridge at 2119' bgs SALEM OR (6) CASING/LINER Casing Liner Dia From Gauge Stl Plstc Wld Thrd ** Plate ring welded between 16" and 12" 16" + X 66 .5 .375 casing at top of 16" casing 2.5 1,000 X 12" .375 Shoe Inside X Outside X Other Location of shoe(s) 1013-1015 Temp casing Yes Dia. _ From __ (7) PERFORATIONS/SCREENS Perforations Method_ 11-13-17 2-7-17 Screens Type _ Material Date Started Completed Perf/ Casing/Screen Scrn/slot Tele/ Slot (unbonded) Water Well Constructor Certification Screen Liner Dia To width length slots pipe size 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 construction standards. Materials used and information reported above are true to the best of my knowledge and belief. 1991 License Number (8) WELL TESTS: Minimum testing time is 1 hour O Bailer O Flowing Artesian Pump O Air (bonded) Water Well Constructor Certification Drill stem/Pump depth Duration (hr) Drawdown I accept responsibility 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. °F Lab analysis Yes By. Temperature Yes (describe below) TDS amount 11/30/17 Water quality concerns? Description Contact Info (optional)

Patterson Nursery - Well # 6 Start Card # 212553 - Well Tag ID # L 118533 Formation Log

by Schneider Water Services

<u>FM</u>	<u>TO</u>	DESCRIPTION	
0	6	Topsoil	
6	50	Cobbles and gravel	
50	55	Cobbles and gravel with boulder	
55	63	Clay, tan and grey, soft	
63	65	Clay, tan and grey, soft to medium	
65	67	Clay, grey, soft to medium	
67	85	Clay, grey, soft to medium, sticky, sandy	
85	128	Clay, grey, soft, sticky, sandy	
128	148	Clay, grey, soft to medium	
148	158	Sand, grey, fine	
158	253	Clay, greenish grey, soft to medium	
253	268	Siltstone, blue green, soft to medium w/some sand, black, fine	
268	270	Clay, blue grey, medium	
270	373	Clay, grey, medium	
373	388	Clay, reddish brown, medium	
388	408	Siltstone, brown, soft-medium	
408	443	Claystone, reddish brown, medium	
443	496	Claystone, multicolored, hard	
496	500	Rock, weathered, medium	
500	518	Claystone, black and brown, hard	
518	552	Claystone, reddish brown, medium	
552	556	Rock, black, medium	
556	646	Claystone, black and brown, medium hard w/some clay, brown, soft	
646	663	Claystone, brown, medium w/some clay, brown, medium	
663	688	Clay, dark brown, medium	
688	698	Clay, blue, medium, sandy	
698	705	Clay, grey, soft-medium	
705	725	Claystone, brown and grey, hard w/some basalt, grey, soft	
725	760	Basalt, black, soft-medium	
760	790	Clay, brown, medium	
790	815	Clay, grey, medium	
815	845	Basalt, black, soft-medium	
845	860	Clay, green, medium w/claystone, black, soft-medium	
860	870	Basalt, black, soft-medium	RECEIVED BY OWRD
870	880	Clay, green, medium w/claystone, black, soft-medium	
880	905	Basalt, black, soft-medium	DEC 0 4 2017
905	938	Clay, black, soft-medium w/claystone, black, medium	
938	965	Basalt, black, soft-medium	SALEM, OR
965	985	Basalt, black, soft-medium, fractured	
985	995	Basalt, black, soft, fractured	

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Formation Log

by Schneider Water Services

<u>FM</u>	<u>TO</u>	DESCRIPTION	
995	1015	Basalt, black, medium	
1015	1027	Basalt, black, soft-medium, fractured	
1027	1032	Basalt, black, soft-medium, fractured, vesicular	
1032	1049	Basalt, grey, medium-hard, fractured	
1049	1059	Basalt, black, soft-medium, vesicular & some claystone, black, soft, vesi	icular
1059	1075	Basalt, grey, medium-hard, fractured	
1075	1100	Basalt, black, soft-medium, vesicular	
1100	1110	Basalt, grey, hard, some fractures	
1110	1119	Basalt, black, soft-medium, vesicular	
1119	1129	Basalt, dark grey, medium, fractured	
1129	1150	Basalt, brown-black, medium, vesicular & some claystone, green, mediu	ım, vesicular
1150	1160	Basalt, brown-black, medium, fractured, some vesicles	
1160	1170	Basalt, dark grey, medium-hard, some fractures	
1170	1180	Basalt, dark grey, soft-medium, fractured, some vesicles & some claysto	one, green, soft-med
1180	1190	Basalt, dark grey, hard, fractured	
1190	1192	Clay, brown, medium	
1192	1202	Basalt, brownish green, soft-medium, fractured, some vesicles & some of	clay, black, soft
1202	1212	Basalt, brownish green, medium, fractured, few vesicles	
1212	1254	Basalt, grey, hard, some fractures & some claystone, green, medium	
1254	1262	Claystone, green & grey, hard, fractured, vesicular	
1262	1272	Basalt, black, soft-medium, fractured w/some vesicles	
1272	1332	Basalt, grey, medium, some fractures	
1332	1337	Claystone, grey, medium	
1337	1364	Basalt, dark grey & brown, medium, fractured, vesicular	
1364	1429	Basalt, grey, medium, fractured w/some claystone, blue, soft	
1429	1432	Claystone, black, soft-medium	
1432	1532	Basalt, grey, medium, fractured	
1532	1557	Basalt, grey, hard, fractured	RECEIVED BY OWRD
1557	1572	Basalt, grey and brown, medium, fractured	
1572	1579	Basalt, black, soft-medium, fractured	DEC 0 4 2017
1579	1634	Basalt, grey, medium-hard, fractured	520 V 4 2011
1634	1638	Basalt, grey, medium, fractured, vesicular with mineral deposits	SALEM, OR
1638	1645	Basalt, grey, medium-hard, fractured with mineral deposits	OMELIAI, OF
1645	1663	Basalt, grey, medium-hard, fractured	
1663	1719	Basalt, grey, medium-hard, fractured with mineral deposits	
1719	1748	Basalt, grey, medium-hard, occasional fractures	
1748	1771	Basalt, grey, medium-hard, fractures w/ some minerals & traces of clay,	
1771	1776	Basalt, brown, medium-hard, fractured and broken w/some green clay n	nedium
1776	1783	Basalt, grey, medium-hard, fractured	
1783	1808	Basalt, grey, medium-hard, fractured with mineral deposits	

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Formation Log by Schneider Water Services

DEC 0 4 2017

<u>FM</u>	<u>TO</u>	<u>DESCRIPTION</u> SALEM, OR
1808	1825	Basalt, grey, medium-hard, fractured
1825	1828	Basalt, grey, medium-hard, fractured with mineral deposits
1828	1866	Basalt, grey, medium-hard, occasional fractures
1866	1874	Basalt, grey w/brown, medium-hard, fractured, broken, weathered w/traces of clay, dark grey, soft, silty
1874	1929	Basalt, grey, medium-hard, fractured
1929	1938	Basalt, grey, medium-hard, fractured, some minerals
1938	1951	Basalt, grey-black, medium-hard, fractured, broken w/minerals & traces of sandstone, grey medium
1951	1960	Basalt, grey, medium-hard, fractured and broken, w/some minerals
1960	1968	Basalt, grey, medium-hard, fractured
1968	1976	Basalt, grey, medium-hard, fractured, broken, vesicular, w/some claystone, green, hard
1976	1983	Basalt, grey w/brown, medium-hard, broken, fractured, vesicular, weathered
1983	1998	Basalt, grey w/brown, medium-hard, fractured
1998	2050	Basalt, grey, medium-hard, fractured, some green minerals
2050	2059	Basalt, grey w/brown, medium-hard, fractured
2059	2062	Basalt, grey, medium-hard, fractured
2062	2075	Basalt, grey, medium-hard, occasional fractures
2075	2076	Clay, greyish green, soft, sandy w/traces of claystone, green, medium-hard
2076	2083	Claystone, green, medium-hard
2083	2092	Claystone, green, medium-hard, occasional vesicles w/lenses of sandstone, dark grey, medium hard
2092	2095	Basalt, grey and dark grey, fractured, broken, vesicular, weathered w/multi-colored mineral deposits
2095	2100	Basalt, grey, med-hard, some fractures w/black sandstone-siltstone in fractures
2100	2106	Basalt, grey, med-hard, fractured w/green stain & hard dark grey sandstone in fractures
2106	2113	Basalt, grey, medium-hard, fractured w/green tint in fractures
2113	2245	Basalt, grey, medium-hard, occasional fractures
2245	2276	Basalt, grey, medium, fractured
2276	2346	Basalt, dark grey, medium hard, some fractures
2346	2358	Basalt, grey, medium hard to hard, occasional fractures
2358	2377	Basalt, dark grey / black, medium - hard, fractured, broken, vesicular, w/mineral deposits
2377	2381	Basalt, dark grey, fractured, broken, decayed with green minerals, some vesicular and white mineral deposits
2381	2386	Basalt, dark grey, fractured, broken, decayed with basalt, brown, broken, decayed, w/multi color minerals
2386	2389	Basalt, light and dark grey, medium, broken, decayed, some vesicular w/multi colored minerals
2389	2416	Basalt, dark grey, medium hard, fractured
2416	2428	Basalt, dark grey/blackish, medium, fractured
2428	2431	Basalt, dark grey/blackish, medium, fractured with basalt, weathered, light grey, & white & green crystal
2.124	0.40.4	mineral pieces w/small vesicles and siltsone/claystone traces, hard, green
2431	2434	Basalt, dark grey/black, medium, fractured w/basalt, brown, medium hard, grainy w/some green mineral
2434 2446	2446 2616	Basalt, dark grey, medium, grainy, fractured w/ green mineral Basalt, dark grey/blackish, medium-hard, fractured
2616	2627	Basalt, dark grey, medium hard, fractured, occasional large fractures
2627	2658	
2021	2030	Basalt, grey, medium hard to hard, some fractures

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Formation Log by Schneider Water Services

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$\underline{\mathbf{FM}}$	<u>TO</u>	DESCRIPTION
2658	2661	Basalt, grey, medium hard, fractured, broken, with green crystal deposit & clay, soft, grey & brown
2661	2666	Basalt, grey, medium hard, fractured, broken with clay, grey, soft, mineral deposit, white & green & claystone
		grey, medium hard
2666	2674	Clay, white/grey, soft, sticky, w/basalt fragments & green minerals
2674	2684	Clay, brown/tan, soft, sticky
2684	2688	Basalt, grey, medium soft, fractured, broken, some vesicules, grainy, some quartz & minerals & some basalt, light grey/white, grainy, weathered
2688	2707	Basalt, grey/dark grey, medium hard, fractured, grainy
2707	2727	Basalt, dark grey, medium, some fractures
2727	2732	Basalt, dark grey/black, medium with crystals
2732	2776	Basalt, dark grey, medium hard, fractured
2776	2836	Basalt, dark grey, medium hard, fractured, occasional mineral deposits
2836	2849	Claystone, green and grey, medium, with basalt, grey, weathered and decayed
2849	2882	Basalt, black, medium, fractured, some basalt, grey, weathered and decayed. Occasional crystal and vesicles
2882	2883	Basalt, dark grey, medium hard, fractured w/some green minerals & some white crystals
2883	2917	Basalt, dark grey & black, medium hard, fractured
2917	2928	Basalt, multi colored, weathered w/ green tint and claystone, dark green, hard
2928	3057	Basalt, black/dark grey, medium hard, some fractures
3057	3078	Basalt, black/dark grey, medium hard, some fractures
3078	3117	Basalt, dark grey, hard, occasional fractures
3117	3118	Void (no cutting discharge)
3118	3121	Basalt, multi colored, medium fractured, broken, some weathered w/quartz and minerals.
3121	3126	Basalt, dark grey/blackish, medium hard, fractured
3126	3148	Basalt, dark grey, medium - hard, fractured
3148	3149	Basalt, dark grey, medium hard, fractured, some weathered
3149	3154	Basalt, dark grey, medium hard to hard, fractured, with mineral in fractures

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