Appendix B

Hydrogeologic Analysis Cadman Expansion Properties – Canby Pit Phase 4 Tax Lots 500, 600, 1002, 1003, 1004, and Portions of 700, 800, 801 Map 4S-1E-7, Clackamas County, Oregon

> Prepared for: Cadman Materials, Inc. Attn: Mr. Noel Barnett 8705 N.E. 117th Avenue Vancouver, Washington 98662

> > August 27, 2019



Project #Y184184



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August 27, 2019

- To: Cadman Materials, Inc. Attn: Mr. Noel Barnett 8705 N.E. 117th Avenue Vancouver, Washington 98662
- Subject: Hydrogeologic Analysis Cadman Expansion Properties – Canby Pit Phase 4 Tax Lots 500, 600, 1002, 1003, 1004, and Portions of 700, 800, 801 Map 4S-1E-7, Clackamas County, Oregon

Dear Mr. Barnett:

The accompanying report presents our analysis of the best and most protective strategy for hydrogeologic considerations related to the proposed sand and gravel mine on the Canby Phase 4 expansion properties, Clackamas County, Oregon.

After you have reviewed our report, we would be pleased to discuss it and to answer any questions you might have.

This opportunity to be of service is sincerely appreciated. If we can be of any further assistance, please contact us.

H.G. SCHLICKER & ASSOCIATES, INC.

J. Douglas Gless, MSc, RG, CEG, LHG President/Principal Hydrogeologist

JDG:aml

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- Cadman Expansion Properties Canby Pit Phase 4 Tax Lots 500, 600, 1002, 1003, 1004, and Portions of 700, 800, 801 Map 4S-1E-7, Clackamas County, Oregon

Dear Mr. Barnett:

<u>1.0</u> Introduction

At your request and authorization, H.G. Schlicker and Associates, Inc. (HGSA) has analyzed the hydrogeology related to the mining of the proposed Canby Pit Phase 4 expansion properties (Figures 1 and 2). We note that this project is an expansion of the currently operating Canby sand and gravel operation, which is located north and east of the subject site, and under the ownership of Lehigh Hanson, Inc.

Of particular interest is the avoidance of potential impacts to groundwater at domestic and irrigation wells located near the proposed expansion properties.

1.1 Scope of Work

This report discusses the hydrogeologic conditions at the site and adjacent area and proposes recommended actions to avoid potential impacts from mining activity at the site to wells within the impact area. The scope of our work consisted of the following:

- Multiple site visits from August 2018 to August 2019.
- Compiling and reviewing private and published reports on the geology and hydrogeology of the project area, including well records and previous site reports in the area by HGSA.
- Review and interpretation of topographic maps, lidar, and aerial photographs.

- Supervision of drilling and sampling for 18 borings and installation of five 2-inch monitoring wells.
- Review of development procedures for five monitoring wells at the site.
- Measurement of groundwater levels in monitoring wells.
- Assessment of potential impacts to nearby groundwater wells.
- Identifying and evaluating potential changes in groundwater levels that could occur in the project area and adjacent areas as the result of the proposed mining operations at the site.
- Preparation of this report with our findings, analysis, conclusions, and recommended actions.

2.0 Site Description

The proposed mine site is located southeast of Highway 99E and west of S. Barlow Road, approximately 0.75 miles south of Barlow, Oregon, and 1-mile northeast of Aurora, Oregon (Figure 1). The site consists of eight adjacent tax lots (Tax Lots 500, 600, 1002, 1003, 1004, and portions of 700, 800, 801, Map 4S-1E-7) of approximately 98.5 acres total, with approximately 93.6 acres proposed for mining; and measures up to approximately 3,250 feet east to west by approximately 1,570 feet north to south (Figure 2). The site is generally flat, with elevations of approximately 100 to 110 feet (NAVD88). Most of the existing area is currently used for agriculture

The site is bounded to its north by Phase 3 (Paradis) of the current Cadman mining operation, to the west by Highway 99E, to its east by S. Barlow Road, and to its south by adjacent residential and agricultural sites. The Molalla River is located approximately 0.7 miles to the east of the easternmost part of the site, and the Pudding River is located approximately 0.6 miles to the west of the westernmost part of the site. Based on the 2008 Flood Insurance Rate Map (FIRM, Panel #s 41005C0505D) the site lies in an area rated as Zone X which is defined as an area determined to be outside the 0.2% annual chance floodplain (above the 100-year floodplain).

Native vegetation is largely absent from the site, existing only as sparse individual trees, shrubs and isolated strips along the property boundaries and on the southeastern part of the site. The site is primarily covered with agricultural crops and grasses for use as pasture.

A Bonneville Power Administration (BPA) transmission line (Pearl-Marion No. 1) corridor crosses the site, north to south, with a lattice tower (10/1) located in the southeastern portion of Tax Lot 1003.

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3.0 Proposed Mining Activities

The proposed mining excavation area will occur on approximately 93.6 acres of the site to a depth of approximately 70 feet below the existing ground surface at the eastern part of the proposed mining, and approximately 30 feet below the existing ground surface at the western part of the proposed mining. All mining will occur outside the 100-year floodplain of the Molalla and Pudding Rivers. The mine is proposed to be developed in a series of three east-west trending cells progressing from the north to the south and one north-south cell along the eastern mine boundary.

Excavators, loaders, dozers, and articulated haul trucks will be used to excavate the site. Side slopes will be designed at 1.5H:1V except for slope limitations set out by DOGAMI and BPA. The mine cells will be partially dewatered to a maximum depth of approximately 20 feet below the ground surface and mined wet below depths of 20 feet with appropriate equipment to eliminate the need to dewater the mining cell further.

Phase 4 will begin in the northernmost area. Overburden will be stripped, berms will be constructed, and excess overburden placed to the north in the southern portion of Phase 3 as necessary. Once the overburden is removed, mining will progress in blocks from the west to the east, with long-term progression to the south. Mining in Phase 4 will continue until the southern boundary of the deposit has been extracted. Mining may be deeper in the eastern portion of the property where the resource appears to be present to a depth of approximately 70 feet below the ground surface. The extracted sand and gravel will be transported by a conveyor through an existing tunnel beneath S. Barlow Road, to the permitted processing area located to the east of the site at the existing Cadman Materials Canby Pit (Figure 3).

4.0 Geology

The site lies on a terrace formed by the Molalla, Pudding and Willamette Rivers in an area mapped as Quaternary alluvium which consists of unconsolidated sand, gravel, and cobbles with interbedded silt and clay (Gannett and Caldwell, 1998; Schlicker and Finlayson, 1979; Hampton, 1963; Piper, 1942). The Quaternary alluvium is underlain by Pliocene Troutdale formation which consists of indurated beds and lenses of well-sorted sandstone and conglomerate with siltstone and claystone interbeds. Higher elevations immediately south have been mapped as Pleistocene alluvium consisting of gravel, sand, and silt (Schlicker, unpublished; Piper, 1942).

4.1 Subsurface Conditions

Subsurface conditions were evaluated by reviewing boring logs from groundwater well reports, monitoring wells located at and near the site, and exploratory borings (Figures 2, and 4 through 8; Appendices A through F).



HGSA supervised 18 drilled borings using a Terra Sonic TSI 150 tracked drill rig at the site from October 16 to October 26, 2018. The 18 borings were completed to maximum depths of 85 feet (borings CE-18-04 and CE-18-06/MW #4) in the eastern portion of the site, and approximately 45 to 50 feet (borings CE-18-10, CE-19-11/MW #5, and CE-18-14/MW #1) in the western portion of the site using the sonic (high frequency vibratory) drilling method which provided continuous sampling. Logs of the borings are provided in Appendices B, C, and D, and geologic sections are shown on Figures 4 through 7.

The site is generally underlain by organic topsoil from the surface to a depth of approximately 1 to 4 feet; underlain by brown to gray silty-clay/clayey-silt to approximately 5 to 10 feet; underlain by interbedded sand and gravel with silty matrix to approximately 70 feet in the eastern portion of the site and 40 to 45 feet in the western portion of the site; underlain by dense, brown to blue-gray, silty clay (Figures 4 through 7; Appendices B, C, and D).

5.0 Surface Water

As discussed above, the site is on a terrace formed by the Molalla, Pudding, and Willamette Rivers. At its closest, the Molalla River is located approximately 0.7 miles east of the nearest proposed area to be mined and flows to the north; the Pudding River is located approximately 0.6 miles west of the site and also flows to the north. The two rivers intersect approximately 3 miles north of the site and eventually flow into the Willamette River approximately 4 miles north of the site.

Surface water levels in a small pond located in the southeast portion of the site and several ditches located through the properties appeared to be seasonally influenced. Many of the ditches had no water in them at the time of our site visits.

6.0 Groundwater

The regional groundwater flow is from the highlands south of the subject site to the north, northwest, and northeast. This trend is supported by regional groundwater mapping conducted by Piper (1942), Woodward, Gannett, and Vaccaro (1998), and review of well records (Appendix F). The aquifer system in the subject area is primarily unconfined, which is typical of alluvial aquifers, although isolated local confining layers appear to exist. The Pleistocene alluvial deposits mapped along the highland areas south of the site appear to be composed of a high percentage of fine-grained silts and clays and may act as a confining aquiclude for groundwater in underlying sands and gravels in the highland area.

Locally, water supply well reports show that groundwater is obtained from wells completed to depths of approximately 40 feet in the lowlands to 380 feet in the highlands, with most wells being less than 150 feet deep. Water-bearing zones are typically described as sands or gravels with interbeds of silty and clayey materials. The reported static water levels in wells



vary from artesian wells in the lowlands to depths of 89 feet in the highlands. Most domestic wells commonly yield 20 gallons/minute or more, and have specific capacities of 0.4 to 3.0 gallons/minute/foot of drawdown; most irrigation, industrial and public supply wells commonly yield between 150 to 600 gallons/minute and have specific capacities of 1 to 43 gallons/minute/foot of drawdown (Leonard and Collins, 1983).

Monitoring Well Installations and Groundwater Monitoring 6.1

Five monitoring wells, MW #1 through MW #5 were installed at the site in October 2018 to allow for monitoring of groundwater levels and water quality (Figure 2; Appendix C). Monitoring wells were constructed per Oregon regulations and have screened intervals from 10 feet to a maximum of 70 feet deep (monitoring well bottom of screen depths: MW #1 =40 feet; MW #2 = 30 feet; MW #3 = 70 feet, MW #4 = 46 feet, and MW #5 = 30 feet).

Two-inch diameter PVC casing and slotted PVC screening (0.010-inch slot size) were used in the construction. The annulus was filter packed with 10-20 CSSI Silica clean sand from the bottom of the screen to approximately 3 feet above the top of the screen. The annulus was sealed above and below the sand filter with bentonite hole plug. The wells were then provided with protective casing and posts, set in concrete, capped and locked. Well development was performed by SCS Engineers on November 19, 2018, and February 6, 2019. Well development data for the monitoring wells is provided in Appendix E. Groundwater levels in these five wells were measured at the time of well construction and after well development as follows:

TABLE 1 – GROUNDWATER ELEVATIONS AT CANBY PIT PHASE 4 EXPANSION PROPERTIES, 2018 – 2019				
Monitoring Well #	Ground Elevation (ft)	Date	Groundwater Elevation (ft)	
MW #1	09.42	10/24/2018	89.86	
L130502	98.42	01/17/2019	92.60	
MW #2	100.49	10/26/2018	82.14	
L130503	100.48	01/17/2019	81.80	
MW #3	106.75	10/16/2018	78.45	
L130505	106.77	01/17/2019	77.30	
MW #4	102.27	10/18/2018	89.27	
L130504	102.27	01/17/2019	88.21	
MW #5	07.20	10/24/2018	90.97	
L130501	97.20	01/17/2019	93.81	



6.1.1 Previous Studies

H.G. Schlicker & Associates, Inc. (HGSA) has completed several prior aggregate quantity and quality, slope stability and hydrogeologic studies of aggregate mining sites in the Canby / Barlow area. HGSA completed a groundwater impact analysis of the proposed Wilmes Sand and Gravel expansion site located several thousand feet east of the subject site, which is detailed in our February 14, 1994 report (HGSA #941090). The Wilmes Sand and Gravel expansion site is now part of the area used as Cadman's permitted processing facility (Permit #03-0206).

HGSA also completed a hydrogeologic study in 1997 for the proposed mining at the Wilmes Sand and Gravel expansion site for Pacific Rock Products, LLC (now Cadman Materials, Inc.) (HGSA Report #971501). Monitoring well installations, slug and pump tests, and groundwater sampling were completed for this 1997 study, and information from the study regarding groundwater depths and general aquifer characteristics in the site vicinity was of use and applicable to the present subject site investigation. For the hydrogeologic investigation of the Pacific Rock Products site, four monitoring wells were installed on September 25, 1997. Monitoring wells were constructed per Oregon regulations with a screened interval from 5 to 75 feet. Approximate locations of these monitoring wells are shown on Figure 8, and well logs are provided in Appendix F. Groundwater levels in those four wells were measured and recorded by a representative of HGSA as follows:

TABLE 2 – GROUNDWATER ELEVATIONS AT PACIFIC ROCK PRODUCTS, 1997				
Monitoring Well #	Ground Elevation	Date	Groundwater Elevation	
	(ft)		(ft)	
L14865	104.91	10/01/1997	91.82	
(east)	104.81	10/29/1997	92.11	
L14866	108.46	10/01/1997	105.23	
(south)		10/28/1997	105.37	
L14867	102.74	10/01/1997	96.75	
(west)		10/28/1997	97.60	
L14868	102.00	10/01/1997	93.33	
(north)	103.09	10/29/1997	94.66	

HGSA also completed a hydrogeologic study in 2011, for the proposed sand and gravel mine expansion at the adjacent Pacific Rock Products–Paradis, Hatch and Gardner Properties site (acquired by CEMEX and now owned by Cadman Materials, Inc.), which lies adjacent to the north of the subject site (HGSA Report #Y103421). For the hydrogeologic investigation on that project, three monitoring wells were constructed per Oregon regulations with screened intervals from 5 feet to a maximum of 77 feet deep (monitoring well depths: PDH 1 = 37 feet; PDH 2 = 47 feet; PDH 6 = 77 feet). Approximate locations of these monitoring wells are shown on Figure 8, and well logs are provided in Appendix F. Groundwater levels in these three wells were measured before well development and recorded on September 14, 2010, as follows:

TABLE 3 – GROUNDWATER ELEVATIONS AT PARADIS EXPANSION SITE, 2010				
Monitoring Well #	Ionitoring Well # Ground Elevation Date Groundwater I			
	(ft)		(ft)	
PDH 1 L95778	99.83	09/14/2010	90.76	
PDH 2 L95777	104.07	09/14/2010	92.21	
PDH 6 L95779	102.79	09/14/2010	92.62	

Three additional monitoring wells were installed at the Cadman-Paradis expansion site in 2012 (MW-2: L108470 / CLAC 69039, MW-3: L108469 / CLAC 69038, and MW-4: L108468 / CLAC 69037) as per the recommendations of our 2011 report (HGSA #Y103421) to provide continuous groundwater monitoring during the life of the mine. The three additional monitoring wells were constructed per Oregon regulations with screened intervals from 5 feet to 90 feet deep. Approximate locations of these monitoring wells are shown on Figure 8, and well logs are provided in Appendix F. Continuous groundwater monitoring equipment was installed in these three wells, as well as PDH 2 (L95777 / CLAC 66862) and groundwater level recording began on August 21, 2012. Since the installation of monitoring equipment in PDH 2, the well has been referred to as MW-1 during data collection. Select groundwater level measurements prior to mining and as mining has progressed (Table 4, below) illustrate the effect that mine dewatering in the area and nearby wells have had on the local groundwater surface (Figure 9). However, it is important to note that mining operations at the Cadman-Paradis expansion site have not been subjected to our recommendations as discussed in Section 7 below,



TABLE 4 – SELE 2012	CT GROUNDWATER E – 2018	LEVATIONS AT PA	ARADIS EXPANSION SITE,
Monitoring Well #	Ground Elevation (ft)	Date	Groundwater Elevation (ft)
		8/21/2012	95.89
MW-1	104.07	6/29/2017	96.77
L95777	104.07	10/25/2017	93.75
		10/25/2018	90.5
		8/21/2012	95.89
MW-2	103.79	6/29/2017	95.39
L108470		10/25/2017	91.16
		10/25/2018	89.01
		8/21/2012	95.47
MW-3	103.82	6/29/2017	88.82
L108469		10/25/2017	80.82
		10/25/2018	75.68
		8/21/2012	94.56
MW-4	100 66	6/29/2017	73.66
L108468	102.66	10/25/2017	82.49
	[10/25/2018	N/A – WELL REMOVED

that dewatering is restricted to a depth of approximately 20 feet below the ground surface.

HGSA additionally completed a hydrogeologic study in 2017, for the proposed sand and gravel mine expansion at the nearby Traverso Aggregate expansion property site (now owned by CalPortland Company, Inc.), which lies to the northeast of the subject site, east of S. Barlow Road (HGSA Report #Y174045). For the hydrogeologic investigation on that project, three monitoring wells were constructed per Oregon regulations with screened intervals from 5 feet to a maximum of 70 feet deep (monitoring well depths: B-1 = 70 feet; B-2 = 60 feet; B-3 = 60 feet). Groundwater levels in these three wells were measured before well development and recorded on August 15, 2017, and September 7, 2017, as follows:



TABLE 5 – GROUNDWATER ELEVATIONS AT TRAVERSO AGGREGATE SITE, 2017				
Monitoring Well #	Ionitoring Well # Ground Elevation (ft)		Groundwater Elevation (ft)	
B-1	105 55	08/15/2017	83.55	
L123776	105.55	09/07/2017	81.9	
B-2 L123777	109.25	08/15/2017	90.67	
		09/07/2017	89.75	
B-3	112.35	08/15/2017	94.68	
L123778		09/07/2017	94.14	

6.2 Hydraulic Conductivity

Hydraulic conductivity is the property of soil and rocks that describes the ease with which a fluid (in this case, water) can move through interconnected pore spaces and fractures. Hydraulic conductivity is indicative of the permeability of the geologic materials at the site.

Hydraulic conductivity values were calculated based on the results of the November 19, 2018, well development at the site and were compared to available data from other wells in the area, along with data from previous hydrogeologic studies at adjacent sites. Well development at the subject site was conducted on November 19, 2018, and February 6, 2019, by a representative of SCS Engineers. The hydraulic conductivities for the subject site wells are given in Table 6 (below).

TABLE 6 – HYDRAULIC CONDUCTIVITY FROM MONITORING WELL DEVELOPMENT AT CANBY PIT PHASE 4 EXPANSION PROPERTIES, 2018 – 2019				
Monitoring Well #	Discharge (gal/min)	Drawdown (ft)	K (gal/day/ft ²)	
MW #1 / L130502	1.8	0.2	867	
MW #2 / L130503	1.5	3.61	88	
MW #3 / L130505	1.2	Poor Data	Poor Data	
MW #4 / L130504	Poor Data	Poor Data	Poor Data	
MW #5 / L130501	2.00	0.27	769	

Hydraulic conductivities calculated from well development data for three of the monitoring wells at the subject site ranged from 88 to 867 ft/day (Table 6). Depth to water data collected during development of MW #3 and MW #4 was insufficient for calculating hydraulic conductivity.

Hydraulic conductivity values for prior investigations of nearby sites were determined based on the results of the October 1997, September 2010, and September 2017 well development pumping from those monitoring wells. The hydraulic conductivities for the wells on the nearby sites are as follows (Tables 7, 8 and 9):

TABLE 7 – HYDR	AULIC CONDUCTIVI	TY FROM PUMP	TESTS	S AT PACIFIC ROCK
PROD	UCTS, 1997			

Monitoring Well #	Discharge (gal/min)	Drawdown (ft)	K (gal/day/ft²)
L14865 (east)	2.97	0.29	182
L14868 (north)	5.26	1.33	521

As shown above, hydraulic conductivities calculated from Pacific Rock Products site pump test data ranged from 182 to 521 gal/day/ft² (Table 7).

TABLE 8 – HYDRAULIC CONDUCTIVITY FROM MONITORING WELL DEVELOPMENT AT PARADIS EXPANSION SITE, 2010				
Monitoring Well #	Discharge (gal/min)	Drawdown (ft)	K(gal/day/ft ²)	
PDH 1 L95778	2.12	0.14	4,586	
PDH 2 L95777	1.85	0.06	7,350	
PDH 6 L95779	2.08	1.47	206	

As shown above, hydraulic conductivities calculated for the Cadman–Paradis site ranged from 206 to 7,350 gal/day/ft² (Table 8).

FABLE 9 – HYDRAULIC CONDUCTIVITY FROM MONITORING WELLDEVELOPMENT AT TRAVERSO AGGREGATE SITE, 2017					
Monitoring Well #	Discharge (gal/min)	Drawdown (ft)	K (gal/day/ft²)		
B-1 L123776	N/A Well Interference Issues	N/A Well Interference Issues	N/A Well Interference Issues		
B-2 L123777	1.03	0.95	30		
B-3 L123778	1.06	3.52	6		

As shown above, hydraulic conductivities calculated for the Traverso Aggregate expansion property site ranged from 6 to 30 gal/day/ft² (Table 9).

Hydraulic conductivities calculated for monitoring wells in the site area ranged from 6 to 7,350 gal/day/ft² — a typically variable range of hydraulic conductivity for an aquifer composed of lenticular and channel-like deposits of clayey silts, sands, and gravels.

7.0 Analysis

Mining has been ongoing in this area for more than 70 years. Cadman Materials and previous owners of this mining operation have conducted extraction activities in the area for nearly 25 years.

Current mining operations at the Phase 3 (Paradis) location, immediately north of the proposed Phase 4 expansion properties, are being conducted by dewatering active mine cells and pumping to nearby cells. Analysis of groundwater measurements obtained at the Phase 3 site before the start of mining and during the current mining operations, along with recent measurements obtained in the monitoring wells constructed in the Phase 4 expansion properties, indicate that the inferred direction of groundwater flow in the area is generally southerly to northerly. Dewatering the mine cells in the proposed Phase 4 mining area will contribute to a reduction in the groundwater surface at areas surrounding the dewatered mine cell. Dewatering mine cells in the proposed Phase 4 expansion properties has the potential to impact nearby irrigation and domestic wells in the area.

In order to minimize conflicts with the domestic and irrigation wells within the impact area for the Phase 4 expansion site from groundwater drawdown due to dewatering, mine cells for the proposed project should be primarily wet-mined such that there is minimal lowering of the groundwater surface. Specifically, it is our recommendation to restrict dewatering throughout the proposed mining area to a depth of approximately 20 feet below the ground



surface, which is approximately 10 feet below the groundwater levels present prior to mining in the Phase 3 area. Furthermore, an approximately 20 feet deep infiltration trench may be constructed, as necessary, along the southern boundary of the proposed Phase 4 expansion area, or dewatering depths may be reduced to maintain groundwater at sufficient levels to prevent more than insignificant impacts to wells within the impact area, if monitoring data during mining indicates substantial impacts will occur. Additionally, two more monitoring wells are proposed to be constructed south of the mine boundary near monitoring well MW #4 (Phase 4) along the western property boundary of Tax Lot 5500 (Figure 10). These three monitoring wells will have continuous water level recording devices installed in them so that we can establish accurate, realtime distance vs. drawdown curves. This will allow for the accurate prediction of water levels south of the mine as mining progresses southward. Also, two other monitoring wells are proposed to be constructed in the south-central and southwest area of the Phase 4 expansion area; these wells will also have continuous recorders installed in them (Figure 10). The proposed approach of primarily wet mining and use of an infiltration trench (if needed) should result in a condition of insignificant or no loss of groundwater and maintain groundwater levels for the use of nearby wells. Confirmation of this impact minimization will be assured through continuous monitoring of groundwater levels along the southern boundary of the mine.

Mining will begin at the northern part of the expansion properties. Once the overburden is removed, mining will progress in east-west strips, with long-term progression to the south. Mining in Phase 4 will continue until the southern boundary of the deposit has been extracted. Mining may be deeper in the eastern portion of the property where the resource appears to be present to a depth of approximately 70 feet below the ground surface. Mining in a north to south manner will allow for monitoring of groundwater levels south of the mining operation and to assess potential impacts prior to any impacts affecting local wells.

Because of the proposed maintenance of relatively high groundwater levels through limitations on dry mining as described above, it is our opinion that it is unlikely that the proposed mining activity will have a significant adverse effect on wells in the area. Given the importance of groundwater for residential and agricultural operations in the area, we recommend a protective strategy that provides data which may be used to alter ongoing mining activity, based on easily observable and easily tracked monitoring well water level/piezometer data that would be obtained long in advance of potential adverse effects on area wells.

There are currently five monitoring wells installed on the proposed Phase 4 expansion properties near the southeastern, western, and northern perimeter (Figures 2, 8, and 10). These wells are generally completed to depths of the proposed mining and will provide real-time groundwater level data at the expansion site. However, these existing monitoring wells should be supplemented by the aforementioned four additional monitoring wells to provide sufficient



information on how mining activities, beginning at the northern end of the Phase 4 site, might affect groundwater levels to the south; specifically, the nearby domestic and irrigation wells.

8.0 Conclusions and Recommendations

To implement the protective strategy outlined above, our best professional judgment indicates that the following conditions of approval should be made part of the application approval:

- 1. Cadman Materials shall mine the Canby Pit Phase 4 site from north to south utilizing the mine cells as indicated in the application, both to protect groundwater and to assure ease and accuracy of monitoring impacts of the ongoing operations.
- 2. To obtain sufficient groundwater information and to overcome the inherent limitations due to aquifer complexities and hydraulic conductivity variances, additional monitoring wells are recommended on the Phase 4 site and Tax Lot 5500, immediately south of the site. We are recommending that prior to the start of operations on the Phase 4 site, Cadman Materials construct the four new monitoring wells at the locations shown on Figure 10. These wells should be constructed similar to the existing monitoring wells so that they may be used to monitor groundwater at the approximate elevations from which many of the nearby wells are currently obtaining water (approximately 60 to 90 feet MSL). Monitoring these wells will provide accurate, real-time, and predictive information that will enable Cadman Materials and interested parties to observe the actual effects of operations and alter operations if an adverse trend is identified. The locations of the monitoring wells create an array that will provide the most accurate and timely information about any drawdown effects associated with dewatering.
- 3. Cadman Materials shall monitor all on-site monitoring wells (the five existing monitoring wells and the four additional monitoring wells recommended above) before commencing mining operations on the Phase 4 site. Groundwater levels in the existing and proposed monitoring wells should be monitored quarterly for at least one year before mining operations begin. Continuous groundwater level monitoring in the five southern monitoring wells (as described in Section 7.0, above), and quarterly groundwater level monitoring in the remaining wells should continue for the life of the mine or until the wells are abandoned and/or mined out. This will assure that there is a full year of accurate data before mining commences, and will provide real-time data on groundwater levels as mining progresses. Additionally, all monitoring wells should be monitored semi-annually for heavier and lighter hydrocarbons (DX and GX), and polycyclic aromatic hydrocarbons (PAHs) until the wells are abandoned or for the life of the mine. These monitoring wells should be sampled and tested for DX, GX, and PAHs prior to mining to establish current conditions.
- 4. Cadman Materials shall use appropriate equipment for "wet" extraction for removal of the gravel below the depth of approximately 20 feet; which leaves most of the water in



the groundwater system as the operation moves to the south and closer to local offsite wells.

- 5. Cadman Materials shall submit a report of its monitoring data to DOGAMI and Clackamas County upon request.
- 6. Cadman Materials shall mine one east-to-west oriented cell at a time, beginning at the north and progressing to the south as cells are mined out. As mining progresses, Cadman Materials shall continually monitor groundwater levels related to its operations. If a trend is observed that could significantly affect nearby wells, Cadman Materials shall work with the regulatory agencies to modify its mining plans to mitigate the effects to a level no longer significant within the impact area. Strategies to accomplish this could include:
 - Establishment of a recharge area constructed at the southern end of the Canby Phase 4 site so that the recharge activity is directly between the mining activity and the nearby domestic and irrigation wells.
 - Altering mining cell order and/or the size of the mining cells.
 - Reducing dewatering depths.
- 7. Our understanding that an existing condition of approval for Cadman Materials' Canby Phase 3 (Paradis) operations is that Cadman Materials shall rebuild to its historic level of production any well that is demonstrated to be significantly affected by its operations. This condition should be continued for the Canby Pit Phase 4 operations.

9.0 Limitations

Our investigation was based on geological and hydrogeologic reconnaissance, available published information, information provided by others, and our subsurface exploration, testing, and analyses. The information presented in this report is believed to be representative of the site. This report pertains to the subject site only, and is not applicable to adjacent sites nor is it valid for types of development other than that to which it refers. Geologic conditions including materials, processes, and rates can change with time and therefore, a review of the site and/or this report may be necessary as time passes to assure its accuracy and adequacy.

The conclusions herein are professional opinions derived in accordance with current standards of professional practice, and no warranty is expressed or implied. This report is for the sole and exclusive use of the client. Any reuse or third-party use of this information requires the written authorization of H.G. Schlicker and Associates, Inc. This report may only be copied in its entirety.

10.0 Disclosure

H.G. Schlicker & Associates, Inc. and the undersigned Certified Engineering Geologist have no financial interest in the subject site, the project or the Client's organization.



11.0 References

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- Piper, A. M., 1942, Ground-water resources of the Willamette Valley, Oregon: U.S. Geological Survey, Water-Supply Paper 890, 194 p., map.
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- Woodward, D. G., Gannett, M. W. and Vaccaro, J. J., 1998, Hydrogeologic Framework of the Willamette Lowland Aquifer System, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-B, maps.



It has been our pleasure to serve you. If you have any questions concerning this report or the site, please contact us.

Respectfully submitted,



H.G. SCHLICKER AND ASSOCIATES, INC.

EXPIRES: 10/31/2019 J. Douglas Gless, MSc, RG, CEG, LHG President/Principal Hydrogeologist

JDG:aml









Date: 08/27/2019	Duciost #\$/10/10/	Prepared by: AML	Duran age of Menting Dian	Cadman Exp
Scale: 1" = 300'	F10ject #1104104	Approved by: JDG	Froposed Mining Flan	Cla

JUNE HL UFHSET

Conveyor and Equipment Access Approx. 150-300ft

Mining Phase 4D

Gas Line Easement 35ft

Figure provided by Cadman Materials by email attachement received in HGSA's office 08/07/2019. All locations and dimensions are approximate.

pansion Properties - Canby Phase 4 lackamas County, Oregon




















Project #Y184184

Appendix A - Site Photographs -





Photo 1 – Drill rig set up at CE-18-02 / MW #3 on October 16, 2018.



Photo 2 – View of the Sand and gravel recovered between 30 to 40 feet below the ground surface from boring CE-18-02.





Photo 3 – View of the sand and gravel recovered between 40 to 50 feet below the ground surface from boring CE-18-04.



Photo 4 – View of silty, clayey sand recovered between 20 to 30 feet below the ground surface from boring CE-18-06.





Photo 5 – View of the sand and gravel recovered between 10 to 20 feet below the ground surface from boring CE-18-17.



Photo 6 – View of MW #2 on January 17, 2019 at the time of static water level measurements.



Project #Y184184

Appendix B - Geotechnical Hole Reports -



(as required by OAR 690-240-0035) Instructions for completing this report are on the last page of this form.

(1) OWNER/PROJECT: Hole Number <u>(E. 18-1</u>) Name LT.C.	(9) LOCATION OF HOLE (legal description) County Clar Lames Two 4 Nors Range 1 (Ear W W.M.
Address 25351 5 Parlow Dd	Seo 7 SE 1/4 of the NE 1/4 Tax Lot 4 LE (57/ Yor)
$\frac{1}{2} M_{1} = \frac{1}{2} M_{1$	Tax Map Number Lot
City FACIDIA State (IC Dip 1 AC) C.	Lat DMS or DD
(2) TYPE OF WORK	Long ' ' or DMS or DD
A New [] Deepening [] Atteration (repair/recondition) [] Additionment	Street Address of Well (or nearest address) 25351 Bar Dw Rd
(3) CONSTRUCTION METHOD:	Aurora, OR
□ Rotary Air □ Hand Auger □ Hellow Stem Auger □ Rotary Mud □ Cable Tool □ Push Probe □ Other Other	Map with location identified must be attached
(4) TYPE OF HOLE:	(10) STATIC WATER LEVEL:
Uncased Temporary Cased Temporary	ft. below land surface. Date
Li Uncesed Permanent Li Slope Stability Li Other	- Artosian pressure to. per square inch. Date
(5) USE OF HOLE: Soil Sameling	
)	(11) SUBSUKRACE LOG: Ground Risection
	Matarial Description Room To OTTY
(6) BORE HOLE CONSTRUCTION:	South another 10 75
Special Standard \Box Yes (attach copy) Depth of Completed Hole $\underline{\mathcal{B}\mathcal{D}}$ ft.	silty same same anovel 25 35
HOLE SEAL	Silty grovels sands 35 50
Diameter From To Material From To Amount Sacks or lbs	gravels sands STO LOT
7" A 180 Bant 12 [CO] 25"	sonaly 5-77 67 75
	- gry clay 75 80
	Date Started 10-16-18 Date Completed 20-12-18
Durling Lunder Z and Brig Martin Broth Hall	(12) ABÁNDONMENT LOG:
Backfill placed from ft. to ft. Material BantP	(12) ABANDONMENT LOG: Material Description From To Sacks or Pounds
Backfill placed from ft. to ft. Material BantPJ Filter Pack placed from ft. to ft. Material Size	(12) ABANDONMENT LOG: Material Description From To Sacks or Pounds
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Backfill placed from <u>3</u> ft. to <u>80</u> ft. Material <u>Bant</u> <u>w/P</u> Filter Pack placed from <u>ft. to</u> <u>ft. Material</u> <u>Size</u> (7) CASING/SCREEN: Director Form To Course Steel Plastic Wolded Threaded	(12) ABANDONMENT LOG: Material Description From To Sacks or Pounds But chills 3 80 -25
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Backfill placed from 3 ft. to 60 ft. Material Bant W/PJ Filter Pack placed from ft. to ft. Material Size (7) CASING/SCREEN: Diameter From To Gauge Steel Plastic Welded Threaded Casing:	(12) ABANDONMENT LOG: Material Description From To Sacks or Pounds Bent chills 3 80 -25
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Backfill placed from 3 ft. to 8 ft. Material Bant W/P3 Filter Pack placed from ft. to ft. Material Size (7) CASING/SCREEN: Diameter From To Gauge Steel Plestic Welded Threaded Casing: Screen:	(12) ABANDONMENT LOG: Material Description From To Sacks or Pounds Bent ch. Hs 3 80 -25
Backfill placed from 3 ft. to 6 ft. Material Bant W/P3 Filter Paok placed from ft. to ft. Material Size (7) CASING/SCREEN: Diameter From To Gauge Steel Plastic Welded Threaded Casing: 	(12) ABANDONMENT LOG: Material Description From To Sacks or Pounds Bent ch. H.s. 3 80 -245 Date Started 10-14-18 Date Completed 10-16-18
Backfill placed from ft. to ft. Material BantPJ Filter Pack placed from ft. to ft. Material Size (7) CASING/SCREEN: Diameter From To Gauge Steel Plastic Welded Threaded Casing: Gauge Steel Plastic Welded Threaded Casing: Gauge Steel Plastic Welded Threaded Screen: Gauge Gau	(12) ABANDONMENT LOG: Material Description From To Sacks or Pounds Bent ch. M.S. 3 80 -2.5 Date Started 10-14-18 Date Completed 10-14-18
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(as required by OAR 690-240-0035) Instructions for completing this report are on the last page of this form.

The mentane for contributing must char pare out mo tase hafe of energy to the	
(1) OWNER/PROJECT: Hole Number CC 18.3	(9) LOCATION OF HOLE (legal description) County CLACLAMAS TWO 4 North Range / Edr W W.M.
Address 25 551 5 BARLOW ROAD	Sec 7 SE 1/4 of the NG 1/4 Tax Lot 415070600
City De 10 004 State ON The S7 MO7	Tax Map Number Lot
City QUEUCE State One 24p / 100 2.	Lat * " or . DMS or DD
(2) TYPE OF WORK	Long , "or DMS or DD
New Deepening Alteration (repair/recondition) Manadonment	Street Address of Well (or nearost address) 25551 Bullow Road
(3) CONSTRUCTION METHOD:	Aurora, OR
□ Rotary Air □ Hand Auger □ Hollow Stem Auger □ Rotary Mud □ Cable Tool □ Push Probe □ Other 200 , 2	Map with location identified must be attached
(4) TYPE OF HOLE:	(10) STATIC WATER LEVEL:
L Uncased Temporary Cased Temporary	ft. bolow land surface. Date
	Artesian pressure lb. per square inch. Date
(5) USE OF HOLE:	(11) SUBSURFACE LOG:
	Ground Blovation
	Material Description From To SWL
	3/14 0 10
(U) BOARS ADDIR CONDICTION, Special Standard Dives (attach conv) Depth of Completed Hole 76 9	Med - Fink SANK 10,20
phoner president rel 1 co (anexi only) poblet of completent rate V- th	silty growls & sends 20 35
HOLE SEAL	gravely sends 35 55
Diameter From To Material From To Amount Sacks or lbs	Med-Fine scind 55 75
7" 3 75	Sime groper 74
	9109 2109 14 15
	······
	Date Started 19-17-18 Date Completed 10-18-18
Backfill placed from 3 ft. to 75 ft. Material Bent chills	(12) ABANDONMENT LOG:
Ritter Pack placed from ft. to ft. Matorial Size	Material Description From To Sacks or Pounds
	Bent ch/Ps 3 75 20
(7) CASING/SCREEN:	
. Diameter From To Gauge Steel Plastic Welded Threaded	
Scroon:	
Stot Size	Date Started 10-17-18 Date Completed 10-18-18
(8) WELL TEST:	Professional Certification
🗆 Pump 🔛 Bailer 🗋 Air 🔲 Flowing/Artesian	(to be signed by a licensed water supply or monitoring well constructor, or Oregon
Permeability Yield GPM	teRinated RootoRist of historssingut engineery
Conductivity PH	I accept responsibility for the construction, alteration, or abandonment work
Temperature of water • F/C Depth artesian flow found ft.	performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction
Water water analysis done? 🗀 Yes 🗂 No	standards. This report is true to the best of my knowledge and belief.
By whom?	Ticense or Registration Number 10609
Depth of strata analyzed. From ft. to ft.	
Remarks:	SignedDateDateDate
·	Affiliation Holt Services

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

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STATE OF OREGON GEOTECHNICAL HOLE REPORT (as required by OAR 690-240-0035) Instructions for completing this report are on the last page of this form.

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(1) OWNER/PROJECT: Hole Number CO. 18.4	(9) LOCATION OF HOLE (legal description)
Address 25351 × Barby Nord	Sec. 7 SE 1/4 of the NE 1/4 Tax Lot (1) E/DZ/V/M
City OLLY ACC. State (VD Zin 97/7/57)	Tax Map Number Lot
	Lat DMS or DD
(2) ITEOF WORK	Long
	Street Address of Well (or nearest address) 25351 Barlows Rd
(3) CONSTRUCTION METHOD:	Aurora, OR
Rotary Mud Cable Tool Push Probe Other Sould	Map with location identified must be attached
(4) TYPE OF HOLE:	(10) STATIC WATER LEVEL:
Uncessed Temporary 2 Cased Temporary	ft. below land surface. Date
	Artesian pressuro ib, por square inch. Date
(5) USE OF HOLE: Soll Sentle	(11) SUBSURFACE LOG:
	Ground Elevation
	Material Description From To SWL
(A. BORE HOLE CONSTRUCTION:	DII7 0 5
Special Standard [] Yes (attach copy) Deuth of Completed Hole & ft,	Stilly Sand 5 10
	graveling serveds 10 35
Diameter From To Material From To Amount Sacks or lbs	mod - Who Sciel 35 40
	anyly a couple 60 78
	clay 78 95
	Date Started D. 19.18 Date Completed D. 19.18
Backfill placed fromft. toft. Material	(12) ABANDONMENT LOG:
Filter Pack placed from fl. to fl. Material Size	Material Description From To Sacks or Pounds
	1 JENT CLIPI 0 05 25
(7) CASING/SCREEN:	
. Diameter From To Gauge Steel Plastic Welded Threaded	
Screen:	
Slot Size	Date Started 10.19.15 Date Completed 10-19.18
(8) WELL TEST:	Professional Certification
🗆 Pump 🔲 Bailer 📑 Air 🗋 Flowing/Artesian	(to be signed by a licensed water supply or monitoring well constructor, or Oregon registered scalogist or professional engineer).
PermeabilityYield GPM	
Conductivity PH	I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed
Temperature of water •F/C Depth artesian flow found ft.	during this time is in compliance with Oregon's geotechnical hole construction
Water water analysis done (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	standards. This report is true to the best of my knowledge and belief.
Depth of strata analyzed, From ft. to ft.	License or Registration Number 10609
Remarks:	Signed Jum Date 10-19.15 Affiliation Hos It Service Bus

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THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

(as required by OAR. 690-240-0035) Instructions for completing this report are on the last page of this form.

Hist denotes for compressing this report are on the last page of this town.	
(1) OWNER/PROJECT: Hole Number <u>[12 · 18 · 5</u> Name <u>LCL</u>	(9) LOCATION OF HOLE (legal description) County Clark Manage (E) W W.M.
Address 25351 5 Bay UN Road	Sec 7 5E 1/4 of the NE 1/4 Tax Lot 41E070600
City ALLEVITC, State OR Zip 97002.	Tax Map Number Lot
(2) TYPE OF WORK	Lat OMS or DD
New Deepening Alteration (repair/recondition) Abandonment	Long, "orDMS or DD
	Street Addross of Well (or nearest address) 25351 Barlow 14
(3) CONSTRUCTION METHOD: Construction Auger I Hollow Stem Auger Rotary Mud Cable Tool Push Probe Other Societ	NUTURA, OR
Uncased Temporary Z Cased Temporary	(10) STATIC WATER LEVEL:
Uncased Permanent I Slope Stability I Other	
(SHISE OF HOLE: S. I BORISIC	Artesian pressure 10. per square inch. Date
	(11) SUBSURFACE LOG:
	Ground Elevellon
	Material Description From To SWL
(6) BORE HOLE CONSTRUCTION:	silt o 5
Special Standard 🖾 Yes (attach copy) Depth of Completed Hole 55 ft.	SONR MEN-TING 5 10
Hole seal	Some with 45
Diameter From To Materiai From To Amount Sacks or lbs	
7" 14	med-Fine sand 45 50
	silty sand 50 55
	Date Started Date Completed
Backfill placed from 5 ft. to 55 ft. Material Bent drik	(12) ABANDONMENT LOG:
Filter Pack placed fromft. toft. MaterialSize	Material Description From 10 Sacks or Pounds
(7) CASING/SCREEN:	Buit chills 0 St 14
Diameter From To Gauge Steel Plastic Welded Threaded	
Screen:	
Slot Size	Date Started 10-18-18 Date Completed 10-18.18
(8) WELL TEST:	Professional Certification
🗇 Pump 🗋 Ballor 🖾 Air 🛄 Flowing/Arteslan	to be signed by a meensed water supply or monitoring well constructor, or Oregon registered geologist or professional engineer).
Pertneability Yield GPM	
Conductivity PH	performed during the construction dates reported above. All work performed
Temperature of water •F/C Depth artestan flow found ft.	during this time is in compliance with Oregon's geotechnical hole construction
Water water analysis cone / [_] Xes [_] No	standards. This report is the to the best of my knowlodge and belief.
Denth of strate analyzed. From ft. to ft.	License or Registration Number 10609
Remarks:	Signed Date
	Affiliation 1-12/1 Services

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THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

(as required by OAR 690-240-0035) . Instructions for completing this report are on the last page of this form.

matucides for composing this report at our the fast page of this torne.	
(1) OWNER/PROJECT: Hole Number <u>CU-18.7</u>	(9) LOCATION OF HOLE (legal description)
Ham 2361 5 Banking Road	San J BE Waster NE WATER TALLED TO AND
ADDRESS OF JULY INDER KOULD	Tax Man Number
City FAU DY CA State UK 21p -72102.	Lat " "or . DMS or DD
(2) TYPE OF WORK	Long ' ' or DMS or DD
U New Li Deepening Li Alteration (repair/recondution) Li Abandonnient	Street Address of Well (or nearest address)
(3) CONSTRUCTION METHOD:	25351 Barlow Rd, Aurora, OR
Li Rotary Mud Li Cable Tool Dush Probo Dother ONC	Map with location identified must be attached
(4) TYPE OF HOLE: Uncased Temporary Cased Tempotary Uncased Permanent Slope Stability Other	(10) STATIC WATER LEVEL: ft. bolow land surface. Date
S 12 V. 0/4	Artesian pressure ib. per square inch. Date
(5) USE OF HOLE:	(11) SUBSURFACE LOG: Ground Blevation
	Material Description From To SWL
(6) BORE HOLE CONSTRUCTION:	51/4 0 5
Special Standard Yes (attach copy) Depth of Completed Hole, 50 ft.	gravely sometis 5 10
	growly silty send 10 20
HOLE SHAL Diameter Brow To Amount Sacks of the	Sangly graves 20 47
	- 6 ay 97 50
	Date Started Date Completed
Backfill placed from ft. to ft. Materiai	(12) ABANDONMENT LOG:
Filter Pack placed from ft. to ft. Material Size	Material Description From To Sacks or Pounds
	1200 chile 0 50 15
(7) CASING/SCREEN:	
. Diameter From To Gauge Steel Plastic Welded Threaded	
Stot Size	Dato Started 10-23-18 Date Completed 10-23-18
(8) WELL TEST:	Professional Certification
Dump Bailer Air Flowing/Artesian	(to be signed by a licensed water supply or monitoring well constructor, or Oregon
Permeability Yield OPM	registered geologist or professional engineer).
Conductivity PH	I accept responsibility for the construction, alteration, or abandonment work
Temperature of water •F/C Depth artesian flow found ft.	performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's veolechnical hole construction
Water water analysis done? 🖂 Yes 🔂 No	standards. This report is true to the best of my knowledge and belief.
By whom?	License or Registration Number 10609
Depth of strata analyzed. Fromft, toft.	and Then
Remarks:	Affiliation Halt Could file

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

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STATE OF OREGON GEOTECHNICAL HOLE REPORT (as required by OAR 690-240-0035) Instructions for completing this report are on the last page of this form.

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(1) OWNER/PROJECT: Hole Number <u>Ce-18-8</u>	(9) LOCATION OF HOLE (legal description)
Address 25351 5 BACININ NOOD	Sec 7 SE 1/4 of the NE 1/4 Tax Lot 41 FUT (V/V)
City Restrict State OP Zip 97/XVZ	Tax Map Number Lot
	Lat*'' or DMS or DD
2 New Deepening D Alteration (repair/recondition) DAbandonment	Long * '' otDMS or DD
	Street Address of Well (or nearest address)
(3) CONSTRUCTION METHOD:	25351 Barlow Rd, Aurora, OR
Rotary Air Hand Augor Hollow Stem Augor	
	Map with location identified must be attached
(4) TYPE OF HOLE:	(10) STATIC WATER LEVEL:
□ Uncased Permanent □ Slope Stability □ Other	ft. below land surface. Date
	Artesian pressure lb. per square inch. Date
(3) USE OF HOLE; ZOVI	(11) SUBSURFACE LOG:
	Ground Blevatlon
	Material Description From To SWL
(6) BORE HOLE CONSTRUCTION:	311+ 0 5
Special Standard \Box Yes (attach copy) Depth of Completed Hole $\underline{\mathcal{U}}_{\mathcal{O}}$ ft.	gravely savel 5 10
HOLE SEAL	Danay graver 10 200
Diamoter From To Material From To Amount Sacks or lbs	mul-Fin acad 35 37
711	
	37 4n
· · · · · · · · · · · · · · · · · · ·	Date Started Date Completed
β μ β β τ d ψ .	(12) ARANDONMENT LOG:
Baokfill placed from the to the Material Material	Material Description From To Sectors Days 1
Filter Pack placed fromft. toft. Material Size	Waterial Description Floin 10 Sacks of Pounds
(7) CASING/SCREEN:	But di Ma
	PENT CAVID - 40 15
. Diameter From To Gauge Steel Plastic Welded Threaded	
	Date Started 10 - 23 - 18 Date Completed 10 - 23 - 18
(8) WELL TEST:	Professional Certification
🗆 Pump 🗋 Bailer 🗌 Air 🗌 Flowing/Artesian	to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or professional engineer).
Permeability Yield GPM	
Conductivity PH	performed during the construction dates reported above. All work performed
Temperature of water •r/C Depth artesian flow found ft.	during this time is in compliance with Oregon's geotechnical hole construction
Water where analysis update [] too [] 100	BEAUGATUS, ALLS REPORT IS THE TO LOE DEST OF MY KNOWLEDGE AND DELIEL
Depth of strata analyzed. Fromft. toft.	License or Registration Number 10609
Remarks:	Signed Dato 10-23-
	Affiliation that defices
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THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

 (as required by OAR 690-240-0035)

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

 (1) OWNER/PROJECT:

 Hole Number $\underline{C^2 - 15 - 4}$

 (9) LOCATION OF HOLE (legal description)

Addroin 057351_S_BOXTINGS_ROAD Son 02 Star LINE Diff Star Line Charles Construction Diff Star Line Construction Star Line Diameder From To Material Diameder From To Grave Star Material Diameder From To Grave Star Material Diameder From To Grave Star Material Diameder From To Grave Start Diameder From To Grave Start <	Name LCP.	(9) LOCATION OF HOLE (legal description)
City HLUCOTO State DD Zie GT (X)Z Two Map Number Lat	Address 25351 5 Barlow Rond	SecSE1/4 of the NE/4 Tax Lot 41E (ST()/201)
(2) TYPE OF WORK Lta	City ALLEDTAL State DR ZIP 97002	Tax Map Number Lot
If New	(2) TYPE OF WORK	Lat, •, or DMS or DD
(9) CONSTRUCTION METHOD: Dest Address of Wall of Nation Dates: (9) Retwy Mail Cable Tool = Nath Probe Other (9) TYPE OF ROLE: Map with location identified must be strached (10) SISTATIC WATER LEVEL: About Identified must be strached (10) SUSE OF HOLE: Solid I Sample: (11) SUSE OF HOLE: Solid I Sample: (26) BORE HOLE CONSTRUCTION: Retwind Mail Or Completed Hole Up R. (30) USE OF HOLE: Solid I Completed Hole Up R. (31) SUSEVERACE LOG: Image State (31) SUSEVERACE TOOK: To Amount Sucker of Be (32) MARCH TERNER State (32) MARCH TERNER State (32) MER HOLE CONSTRUCTION: State (34) MERCH TERNER State (35) MERCH TERNER State (36) WELE TERNE Diameter From To Grago Steel Platic Welded Threaded (36) WELL TEST: Diameter From To Grago Steel Platic Welded Threaded (36) WELL TEST: Diameter Charles (Construction, all web performed form termeshill web incompleted incomplet	New Deepening Alteration (repair/recondition) Abandonment	Long o ' " or DMS or DD
Rotary Mar Hand Aager Elolow Stan Aager South Tool Park Probe Rotary Mar Rotary Mar Map with location identified must be attached (4) TYPE OF ROLE: Codest Codest Deneaded Temporary Codest Attestin protein Data (5) USE OF HOLE: Sol 1 Son Miles Data (6) BORE HOLE CONSTRUCTION: Status Status Sol 1 Consult Elovation (7) OLB Statu Status Status Sol 1 Consult Elovation (7) CASING/SCREEN: Diameter From To Material Size Size Codest	(3) CONSTRUCTION METHOD:	25351 Barlie Dd Aurine 150
I KNARY MARE I CARADE NORE Image with location identified must be attached (1) TYPE OF NOLE: Other Antoin processor Date (1) SUES OF HOLE: Solvi Ital surface. Date (3) USE OF HOLE: Solvi Ital surface. Date (4) STATIC WATER LEVEL: Antoin processor Date (5) USE OF HOLE: Solvi Ital surface. Date (6) BORE HOLE: Solvi Ital Surface CONSTRUCTION: Statistical Description From Special Standard Yes (attack copy) Depth of Completed Hole 4b ft. Statistical Description From 74 Image with location identified must be attached Statistical Prom To SWL Special Standard Yes (attack copy) Depth of Completed Hole 4b ft. Statistical Description From To 74 Image with location identified must be attached Statistical Description From To SWL 74 Image with location identified must be attached Statistical Description From To SWL 74 Image with location identified must be attached Statistical Description From To SWL 70 CASING/SCREEEN:	Rotary Air Hand Auger Hollow Stem Auger Series	
(4) TYPE OF NOLE:		Map with location identified must be attached
Instant formation Biops Stability Other Instant produce Instant produce Data (3) USE OF HOLE: Sol 1 Son 1 Son 1 Son 1 Son 1 Son 1 (3) USE OF HOLE: Sol 1 Son 1 (4) SUE OF HOLE: Sol 1 Son 1	(4) TYPE OF HOLE:	(10) STATIC WATER LEVEL:
(5) USE OF HOLE: Solid Sandler (6) BORE HOLE: Solid Sandler (7) BORE HOLE: Solid Sandler (6) BORE HOLE: Solid Sandler (7) BORE HOLE: Statu (7) Material Person To Amount Stacks or be (7) Material Person To Material (7) CASING/SCREEN: Date Statud [0 - 23 - 18] Diameter From To Gauge Steel Platic Wolded Threaded (7) CASING/SCREEN: Material Diameter From To Gauge Steel Platic Wolded Threaded Material Description Science: Gauge Steel Platic Wolded Threaded (8) WELL TEST: Date Statud [0 - 23 - 18] [] Puup Baiker [] Baiker Air [] Floor module: Floor module: [] Professional Certification (b - 23 - 18] [] Ordent analyzed Profiles Material Conductivity or module: [] Professional Certification (b - 2	Uncased Permanent Slope Stability Other	the below land surface. Date
(1) SUBSURACE LOG: (6) BORE HOLE CONSTRUCTION: Special Standard Yes (stach copy) Depth of Completed Hole <u>40</u> f. HOLE Stat. Diameter From To Material 74	(5) USE OF HOLE: Soil Sampler	Antestan pressure 10. per square men, Data
(6) BORE HOLE CONSTRUCTION: Special Standard Yes (attack copy) Depth of Completed Hole 4/b ft. Special Standard Yes (attack copy) SEAL Sinester From To Material Prom To Amount Sacks or Ibs		(11) SUBSURFACE LOG: Ground Biovation
6) BORE HOLE CONSTRUCTION: Special Standard [] Yes (stach copy) Doph of Completed Hole <u>4b</u> R. HOLE SEAL Diameter Brom To Material From To Amount Sacks or be 74		Material Description From To SWL
Special Standard [] Yes (attack copy) Depth of Completed Hole <u>4b</u> ft. HOLB SBAL Diameter From To Material Pron 74	(6) BORE HOLE CONSTRUCTION:	s.'lt 0 3
HOLB SBAL Diameter Brom To Material From To Amount Sucks or lbs 74	Special Standard TYes (attach copy) Depth of Completed Hole 46 ft.	The sands 3 5
Diameter Brom To Material From To Amount Sacks or its 74	HOLE SEAL	gravely sand to Zo
74	Diameter From To Material From To Amount Sacks or lbs	SUNDY grave 20 35
And A	74	
Backfill pisced from		Med the SANd3 35 40
Date Started _10 - 23 - 18 Date Completed _10 - 23 - 18 Backfill placed from		
Backfill placed fromft. toft. Material		Date Started 10 -23-18 Date Completed 10 -23-18
Date filter It patients Filter Pack placed from	Destruit should from the to the Metanial	(12) ABANDONMENT LOG:
Filter Pack placed fromt. tot. MaternalSize		Material Description From To Sacks or Pounds
(7) CASING/SCREEN: Diameter From To Gauge Steel Plastic Welded Threaded Casing:	Filter Pack placed fromit, toit, MateriaiSize	
Diameter From To Gauge Steel Plastic Welded Threaded Casing:	(7) CASING/SCREEN:	Baut chils 0 40 15
Casing:	. Diameter From To Gauge Steel Plastic Welded Threaded	
Screen:		
Soreen:		
Slot Size		
Slot Size		
(8) WELL TEST: □ Pump □ Bailer □ Air □ Flowing/Artesian Permeability Yield GPM Conductivity FH	Slot Sizo	Date Started 10 -23-18 Date Completed 10-23-18
Image: Conductivity	(8) WELL TEST:	Professional Certification
PermeabilityYieldGPM registered geologist or professional engineer). ConductivityPH PH	□ Pump □ Bailer □ Air □ Flowing/Artesian	(to be signed by a licensed water supply or monitoring well constructor, or Oregon
Conductivity PH Temperature of water •F/C Depth artesian flow foundft. Water water analysis done? Yes > No By whom?	PermeabilityYield GPM	registered geologist or professional engineer).
Temperature of water	Conductivity PH	I accept responsibility for the construction, alteration, or abandonment work
water water analysis doner i Yes i No By whom? Depth of strate analyzed. From ft. to Signed Joint Affiliation	Temperature of water •F/C Depth artesian flow found ft.	during this time is in compliance with Oregon's geotechnical hole construction
Depth of strate analyzed. Fromft. toft. Remarks:	Water water analysis coner [1] Xes [1] NO By whom?	standards. This report is true to the best of my knowledge and belief.
Remarks:	Depth of strate analyzed. Fromft. toft.	License or Registration Number 1060 9
Affiliation ttp:/1 .200	Remarks:	signed the Date 10-23
· · · · · · · · · · · · · · · · · · ·		Affiliation 1 20 V
		·

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

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(1) OWNER/PROJECT Hole Number CO-18-10	
PROJECT NAME/NBR:	(9) LOCATION OF HOLE (legal description)
First Name LCC Last Name	County (10 Charles 4 NS) Range (FW WM
Company	Tax Map Number 14 01 die <u>NE</u> 1/4 1ax Col <u>CIE D (DANA)</u>
City ALL CARDON State (DD Zip 97/02	Lat " " or DMS or DD
	Long DMS or DD
(Z) TYPE OF WORK [/ New Deepening Abandonment	(Street address of hole (Nearest address
(3) CONSTRUCTION	23351 Barlow Rd, Nurbra, DIL
Rotary Air Hand Auger Hollow stem auger	(10) STATIC WATER LEVEL
Rotary Mud Cable Push Probe	Existing Well / Predeepening
Other	Completed Well
(4) TYPE OF HOLE:	WATER BEARING ZONES Depth water was first found
OUncesed Temporary OCased Permanent	SWL Date From To Est Flow SWL(psi) + SWL(ft)
OUncased Permanent OStope Stability	
Other	
Other:	│
(5) USE OF HOLE	(11) SUBSURFACE LOG Ground Elevation
	Material From To
	Sult 0 8
Doil Damittes	provertie & 114-
	growing Series 0 45
(6) BORE HOLE CONSTRUCTION Special Standard [Attach copy]	<u> </u>
Depth of Completed Hole <u>4</u> ft.	
Dia From To Material From To Amt bs	
	Date Started 10-23-18 Completed 10-23-18
Backfill placed from ft. to ft. Material	(12) ABANDONMENT LOG: sacks/
	Material From To Amt Ibs
(7) CASING/SCREEN	
Casing Screen Dia + From To Gauge Sti Pisto Wid Thrd	41 41
(8) WELL TESTS	Date Strand La 192 (St. Completed LD - 27 - 1
O Pump O Bailer O Air O Flowing Arteslan	Date started D-23-10 Completed D-29-10
Yield gal/minDrawdown Drill stem/Pump depth Duration/hr)	Professional Certification (to be signed by an Oregon licensed water or
	monitoring well constructor, Oregon registered geologist or professional engineer).
	I accept responsibility for the construction, deepening, alteration, or abandonmen
Temperature °F Lab analysis []Yes By	work performed during the construction dates reported above. All work performed
Supervising Geologist/Engineer	- standards. This report is true to the best of my knowledge and belief.
From To Description Amount Units	License/Registration Number 10609 Date 10.23.78
	First Name DAG Last Name
	Affiliation the It Ser

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version: 0.96

•	
(1) OWNER/PROJECT Hole Number <u>CC 18 - 13</u>	
PROJECT NAME/NBR:	(9) LOCATION OF HOLE (legal description)
First Name LCC Last Name	Country Cluckam (Gp 4 NS) Range (EW WM
Company	Tax Map Number 1/4 of the <u>ITE</u> 1/4 flax for <u>Y / E O F / OOY</u>
Address 25351 5. Barlous ILd.	Lat ° ' " or DMS or DD
City HUMANA State OIL City HIDE	Long OMS or DD
(2) TYPE OF WORK New Deepening Abandonment	C Street address of hole C Nearest address
Alteration (repair/recondition)	25351 BarlowRd, Awrorg, OR
(3) CONSTRUCTION	(10) STATIC WATER LEVEL
Botay Mud Cable Push Probe	Date SWL(psi) + SWL(ft)
	Completed Well
	Flowing Artesian?
(4) TYPE OF HOLE:	WATER BEARING ZONES Depth water was first found
OUncased Temporary OCased Permanent	SWL Date Pront To Est Flow SWL(psi) + SWL(ft)
OUncased Permanent OSlope Stability	
Olher	
Other:	
(5) USE OF HOLE	(11) SUBSURFACE LOG Ground Elevation
	Material From To
	SI'H O 3
Soil Semple	Silty gould 3 8
	grevelly sent 10 25
(6) BORE HOLE CONSTRUCTION Special Standard Attach conv)	gravelly silly seed 25 27
Depth of Completed Hole ft.	med-ithe sord 22 42
BORE HOLE SEAL sacks/	CICL 42 45
Dia From To Material Prom To Amt Ibs	
	Date Staried Completed
Filter pack from ft, to ft, Material Size	(12) ABARADORADIS T LOG:
	Material From To Amt Ibs
(7) CASING/SCREEN	Ben
Casing Screen Dia + From To Gauge Stl Plste Wid Thrd	mirs o 45 13
(8) WELL TESTS	
O Pump O Bailer O Air O Flowing Artesian	Date Started 10-25-18 Completed 10-25-18
Yield gal/min Drawdown Drill stem/Pump depth Duration(hr)	Professional Cartification (to be signed by an Orner liseneed water an
	monitoring well constructor. Oregon registered geologist or professional engineer)
Temperature °F Lab analysis Yes By	t accept responsibility for the construction, deepening, alteration, or abandonment work performed during the construction dates reported above. All work performed
Supervising Geologist/Engineer	during this time is in compliance with Oregon geotechnical hole construction
Water quality concorns? Yes (describe below)	- standards. This report is true to the best of my knowledge and belief,
From To Description Amount Units	License/Registration Number 10607 Date 10-25-10
	First Name JAC Last Name JACS
	Affiliation the to Services

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version: 0.96

(1) OWNER/PROJECT Hole Number Ce 18-15	
PROJECT NAME/NBR:	(9) LOCATION OF HOLE (legal description)
First Name Last Name YoDon	County <u>CCACIC</u> Twp <u>4</u> N(S) Range <u>1</u> GWWM
Company	Sec 1 56 1/4 or the 1/4 Tax Lot 4/2010 700
Address 25490 S KINOTON LOAD	Lat DMS or DD
	Long Or DMS or DD
	25490 S RHOTIN KOND, HURREL, OK 47015
Rotary Air Hand Auger Hollow stem auger	(10) STATIC WATER LEVEL
Rotary Mud Cable Push Probe	Existing Well / Predeepening
	Completed Well
(4) TYPE OF HOLE:	WATER BEARING ZONES Depth water was first found
OUncased Temporary OCased Permanent	SWL Date From To Est Flow SWL(psi) + SWL(t)
OUncased Permanent OSlope Stability	
Other	
Other:	
(5) USE OF HOLE	(11) SUBSURFACE LOG Ground Elevation
	Material From To
Soil sample	Met Fly Sand & 10
	gravely bend 10 15
	gravely Litty sand 15 30
Depth of Completed Hole ft.	MEd - Fire schel 35 SE
BORE HOLE SEAL sacks/	Band But growt 15 85
· 74 0 85 Kast	
	Date Started 10-20-18 Completed 10-20-18
Backfill placed from ft. to ft. Material	(12) ABANDONMENT LOG:
Filter pack fromft. toft. MaterialSize	Material From To Amt the
(7) CASING/SCREEN	Serie 25
Casing Screen Dia + From To Gauge Stl Plstc Wild Thrd	
(8) WELL TESTS	Date Stated $\mu = 2\sqrt{-1}$ Completed $\mu = 2\sqrt{-1}$
O Pump O Bailer O Air O Flowing Artesian	
Yiold gal/min Drawdown Drill sten/Pump depth Duration(sr)	Professional Certification (to be signed by an Oregon licensed water or
	monitoring well constructor, Oregon registered geologist or professional engineer).
Temperature °F Lab analysis Yes By	I accept responsibility for the construction, deepening, alteration, or abandonment work performed during the construction dates reported above. All work performed
Supervising Geologist/Engineer	during this time is in compliance with Oregon geotechnical hole construction
Water quality concerns? Yes (describe below)	- standards. This report is true to the best of my knowledge and belief,
From To Description Amount Units	License/Registration Number 10605 Date 10-23-18
	Affiliation Last Name Jones

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version: 0.96

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(1) OWNER/PROJECT Hole Number CE 18 - 16	· · · ·
PROJECT NAME/NBR:	(9) LOCATION OF HOLE (legal description)
First Name Last Name Lober	County CLACK Twp N/S Range BW WM
Сотралу	Tax Man Number
Address 25490 S KNOTTON LOOD	Lat ° " " or DMS or DD
	Long u or DMS or DD
(2) TYPE OF WORK New Deepening Abandonment	C Street address of hole C Nearest address
Alteration (repair/recondition)	29490 S RHOTEN ROOD ANNOUL OK 87015
(3) CONSTRUCTION Rotary Air Hand Auger Hollow stem auger	(10) STATIC WATER LEVEL Date SWL(usi) + SWL(ft)
Rotary Mud Cabic Push Probe	Existing Woll / Predeepening
OtherOod 10	Completed Well
(4) TYPE OF HOLE:	WATER BEARING ZONES Depth water was first found
OUncased Temporary OCased Permanent	SWL Date From To Est Flow SWL(psi) + SWL(ft)
OUncased Permanent OSlope Stability	
Olher	
Other:	
(5) USE OF HOLE	(11) SUBSUBFACE LOG
	Advantation From To
Soil somple	silty sand 3 5
	mett-file same 5 10
	Browelly Schools 10 20
(6) BORE HOLE CONSTRUCTION Special Standard (Attach copy)	Verly grovers 25 35
BORE HOLE SEAL codes	med FM sarel 35 45
Dia From To Material From To Amt Ibs	10y US 50
7" 0 50	
	Data Started A to Date at the Date at the
	Sale States 10-12 - 18 Completed 10-20 - 18
Backfill placed from ft. to ft, Material	(12) ABANDONMENT LOG:
Filter pack from ft. to ft. Material Sizo	sacks/ Material From To Amt Ibs
(7) CASING/SCREEN	
	Chiller O SU 18
Casing Screen Dia + From To Gauge Sti Piste Wid Thrd	
(8) WELL TESTS	
O Pump O Bailer O Air O Flowing Artesian	Date Started 10-25- Completed
Yield gal/min Drawdown Drill stens/Pump depth Duration(hr)	Broforgianal Cartification to be sized by an Orace linear during
	Frotessional Certification (to be signed by an Oregon licensed water or manifering wall constructor. Oregon registered, geologist or professional engineer)
	monitoring wen constructor, crogen registered geologist of professional engineer).
Temperature °F Lab analysis Yes By	1 accept responsibility for the construction, deepening, alteration, or abandonment work performed during the construction dates reported above. All work performed
Supervising Geologist/Brigineer	during this time is in compliance with Oregon geotechnical hole construction
Water quality concerns? Yes (describe below)	standards. This report is true to the best of my knowledge and belief.
From To Description Amount Units	License/Registration Number 10609 Date 10 385 -18
	First NameLast Name
	Affiliation

ORIGINAL · WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version; 0.96

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STATE OF OREGON GEOTECHNICAL HOLE REPORT (as required by OAR 690-240-0035) Instructions for completing this report are on the last page of this form.

(1) OWNER/PROJECT: Hole Number <u>Ce - 18 - 18</u>	(9) LOCATION OF HOLE (legal description)
Advento 25351 5 Barry Dood	Sec \neg SF 1/4 of the NE 1/4 Tax Lot $UI = 0.7 N_{eV}$
$\frac{ABBCCSCCCCCC}{CBBCCCCCCCCCCCCCCCCCCCCCCCC$	Tax Map Number Lot
CRY IS COLOT A STATE DE ZAP 1702	Lat '''or DMS or DD
(2)' TYPE OF WORK	Long • ' "or , DMS or DD
	Street Address of Well (or nearest address) 25351 BUTIOLS Rd
(3) CONSTRUCTION METHOD: \Box Rotary Air \Box Hand Auger \Box Hollow Stem Auger Δ .	Autora, OR
Rotary Mud Cable Tool Push Probe Other Solic	Map with location Identified must be attached
(4) TYPE OF HOLE:	(10) STATIC WATER LEVEL:
🖾 Uncased Permanent 🗆 Slope Stability 👘 Other	the below land surface. Date
(5) FISE OF HOLE: Soundly	Artesian pressure lo, per square inch. Date
(c) opp of month,Osc[Ogentil fr/	(11) SUBSURFACE LOG:
	Ground Elevation
	Material Description From To SWL
(6) BORE HOLE CONSTRUCTION:	<u>3117</u> <u>0</u> <u>5</u>
Special Standard 🗆 Yes (attach copy) Depth of Completed Hole <u>kD</u> ft.	OWNER THE ARE COME 10 100
HOLE SBAL	
Diameter From To Material From To Amount Sacks or lbs	scale gravel 25 40
$-\pi v^{\prime}$	med-Flue spirel 40 50
	silty sand 50 60
	nut Strand AO (17) of S. Date Completed 153 of D .
Backfill placed from ft. to ft. Material	(12) ABANDONMENT LOG:
	Material Description From To Sacks or Pounds
Filter Pack placed fromft. toft. Material Size	But 11-1Px 0 60 19
(7) CASING/SCREEN:	
with the main the training the Minute Minute Attracted at	
Diameter From To Gauge Steel Plashe Wolded Inteaded	
Stot Size	Date Started 10.22.15 Date Completed 10.22.15
(8) WELL TEST:	Professional Certification
Pump 🗍 Bailer 🗌 Air 🗍 Flowing/Artesian	(to be signed by a licensed water supply or monitoring well constructor, or Oregon
Permeability Yield GPM	registored geologist of processional engineer),
Conductivity PH	I accept responsibility for the construction, alteration, or abandonment work
Temperature of water •F/C Depth artesian flow found ft.	performed during the construction dates reported aboye. All work performed during this time is in compliance with Oregon's geotechnical hole construction
Water water analysis done? [] Yes [] No	standards. This report is true to the best of my knowledge and belief.
By whom?	License or Registration Number 1. D.605
Depth of strata analyzed. Fromft, toft,	
Remarks:	Signed Dato DatoDatoDatoDAtO
	Affiliation Ho T Services
	·

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

(as required by OAR 690-240-0035) Instructions for completing this report are on the last page of this form.

while dettons for comprehing and report and on the hage of this lotter.	
(1) OWNER/PROJECT: Hole Number <u>Ce 18.19</u>	(9) LOCATION OF HOLE (legal description)
Address 25351 5 Barbars Pirid	Sec 7 SE 1/4 of the NE 1/4 Tax Lot LILF DY Volv
City Autora State NY Zip 97/472	Tax Map Number Lot
	Lat "or DMS or DD
(2) TXPE OF WORK	Long Official Transformed Contractions of the Contraction of the Contr
	- Street Address of Well (or nearest address) 25351 Bar 11415 RA
(3) CONSTRUCTION METHOD:	Auroro, OR
LI Rotary Mud Cable Tool Push Probe Other JON 12	Map with location identified must be attached
(4) TYPE OF HOLE:	(10) STATIC WATER LEVEL: ft. below land surface. Date
Uncased Permanent D Slope Stability D Other	- Arteslan pressure lh. per square inch. Date
(5) USE OF HOLE: Sol SOMARIE	
	(11) SUBSURFACE LOG:
	Material Description
(6) BORE HOLE CONSTRUCTION:	have Caurel & 10
Special Standard \square Yes (attach copy) Depth of Completed Hole $\square \bigcup_{i=1}^{n} f_i$,	Barry gravel 10 7.5
HOLE SEAL	avenue sand some 25
Diameter From To Material From To Amount Sacks or lbs	41 141 40
	sands some greeks 40 55
	- 31/7 5934 55 BD
	Date Started 1017 2118 Date Completed 10127.18
Backfill placed from ft. to ft. Material	(12) ABANDONMENT LOG:
	Material Description From To Sacks or Pounds
Filter Pack placed fromR, toR, Matchat 5128	- But chills 0 60 20
(7) CASING/SCREEN:	
Diameter From To Gauge Steel Plastic Welded Threaded	
Slot Size	Date Started NO-22.78 Date Completed 10-22.18
(8) WELL TEST:	Professional Cortification
□ Purno □ Bailer □ Air □ Plowing/Artesian	(to be signed by a licensed water supply or monitoring well constructor, or Oregon
Permeshility Viald (3DM	registered geologist or professional engineer).
Conductivity PH	I accept responsibility for the construction, alteration, or abandonment work
Temperature of water *F/C Depth artesian flow found ft.	performed during the construction dates reported above. All work performed
Water water analysis done? Ves No	during this time is in compliance with Oregon's geotechnical hole construction standards. This report is into to the best of my knowledge and holief
By whom?	
Depth of strata analyzed. Fromft. toft.	License or Registration Number 10637
Remarks:	Signed Date 10.22.1.
	. Attiliation 2-15.17 Sankles
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THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

Project #Y184184

Appendix C - Monitoring Well Reports -



STATE OF OREGON MONITORING WELL REPORT uired by ORS 537.765 & OAR 690-240-0395) (2

(1) LAND OWNER	Owner Well I.D. WWW	(61.0	CATION OF	WRLL (les	al descri	ntion)	
First Name	Last Name Lee	County (1 Jockamers	, <u> </u>	N B R	ange	/ ∂₩₩м
Сотралу		Sec	SE 1/	t of the NE	1/4	Tax Lot 4	IE070600
Address 25351 S	Barlow Rol	Tax Map	Number			Lot	100 A 10 - 10 - 10
<u>City Canby</u>	State OK Zip 9701	<u></u>	,,				DMS or DD
(2) TYPE OF WORK	New Deepening Conversion	n Long	R Street addres	ss of well	C Near	est address	
		- 25	201 9	Zanla	P.	1	
Reverse Rotary XOther	Cable Hollow Stem Auger Cable	Mud (7) ST/	TIC WATER	LEVEL	Date S	wL(psi) ·	+ SWL(ft)
(4) CONSTRUCTION	Piozometer Wel		sting Well / Predeo	pening			
Depth of Com	pleted Well 40 ft. Special Standard		npleted Well	Flowing A	rtesian?	L	ole?
MO	NUMENT/VAULT Above Ground	WATER	BLAKING ZUN	∷≫ D¢∣	oth water wa	us first found	l
	FromTo		Date From	To	Est Flow	<u>SWL(psi)</u>	+ swl(n)
BO	REHOLE						
	Diameter 711 From D To 51	>			+		
		کو (8) WE	LL LOG	Ground Ele	vation		
	Gauge S.L. UA wild the	<u> </u>	Mater	ial		From	To
	Material Steel Plastic		5/14	~		0	18
	÷ • 11		a			- Gh	
	VER	<u> </u>	ravoriy s	SANO		8	35
	Dia. From To		A		,	ar	
	Material OSteel OPlastic		DUNGY	gravo		25	40
			and the second				
	AL 0, 17	M	<u> 1910-8</u>	<u>Sana</u>	-	40	48
	$\frac{40}{10}$		11.1.2			2100	
	nount Grout weight		Clary			- 40	50
	REEN						
	asing/Liner Material						
	Slot Size (210)	<u> </u>		1			
		Date Star	led <u>10-2</u>	4-18	Completed	10.0	24-18
Hrom 17 To 40 M	LTER Interial Size of part 12/2	(unbond	led) Monitor We	I Constructor	Certificati	ion stion deeper	sing ulteration or
		abandor	ment of this w	ell is in con	npliance w	ith Oregon	monitoring well
(5) WELL TESTS		construct	tion standards. N of my knowledge	faterials used a and belief.	ind informa	tion reported	above are true to
O Pump O Bailer	🔿 Air 🛛 🏹 Towing Artesi	an Liconse	Number LOL	<u>59</u>	Date	10-2	4-18
Yield gal/min Drawdov	wn Drill stem/Pump depth Duration (hr)	- Passwo	rd : (if filing electr	onically)			
		Signed	Jus	2			·
		(bonded) Monitor Well C	onstructor C	rtification	1	
'Temperature °F Lab	analysis Yes By	Vork pe	responsibility for rformed on this v	the constructively during the	on, deepeni constructio	ng, alteration on dates repo	n, or abandonment orted above. All
Supervising Geologist/Engineer		work pe	rformed during th	is time is in	compliance	with Oregon	n monitoring well
Water quality concerns?	Yes (describe below) TDS amount Description Amount Unit	sLicenso	Number	аа төрөгстік (на	Date	LOI INY KIIOW	ucugo and ooner.

Signed

Password : (if filing electronically)

Contact Info (optional)

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

WELL LABEL # L 170502

START CARD # 104 0144

as	required	Dy ORG	537.105	& UA	R 090-24	10-0373

STATE OF OREGON MONITORING WELL REPORT (as required by ORS 537.765 & OAR 690-240-0395)

(I) LAND OWNER Owner Well I.D. MUZ	(6) LOCATION OF WELL (legal description)	
First Name Last Name	County (Jacka Marin _ 4 NS) Range	/́Фे w w м
Company	Sec SE 1/4 of the NE 1/4 Tax Lot 4	1/E070700
City Andrew State OP Zip	Lat * 1 "of	DMS or DD
	Long ° ° ° or	DMS or DD
Alteration (renair/recondition) Abandonment	Street address of well C Nearest address	
	: DECORE OLT DI	
(3) DRILL METHOD Rotary Air (Rotary Mud Cable Hollow Stem Auger Cable Mud	23490 >, Khoten Kol AL	<u>irora</u>
Reverse Rotary Other 500. C	(7) STATIC WATER LEVEL	+ 594170)
	Existing Well / Predeepening	
	Completed Well	
Depin of Completed Well 20 11. Special Standard	WATER BEARING ZONES Depth under was first found	kole?
MONUMENT/VAULT Above Ground	SWL Date From To Est Flow SWL(psi	+ SWL(0)
From		
BORE HOLE		┤┟╌┨────┥
Diameter <u>1"</u> From 0 To <u>35</u>		
	(8) WELL LOG Ground Elevation	
	Material From	Ťo
Material Steel Plastic	Bilty Sava D	
	sondy gravel 5	10
	Anavella Saul ID	70
Dia From To	- griat orig bark	
Gauge Wld Thrd	gravely seally suff 20	25
Material OSteel OPlastic []	SENdy EVENU/ 25	33
SEAL o' 1'		-
From 30 10 35	3014 33	22
Material BENT CLAPS		
餐菜上設裝 Amount Grout weight		
SCREEN SCREEN		
Casing/Liner Material PVL		
Diameter 2" From 15 To 30		· ·
Slot Size	Date Started 10 -26 - 18 Completed 15 -	26 -18
FILTER	(unbanded) Monitor Well Constructor Certification	·
From 7 To 30 Material Sand Size of pack 120	1 certify that the work 1 performed on the construction, deep	ming, alteration, or
	abandonment of this well is in compliance with Oregon	manitoring well
(5) WELL TESTS	the best of my knowledge and helief.	d above are true to
O Pump O Bailer O Air O Flowing Artesian	License Number 10609 Date 10 -	26-18
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)	Password : (if filing electronically)	
	Signed	
	(bonded) Monitor Well Constructor Certification	
Temperature °F Lab analysis Yes By	accept responsibility for the construction, deepening, alteratic work performed on this well during the construction dates re-	or abandonment ported above. All
Supervising Geologist/Bagineer	work performed during this time is in compliance with Oreg-	on monitoring well
Water quality concerns? Yes (describe below) TDS amount	construction standards. This report is true to the best of my know	wiedge and belief.
	Password : (if filing electronically)	
	Signed	<u> </u>
	Contact Info (optional)	

WELL LABEL # 1 130503

START CARD # 1040143

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

STATE OF OREGON MONITORING WELL REPORT (as required by ORS 537.765 & OAR 690-240-0395)

(25 required by OKS 557.765 & OKK 070-240-0555)	START CARD # 1040147
(I) LAND OWNER Owner Well I.DMW_3	START CARD # 1040147 (6) LOCATION OF WELLL (legal description) County Clackanes Twp L4 N(S) Range / (F)W WM See 7 SE 1/4 of the NE 1/4 Tax Lot 4//E O 70700 Tax Map Number Lot Lot Lot DMS or DD OMS or DD OMS or DD OMS or DD OMS or DD Completed address of well Nearest address Lot DMS or DD OMS or DD DMS or DD OMS or DD OMS or DD OMS or DD Date SWI.(psi) + SWL(R) Existing Well / Predeepening
From ± 3 To -2 BORE HOLE Diameter 1 From 0 To 7D CASING 1 Dia. 2 From ± 43 To -40 Gauge Star HD Wild Thrd Material Steel Plastic ± 2 LINER Dia. From 70 Gauge Wild Thrd Material Steel Plastic ± 31 SEAL From 70 37 Material Grout weight	SWI. Date From To Est Flow SWI (psi) + SWI (1) (8) WELL LOG Ground Elevation Material From 'To Southy gravely LD ZO S'Ity grovels + sands' ZO 3.5 groully sands 35 72
SCREEN Casing/Liner Material Diameter 2" From 40 To 70 Stot Size 200 FILTER Material 17/20 Sand Size of pack	Date Started <u>10-16-18</u> Completed <u>10-77-18</u> (unbonded) Monitor Well Constructor Certification I certify that the work 1 performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
O Pump O Bailer Air Flowing Artesian Yield gal/min Drawdown Drill stern/Pump depth Duration (hr)	License Number Date Date Date Password : (if filing electronically) Signed FAGA (bonded) Monitor Well Constructor Certification 1 accept responsibility for the construction, deepening, alteration, or ubandomment work performed on this welf during the construction dates reported above. All work performed during this timo is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief. License Number Date Password : (if filing electronically) Signed

WELL LABEL # L 130505

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

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Form Version: 0.96

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STATE OF OREGON MONITORING WELL REPORT

(1) LAND OWNER Owner Well LD. MAN	(6) LOCATION OF WELL (legal descrip	otion)
First Name Lee-	County (lackamas Twp + NS) R	ange / DWWM
Company	Sec 7 SE 1/4 of the NE 1/4	Tax Lot LIEO 70600
Address 25351 S. Barlows Ra	Tax Map Number	Lot
City Comby State OR Zip 97013	Lat ° ' or	DMS or DD
(2) TYPE OF WORK ZINew Deepening Conversion	Long or	DMS or DD
Alteration (repair/recondition)	Street address of well O Neore	staddress
(3) DRILL METHOD	25351 S. Barlow Rd	
Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud		
Reverse Rotary ROther Sort	(/) STATIC WATER LEVEL	W(ant) + SW(a)
	Existing Well / Predeepening	
(4) CONSTRUCTION Prezometer well	Completed Well	
Depth of Completed Well 16. Special Standard	Flowing Artesian?	Dry Hole?
MONUMENT/VAULT Above Ground	CWI Date Press To Vet View	
From <u>+3</u> To <u>-2</u>	SAL Date From 10 Est Flow	
BORE HOLE		
Diameter From U To 37		
	(8) WELL LOG Ground Elevation	
	Material	From To
Gauge Sak 40 Wid Thrd	6:17	0 5
Material OSteel Plastic 📋 🖉		
	SONRY OFGROUS	0 26
	growely sands	25 50
EN DiaFrom □To		
Gauge Wid Thrd	Builty BANDS	50 55
Material OSteel OPlastic 🔲 🗋	to de den tent of Flater	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	Down pres invo	<u> </u>
WAL SEAL of , 23	grey day	15 85
Material <u>Unit Childs</u>		
Amount Grout weight		
Casmy Liner Material		
Diametor 7" From 21 10 40		
Slot Size	Date Started 10-18-18 Completed	10-18-18
FILTER	(unbonded) Monitor Well Constructor Certification	0 M
From <u>23</u> To <u>46</u> Material <u>SOWN</u> Size of pack 770	I certify that the work I performed on the construct	tion, deepening, alteration, or
	abandonment of this well is in compliance we construction standards. Materials used and informal	the Oregon monitoring well-
(5) WELL TESTS	the best of my knowledge and belief.	the transfer to be the true to
O Pump O Bailer O Air O Flowing Artesian	License Number 10609 Date	10-18-18
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)	Password : (if filing electronically)	10 - 10 - 10
	Signed	
	(howdad) Manifan Wall Construction Construction	
	Laccont responsibility for the construction despendent	or alteration or abundanment
Temperature °F Lab analysis [_] Yes By	work performed on this well during the construction	in dates reported above. All
Supervising Geologist/Engineer	work performed during this time is in compliance	with Oregon monitoring well
Water quality concerns? Yes (describe below) TDS amount	construction standards. This report is true to the best	of my knowledge and belief,
From To Description Amount Units	License Number Date	
	Password : (if filing electronically)	
	Contact Info (optional)	

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK.

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 130 504

START CARD# 104 0146

STATE OF OREGON MONITORING WELL REPORT (as required by ORS 537.765 & OAR 690-240-0395)

(as required by ORS 537.765 & OAR 690-240-0395)	START CARD # 1040145
(1) LAND OWNER Owner Well I.D. M.W. 5 First Name Last Name Jeee. Voder Coropany Address J.5490 S. Khoton Rate City At 1 coro State OR Zip (2) TYPE OF WORK New Decenning Conversion Alteration (repair/recondition) Abandonment Abandonment (3) DRILL METHOD Rotary Air Rotary Mud Cable Bollow Stem Auger Cable Mud Reverse Rotary Other Sourie Cable Piezometer Well Depth of Completed Well Go ft. Special Standard MONUMENT/VAULT Above Ground MONUMENT/VAULT Above Ground Depth of Completed Well Special Standard	START CARD # 1040145 (6) LOCATION OF WELL (legal description) County Clacka Marky '4 NS Range 1 DW WM Second County Clacka Marky '4 NS Range 1 DW WM Second County Clacka Marky '4 NS Range 1 DW WM Second County Clacka Marky '4 NS Range 1 DW WM Second County Clacka Marky '4 NS Range 1 DW WM Second County Clacka Marky '4 NS Range 1 DW WM Second County Clacka Marky '4 NS Range 1 DW WM Second County Clacka Marky '4 NS Range 1 DW WM It /4 of the NE 1/4 Tax Lot 4/ E0 Totood Lot Lot Lot Lot DMS or DD Street address of well (Nearest address Completed address of well (Nearest address Date SWL(psi) + SWL(ft) Existing Well / Predeepening Completed Well Value SWL(psi) + SWL(ft) Warter Rest Figure Stress for the system of the s
From To BORE HOLE Diameter 7 45 Diameter 7 70 45 CASING Dia. 20 70 45 Gauge 20 70 10 20 Gauge 20 90 10 20 Gauge 20 90 10 20 Gauge 20 90 10 20 JINER Dia. From 70 70 Dia. From 70 70 70 SEAL 17 77 70 45 Material 512 70 45 Material 512 70 45 Material 512 70 45 Material 512 70 45 SCREEN Casing/Liner Material 412 Diameter 21^{+1} 70 20 70 Slot Size 016 50 50 50 50 70 <	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
FILTER From 17 To 30 Material 10 Air Size of pack 12/20 (5) WELL TESTS Pump Bailer Air Flowing Artesian Yield gal/min Drawdown Drill stem/Pump depth Duration (hr) From To Prove Provide Provi	(unbonded) Monitor Well Constructor Certification I certify that the work 1 performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief. License Number 10609 Date 10.724.18 Password : (if filing electronically) Signed

WELL LABEL # L 130501

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

Project #Y184184

Appendix D - Boring Logs -



SAND & GRAVEL EXPLORATION LOG

PROPERTY NA	ME:	Lee Property
PLANT:		Canby
COUNTY/PARK	SH:	Clackamas
STATE:		Oregon
LOCATION:	Lee	Property
LOGGED BY:	K.S	E.

BORING ID:	CE-18-01
COORD. SYS:	State Plane NAD 83
RIG: Terra S	onic 150 TSI
NORTHING:	581,335.0
EASTING:	7,629,451.0
ELEVATION:	104.2
TOTAL DEPTH	80

DRILLER: Holt Services, Jeff Jones DRILL METHOD: SONIC DATE STARTED: 10-16-18 DATE COMPLETED: 10-16-18 TYPE SAMPLE: 4.0" CORE CASED TO: 80 EST. WL (ft.): 11

Lehigh Hanson HEIDELBERGCEMENTGroup

Lithology Soil Class.	MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #	Depth (ft.)
--------------------------	----------------------	----------	----------	----------	-----------	-------------

	OL	Dense, dark brown topsoil with organics.				
<u>/-/-</u> /-/	ML,CL	Grading to a medium brown, silty-clay with some organics, slightly moist at 6'.	0	0	N/A	0901
	SM,G W SP	Dark brown, loose, dry, silty-sand with minor gravel to 11'. To saturated, grayish-dark brown, loose gravel with some coarse sand. Gravel is round to sub-round.	50		3	
	GW,SP	Well sorted, fine grained sand.			1	0902
	GC,G M	Saturated, gray to dark brown, loose gravel with some coarse sand. Some interbeds of fine, well sorted sand.				
0		Becoming drier at 15'. Dark brown to gray, semi-consolidated, clayey-silt with some sand and gravel.				
0	GM	To moist, gray-brown, semi-consolidated silty sand with gravel and some clay.	55	_15 _	2	0303
<i>,,,,,</i> ,	GC	Slight increase in clay and consolidation. Material is a dry, poorly sorted gravel with clay, silt and fine grained sand.				_
	SM,G W	To gray, poorly sorted, loose, silty sand with gravel. Material slightly moist. Gravels are round to sub-round. Slight increase in clay towards 40'.	60	_20 _	3	0904
000	GW	Decrease in clay-like fines. Moist, brown-black, poorly sorted sand with gravel and cobble.				
	GW	Becoming medium-brown, loose, saturated (47'), poorly sorted, coarse grained sand and gravel with cobble. Sand becoming finer towards bottom of run.	65	-30	4	0905
	GW,SC	Dark brown, poorly sorted sand and gravel with cobble and some clay. Material is moist, becoming wet at 55'. Slight degree of consolidation.				
		To reddish-brown, saturated, poorly sorted gravel with minor sand & cobble. Very coarse, loose and unconsolidated. Increased cobble percentage towards 65'. Gravel and cobble rounded to subrounded. Abundant 1" to #4 sized material.	65	-10 -	5	0906
5-		70		6	0907	
-------	--	---------------------	---------------	------------	------	
SP	Well sorted, moist, dark-gray, medium grained sand. Moist.	70 (60'- 67')	(60'- 67')	6 <u> </u>	•	
CL,ML	Dense, dry, grayish- brown clay-silt. Becoming greenish-gray towards bottom of run. EOH at 80'	-0 -0	N/A	0909		

PROPERTY NAME:	Lee Property	BORING ID: CE-18-02 MW #3	DRILLER: Holt Services, Jeff Jones
PLANT:	Canby	COORD. SYS: State Plane NAD 83	DRILL METHOD: SONIC
COUNTY/PARISH:	Clackamas	RIG: Terra Sonic 150 TSI	DATE STARTED: 10-16-18
STATE:	Oregon	NORTHING: 580,859.0	DATE COMPLETED: 10-16-18
LOCATION: Lee	e Property	EASTING: 7,629,447.0	TYPE SAMPLE: 4.0" CORE
LOGGED BY: K.S	5.	ELEVATION: 106.7	CASED TO: 70
		TOTAL DEPTH: 75	EST. WL (ft.):

Depth (ft.) Lithology	Soil Class.	MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #	Depth (ft.)
--------------------------	-------------	----------------------	----------	----------	----------	-----------	-------------

	OL	Loose, dark brown topsoil with organics down to 2'.				
<u>1-1-</u> 1 1-1-1 1-1-1	ML	Grading to semi-consolidated, dark brown soil with organics. Material becoming moist at 7' and changing to dark brown, silty clay becoming sandy to 12'.	0	0	N/A	0911
(-/-)	SP	Dark brown-black, loose, clean, wet, well sorted, fine grained sand			7	
(GW	Clean, loose, brownish black sand and gravel.				0912
G	GC,G M	Material becoming consolidated at 15'. Dark brown, clayey-silt with some gravel. Moist, somewhat dense, sticky and turning gray towards bottom of run.	- 45	-5	8	0012
G	M,G C	Similar to above. Greenish-gray, dense, consolidated clays and silts with gravel. Material will present challenges to operations, high waste factor due to clay/silt matrix.	40		9	0913
<u>/-</u> ` м	L,CL	Dense, becoming increasingly moist. "Till-like" material consisting of gray, silty-clay.			10	
G	GM,G C	To semi-consolidated, brown-gray, silty-clay with gravel. Moist and becoming drier at 35'.				
G	GM,G C	To consolidated, dense gravels caught in silt-clay matrix. Material is moist with some clay nodules present. Difficult material to process.	40	_15 _	11	0916
	GW	Decrease in clay-like fines. Moist, brown-black, poorly sorted sand with gravel and cobble.				2007-00
G	GM,G C	Similar to above. Material is stiff/sticky. Gravel and cobble reside within silty-clay matrix. Particles continue to be round to sub-round. Color changing to reddish-brown/rusty-brown at 48', decrease in silt.	40	_20 _	12	0917
	GW	Medium brown, poorly sorted, loose, coarse and and gravel. Moist to saturated at 57'. Abundant 1" to #4 gravel. Material staying similar to 65' with increase in medium-grained sand. Material staying loose, clean with rounded to subrounded gravels.	65	10	13	N/A

GM,G C	Increase in medium-brown silt/clay. Semi-consolidated cobbles and gravel in silty matrix, becoming loose and wet towards bottom of run.	-55	_20 _	14	0918
GW	To dark brown, loose, poorly sorted sand and gravel. Wet with abundant 3/4" to #4 gravel.			15	0010
CL	Stiff, consolidated, brown to blue-gray clay, some silt. Dense. EOH			N/A	0918

PROPERTY NA	Lee Property	
PLANT:	Canby	
COUNTY/PARIS	Clackamas	
STATE:		Oregon
LOCATION:	Lee	Property
LOGGED BY:	K.S	3.

BORING ID:	CE-18-03
COORD. SYS:	State Plane NAD 83
RIG: Terra S	onic 150 TSI
NORTHING:	581,097.0
EASTING:	7,628,950.0
ELEVATION:	102.6
TOTAL DEPTH	75

DRILLER: Holt Services, Jeff Jones DRILL METHOD: SONIC DATE STARTED: 10-17-18 DATE COMPLETED: 10-17-18 TYPE SAMPLE: 4.0" CORE CASED TO: 70 EST. WL (ft.):

Jepth (ft.)	Lithology	oil Class.	MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #	Depth (ft.)
	_	Ś		1.180	Thom.			

	OL	1' dark-brown topsoil.				
	ML,CL	Transitioning to a medium-brown silty-clay towrds bottom of run. Organics throughout. Becoming moist at 7.5', 1' layer of well sorted medium-grained sand becoming finer, turning to a wet silt with some clay 10'. Wet at 10'.		0	N/A	0920
	SP,GW	Dark brown/black, well sorted sand transitioning to poorly sorted gravels, round to sub-round with minor silt and clay.				
	GIVI,G	Gray, dense (hard) silty clay with gravel. Dry.			16	0921
	GM,G C	Moist, blue-gray, sand and gravel residing in silty-clay matrix. Somewhat consolidated. Material chaning to brown towards end of run.		-20 -	1177	
11-11 11-11	GM,G C	Similar to above. Becoming slightly less consolidated and cleaner towards bottom of run. Material is moist/wet.			in Maria	* 3.5 + 2017 10.6 + 10
	GW	Similar to above with increased coarse sand. Material somewhat loose. Medium-brown, poorly sorted, sand and gravel with cobble and some clay.	60	-20 -	17	0922
	GW	Medium-brown, damp, poorly sorted sand and gravel with cobble. Round to subround, material cleaner than previous 5'.				
	GW	Saturated, poorly sorted, loose gravels with coarse sand. Abundant gravel (R to S.R.), some Fe staining at 48'.	60	-15 -	18	0923
	GW	Similar to above. At 41' a 1' lense of clean, well sorted, fine-grained sand. Abundant 1" to #4 gravel.			1937	
	GW	Similar to above with increase in fine grained sand and cobble. Poorly sorted gravels with cobble and sand. Saturated at 49'.	60	-25 -	19	0924
	GW	Same as above. Increase in cobble.			20	0926
•••••	SP	To a brown, well sorted, clean, loose, wet, medium grained sand. Minor coarse sand in distinct layers.	- 60	30	21	0.020

0	SP.GW	poorly sorted sand towards 65'. Becoming very loose, clean, poorly sorted sand with minor gravel.			22	0927
0			5 	- 0 		5.000
•••	• SP	To well sorted, moist, tan-brown, medium grained sand.			23	Comprosect.
	CL,ML	Dense, blue-gray, silty clay. Dry. EOH at 75'.			N/A	0928

PROPERTY NA	Lee Property	
PLANT:	Canby	
COUNTY/PARIS	<u>SH:</u>	Clackamas
STATE:		Oregon
LOCATION:	Lee	Property
LOGGED BY:	K.S.	

BORING ID:	CE-18-04
COORD. SYS:	State Plane NAD 83
RIG: Terra So	onic 150 TSI
NORTHING:	581,600.0
EASTING:	7,628,931.0
ELEVATION:	102.2
TOTAL DEPTH	85

DRILLER: Holt Services, Jeff Jones
DRILL METHOD: SONIC
DATE STARTED: 10-17-18
DATE COMPLETED: 10-17-18
TYPE SAMPLE: 4.0" CORE
CASED TO: 80
<u>EST. WL (ft.):</u>

Lepth (ft.) Lithology Soil Class.	MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #	Denth (#)
---	----------------------	----------	----------	----------	-----------	------------

OL	2' dark-brown topsoil transitioning to a tan-brown silty-clay with some red/rust towards bottom.				
<u>,-/-</u>) ,- <u>/-</u>) ML,0 ,-/-)	Grading to a dark brown, moist, silty-clay.	0	- 0	N/A	094
SF	Dark brown/black, well sorted, moist sand to 12.5'.				
GV	Black, poorly sorted gravels with coarse to medium grained sand. Loos Abundant 1" to #4.	e.		36	094
	Dark brown silty clay moist	- 55	_20 _		0.54
GV GV				37	
ML.C					
GC, M	To poorly sorted, brown-gray gravel and cobble in silt-clay matrix. Dry a somewhat consolidated.	nd			
GC, M, GV	To tan-brown, moist, poorly sorted gravels with silts and clays. Semi-consolidated, zones of Fe staining. To wet, loose, black, medium grained sand with gravel, increase in Fe staining towards bottom of rur	. 60- 	_20 _	38	094
GV	Tan-brown gravel with coarse sand grading to dark-brown gravels with cobble and some sand. Loose and saturated.				
GV	Similar to above with increase in coarse grained sand, minor cobble.	60	_15 _	39	095
	Medium brown, well sorted, clean, medium grained sand. Becoming coal sands with gravel towards bottom of run.	se			
SP,G	w		 	40	095
教	To tan-brown-orange, loose, saturated, poorly sorted gravel with coars sand. Abundant 3/4" to #4. Increased cobble towards bottom of run.	e = = = = = = = = = = = = = = = = = = =	-23	1000	300000000
GV				41	095
SP	Tan, moist, well sorted, clean, fined grained sand. Somewhat dense.	60		42	

65	SW	Grading to tan, medium to coarse grained sand with some #4 to #8 material. Wet to moist.	5	 43	0953
				44	
80	CL	Dense, hard, blue-gray, silty clay. Dry. EOH		N/A	0954

PROPERTY NA	Lee Property				
PLANT:		Canby			
COUNTY/PARI	SH:	Clackamas			
STATE:		Oregon			
LOCATION:	Lee	Property			
LOGGED BY:	K.S).			

BORING ID:		CE-18-05
COOR	D. SYS:	State Plane NAD 83
RIG:	Terra S	onic 150 TSI
NORT	HING:	581,358.0
EASTI	NG:	7,628,505.0
ELEVA	ATION:	101.3
TOTAL	DEPTH	55

DRILLER: Holt Services, Jeff Jones DRILL METHOD: SONIC DATE STARTED: 10-18-18 DATE COMPLETED: 10-18-18 TYPE SAMPLE: 4.0" CORE CASED TO: 50 EST. WL (ft.):

Lithology Soil Class.	MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #	Depth (ft.)
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(OL,CL ML	Overburden. 2.5' dark-brown topsoil, hard, compacted. To rusty-brown subsoil-dense, silty clay with some organics.				
<u> </u>	ML	Dry, brown, silt with some clay, somewhat consolidated.	0	- 0	N/A	0940
	SP	Moist, loose, clean, dark brown to black, well sorted fine grained sand.				
	GW	To gray-black, poorly sorted gravels with some cobbles and sand. Material becoming increasingly consolidated and dense from 15'-20' (increased silt and clay)	55	_20	32	N/A
	GM,G C GW	Light brown-tan, poorly sorted gravels with coarse grained sand and some silt-clay. Material is wet and semi-consolidated. Gravels-cobbles are round to sub-round. Grading to a medium brown, loose, poorly sorted sand and gravel. Decrease in cobble percentage to 30'.	60		33	0941
	GM,G C	Similar to above with increase in clay content and consolidation. Material moist to dry to 35'. Grading to clean, loose, light brown, poorly sorted sand and gravel with minor clay. Material is saturated. Increase in med. to coarse grained sand.	60		34	0942
<u> </u>	GW	Abundant gravel to 42'				
••••	SP	I o well sorted, medium grained, moist sand.	60		35	0943
<- <u>/</u> -)		Gray silt, compact, slightly moist. Grading to gray, silty clay to dry, dense, gray clay. EOH			NI/A	
<u>, -, -, -, -, -, -, -, -, -, -, -, -, -,</u>	VIL,UL				N/A	0944

PROPERTY NA	ME: Lee Property
PLANT:	Canby
COUNTY/PARIS	H: Clackamas
STATE:	Oregon
LOCATION:	Lee Property
LOGGED BY:	K.S.

BORING ID:	CE-18-06 M.W. #4
COORD. SYS:	State Plane NAD 83
RIG: Terra So	onic 150 TSI
NORTHING:	580,845.0
EASTING:	7,628,470.0
ELEVATION:	102.3
TOTAL DEPTH	85

DRILLER: Holt S	ervices, Jeff Jones
DRILL METHOD:	SONIC
DATE STARTED:	10-18-18
DATE COMPLETED	<u>):</u> 10-18-18
TYPE SAMPLE:	4.0" CORE
CASED TO: 80	
EST. WL (ft.):	

MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #	Depth (ft.)
	MATERIAL DESCRIPTION	MATERIAL DESCRIPTION	MATERIAL DESCRIPTION	MATERIAL DESCRIPTION Gravel % Sample #	MATERIAL DESCLIDION

******	OL	1' dark-brown to black topsoil.				
-/-/-)	ML,CL	Rusty-brown subsoil-dense, silty clay with some organics, to moist, tan, silty-clay.			NI/A	
	SM	Grading to a silty-sand. Tan-brown, loose.	0	- 0	N/A	0929
	GW	To clean, loose, wet, dark brown to black, poorly sorted sand and gravel. Gravels are round to subround, sand is coarse grained. Bottom of run (18'-20') has increase in silt and clay, sand becoming finer with increase in cobble.	50		24	0930
	GW	Dark brown-black, fine grained with gravel and minor cobble			25	
	GM,G C	Medium brown, silty clay with gravel and cobble, gravel resides in silty-clay matrix. Moist and semi-consolidated. Grading to dry, brown, dense, silty-clay with gravel. HIgh waste factor	50	-20 -	26	0931
	GW	Grading to light brown, poorly sorted, coarse sand, gravel and cobble. Some silt and clay with zone of Fe staining at 32'. Material becoming loose, unconsolidated with abundant gravel from 36' to 46'. Mostly saturated.	60	20	27	0932
金			60	-30 -	28	0934
7-7-7		Blue-gray, moist, silt with some clay. Semi-consolidated, high silt content.			N/A	
- -' - -'	ML,CL		0	- 0	29	
•		Medium brown, loose, clean, medium grained sand with minor gravel and coarse grained sand. Moist				0937

SW		30	1
			005
10.1		5 0	093
	Similar to above with decrease in gravel		
· • ·			
Svv		31	
		2 0	
	Compact, dense, gray silt with some clay. Moist EOH		
-/-/-			09
		– –0– – – – – N/A	Children -
1-1-1			

PROPERTY NA	ME:	Yoder Property
PLANT:		Canby
COUNTY/PARI	SH:	Clackamas
STATE:		Oregon
LOCATION:	You	der Property
LOGGED BY:	K.S	3.

BORING ID:	CE-18-07
COORD. SYS:	State Plane NAD 83
RIG: Terra So	onic 150 TSI
NORTHING:	581,079.0
EASTING:	7,627,779.0
ELEVATION:	100.6
TOTAL DEPTH:	50

DRILLER: Holt Services, Jeff Jones DRILL METHOD: SONIC DATE STARTED: 10-22-18 DATE COMPLETED: 10-23-18 TYPE SAMPLE: 4.0" CORE CASED TO: 40 EST. WL (ft.):

Depth (ft.)	Lithology	Soil Class.	MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #	Depth (ft.)
D	Г	Ň		0				

	OL	Topsoil, dark brown, dry.				
-7-7-1	ML,CL	Tan, moist, silty-clay to gray silty-clay.	0		N/A	0967
	GW	Brown, loose, wet, gravel with sand and some cobble.	60	-30 -	55	
61, 61,	GC,G M	To dry, dense, greenish-gray gravel in silty-clay matrix. Hard, compact.	40-		56	0968
	GC,G M,GW	To semi-consolidated, moist, brown gravel with silts, clays and sand.				
	GW	Becoming a saturated (25') loose, poorly sorted gravel with abundant 1" to #4.		-25 -	57	0969
	GW	To loose, tan-brown, sand with some gravel. Sand is medium grained with some coarse grained sand. Clean.			1	
0000	GW	To loose, medium brown, gravel with sand. Abundant 1" to #4 material.	20	-5	58	0970
-X-X-1 -X-X-1	SM, CL	Semi-consolidated, dry, dense silt with minor clay. Changing at 45' to a greenish-gray silt then to gray-green, compacted silts and clays. EOH			59	0971

PROPERTY NAME:		Goby Property
PLANT:		Canby
COUNTY/PARIS	SH:	Clackamas
STATE:		Oregon
LOCATION:	Gol	by Property
LOGGED BY:	K.S	

BORING ID:	CE-18-08
COORD. SYS:	State Plane NAD 83
RIG: Terra S	onic 150 TSI
NORTHING:	580,815.0
EASTING:	7,627,398.0
ELEVATION:	99.9
TOTAL DEPTH	40

DRILLER: Holt Services, Jeff Jones DRILL METHOD: SONIC DATE STARTED: 10-23-18 DATE COMPLETED: 10-23-18 TYPE SAMPLE: 4.0" CORE CASED TO: 40 EST. WL (ft.):

Lithology	Soil Class.	MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #
	OL	Dark-brown to black topsoil.			2	
- - - -	ML,CL	Medium brown, moist, silty-clay. Dense		 	N/A	0972
	GW	Dark gray, loose, wet gravel with sand and some cobble.				
	GM,G C	Becoming slightly consolidated with increase in silt and clay, gray. Becoming tan-brown from 12.5' to 15'.	60 -	20	60	
<u>\$</u>	GW	Loose, wet gravels.				0973
	CL	Gray-green clay.			61	
	GC	Light brown, semi-consolidated gravel with silt and clay.				
	GW	Loose, sand with gravel. Becoming saturated at 27'. Sand is coarse grained, increase in cobble towards 30'.	50	_20	62	0974
		Well sorted, medium grained sand. Tan-brown.			<u>.</u>	-
(()	ML.CL	Stiff, dense, blue-gray silty clay. Moist. EOH	0	- 0	N/A	0975

PROPERTY NAME:		Goby Property
PLANT:		Canby
COUNTY/PARIS	SH:	Clackamas
STATE:		Oregon
LOCATION:	Gol	by Property
LOGGED BY:	K.S	

BORING ID:	CE-18-09
COORD. SYS:	State Plane NAD 83
RIG: Terra S	onic 150 TSI
NORTHING:	581,017.0
EASTING:	7,626,949.0
ELEVATION:	98.0
TOTAL DEPTH	40

DRILLER: Holt Services, Jeff Jones DRILL METHOD: SONIC DATE STARTED: 10-23-18 DATE COMPLETED: 10-23-18 TYPE SAMPLE: 4.0" CORE CASED TO: 40 EST. WL (ft.):

Picture #	Picture #

-	OL	Topsoil, dark brown to black.			8	_ 0	
-1-1-1	ML,CL	Medium brown, moist, silty-clay. Saturated gray silt at 5' with transition to brown silty-clay at 6'.		 - 0 - 	N/A	0977	
	GW	Brown, loose, wet, gravel with sand and some cobble			2	1	
L L L L L L L L L L L L L L L L L L L	GC,G M	Becoming dry, dense gravel with silt and clay at 9' to semi-consolidated, brown, poorly sorted gravel with fine grained sand and silt/clay. Material is damp. Increase in consolidation at 14' becoming a dense gravel in silty clay matrix.	-50	 15	63	0978	
	SP	To well sorted, moist, fine grained sand. Material is loose and clean					
REA BEED	GW	To saturated, medium brown gravels with coarse sand and some cobble . Abundant 1" to #4.	60	 	64	0980	
	SP	To well sorted, medium grained, brown sand. Material grading finer with depth. Changes to dense, tan silt at 35'.			65		
- <u> -</u> - - <u> -</u> - -	CL,ML	Blue-gray silt grading to blue gray silty-clay back to blue gray silt. EOH			66	0981	

PROPERTY NA	Goby Property			
PLANT:		Canby		
COUNTY/PARISH:		Clackamas		
STATE:		Oregon		
LOCATION: Go		by Property		
LOGGED BY:	K.S	t.		

BORING ID: COORD. SYS:		CE-18-10
		State Plane NAD 83
RIG:	Terra S	onic 150 TSI
NORTH	ING:	580,834.75
EASTIN	IG:	7,626,540.2
ELEVATION:		99.6
TOTAL DEPTH:		47

DRILLER: Holt Services, Jeff Jones DRILL METHOD: SONIC DATE STARTED: 10-23-18 DATE COMPLETED: 10-23-18 TYPE SAMPLE: 4.0" CORE CASED TO: 40 EST. WL (ft.):

Depth (ft.) Lithology Soil Class.	MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #	Depth (ft.)
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0		OL	Dark brown to black topsoil. Dry.				- 0
5		ML,SC	Tan, moist, silty-clay to tan-gray, moist, silt with some clay. To rusty-brown, well sorted, medium grained sand.	-0		N/A	0982 5
10-		GW	Brown, loose, wet gravel with sand and some cobble.				- 10
	목나목나	GC	To consolidated gravels in silty-clay matrix, dense with high waste factor.			67	E
15-		GC,G M	To semi-consolidated, poorly sorted gravels with some silt and clay to (15') poorly sorted, loose, saturated, medium brown sand and gravel. Sand is coarse grained.	-50	_20 _	68	0984 - 15
20	-/-/-)	ML	Tan, dense silt with some clay. Damp.	0	 - 0	69	20
25-			To poorly sorted gravels and cobbles with coarse sand 1 oose and	65	-30 -	70	0985 - 25
30		GW	unconsolidated with abundant 1" to #4. Nice material.			71	0986 35
40				60	_20 _	72	0987
45 -		CL	Blue-gray clay. EOH			N/A	

PROPERTY NA	Lapp Property	
PLANT:		Canby
COUNTY/PARISH:		Clackamas
STATE:		Oregon
LOCATION: Lap		op Property
LOGGED BY: K.S		3.

BORING ID:	CE-18-11 M.W. #5
COORD. SYS:	State Plane NAD 83
RIG: Terra S	onic 150 TSI
NORTHING:	581,371.0
EASTING:	7,626,622.0
ELEVATION:	97.1
TOTAL DEPTH	45

DRILLER: Holt Services, Jeff Jones DRILL METHOD: SONIC DATE STARTED: 10-24-18 DATE COMPLETED: 10-24-18 TYPE SAMPLE: 4.0" CORE CASED TO: 40 EST. WL (ft.):

Lithology	Soil Class.	MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #
	OL	Dry, dark brown to black topsoil.			2	
X-X-)	ML,CL	To moist, blue-gray silty-clay to gray silt with clay to tan silt.	0	- 0	N/A	0990
	GW GC,G M	Brown, loose, wet, gravel with sand and some cobble. To consolidated gravels in silty-clay matrix, dense with high waste factor.				
11111	GM	To semi-consolidated, poorly sorted gravels with some silt and clay.	55	_20	74	0991
	GW	To saturated, medium brown, poorly sorted coarse sand and gravels, some cobble. Loose, unconsolidated.	55		75	
	SM	To moist, rusty-brown, well sorted, medium grained sand with increasing silt content towards bottom of run				0992
	SM	Similar to above. At 34' dry, dense, interbed of tan silt.				
	SP ML	Well sorted, tan-brown, fine grained sand, saturated.	-0	- 0 		
	SP CL MI	Well sorted, tan-brown, fine grained sand, saturated. Various interbeds of clay, silt and some fine sand. Blue-gray silts and clays.			77	N/A

PROPERTY NAME:	Van Pelt Property	BORING ID:	CE 18-12 (NOT DRILLED)	DRILLER: Holt Services, Jeff Jones
PLANT:	Canby	COORD. SYS:	State Plane NAD 83	DRILL METHOD: SONIC
COUNTY/PARISH:	Clackamas	RIG: Terra S	onic 150 TSI	DATE STARTED: N/A
STATE:	Oregon	NORTHING:	581,366.0	DATE COMPLETED: N/A
LOCATION: N/A		EASTING:	7,627,472.0	TYPE SAMPLE: 4.0" CORE
LOGGED BY: K.S.		ELEVATION:	0.0	CASED TO: 0
		TOTAL DEPTH	0	<u>EST. WL (ft.):</u>

Lithology Soil Class.	MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #
	Location not drilled.	0 50	0		

PROPERTY NA	ME: Van Pelt Property
PLANT:	Canby
COUNTY/PARK	<u>SH:</u> Clackamas
STATE:	Oregon
LOCATION:	Van Pelt Property
LOGGED BY:	K.S.

BORING ID:	CE-18-13
COORD. SYS:	State Plane NAD 83
RIG: Terra	Sonic 150 TSI
NORTHING:	581,601.36
EASTING:	7,627,394.6
ELEVATION:	99.7
TOTAL DEPTH	ł: 45

DRILLER: Holt Services, Jeff Jones DRILL METHOD: SONIC DATE STARTED: 10-25-18 DATE COMPLETED: 10-25-18 TYPE SAMPLE: 4.0" CORE CASED TO: 40 EST. WL (ft.):

Depth (ft.)	Lithology	Soil Class.	MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #	Depth (ft.)
0		OL	Dry, dark brown to black topsoil.				•	∎ E°
5	7-7-		To medium brown subsoil consisting of clay and silt. To clean, fine to medium grained sand to 9.5.			N/A	1011	5

- <u>/-/-</u>)	ML,CL	meulum grained sand to 5.5.	0 	- 0 		
	GW CL GM	Dark gray-black, loose, poorly sorted gravel with some cobble to gravelly sand. Abundant 1" to 3/8". Saturated.			<u></u>	
		Blue-gray, dense interbed of silty-clay. Damp to dry.			88	
i.i.		To slightly consolidated gravel and cobble with some silt and clay.				
1.4.			65	_20 _		
					89	1012
						1012
	SP,ML	To fine grained, tan sand changing to loose, blue grav site to light				
		brown/rusty colored fine grained sand.			NI/A	
					IN//A	1013
-/-/-/	MLCL	Blue-gray silt with increasing clay content at depth. EOH				

PROPERTY NA	ME:	Lapp Property
PLANT:		Canby
COUNTY/PARIS	SH:	Clackamas
STATE:		Oregon
LOCATION:	Lap	op Property
LOGGED BY:	K.S	3.

BORING ID:	CE-18-14 M.W. #1
COORD. SYS:	State Plane NAD 83
RIG: Terra S	Sonic 150 TSI
NORTHING:	581,929.0
EASTING:	7,626,895.0
ELEVATION:	99.0
TOTAL DEPTH	: 50

DRILLER: Holt Services, Jeff Jones DRILL METHOD: SONIC DATE STARTED: 10-24-18 DATE COMPLETED: 10-24-18 TYPE SAMPLE: 4.0" CORE CASED TO: 50 EST. WL (ft.):

MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #	Depth (ft.)
	MATERIAL DESCRIPTION	MATERIAL DESCRIPTION	MATERIAL DESCRIPTION	MATERIAL DESCRIPTION Sample #	MATERIAT DESCLIDATION Gravel % Sample # Picture # Picture #

-	OL	Overburden. Dark-brown to black topsoil.				6	
-1-1- -1-1- -1-1-	ML,CL	To gray, moist, silty clay. Saturated 10' to 13'.			N/A	0994	
	GW	Poorly sorted medium grained sand with gravel. Loose.			-	-	
	GC	Tan, dry, poorly sorted gravel with some silt and clay. Semi-consolidated.	1			0997	
	GW	To saturated, poorly sorted, loose, unconsolidated, tan sand with gravel. Some cobble and coarse sand.			78 		
	GC	Wet, rusty-brown, loose gravel with some coarse sand. Increased clay content and consolidation 22.5' to 25'.	- 55-	20 -	79	2,24945	100004-0000
111 1 1 1 1 1 1 1 1 1 1	GC,G M	Similar to above, slight degree of consolidation. Poorly sorted gravel in sand/silt/clay matrix.				0998	
	GW	Becoming loose, saturated, gravel with some sand to brown fine grained sand with gravel and some cobble. To rusty brown, fine grained sand from 34' to 35'	60	_20 _ 80			
	SP	Well sorted, rusty brown, fine grained sand				0999	
TTT	ML	Silt. Dense.					
	SP	Clean, well sorted medium grained sand.			N/A		
	SM,CL	Undesirable fine grained sands, silts and blue-gray clay. EOH	0	- 0	NU X	1001	

PROPERTY NA	ME:	Van Pelt Property
PLANT:		Canby
COUNTY/PARIS	SH:	Clackamas
STATE:		Oregon
LOCATION:	Van	Pelt Property
LOGGED BY:	K.S	

BORING ID:	CE-18-15
COORD. SYS:	State Plane NAD 83
RIG: Terra So	onic 150 TSI
NORTHING:	582,100.0
EASTING:	7,627,407.0
ELEVATION:	100.0
TOTAL DEPTH:	85

DRILLER: Holt S	Services, Jeff Jones
DRILL METHOD:	SONIC
DATE STARTED:	10-25-18
DATE COMPLETE	<u>D:</u> 10-25-18
TYPE SAMPLE:	4.0" CORE
CASED TO: 80	
<u>EST. WL (ft.):</u>	

Depth (ft.) Lithology Soil Class.	MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #	Depth (ft.)
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-	OL	Dark-brown to black topsoil.				
-11	ML,CL	Subsoil. Similar consistency to surrounding holes.		 - 0	N/A	N/A
-	SP	Tan-brown, well sorted, medium grained sands.				
	GW	Dark gray to black, saturated, loose, poorly sorted gravel with coarse sand.				
	GC,G M	Color change to greenish-gray. Dense cobble in silty-clay matrix to semi-consolidated gravel/cobble/silts and clays. Increase in clay 19' to 20'.	60 -	-30 -	82	N/A
1919 1919 1919	GC,G M	To moist to damp, light brown-gray gravel with cobbles, silts and clays. Some coarse sand.				
	GW	Saturated, poorly sorted gravels. Clay content decreasing. To tan-brown, medium grained sand with gravel and some cobble.	55	_25	83	N/A
	SP	Tan-brown, rusty colored, fine grained sand grading to medium grained sand. Some Fe staining from 35' to 40'. Loose, clean.	0	0	84	N/A
				-0-		1015
-7-7-)	ML,CL	Blue-gray silty clay.				
$\frac{\tau \tau \tau \tau}{\tau \tau \tau}$	ML	Dark gray silt, clean-loose.				
	CL,ML	Gray clayey silt. Increased density and clay percentage to 60'.	0	0.	N/A	1016
-	CI	Blue clay	0	-0		

	179	Dark grav silt				
5 + 7 + 7	T	2 and gray and				1017
	L ML					0.000
<u></u>	Т					
			-			
	•	Dark gray, medium grained sand with minor coarse grained sand.	111 - 111 - 111 - 11	$c_{i}=c_{i}+c_{i$		1
_ • • • •	• SP					
	•				<u>.</u>	-
	*	Dark grav black, modium to coarso grained sand with minor gravel Looso				
	•	and clean EOH				
-		and dean. Eon	-			1011
			11 - 11 - 11 - 11	$c_{i}=c_{i}, i=c_{i}, i=c_{i}$		1018
	GW				N/A	
-			5	-0		

PROPERTY NAME:		Van Pelt Propert			
PLANT:		Canby			
COUNTY/PARIS	SH:	Clackamas			
STATE:		Oregon			
LOCATION: Val		n Pelt Property			
LOGGED BY:	K.S				

BORING ID:	CE-18-16
COORD. SYS:	State Plane NAD 83
RIG: Terra	Sonic 150 TSI
NORTHING:	581,845.0
EASTING:	7,627,786.0
ELEVATION:	100.2
TOTAL DEPTH	+: 50

DRILLER: Holt Services, Jeff Jon	es
DRILL METHOD: SONIC	
DATE STARTED: 10-25-18	
DATE COMPLETED: 10-25-18	
TYPE SAMPLE: 4.0" CORE	
CASED TO: 40	
<u>EST. WL (ft.):</u>	

Lithology	Soil Class.	MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #
	OL	2' dry, dark-brown to black topsoil. To medium brown subsoil of clay and silt. to 7.5 to clean fine to medium grained sand to 9.5.			N/A	1002
	GW	Tan, loose, clean sand with some gravel. To wet, dark gray-black gravel with coarse and medium grained sand. To gray, dense/consolidated "till-like" material. Becoming slightly loose towards bottom of run (20'). Material changing to a dense, stiff, tan gravel	- 50		85	N/A
	GU,G M GW	To saturated, medium brown, medium grained sand with some gravel and minor cobble.	45		86	1003
	SP	Medium grained, well sorted, clean, rusty brown sand. Damp.				1006
	SM Hard, tan silt to loose medium grained sand. SM Blue-gray silt with increasing clay content at depth. EOH CL,ML CL,ML				N/A	1010

PROPERTY NAME:		Van Pelt Property			
PLANT:		Canby			
COUNTY/PARIS	SH:	Clackamas			
STATE:		Oregon			
LOCATION:	Van	Pelt Property			
LOGGED BY:	K.S.				

BORING ID:	CE-18-17 M.W. #2
COORD. SYS:	State Plane NAD 83
RIG: Terra S	onic 150 TSI
NORTHING:	582,106.0
EASTING:	7,628,079.0
ELEVATION:	100.5
TOTAL DEPTH	35

DRILLER: Holt S	Services, Jeff Jones
DRILL METHOD:	SONIC
DATE STARTED:	10-26-18
DATE COMPLETE	<u>D:</u> 10-26-18
TYPE SAMPLE:	4.0" CORE
CASED TO: 30	
EST. WL (ft.):	

Depth (ft.) Lithology Soil Class.	MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #	Depth (ft.)
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	OL	Dark-brown to black topsoil, dry, hard.				
	SM	Tan to rusty brown subsoil, hard. To rusty brown, fine grained silty sand, dry, loose.	0	 	N/A	1019
	SP,GW	Brown, fine grained sand with some gravel.				
	GW	Dark gray, dry, poorly sorted sand and gravel with cobble. Cobble is round to angular. Material is loose.			91	
	GM	Similar to above with increased clay and consolidation. Poorly sorted gravels with cobble in silty clay matrix. Moist.	- 50	-25 -		1020
191791	GM,G C	Medium brown cobble in silt-clay matrix, some gravel. Moist, consolidated, forming logs.			92	
	GW	Loose, saturated, clean, poorly sorted, rusty brown, sand and gravel with minor cobble. Sand is medium grained.	50	_50 _	93	1021
-/-/-/	ML,CL	Dense, moist silt to blue-gray silt to gray clayey silt. EOH			N/A	1022

PROPERTY NAME:		Cha Property		
PLANT:		Canby		
COUNTY/PARISH:		Clackamas		
STATE:		Oregon		
LOCATION: Ch		a Property		
LOGGED BY: K.		6.		

BORING ID:	CE-18-18
COORD. SYS:	State Plane NAD 83
RIG: Terra So	onic 150 TSI
NORTHING:	581,444.0
EASTING:	7,628,042.0
ELEVATION:	100.6
TOTAL DEPTH	60

DRILLER: Holt Services, Jeff Jones DRILL METHOD: SONIC DATE STARTED: 10-22-18 DATE COMPLETED: 10-22-18 TYPE SAMPLE: 4.0" CORE CASED TO: 60 EST. WL (ft.):

Gravel %	Oversize	Sample #	Picture #	Depth (ft.)
	Gravel %	Gravel % Oversize	Gravel % Oversize Sample #	Gravel % Oversize Sample # Picture #

	OL	Overburden. Dark-brown to black topsoil, dry, hard.				
$\begin{array}{c} \phantom$	ML,CL	Subsoil. Tan-brown, semi-consolidated. Some organics.			N/A	0955
	SP	Tan, loose, fine-grained, well sorted, fine-grained sand.				
	SM	Dark gray, silty sand with minor clay.			8	-
	GW	Black, moist to wet, poorly sorted gravels with sand. Loose and unconsolidated.	60	_15 _	45	0956
7-7-,	ML,CL	Dense, gray, silty clay with hints of green. Moist.	-0	-0-	46	0057
	GC	Dry, dense, consolidated gravel in silty-clay matrix. Grayish-green. Becoming moist towards 19'.			47	0957
	GC,G M	Semi-consolidated, wet, tan-light brown, gravel with medium to coarse grained sand, some clay/silt. Material becoming increasingly dense at 23'. Fe staining throughout.				
0	GM	To medium brown, loose, saturated sand and gravel with silt. Poor recovery 28'-30'.	50	_15 _	48	0958
0	GM	Similar to above. Silty, loose gravel, some cobble.			1.1 	
	GW	Tan-brown, loose, medium grained sand with gravel. Consolidation, cobble and silt content increasing to 44'.	60	-25 -	49	0960
	SM	Hard, dense, silty-sand.				
/-/-'	ML,CL	Tan, dense, moist, silty clay. Grading to greenish-gray silt to 50'.				1010208-04-50
<u> </u>	ML,CL	To gray, dense, silty clay. Moist.		-0	50	0961
			the second se	· · · · · · · · · · · · · · · · · · ·		-

PROPERTY NA	ME:	Cha Property
PLANT:	Canby	
COUNTY/PARIS	Clackamas	
STATE:		Oregon
LOCATION:	Ch	a Property
LOGGED BY:	K.S	3.

BORING ID:	CE-18-19
COORD. SYS:	State Plane NAD 83
RIG: Terra S	onic 150 TSI
NORTHING:	581,851.0
EASTING:	7,628,522.0
ELEVATION:	101.4
TOTAL DEPTH	60

DRILLER: Holt S	Services, Jeff Jones
DRILL METHOD:	SONIC
DATE STARTED:	10-22-18
DATE COMPLETE	<u>D:</u> 10-22-18
TYPE SAMPLE:	4.0" CORE
CASED TO: 60	
EST. WL (ft.):	

Depth (ft.)	Lithology	Soil Class.	MATERIAL DESCRIPTION	Gravel %	Oversize	Sample #	Picture #	Depth (ft.)
Depth	Lithol	Soil C	MATERIAL DESCRIPTION	Grav	Over	San	Pictu	

OL	Dark-brown to black topsoil, dry, hard.				
+ + + - + + - - + + -	Subsoil. Rusty-brown, semi-consolidated, some organics. To light brown, dry, dense, silty-clay.			272/Mar 1	
ML,CM		0	- 0	N/A	
r + r + r r + r + r r + r + r					0000
0	Loose, dark brown to black, medium grained sand with gravel. Gravel percentage increasing with depth. Some cobble.				090.
GW				52	
0 0		50	-10 -		
	Dry brown gravel and cobble with fine sand silt and clay. Somewhat dense				
GM,G C	bry, brown, graver and cobble with the same, sit and day. Comewhat dense.				
	Medium brown, slightly consolidated, clayey-silt with gravel. Becoming moist	55		52	096
GM,G C	to wet at 27'. Increase in cobble.				
	Medium brown, moist, medium grained sand with gravel. Fairly loose.				
GW				120010	647137-6479
GM	Increased silt and clay content with slight degree of consolidation. Cobble is round to subround with some angular.	60	_30 _	53	096
GM,G C	Dry, brown, dense, silty day with gravel.				
GW	Clean, loose, rusty-brown sand and gravel. Saturated.	20	_20 _	54	096
SP	Medium grained sand. Clean, loose.			£	
r - 	Tan, damp silt.	0	- 0		
ML				N/A	
					096
1-1-1 MI CI	Gray, dense, silty-clay. Damp. EOH				

Project #Y184184

Appendix E - Subject Site Monitoring Well Development -



5 C S 15940 SW 7 Ph: (503) 63	ENG 72nd Ave, Por 39-9201, Fax:	INE tland, OR (503) 684	E R S 97224 -6948					
Client: Project #: (Site Name: Site Locatio Developmen Total Water Water Conta Estimate of	Cadman 3421804 on: Canby ot Method: · Removed: 5 ained? Ye specific capa	2.00 ,04 Surge ,2.10 , dispo	and purg gallons sch on site harge to well:	e	Date: Well ID: P Well ID: P Initial DTW: Initial DTB: Casing Diam Casing Volu: WL Meter #: Field Person	118 01 11.10 93.05 reter: 2" me: 5.21 32.12 nel: 5.N	72 Isson	Final DTW: 11, 18 Final DTB: 43,05
	Comulative			Specific	Dissolved	DTW		
Time	Gallons	pH S II	Temperature	Conductance	Охудел	(TOC)	Silt/Sand	Comments
Time 1252 1302 1303 1306 1309 1316 1316 1320 1330 1330 1330 1330 1330 1347 1347	Removed - 0.0 5.21 10.42 15.63 20.84 26.05 31.26 36.47 41.68 46.89 52.10	s.u. - 7.61 7.53 7.37 7.17 7.17 7.19 7.05 7.24 7.19 7.24 7.19 7.24 7.19	$\begin{array}{c} F(c) \\ -\\ -\\ 13,83 \\ 13,13 \\ 13,05 \\ 12,94 \\ 12$	326 326 321 318 312 309 - 19 311 310 311 311 311 311 311	- 9.78 5.08 4.33 4.05 4.12 3.94 3.94 3.94 3.94 3.94 3.97	n-bgs 11.96 12.01 11.92 11.90 11.90 11.90 11.89 11.89 11.88 11.88 11.88 11.88 11.88	mL/1000mL 325 	Comments Surge start Surge end Ruge@ 1.8 gpm Burge End Rurge@ 1.8 gpm

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SCS 15940 SW 7 Ph: (503) 63	ENG 72nd Ave, Po 39-9201, Fax:	INE rtland, OR (503) 684	E R S 97224 -6948					
Client: (A Project #: (Site Name: Site Locatio Developmen Total Water Water Conta Estimate of	12.1804 n: Canbe nt Method: S Removed: 3 ained? Yes, specific capa	12.00 J, OR Jrae o S. O a J:Spo city or rect	allons sed on sit	, C	Date: / ⁶ Well ID: P Initial DTW: Initial DTB: Casing Diam Casing Volue WI. Meter #: Field Person	Final DTW: 23.22 Final DTB: 32.93		
	Cumulative			Specific	Dissolved	DTW		
	Gallons	рН	Temperature	Conductance	Oxvgen	(TOC)	Silt/Sand	
Time	Removed	S.U.	°F C	(uS) mS	mg/L	ft-bgs	mL/1000mL	Comments
115 1125 1125 1127 11335 11335 11335 11355 11558 1208 1216 1208 1216	0-3467 79250540000	- 7.14 7.37 7.38 7.38 7.34 7.34 7.34 7.34 7.40 7.40 7.40 7.40 7.40 7.40 7.40 7.4	923209	378 377 377 377 377 377 377 377 377 377	10.95 4.01 1.54 1.54 1.69 0.91 0.91 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.69	24.52 24.78 25.94 26.09 26.19 25.48 25.48 25.48 26.64 26.70 26.81 26.81 26.81 26.81 26.81 26.81	1 1 200 1 1 1 1 1 50 202	Surge Start Surge End Purge @ 2 gpm Surge ene Surge ene Purge @ 2 gpm
					Signed:	h	~ /	2

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SCS 15940 SW 7 Ph: (503) 63	ENG 72nd Ave, Por 89-9201, Fax:	I N E tland, OR (503) 684	E R S 97224 -6948					
Client: C Project #: C Site Name: Site Locatio Developmen Total Water Water Conta Estimate of	ad man 942180 L n: Canby nt Method: Removed: G ained? Yes, specific capac	12.00 OR Surae o S.00 Jispos City or rect	S and Purge ed on site harge to well:	•	Date: {{/{ Well ID: P Initial DTW: Initial DTB: Casing Diam Casing Volut WL Meter #: Field Person	9/18 -03 32,90 72.57 eter: 2" me: 6,47 321,27 nel: 5 N 1	12	Final DTW: 32.42 Final DTB: 72.66
	Cumulative			Specific	Dissolved	DTW		
Time	Removed	рн S.U.	$^{\circ}F$ $\begin{pmatrix} \circ C \end{pmatrix}$		Oxygen mg/L	(TOC) ft-bgs	Silt/Sand mL/1000mL	Comments
1446 1457 1503 1509 1516 1529 1529 1529 1539 1545 1550 1556 1606	0.0 13.00 14.50 26.00 32.50 32.50 32.50 32.50 52.50 52.50 52.50 52.50 52.50 52.50 52.50 52.50		11.86 12.06 12.06 12.09 11.99 11.99 11.99 11.99 11.99 11.99 11.99	303333333333333333333333333333333333333	- 1.01 0.737 0.46 0.76 0.76 0.76 0.76 0.76 0.71 0.71			Surge start surge end Purge @1.2gpm Surge End Purge @1.2gpm
				· · · · · · · · · · · · · · · · · · ·	Signed:			(E

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SCS 15940 SW 7 Ph: (503) 63	SCS ENGINEERS 5940 SW 72nd Ave, Portland, OR 97224 Ph: (503) 639-9201, Fax: (503) 684-6948													
Client: Project #: Site Name: Site Location Development Total Water Water Contra Estimate of	adman 042180 n: Can I nt Method: Removed: ained? Y e specific capac	642.00 № у, ОР <u>5 Игд</u> ~ <u>20</u> \$, dis city or reck	<u>م، طر مر</u> ج <i>ما</i> Posed on harge to well:	र:'+ ६ र	Date: 2/6/19 Well ID: P-09 Initial DTW: 16.71 Final DTW: 14.90 Initial DTB: 98.22 Casing Diameter: 2" Casing Volume: 5.19 WL Meter #: Field Personnel: E Fadety									
	Cumulative			Specific	Dissolved	DTW	-							
	Gallons	рH	Temperature	Conductance	Oxygen	(TOC)	Silt/Sand							
Time	Removed	S.U.	°C	uS	mg/L	ft-bgs	mL/1000mL	Comments						
1355				_	-			Surge Start						
1403	_	-	-	-				surge end						
1408	0.0	5.04	10.85	<u>69</u> 6	2.96	22.12	-	Purge @ 1gpm						
(414	5.14	5.91	12.46	557	0.94	22.76	-	Purge @ 0.5 gpm						
1424	10.27	6.96	12.17	541	1.0)	20.55	— r	Purge process						
1445	12.42							stopped bic						
								battery died						
								-						
								-						
_														
								-						
								_						

494 Signed: ~ Page____of____

5 C S ≿5940 SW ⁴ Ph: (503) 65	ENG 72nd Ave, Po 39-9201, Fax:	INE rtland, OR (503) 684	ERS 97224 -6948					
Client: (Project #: (Site Name: Site Locatio Developme: Total Water Water Cont Estimate of	Cadman 942180 nr. Canby, 1 nt Method: S Removed: 1 ained? Yes specific capa	42.00 OR Surge c HO.O , dispos city or rect	> and Purg ed_onsite harge to well:	C	Date: M Well JD: P Initial DTW: Initial DTB: Casing Diam Casing Volu WL Meter # Field Person	1118 8.19 33.05 me. 9.00 3212 nel:5 N.	72	Final DTW: 8.69 Final DTB: 33.06
	Cumulative Gallons	n-i	Temperature	Specific Conductance	Dissolved	DTW (TOC)	Silt/Sand	
Time	Removed	S.U.	°F (°C)	(uS) mS	mg/L	fi-bgs	mL/1000mL	Comments
1005 1005 1005 1005 1005 1015 1015 1015	- 0.0 4.0 8.0 12.0 16.0 20.0 16.0 20.0 24.0 28.0 32.0 36.0 40.0	5.0. 	$ \begin{array}{c} 11.90 \\ 12.14 \\ 12.07 \\ 12.05 \\ 12.07 \\ 12.07 \\ 12.07 \\ 12.07 \\ 12.07 \\ 12.07 \\ 12.07 \\ 12.07 \\ 12.07 \\ 12.07 \\ 12.07 \\ 12.03 \\ 11.98 \\ 11.98 \\ 11.98 \\ 12.05 \\ 12.03 \\ 12.0$	$\frac{(13)}{7} ms$ $= 302$ 300 295 293 293 293 293 294 294 294 294 294 294 294 294 294 294 294 294 294 294 294	4.44 4.60 4.64 4.55 4.58 4.55 4.55 4.55 4.55 4.55 4.5	$\frac{11-bgs}{-}$ $\frac{10.31}{10.31}$ $\frac{10.31}{10.33}$ $\frac{10.35}{10.31}$ $\frac{9.54}{9.76}$ $\frac{9.76}{9.81}$ $\frac{9.81}{9.81}$		Comments Surge start Surge end Purge @ 2 gpm Surge End Purge @ 2 gpm No observable sed. No observable sed.

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Project #Y184184

Appendix F - Nearby Groundwater Well Report Records and Summary Table -



TABLE 1 - WELL REPORT SUMMARY INFORMATION

o ID No.	OWRD Well Log	Well	/nship	lge	tion	Quarter					Approximate	Approximate Top Of Screen	Drilled	Depth First Water	Depth Static Water	Date	Aquifer	New Well	Reconditioned	Yield
Map	ID No.	Tag No.	Tow	Ran	Sec	a a	Тах Мар	Tax Lot	Owner's Name	Well Location Address	Elevation (ft.)	Elevation (ft.)	(ft.)	(ft.)	(ft.)	Measured	Туре	(date)	(date)	(gpm)
1	CLAC 1094		4S	1E	7	NW, SE	4-1E-7	700	Coast Brand Onion Sets	25490 S. Rohten Rd	158	78	80	61	61	11/7/1990	Alluvium	11/7/1990		15
2	CLAC 12940		4S	1E	6	SE, SE	4-1E-6	1900	Lydia Stach	24791 S. Barlow Rd	104	56	65	11	16	9/11/1985	Alluvium	9/11/1950		30
3	CLAC 12963		4S	1E	6	SE, SE	4-1E-6	1900	W. Stach	24791 S. Barlow Rd	102	78	245	24	5	6/18/1974	Alluvium	7/17/1974		300
4	CLAC 12964		4S	1E	7	' NE, SE	4-1E-7	5500	Glen Arneson	25571 S. Barlow Rd	166	19	200	36	55	5/16/1980	Alluvium	5/16/1980		190
5	CLAC 12966		4S	1E	7	SW, NE	4-1E-7	500	Bergwin	25311 S. Barlow Rd	103	58	45	40	3	6/7/1974	Alluvium	6/7/1974		40
6	CLAC 12972		4S	1E	7	'SW, NW	4-1E-7	2200	W. Yoder	No Situs	96	85.5	11			4/16/1905	Alluvium	4/16/1905		
7	CLAC 12980		4S	1E	7	NW, SW	4-1E-7	3400	Weyerhaeuser Co.	No Situs	157	54	140	86	54.13	3/12/2015	Alluvium	9/25/1974		300
8	CLAC 12981		4S	1E	7	NE, SE	4-1E-7	3200	Weyerhaeuser Co.	No Situs	163	69	135	92	64	1/23/1975	Alluvium	1/30/1975		300
9	CLAC 12983		45		7	SW, SW	4-1E-7	3300	Weyerhaeuser Co.	6051 S. Lone Elder Rd	160	51	128	88	64	11/27/1974	Alluvium	11/29/1974		110
10	CLAC 12984		45			SW, SE	4-1E-7	5300	Weyernaeuser Co.	No Situs	164	63	134	101	56	2/4/1975	Alluvium	2/7/1975		319
11	CLAC 12988		45			NW, SE	4-1E-7	5400	D. E. Peterson	25588 S. Rhoten Rd	168	72	108	63	57	4/17/1974	Alluvium	4/17/1974		60
12	CLAC 12990		45			SVV, SE	4-1E-7	4500		NO SILUS	108	93	118		00 E	7/20/1060	Alluvium	7/20/1060		1/5
13	CLAC 12991		45		7	SE, INVV	4-15-7	2201	F. WIODIE	25175 5. Dallow Ru	102	37	125		5 60	F/5/1005	Alluvium	1/29/1960		120
14	CLAC 12992		45				4-15-7	ZZU I		23407 S. HWY 99E	101	41	120	75	63	0/13/1905	Alluvium	0/13/1070		150
15	CLAC 12995		43				4-15-7	1001	B Garoutte	25373 S HWAY OOF	100	83	67	64	52	9/13/19/9	Alluvium	9/13/1979		30
10	CLAC 12995		40		7		4-16-7	Linknown	W Voder	No Situs	150	20	160	1/5	52	3/30/1901	Alluvium	5/8/1980		35
18	CLAC 12990		45		7	SW NW	4-1E-7	Unknown	.I Keeler	No Situs	160	55	100	95	53	7/17/1980	Alluvium	7/15/1980		20
19	CLAC 12999		45	1F	7	SE NW	4-1F-7	800	A Workman	25421 S Hwy 99F	97	86.5	10.5			1933	Alluvium	1933		100
20	CLAC 13000		45	1F	7	SE NW	4-1F-7	800	A Workman	25420 S. Hwy 99E	98	29	69			8/23/1958	Alluvium	8/23/1958		250
21	CLAC 13001		45	1F	7	SW NF	4-1F-7	700	W Yoder	25490 S. Rhoten Rd	101	20	90		2	9/26/1966	Alluvium	9/26/1966		300
22	CLAC 13002		45	1F	7	NE SE	4-1F-7	5500	I Bany	25571 S Barlow Rd	163	32	150		50	4/1/1956	Alluvium	4/1/1956		125
23	CLAC 13003		45	1F	7	NW SF	4-1F-7	4401	J. Farl and W. Rhoten	25595 S. Rhoten Rd	163	62	101			5/4/1905	Alluvium	5/4/1905		100
24	CLAC 13004		45	1F	7	NW SE	4-1F-7	5300	J Hershberger	No Situs	168	67	101		65	12/31/1946	Alluvium	12/31/1946		120
25	CLAC 13005		45	1F	7	NW. SF	4-1F-7	4300	J. Hershberger	25498 S. Rhoten Rd	115	63	74		20	9/21/1960	Alluvium	9/21/1960		255
26	CLAC 13006		4S	1E	7	NE. SW	4-1E-7	4200	V. Hamausha	25779 S. Rhoten Rd	101	61	65		0	6/3/1958	Alluvium	6/3/1958		195
27	CLAC 13007		4S	1E	7	NW. SW	4-1E-7	2601	E. Ramboz	No Situs	160	49	111		65	9/2/1953	Alluvium	9/2/1953		100
28	CLAC 13010		4S	1E	8	NW, NE	4-1E-8	700	C. Hulit	25000 S. Barlow Rd	115	-65	197	19	26	5/31/1985	Alluvium	5/31/1985		71
29	CLAC 13015		4S	1E	8	NW, NW	4-1E-8	1000	Vilstrup	25100 S. Barlow Rd	106	67	39	10	10	1952	Alluvium	1952		150
30	CLAC 16052		4S	1E	7	SW, NE	4-1E-7	800	H. Workman	25408 S. Hwy 99E	160	45	140	75	34	10/20/1991	Alluvium	10/21/1991		150
31	CLAC 17817		4S	1E	7	SE, NW	4-1E-7	1102	T. Pierson	25393 S. Hwy 99E	165	46	125	118	62	3/27/1992	Alluvium	3/27/1992		30
32	CLAC 52643	L14866	4S	1E	8	BNW, NW	4-1E-8	800	Pacific Rock Products LLC	25000 S. Barlow Rd	124	119	75	9	5	9/25/1997	Alluvium	9/23/1997		10
33	CLAC 52644	L14867	4S	1E	8	BNW, NW	4-1E-8	800	Pacific Rock Products LLC	25000 S. Barlow Rd	102	97	75	10	6	9/25/1997	Alluvium	9/17/1997		10
34	CLAC 52645	L14865	4S	1E	8	NW, NE	4-1E-8	700	Pacific Rock Products LLC	25000 S. Barlow Rd	115	110	75	15	13	9/25/1997	Alluvium	9/22/1997		10
35	CLAC 52646	L14868	4S	1E	8	B NE, NW	4-1E-8	800	Pacific Rock Products LLC	25000 S. Barlow Rd	103	98	75	12	10	9/25/1997	Alluvium	9/19/1997		10
36	CLAC 54859	L25020	4S	1E	8	3 SW, SW	4-1E-8	1200	S. Miles	7285 S. Lone Elder Rd	171	-69	332	31	89	7/16/1999	Alluvium	7/24/1999		400
37	CLAC 58775		4S	1E	7	' NE, SW	4-1E-7	3501	R. Oathes	25496 S. Hwy 99E	167	84	95		71	2/13/2003	Alluvium		2/14/2003	14
38	CLAC 62594		4S	1E	7	' NE, SE	4-1E-7	5600	D. Inness	25541 S. Barton Rd	161	43	118	72	66	7/17/2006	Alluvium	7/17/2006		100
39	CLAC 66862	L95777	4S	1E	6	SE, SE	4-1E-6	1900	CEMEX	24791 S. Barlow Rd	105	98	47	8	8	5/5/2010	Alluvium	5/5/2010		
40	CLAC 66863	L95778	4S	1E	6	SE, SE	4-1E-6	1900	CEMEX	24791 S. Barlow Rd	99	92	37	8	8	5/6/2010	Alluvium	5/6/2010		
41	CLAC 66864	L95779	4S	1E	6	SE, SE	4-1E-6	1900	CEMEX	24791 S. Barlow Rd	102	95	77	9	9	5/6/2010	Alluvium	5/6/2010		
42	CLAC 68139	L107287	4S	1E	8	B NE, NE	4-1E-8	1100	C. and B. Estrada	25460 S. Barlow Rd	106	-121	242	227	60	8/23/2011	Alluvium	8/23/2011		120
43	CLAC 69037	L108468	4S	1E	7	' NE, NE	4-1E-7	100	CEMEX	25100 S. Barlow Rd	103	98	90			7/31/2012	Alluvium	7/31/2012		
44	CLAC 69038	L108469	4S	1E	6	SE, SE	4-1E-6	1900	CEMEX	25100 S. Barlow Rd	104	99	90			8/1/2012	Alluvium	8/1/2012		
45	CLAC 69039	L108470	4S	1E	6	SE, SE	4-1E-6	1900	CEMEX	25100 S. Barlow Rd	104	99	90			8/3/2012	Alluvium	8/3/2012		
46	CLAC 71844		4S	1E	7	NW, SE	4-1E-7	4400	N. Moses	25581 S. Rhoten Rd	154	74	103	75	62	11/13/2015	Alluvium	11/13/2015		60
47	CLAC 72143		4S	1E	7	ISE, SW	4-1E-7	4402	C. Lukis	25563 S. Rhoten Rd	158	78	100	75	62	2/21/2016	Alluvium	2/21/2016		18
48	CLAC 73358	L127202	4S	1E	7	ISE, NE	4-1E-7	500	I. Cha	25311 S. Barlow Rd	103	-148	271	34	76	8/22/2017	Alluvium	8/22/2017		60
49	CLAC 73454	L127208	4S	1E	8	NW, NW	4-1E-8	900	N. Hanes	25040 S. Barlow Rd	105	-142	260	34	64	10/4/2017	Alluvium	10/4/2017		45
50	CLAC 74742	L130502	4S	1E	7	ISE, NE	4-1E-7	600	Lee	25352 S. Barlow Rd	98	78	50		8	1/17/2019	Alluvium	10/24/2018		
51	CLAC 74743	L130503	45		7	ISE, NE	4-1E-7	700	Yoder	25490 S. Rhoten Rd	100	90	35		21	1/17/2019	Alluvium	10/26/2018		
52	CLAC 74744	L130505	45		7	ISE, NE	4-1E-7	700	Yoder	25490 S. Rhoten Rd	106	66	75		32	1/17/2019	Alluvium	10/17/2018		
53	ULAC 74745	L130504	45		7	SE, NE	4-1E-/	600		25351 S. Barlow Rd	102	76	85		17	1/1//2019	Alluvium	10/18/2018		
54	ULAC /4/46	L130501	45	11E	7	ISE, NE	4-1E-/	600	roaer	25351 S. Barlow Rd	97	17	45		6	1/1//2019	Alluvium	10/24/2018		
WATER RESOURCE 0.62.5 / 1.7.5 (a) CONTENT OF WELL BY legal description: (b) CONTENT STATE Velocity Since 2.5 H 22-DA COLLER. 56.7.5 Velocity (c) CONTENT OF WELL by legal description: Control of Well States (c) CONTENT OF WELL BY legal description: Control of Well States (c) CONTENT OF WORK: Control of Well States (c) TOPE OF WORK: Control of Well States (c) CONTENT OF WORK: Control of Well States (c) DEDEL METHOD Detect of Control of Well States (c) DEDEL METHOD Detect of Control of Well States (c) DEDEL METHOD Detect of Control of Well States (c) DEDEL METHOD Detect of Control of Well States (c) DEDEL METHOD Detect of Control of Well States (c) DEDEL METHOD Detect of Control of Well States (c) DEDEL METHOD Detect of Control of Well States (c) Denenol (Control of Well States	ST	H ATE (E16	GON	Ø	(AC))	NO	V - 8 7890	GEAC	45/1	EN	, dł)						
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(1) OWNER: Wet Number: (3) LOCATION OF WELL by legal description: Name: Zo By the S St. Hours Sort S (3) LOCATION OF WELL by legal description: (3) LOCATION OF WELL by legal description: Cive: File: File: Sort S State Or ze: 20 97001 (3) LOCATION OF WELL by legal description: (3) LOCATION OF WELL by legal description: Cive: File: File: Sort S State Or ze: 20 97001 State Or ze: 20 97001 (3) LOCATION OF WELL by legal description: Cive: File: File: Sort S State Or ze: 20 97001 State Or ze: 20 97001 State Or ze: 20 97001 (3) DRLL METHOD Bears Mid: Taylor: A State Or ze: 20 97001 State Or ze: 20 97001 (4) PROPOSED USE: Industrial Industrial Industrial Industrial (4) PROPOSED USE: State Or ze: 20 2 2 The state or ze: 20 97001 State Or ze: 20 97001 (5) BORE HOLE: CONSTRUCTION: State Or ze: 20 2 2 The state or ze: 20 97001 State Or ze: 20 2 2 (6) CASING/LINER: State Or ze: 20 2 2 The state or ze: 20 9701 State Or ze: 20 2 2 State Or ze: 2	WATE	ER W	ELL R	EPOR 37,765)	т ((094	A.W.	TERRE	SOURCE OEPT	(START CARD)	#625	-17.								
Mater 200 S1: DF2 Hor 2011D E. SPC12 Setter Longitude Longitude Setter	(1) OW	NER	A R		111100	Well Nu	 mber:	<u>- 1</u> 89 8 54 8	(9) LOČATIO	N OF WELL	oy legal d	lescrip	tion:	,						
(2) TYPE OF WORK: International and the second international problem of the second international preserves of the second international problem of the second interna	Address J City /7	<u>15 H</u> U ~	83 10 r A	S. Hu	sy 99 State	<u> </u>	Zip 9	77002	Township 4	<u>Ma</u> Satitude Nor S. Rang	<u>1E</u>	_ Longitud	le E or W,	, WM.						
3. New Well Deeper Reconstant Attandon (3) DRILLMETHOD Stage Address of Well Constructor and Attandon Stage Address of Well Constructor and Attandon (3) DRILLMETHOD Calif	(2) TY	PE O	F WOI	<u></u>					Tax Lot 70	O Lot	Block	<u> </u>	livision							
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Binange Ar Binange Ar <td>(3) DR</td> <td>ILL I</td> <td></td> <td><u></u></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td>Rohter</td> <td>n Rd A</td> <td>Urord</td> <td>_Or</td> <td><u>e 9</u></td> <td>7002</td>	(3) DR	ILL I		<u></u>		<u> </u>			Rohter	n Rd A	Urord	_Or	<u>e 9</u>	7002						
(1) PROPOSED USE:	Rotary #	Air	Rota	ry Mud	Table	<u> </u>			(10) STATIC	WATER LEV	'EL:	Dut	11-	79						
Amount Community Industrial Irrigation Citer press Other Community Community Community Citer press Community Community Community Community Citer press Community Community Community Community Community Citer press Community Community </td <td>(4) PR</td> <td>OPO</td> <td>SED H</td> <td>SE:</td> <td></td> <td></td> <td></td> <td><u> </u></td> <td>Artocian procesur</td> <td>n, below land surface.</td> <td>or course incl</td> <td>Date Date</td> <td></td> <td><u> </u></td>	(4) PR	OPO	SED H	SE:				<u> </u>	Artocian procesur	n, below land surface.	or course incl	Date Date		<u> </u>						
Thermal injection (5) BORE HOLE CONSTRUCTION: Yet No Yet No Yet No Mole Diameter From 10 11) Well Line 11) Well Network 11) Well Network 11) Well Network 12) Well Network 12) Well Network 13) Border From 14) Control 15) Rotation 16) Cassing (Line) 16) Cassing (Line) 17) Perforations 18) Well Line 19) Well Line 11) Well Network 11) Well Network 11) Well Network 12) Well Network 12) Well Network 12) Well Network 13) Rotation 14) Control 14) Control 15) Perforation 16) Casing (Line) 17) Perforation 18) State 19) Control 19) Control 19) Control 10) Control 10) Control 11) Control 11) Control 11) Control 11) Control 11) Control	Domesti	ic [Comm	unity []_Industrial	🗌 Irri	zation				NEC.	. Date								
(a) BORE HOLE CONSTRUCTION: prick Construction approach (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	☐ Therma	ı [Injecti	on 🗌	Other			<u> </u>	(II) WAIER	BEARING ZU	JNES:									
presid Construction approach Ves No presid Construction approach Ves No Capped of Completed Weil Cancent Particle From To State State Capped of Completed Weil Capped of Completed Weil Capped of Completed Weil Capped of Completed Weile Capped of Completed Weile Capped of Completed Weile Capped of Completed Weile Capped of Completed Weile Capped of Capped of Completed Weile Capped of Completed Weile Capped of Capped of Completed Weile Capped of Completed Weile <td>(5) BO</td> <td>RE H</td> <td>OLEC</td> <td>ONST</td> <td>RUCTIO</td> <td>DN:</td> <td></td> <td></td> <td>Depth at which water w</td> <td>was first found</td> <td><u> </u></td> <td></td> <td></td> <td></td>	(5) BO	RE H	OLEC	ONST	RUCTIO	DN:			Depth at which water w	was first found	<u> </u>									
Ver No Amount. HOLE SEAL. Amount. Dameter From To Material From To 10 2.0 2.0 10 2.0 2.0 11 11 11 12 2.0 2.0 14 2.0 2.0 15 2.0 2.0 16 2.0 2.0 17 10 10 16 2.0 2.0 17 10 10 18 10 10 19 10 10 10 10 10 10 10 10 11 10 10 10 10 10 11 10 10 10 10 10 11 10 10 10 10 10 11 10 10 11 10 10 10 10 10 10 10 10	pecial Con	structio	n approval	Yes N	Dep	oth of Comp	leted Well _	<u>80</u> ft.	From	Το	Est	imated Floy	w Rate	SWL						
HOLE SEAL Amount Diameter From To Stat Amount I O 2 O Point To Seckes or pounds I Image: Comparison of the construction of the constructio		, j	ies No		1				74	80		20_		61						
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Backfill placed fromft. toft. Material	🗌 Other _	Po	<i>úr</i> ta	l fr	om to	17			1970WTC	Grand G	210 9	67	74							
Gravel placed fromR. toR. Size of gravel	Backfill plac	ed from	I	ft. to	ftM	aterial			Loose 9:	TAVI		2 H	80	61						
(6) CASING/LINER: Diameter From To Gauge Store Image: Store Image: Store Telepipte Store Telepi	Gravel place	d from		ft. to	ft. Si	ze of gravel														
To perform the design in the design is the design in the design in the design is the desi	Casing:		From (Gauge Steel 250 2															
(7) PERFORATIONS/SCREENS: Perforations Method Storeans Type Material Image: Storeans Slot Tele/pipe Slot Tele/pipe Slot Tele/pipe Slot Image: Slot Vield gal/min Drawdown Depth Artesian Flow Found Signed Was a water analysis done? Yes Didany strata contain water not suitable for intended use? Too little	Final locatio	on of she	e(s)						·					+						
Perforations Method Screens Type Material	(7) PEI	RFOI	RATIC	NS/SC	CREENS	:							+	+						
Image: Streens Type		erforatio	ons	Method		s						+	+	+						
Slot Tele/pipe From To size Number Diameter size Casing Liner Image: Size Size Number Size Casing Liner Image: Size Size Casing Liner Image: Size Image: Size<	L Sc	reens		Type		Mater	al							<u> </u>						
(8) WELL TESTS: Minimum testing time is 1 hour Yield gal/min Drawdown Drill stem at Time / 5 9 / 5 9 / 15 9 / 15 9 / 15 9 / 15 9 / 15 9 / 15 9 / 15 9 / 15 9 / 16 9 / 16 9 / 16 9 / 15 9 / 16 9 / 16 9 / 16 9 / 16 9 / 16 9 / 16 9 / 16 9 / 16 9 / 16 9 / 16 9 / 16 9 / 16 9 / 16 9 / 16 9 / 16 9 / 16 9 / 16 9 / 16 9 / 16	From	То	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner				<u> </u>	+	-						
(8) WELL TESTS: Minimum testing time is 1 hour Flowing Yield gal/min Drawdown Drill stem at Time / 5 9 21 hr. Signed Signed Date Signed Date Obtage Date Was a water analysis done? Yes Did any strata contain water not suitable for intended use? Too little	<u> </u>											1	+	 .						
(8) WELL TESTS: Minimum testing time is 1 hour Flowing Pump Bailer Air Flowing Yield gal/min Drawdown Drill stem at Time / 5 9 21 hr. 21 hr. Signed Date started _/ 0 - 3 / 9 0 Completed _/ 10 - 7 9 0 (unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, alteration abandonment of this well is in compliance with Oregon well construct to my knowledge and belief. WWC Number Date Image: Signed													1	1						
(8) WELL TESTS: Minimum testing time is 1 hour Flowing Yield gal/min Drawdown Vield gal/min Drawdown Vield gal/min Drawdown Vield gal/min Drawdown Drill stem at Time / 5 9 2 hr. 2 hr. Signed Date WWC Number Date 0 Date 1 Certify that the work I performed on the construction, alteration abandonment of this well is in compliance with Oregon well construct to my knowledge and belief. WWC Number Date (bonded) Water Well Constructor Certification: NWC Number Signed Date Was a water analysis done? Yes Did any strata contain water not suitable for intended use? Too little																				
(8) WELL TESTS: Minimum testing time is 1 hour I certify that the work I performed on the construction, alteration abandonment of this well is in compliance with Oregon well construct or standards. Materials used and information reported above are true to my knowledge and belief. Yield gal/min Drawdown Drill stem at Time / 5 9 1 Phr. Signed Date Date / 5 9 Depth Artesian Flow Found // 5 9 Depth Artesian Flow Found // 5 9 Depth Artesian Flow Found // 5 9 Nome / 5 9 Depth Artesian Flow Found // 5 9 Depth Artesian Flow Found // 5 9 Nome // 5 9 Depth Artesian Flow Found // 5 9 Whr. // 5 9 Nome // 5 9 Nome // 5 9 Depth Artesian Flow Found // 5 9 <			<u> </u>						Date started	- 31 90	_ Completed .	11-	7 9	20						
(8) WELL TESTS: Minimum testing time is 1 hour Flowing I certify that the work I performed on the construction, alteration: Yield gal/min Drawdown Drill stem at Time I certify that the work I performed on the construction, alteration: WCNumber Date Image: Signed Date I accept responsibility for the construction, alteration, or abandon Was a water analysis done? Yes Did any strata contain water not suitable for intended use? Too little									(unhonded) Wata	r Well Construct	or Certific	ation								
Flowing Flowing Yield gal/min Drawdown Drill stem at Time / 5 9 21 hr. Signed Date Signed Date Oboded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abandon work performed on this well during the construction dates reported abov Was a water analysis done? Yes By whom Did any strata contain water not suitable for intended use? Too little	(8) WE	LLI	ESTS	: Minim	um testir	ig time is	s 1 hour		I certify that	the work I perform	ned on the	constructi	ion, alter	ation.						
Yield gal/min Drawdown Drill stem at Time / 5 9 21 hr. Signed Signed <td>М Р.</td> <td>mp</td> <td>Пв</td> <td>ailer</td> <td>1 Air</td> <td></td> <td>Flowi</td> <td>ng ian</td> <td>abandonment of th</td> <td>nis well is in com</td> <td>oliance with</td> <td>Oregon</td> <td>well con</td> <td>structio</td>	М Р.	mp	Пв	ailer	1 Air		Flowi	ng ian	abandonment of th	nis well is in com	oliance with	Oregon	well con	structio						
Intermeter at the service of water Depth Artesian Flow Found WWC Number Was a water analysis done? Yes By whom Item Did any strata contain water not suitable for intended use? Too little Too little WWC Number	Viold vol	/	Drom	down		om at		me	standards. Material	s used and informa f.	tion reporte	d above ai	re true to) my be						
Y Y Y Nr. Signed Date Depth Artesian Flow Found Date Was a water analysis done? Yes By whom Did any strata contain water not suitable for intended use? Too little	T IEIU BBI				Drin S	n in at						WWC Nu	ımber							
Temperature of water 5.3 Depth Artesian Flow Found I accept responsibility for the construction, alteration, or abandon work performed on this well during the construction dates reported abov work performed during this time is in compliance with Oregon construction standards. This report is true to the best of my knowledge	_/5		8				2	.ır	Signed			Date								
	Temperatur Was a water Did any stra	e of wat analysi ata conta	er <u>5</u> 5 s done? ain water n	Yes	Depth . By whom . for intended	Artesian Flo use?	w Found Foo little		(bonded) Water W I accept response work performed on work performed d construction standar	Vell Constructor (asibility for the co this well during th uring this time urds. This report is	Certification nstruction, a e construction is in comp a true to the	on: alteration, on dates r pliance w best of m	or aban eported a ith Oreş ny knowl	donmer above. a gon we edge an						
□ Salty □ Muddy □ Odor □ Colored □ Other Denter Signed \$\frac{1}{200} \frac{1}{200} \	Salty Depth of sta] Mude	ły 🗌 Od	or 🗌 Co	lored 🗌 Ot	her			Signed In ha	, ist.	Pork.	WWC Nu Date	1mber <u>・</u> ノーア・	<u>чнд</u> - 90						
		aua:							Signed	<u> </u>		Date								

WATER WELL REPORT

STATE OF OREGON

WATER RESOURCES DEPT SALEM, OREGON

RECEIVED

SEP 3 0 1985

1	AUBIED.
	UWNER:
	O 11 T 122

Name <u>Lvdi</u> e	Stach
Address 1027	Williama ave
City Woodb	ourn State Or
_ (2) TYPE OF WO	RK (check):
New Well 🕱 🛛 Deepen	ing 🗆 Reconditioning 🗆 🕚 Abandon 🗆
If abandonment, describe 1	naterial and procedure in Item 12.
(3) TYPE OF WE	LL: (4) PROPOSED USE (check):
Rotary Air 🕱 Driven	Domestic 🗴 Industrial 🗆 Municipal 🗔
Rotary Mud 🗆 Dug	Irrigation Test Well Other
Borea	Inermai: Withdrawai I Reinjection
(5) CASING INST	FALLED: Steel □ Plastic □ Threaded □ Weided □
.6,	-16 to 48 ft. Gauge .250
	ft. to
LINER INSTA	ALLED:
4 "Diam from 30) ft to 65 ft Gauge SDR 21
(b) FERFURATION <u>Type of perforator used</u>	$Saw = \frac{Saw}{Saw}$
Size of perforations 1,	/8 in.by 6 in.
4.8	perforations from
****	perforations from ft. to ft.
	perforations from ft. to ft.
(7) SCREENS:	Well screen installed? Yes XNo
Manufacturer's Name	
Гуре	Model No.
Diam	Slot Size
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 DNo If yes, by whom? DELLER
<u>u: 30</u>	gal./min. with 9 tt. drawdown after 1 hrs.
Airtost	gel/min with drill stem at ft hrs
Bailer test	gal/min. with ft. drawdown after hrs.
rtesian flow	g.p.m.
perature of water	Depth artesian flow encountered ft.
(9) CONSTRUCT	ION: Special standards: Yes D No K
Well seal—Material used .	Cement
Well sealed from land surfa	ace to
Diameter of well bore to b	ottom of seal 1.0 in.
Diameter of well bore belo	w seal6.
Number of sacks of cement	used in well seal 4/ sacks
How was cement grout plac 19 ft. to la	nd surface.
Was pump installed?	NQType
Was a drive shoe used? 💆	Yes I No Plugs Size: location ft.
Uid any strata contain un	dowth of cture
Type of water:	depth of strata
Was well gravel nacked?	□ Yes TNo Size of gravel:
Gravel placed from	ft. to ft.
	NOTICE TO WATER WELL CONTRACTOR
	The original and first copy of this report
	Are to be they are



		11	
State Well No	ر ا	45/1E-	-led)

State Permit No.

	1
(10) LOCATION OF V	VELL

County	C	1	ack	an	as		Dri	ller's w	ell nur	nber		275		
SE	¼	S	E	<u>4 S</u>	ection	6	T.	4S	R.	1E			W.1	<u>vi.</u>
fax Lot #						Lot	_	Blk		Su	bdiv	ision		
Address a	it w	ell 🛛	ocatio	n:	247	79 1	S.	Ba	rlo	wR	d,			_
					Car	ıby	, 0:	r.	9	701	3			
						i							_	

(11) WATER LEVEL: Completed well.

Depth at which water was first	st foundft.	
Static level 16	ft. below land surface. Date 9/11/8	35
Artesian pressure	lbs. per square inch. Date	
(12) WELL LOG:	Diameter of well below casing	

Depth drilled 65 ft. Depth of completed well 65 ft. Formation: Describe color, texture, grain size and structure of materials; and show chickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	То	SWL
Top soil, gravel, medium	0	2	
Clay_gravel_brown_medium	2	11	
Gravel medium	11	12	
Clay, brown	12	19	
Gravel, clay, medium, brown	19	22	
Clay, sand, blue, black, fine	e 22	24	
*Sand, gravel, medium	24	45	
Clay, brown	45	48	
*Sandstone, brown, fract.	48	65	
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57 			
• - <u>b</u>			
÷			
Work started 9/6 19 85 Completed	d	9/11	1985
Date well drilling machine moved off of well		9/11	1985

Drilling Machine Operator's Certification:

This	well was constructed under my direct	t supervision. Materi	als used
and inform	mation reported above are true to my	[,] best knowledge and	belief.
[Signed]		Date	19
	(Drilling Machine Operator)	· · · · · · · · · · · · · · · · · · ·	

Drilling Machine Operator's License No.

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.

Name	B	&0	L.Drij	ling			
. –	- (Person	1, firm or	corporation)	-		(Type or	print)
Address .	10030	S.	Macks	sburg	Rd.	Canby	Ör.
	Ha.					. 12 -	a
[Signed]	Y MAY	Lale-	70	ann	wr	an	
		/ Ø	(Wat	er Well Con	tractor)	la in a	
Contract	or's Licens	e No. 🛴	.6371	Date		9/11	19.85

WATER RESOURCES DEFARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

STATE ENGINEER, SALEM, OREGON 97310 (Please type	or print) STATE ENGINEED	•		
within 30 days from the date of well completion. (Do not write al	pove this lineSALEM, OREGON	0		
(1) OWNER:	(10) LOCATION OF WELL:			
Name William Stach	County Clackamas Driller's well nu	umber		
Address 1027 Williams St.	1/4 1/4 Section 6 T. 45	R. /	E.	W.M.
- Woodburn, Oregon	Bearing and distance from section or subdivisi	on corne	r	
(2) TYPE OF WORK (check):				
New Well 12 Deepening Reconditioning Abandon	<u> </u>		_	
	(11) WATER LEVEL: Completed w	ell.		
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found		24	ft.
Cable J Jetted Domestic D Industrial Municipal	Static level 5 ft. below land s	urface.	Date,Jur	ne 18,
Dug 📋 Bored 📋 Irrigation 😰 Test Well 🗍 Other	Artesian pressure lbs. per squar	e inch.	Date	
CASING INSTALLED: Threaded	(12) WELL LOG			01
10." Diam. from0 ft. to242 ft. Gage250	Depth drilled Of a ft Depth of compl	letod wel	sing ເ ດເ	
	Tentritiken Desertie selen tentine grain ite	eteu wen		L <u>C II</u>
" Diam. fromft. toft. Gage	and show thickness and nature of each strature	m and a	quifer pe	netrated,
PERFORATIONS.	with at least one entry for each change of forma position of Static Water Level and indicate prin	tion. Rep cipal wa	ort each d ter-bearin	change in ng strata
Type of perforator used Willie Knife	MATERIAL	From	То	SWL
Size of perforations $3/8$ in by $21/2$ in	Tongoil	01	21	
144 perforations from 24 ff to 42 ff	Brown clay and small gravel	21	21.1	
perforations from ft. to ft.	Small gravel and black coarse	~~		
ft, toft.	sand (water bearing)	241	311	51
(7) SCREENS:	Medium gravel and fine brown			
Well screen installed? Yes X No	sand	311	421	
Type Model No.	Blue clay	<u>421</u>	511	E1
Diam Slot size Set from ft. to ft.	Medium Diack sand (water hearing)	21'	001	
Diam	Blue clay	681	761	
(8) WELL TESTS. Drawdown is amount water level is	Fine black sand (water bearing)761	981	51
lowered below static level	Blue sticky clay	981	2371	
Was a pump test made? X Yes No If yes, by whom? UTLLET	Medium black sand(water bearing	lg)237	1 245	<u>12</u>
Yield: 200 gal./min. with 50 ft. drawdown after 2 hrs.	3/1.11 rock put in well to 2	21.21		
<u> 230 " 80 " 4 "</u>	After perforating, static	water	leve	
<u> </u>	Recorded at 51			
Baller test gal./min. with ft. drawdown after hrs.		<u> </u>		
Artesian flow g.p.m.	· · · · · · · · · · · · · · · · · · ·			
Depth artesian flow encountered ft.	Work started June 17 1974 Complete	ed July	17	19 7]
(9) CONSTRUCTION:	Date well drilling machine moved off of well		July	18º 74
Well seal-Material used Portland cement	Drilling Machine Operator's Certification:			•
Well sealed from land surface to 20 ft.	This well was constructed under my Materials used and information reported	direct above	t super are true	vision.
Diameter of well bore to bottom of seal	best knowledge and belief.			
Diameter of well bore below seal 10 in.	[Signed] ////////////////////////////////////	Date J	uly 3	L , 197.4
Number of sacks of cement used in well seal	Drilling Machine Operator's License No.	82:	3	-
Brand name of bentonite				
Number of pounds of bentonite per 100 gallons	Water Well Contractor's Certification:			
of water lbs./100 gals.	This well was drilled under my jurisd true to the best of my knowledge and bel	iction ar lief.	nd this r	report is
Was a drive shoe used? 🖾 Yes 📋 No Plugs Size: location ft.	Name M.C. Stills			
Did any strata contain unusable water? Yes X No	(Person, firm or corporation)		ype or prin	nt)
Type of water? depth of strata	Address LT LYO S. UTYANd		CAN	ey OF
Method of sealing strata off	[Signed] AC. Strib -			
Was well gravel packed? [] Yes X No Size of gravel:	Water Well Contr	actor)		
Gravel placed from ft. to ft.	Contractor's License No. 222 Date	My SI		, 19,

NOTICE TO WATER WELL CONTRACTOR The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT.	L REPORT CLAC OREGON 012964Well No.	40/1E-	-7ca
SALEM, OREGON 97310 [] Within 30 days from the date of well completion. [] 1980 Do not write al	e or print) pove this line) - State Permit I	₹o	
WATER RESOURCES DEPT	(10) LOCATION OF WELL		
(1) OWNER: SALEM, OREGON	(10) LOCATION OF WELL:		
Name GLEN Arneson	County Clackamas Driller's well n	umber D295	-80
Address 1445 SE 1St ave	NE 34 SW 34 Section 7 T. 4S	R. 1E	W.M.
Canby, Oregon 97013	Bearing and distance from section or subdivis	ion corner	
(2) TYPE OF WORK (check):	Barlow-Monitor r	d.	
New Well 📉 Deepening 🗌 Reconditioning 🔲 Abandon 🗌	,1 		
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL. Completed v	roll	
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(II) WATER ERVER. Completed V	6 6	
Potenty XX Driven	Depth at which water was first found	<u> </u>	$\frac{\text{ft.}}{5/16/9}$
Domestic Industrial Municipal	Static level 55 ft. below land	surface. Date	2/10/9
D. Bored D Irrigations Test Well D Other	Artesian pressure lbs. per squa	re inch. Date	
(5) CASING INSTALLED: Threaded Welded	(12) WELL LOG: Diameter of well	below casing .	8
$\underline{8}$ "Diam. from U ft. to $\underline{145}$ ft. Gage $\underline{250}$	Depth drilled 200 ft. Depth of comp	leted well 2	000 ft.
16 Diam. from 140 ft. to 195 ft. Gage 188	Termedian Derivite internet		
"Diam. from ft. to ft. Gage	and show thickness and nature of each strate	and structure am and aquife	of materials;
	with at least one entry for each change of form:	ation. Report ea	ich change in
(6) PERFORATIONS: Perforated? Yes XX No.	position of Static Water Level and indicate pri	ncipal water-be	earing strata.
Type of perforator used	MATERIAL	From To	o SWL
Size of perforations	topsoil	0 3	
8^{\parallel} to Jone from elot 20 ft to $14\overline{3}$ 152 ft	sand brown	3 28	;
8" tol. slot 20 " to 158-163 "	clay brown sandsy	28 36	
$8^{"}$ to 1.00 elot 20 \times 170-175 \times	clay blue sandy	36 56	
	sand black w/blue clay	56 75	
(7) SCREENS: Well careon installed?	gravel w/gand-blue w/b		
Manufacturaria Nama Cook	graver w/sand-brue w/b	75 79	·····
Tune Staniless steel Model No.	Sand Drown	19 82	
Noter No. 180	sand&graver cemented br	82 84	<u>.</u>
Diam. 8" Slot size 25 Set from 180 # to 185	sand & gravel blck	84 87	
	<u>sand & gravel</u>	8/ 91	·
(8) WELL TESTS: Drawdown is amount water level is	sand fine & gravel	<u> </u>	6
Iowered below static level	<u>Clay grey sandy</u>	106 11	0
a pump test made? Yes D No If yes, by whom? Aqua Pump	<u>sand coarse & gravel</u>	<u> 110 11</u>	5
Yield: 190 gal./min. with 67 ft. drawdown after 10 hrs.	clay_gray	115 14	.7
<u>"</u> "	sand black coarse	147 15	2
H W N	clay_gray	152 15	.8.
Man toot da lania mille it duamana shan 1 -	sand stone	158 16	2
gai./min. with it. drawdown after hrs.	clay_blae	162 17	2
Artesian flow g.p.m.	sand black water/bear	<u> 172 18</u>	으
Temperature of water Depth artesian flow encountered	Work started 4/30/80 19 Complete	red 5/15/	80 19
	Date well drilling machine moved off of well	5/16/8	0 19
(9) CONSTRUCTION:			
Well seal-Material used	Drilling Machine Operator's Certification	:	
Well sealed from land surface to 12	Materials used and information reported	above are f	pervision.
Diameter of well bore to bottom of stal in.	best knowledge and belief	ubove une i	aue to my
Diameter of well bore below seal in.	[Signed] Mallar/acc	Date 5/16	/8019
Number of sacks of cement used in well sealsacks	(Drilling Machine Operator)	EOE	,
How was cement grout placed?	Drilling Machine Operator's License No.	595	
7 	Water Wall Contact in a state		
pressurescgrouted	water well Contractor's Certification:		
่ส่น รู้รู้รู้ระวาะ การการการการการการการการการการการการการก	This well was drilled under my jurisd	iction and thi	is report is
Was a drive shoe used? The I No Plugs Size: location ft.	C C M The 11	ner.	
Did any strata contain unusable water? 🗌 Yes 🖬 🐝	(Person, firm or corporation)	x supply	nrint)
Type of water?	Address \$399 S E Walnut Cant	or or or or	on 9701
Nothed of solidar state of	1. 2 -4.		
method of sealing strata off	[Signed] Lalte Macl		
Was well gravel packed? [] Yes No Size of gravel:	(Water Well Com	factor)	
Gravel placed from ft. to ft.	Contractor's License No 497 Date	M 5/16	<u>/80 19</u>
USE ADDITIONAL SH	EETS IF NECESSARY)		SP*45656-119
	· · · · · · · · · · · · · · · · · · ·		4

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report
are to be filed with the
matter and the second sec
WATER RESOURCES DEPARTMENT

МТ, SALEM, OREGON 97310 within 30 days from the date لم

. . .

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WATER WELL REPORT

STATE OF OREGON

(Please type or print)

.

,				1	-	-
State:	Well	No.	751	1E	~	1 ca

SP*45656-119

State Permit No.

of well completion. (Do not writ	e above this line)	
(1) OWNER:	(10) LOCATION OF WEIL:	—
Name Glen Arneson page 2	County Driller's well number	
Address 1445 S E 1st	NE 1/ SW 1/ Section 7 T 4S B 1E W	M
Canby, Oregon	Bearing and distance from section or subdivision corner	
(2) TYPE OF WORK (check):	- bearing and distance from section of subdivision corner	—
New Well Deepening Reconditioning Abandon		
If abandonment, describe material and procedure in Item 12.		_
(3) TYPE OF WELL: (4) PROPOSED USE (check):	- (11) WALER LEVEL: Completed well.	
Rotary D Driven D	Depth at which water was first found	<u>ft.</u>
Domestic [] Industrial [] Municipal	Static level <u>tt. below land surface. Date</u>	
Bored Irrigation Test well Other	L Artesian pressure lbs. per square inch. Date	
(5) CASING INSTALLED:	(12) WELL LOG: Dispeter of well below cosing	
"Diam. from	Donth drilled ft Denth of completed well	
Diam. from ft. to ft. Gage	Termettion: Describe color tenture arein also and structure of material	<u> </u>
"Diam. from ft. to ft. Gage	and show thickness and nature of each stratum and aquifer penetrat	ais; ted,
	with at least one entry for each change of formation. Report each change	e in
(0) FERFORATIONS: Perforated? [] Yes [] No.	position of otatic water merer and indicate principal water-bearing stra	
Type of perforator used	MATERIAL From To SWL	نه
Size of perforations in. by in.	_ <u>Clay blue/gray</u> 180 182	
	ft. Sand Dlack 182 185	
	ft. Clay gray blue sticky 185 195	
perforations from	<u>n sand black water 195 200 </u>	
(7) SCREENS: Well screen installed? Yes No	· · · · · · · · · · · · · · · · · · ·	—
Manufacturer's Name	·····	—
Type Model No.		
Diam Slot size Set from ft. to	ft.	—
Diam Slot size Set from ft. to	ft. PAGE 2	
(8) WELL TESTS: Drawdown is amount water level is lowered below static level		
a pump test made? 🗌 Yes 📋 No If yes, by whom?		
Yield: gal./min. with ft. drawdown after h	rs	
<i>n n n</i>	WATER RESOURCES DEPT	
" "	SALEM. ORFGON	
Allow fort and min with the drawdown often by		
ter test gal, mill, with it. diawdown after in	<u>18.</u>	
Artesian flow g.p.m.		
Temperature of water Depth artesian flow encountered	ft. Work started 19 Completed 19	
(9) CONSTRUCTION:	Date well drilling machine moved off of well 19	
Well seal-Material used	Drilling Machine Operator's Certification:	
Well sealed from land surface to	This well was constructed under my direct supervisio	on.
Diameter of well bore to bottom of seal	best knowledge and below	my
Diameter of well bore below seal in.	[Signed] (1/1/1/ Man) Date 5/16/800	
Number of sacks of cement used in well seal sac	(Drilling Machine (perator)	
How was cement grout placed?	Drilling Machine Operator's License No.	
-		
	water wen Contractor's Certification:	
	This well was arilled under my jurisdiction and this report true to the best of my knowledge and belief.	; 18
Was a drive shoe used? [] Yes [] No Plugs Size: location	t. Name S&M Drilling & Supply	
Did any strata contain unusable water? 📋 Yes 📃 No	(Person, firm or corporation) (Type or print)	
Type of water? depth of strata	_ Address 399 SE Walnut Canby, Oregon	
Method of sealing strata off	ISimul (1/1/12/Mari	
Was well gravel packed? [] Yes [] No Size of gravel:	[DIgned]	
Gravel placed from ft. to ft.	Contractor's License No. $\frac{497}{\text{Date}}$ Date $\frac{5/16/80}{19}$, 19.	

STATE ENGINEER, SALEM, OREGON 92310 1 V 975 (Please type	or print HIN 1 0 1974	N	CL/	٩ð
of well completion. STATE ENGINEER Do not write ab	ove this line)	NO 1 (nea	3
SALEM, OREGON		<u> </u>	306	¥
(1) OWNER:	(10) LOCATION OF WELL!			
Name Bruce Bergwin	County CLACKAMAS Driller's well	number		
Address 25311 S. Barlow Rd. Canby, Oregon	<u> </u>	R. 7	⊾ <i>LıE</i>	W.1
	Bearing and distance from section or subdiv	ision corne	r	
(2) TYPE OF WORK (check):		-		
New Well 💆 Deepening 🗌 Reconditioning 🗌 Abandon 🗌 If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed	well.		
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found			10
Rotary 🗋 Driven 🗅 Domestic 🕅 Industrial 🗔 Municipal 🗔	Static level 3 ft below lan	1 surface	Date 6	-7-7
Cable D Jetted D Dug D Bored D Irrigation Test Well Other	Artesian pressure Ibs. per squ	are inch.	Date 0	
CASING INSTALLED: Threaded Welded	(12) WELL LOG: Diameter of well	l below ca	singf	5.11
<u>6</u> "Diam. from <u>0</u> ft. to <u>44</u> ft. Gage <u>250</u>	Depth drilled A 5 ft. Depth of con	pleted wel	1 45	1
The first fi	Formation: Describe color, texture, grain size	e and strue	ture of r	naterial
" Diam. fromft. toft. Gage	and show thickness and nature of each stra	tum and a	quifer pe	netrate
PERFORATIONS: Destantiate Time	with at least one entry for each change of form position of Static Water Level and indicate p	nation. Rep incipal wa	ort each ter-beari	change ng strat
Type Therefore the set	MATERIAL	From	To	SM1
Size of nerforations in hr in	Coil brown		~	
size of periorations III, by III.	Clay grow		6	
perforations from	(travel grev	6	30	
perforations from	Granel brown	30	10	
The second	Gravel black	40	45	ব
(7) SCREENS: Well screen installed? 🗆 Yes 🕱 No		<u> </u>		
Manufacturer's Name	·•			
Type				
Diam Slot size Set from ft. to ft.				
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 [X No_11 yes, by whom?				
Yield: gal./min. with ft. drawdown after hrs.				
<u> </u>				
<u> </u>				
Bailer test 40 gal./min. with 5 ft. drawdown after 1 hrs.				
Artesian flow g.p.m.				
aperature of water 56 Depth artesian flow encountered ft.	Work started 6-5 19 7 / Compl	eted 6-	7_	19
(0) CONSTRUCTION.	Date well drilling machine moved off of well	6-	7	19
(9) CONSTRUCTION:	Dutting Machine Operations Controls	`		
Well seal-Material used Een tonil te	This well was constructed under m	n; v direci	super	visio
Well sealed from land surface to 20 ft.	Materials used and information reported	d above	are true	e to m
Diameter of well have believed a seal in.	Dest know page and beller.	-	C	
Diameter of well bore below seal	[Signed] [.k.) [.k.] (Drilling Machine Operator)	🛃 Date	.b . 13	, 19'7
Number of sacks of cement used in well seal Sacks	Drilling Machine Operator's License No		5	***********
Brand name of bentonite yellowstone				
Number of pounds of bentonite per 100 gallons	Water Well Contractor's Certification:			
of water	This well was drilled under my juris	diction a	nd this r	report
Was a drive shoe used? No Yes I No Plugs Size: location ft.	Name A C Stites	cuel.		
Did any strata contain unusable water? 🗍 Yes 🗶 No	28 Bergen, firm of Foregration)	d (T	ype or pri	nt)
	Address	u. 707.2		
Type of water? depth of strata		∦°∪⊥) ~~		
Type of water? depth of strata Method of sealing strata off		7		
Type of water? depth of strata Method of sealing strata off Image: Strate off strate off strate off strate off strate off strate of str	[Signed]	ntractor)	₩ # + + LB ALLS KH + +	
Type of water? depth of strata Method of sealing strata off	[Signed]	ntractor) 6-7]	.3	197

OWNER: Willis Yoder LOCATION OF WELL: Owner's No. 1-2-4 NW SE SW14 NE 14 Sec. 7 T. 4 S., R. 1 W., NW NW.	MAILING ADDRESS	-			-24.04
LOCATION OF WELL: Owner's No. <u>1-2-4</u> NW SE <u>SW14 NE 14 Sec. 7 T. 4 S., R. 1 W.</u>		Route	2, Box18		
Bearing and distance from section or subdivision	CITY ANI STATE: W.M.	D Auro	ra, Oregon		
corner 35 chs. S. and 25.7 chs. W. of NE Cor	ner				
Section 7 41 chs. S. & 38.5 chs. W.					
17.4 chs. S, 61.5 chs. W.					
Altitude at well					
TYPE OF WELL: trench Date Constructed	3				
Depth drilled		Sect	ion		
AQUIFERS:					
AQUIFERS: WATER LEVEL:		r			
AQUIFERS: WATER LEVEL: PUMPING EQUIPMENT: Type <u>Centrifuga1</u> Capacity <u>100 - 200</u> G.P.M.		r r		H.P	.5
AQUIFERS: WATER LEVEL: PUMPING EQUIPMENT: Type <u>Centrifugal</u> Capacity <u>100 - 200</u> G.P.M. WELL TESTS: Drawdown <u>ft. after</u>	hours	r r		H.P	5 G.P.
AQUIFERS: WATER LEVEL: PUMPING EQUIPMENT: Type <u>Centrifuga1</u> Capacity <u>100 - 200</u> G.P.M. WELL TESTS: Drawdown <u>ft. after</u>	hours			H.P	5
AQUIFERS: WATER LEVEL: PUMPING EQUIPMENT: Type <u>Centrifuga1</u> Capacity <u>100 - 200</u> G.P.M. WELL TESTS: Drawdown <u>ft. after</u> Drawdown <u>ft. after</u> USE OF WATER <u>Irrigation</u> SOURCE OF INFORMATION <u>GR-3036</u> DRILLER or DIGGER	hours hours Temp	•F		H.P	G.P. G.P.

NOTICE TO WATER WELL CONTRACTOR The original and first copy of this report are to be	LL REPORT CEIVED	والمراد	e _ 1	* ^
filed with the ULATEOU STATE OF STATE ENGINEER, SALEM, OREGON 97310 (Please type within 30 days from the date	OREGON UCT 8 1974 State Well No e or print) STATE ENGINEERState Permit	45 [1	<u>6 - T</u>	
or went completion. G700 , (bo not write a	SALEM. OREGON			
(1) OWNER:	(10) LOCATION OF WELL:			
Name WEYERHAEUSER CO	County CLACK Driller's well	number		
Address 505 N. PEARL ST.	VF 1 SWY Section 7 T 4	S.R. /	F	W.M.
CENTRALIA WASH. 98531	Bearing and distance from section or subdivi	sion corne		
(2) TYPE OF WORK (check):	Bearing and distance from section of subdivi	sion come		
New Well M Deepening Abandon				
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL Completed			
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(11) WATER LEVEL: Completed	wen.		64
	Depth at which water was first found	06		<u> </u>
Cable Image: Cable of the sector of the se	Static level > 6 ft. below land Artesian pressure lbs. per squ	surface.	Date 7	<u>' 9/14</u>
CASING INSTALLED.				
Threaded Welded X	(12) WELL LOG: Diameter of well	below ca	sing	
12 "Diam from ft. to ft. Gage	Depth drilled 140 ft. Depth of com	pleted wel	13	/ft.
12 " Diam from 125 4 to 121 4 and 324	Formation: Describe color, texture, grain size	and struc	cture of n	aaterials;
Diam. from	and show thickness and nature of each strat with at least one entry for each change of form	um and a ation <i>Ber</i>	quifer per	netrated,
PERFORATIONS: Perforated? TYes XNo.	position of Static Water Level and indicate pr	incipal wa	ter-bearin	ıg strata.
Type of perforator used	MATERIAL	From	То	SWL
Size of perforations in by in.	TOD South	0	1	
nerforations from ft to ft	SUTY REQUID SAND	1	72	
nerforations from " # to #	SAND AND GROUPI	77	81	
nerforations from the to the ft	SAND GRAVEL AND GAY	- 86	93	
International Active Source So	BLUE CLAY	93	101	
(7) SCREENS: Well screen installed? Yes I No	SAND AND GRAVEL	101	10%	
Manufacturer's Name UOP JOTIN 500	COARSE SAND, FINE GRAVE	2 106	128	
Type JIAINLESS JTEEL Model No.	SILTY CLAY	128	137	
Diam. A Slot size	BLUE CLAY	137	140	
(8) WELL TESTS: Drawdown is amount water level is lowered below static level				
Was a pump test made? X Yes I No If yes, by whom? STRASSER	2	_		
Weld: 300 gal./min. with 42 ft. drawdown after 7 hrs.				
······································				
Doilon tost gol / win with the drawdown offer have	·	┥──		
Baner test gai./min. with it. unawdown after mrs.				
g.p.m.				1
perature of water Depth artesian flow encountered ft.	Work started HUG 29 1974 Comple	ted <u>SC</u>	prz	19/4
(9) CONSTRUCTION:	Date well drilling machine moved off of well	SEL	725	- <u>19</u> 74
Well seal-Material used CEMENT GROUT	Drilling Machine Operator's Certification	1:		•
Well sealed from land surface to 20 ft	This well was constructed under my	y direct	super	vision.
Diameter of well bore to bottom of sealin.	best knowledge and belief.	1 above	are true	to my
Diameter of well bore below seal in.	[Signed] Ala ulman	Date	r 7	1074
Number of sacks of cement used in well seal	(Drilling Machine Operator)		7	, <i></i>
Number of sacks of bentonite used in well seal sacks	Drilling Machine Operator's License No.	/		
Brand name of bentonite	Water Well Contractor's Configuration			
Number of pounds of bentonite per 100 gallons	This wall www.deilleder	31 - 41		
of water Ibs./100 gals.	true to the best of my knowledge and be	lief.	ia this r	eport is
Was a drive shoe used? X Yes [] No Plug:	Name R. STRASSER DR	JUND	4 G	
Did any strata contain unusable water?	(Person, firm or corporation)	~ つ ^(Ŧ)	pe or prin	it)
Type of water? depth of strata	Address 8110 JE JUNSET LAND	FOR	TLAN) <i>OP</i>
Method of sealing strata off	[Signed] & Clert & the	seo		
Crowal nanad from 102 at 121 44	Contractor's License No IN D-4	n-	7	70
VIAVLE PLAUCE LLUII made The Toman II. 10 march the Annum LL	PERMA NE NEGRAS	<u>/</u>		., 1947
(USE ADDITIONAL SI	ILLIS IF NECESSARY)		SP	*45656-119

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NOTICE TO WATER WELL CONTRACTOR	12981 beaten	· thank	s Milla
of this report are to be	L REPORT	11-lien	
filed with the CLAC STATE OF	OREGON FEBL01975state Well No. 2	TS/1=-1	<u>C0</u>
STATE ENGINEER, SALEM, OREGON 9734) 2981 (Please type	or print) STATE ENGINEED		
within 30 days from the date (Bo not write ab	ove this line)SALEM OPECON)	
	OKEGON		
(1) OWNER:	(10) LOCATION OF WELL:		
ILLEVERHAEUSER CO	County C. Acie Driller's well nu	mber 54	91
Name WEIGRATICULA CO	Aula Shi	n (1 K W)	117 3.6
Address P.C., DOX 205 AURORA, URE.	A Section A T.	R. (14-10	W.191.
(1) TIMPE OF WORK (shalt): #JELL NO 4	Bearing and distance from section or subdivision	on comer	
(2) TIPE OF WORK (check): \mathcal{W}	NE SE		
New Well 🕺 Deepening 🗌 Reconditioning 🗋 Abandon 🗋 🔪		-	<u> </u>
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed w	ell.	
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found	92	ft.
Rotary Driven D	Static lovel field the below land a	nutrice Date	Tailos
Cable X Jetted D Domestic D Industrial C Multicipal	Static level 07 It. below faile s	unace. Date /	<u> </u>
Dug Dug Bored L Infigation A rest wen D Other	Artesian pressure lbs. per squar	e inch. Date	
CASING INSTALLED: Threaded I welded N			
- Ila " Diam from the to 92 th Gara 3/2	(12) WELL LOG: Diameter of well b	elow casing	
12 min from 41 ft to 94 ft Gage 250	Depth drilled 735 ft. Depth of comple	eted well	<u>25 #</u>
12 * Diam from 120 # to 125 # Gage , 250	Formation: Describe color, texture, grain size a	ind structure of	materials;
maker Diditi Livit underschlass in or anderschlasse	with at least one entry for each change of format	tion. Report each	h change in
PERFORATIONS: Perforated? Ves No.	position of Static Water Level and indicate prin	cipal water-bear	ring strata.
Type of perforator used	MATERIAL	From To	SWL
Pire of nonformations in hy in	TAR SOM	0 7	+
bize of periorations in, by in.	Berthe Sauce Car	2 75	
perforations from	BUR SAUDY CLAY	75 82	
perforations from	Sour Canut and Com	87 99	
perforations from	LOOSE SANDAND COALD	an ou	
(7) SCREENS: Well screen installed? X Yes	PLAN AUD ADJERS AG	76 11	·
Manufacturer's Name UOP JOHNSON	SALD AND GANK	au ma	
Type STAINLESS STEEL Model NO.	BUS CIAU	173 120	·
Diam 12 Slot size 60 Set from 94 ft. to 120 ft.		147 135	
Diam. Slot size			+
	· · · · ·		
(8) WELL TESTS: Drawdown is amount water level is lowered below static level			
Was a nump test made? Yes I No If yes, by whom? STRASSER			
Vield: 300 gel (min with 36 th drawdown after 8 hrs.			
	÷.		
	1		
Bailer test gal./min. with ft. drawdown after hrs.	and a state of the state of the		
Artesian flow g.p.m.			
more perature of water 54 Depth artesian flow encountered ft.	Work started TREC 30 1974 Complete	ed JAN 3	0 1975
	Date well drilling machine moved off of well	TER 3	1075
(9) CONSTRUCTION:		TED J	
Well seal-Material used CEMENT CTROUT	Drilling Machine Operator's Certification:		
Well sealed from land surface to20ft,	This well was constructed under my Materials used and information reported	direct supe	ervision.
Diameter of well bore to bottom of seal	best knowledge and belief.		
Diameter of well bore below seal in	[Signed] MMC Anuts	Date TEB	5 1975
Number of sacks of cement used in well and sacks	(Drilling Machine Operator)	175	
Number of sacks of bentonite used in well seal sacks	Drilling Machine Operator's License No.	120	
Brand name of bentonite	Water Well Contractor's Continue		
Number of pounds of bentonite per 10 gallons			
of water Ibs./100 gals.	true to the best of my knowledge and bel	cuon and this ief.	report is
Was a drive shoe used? X Yes [] No Plus,	Name RJSTRASSER Den	when Co	
Did any strata contain unusable water? TYes No	(Person, firm or corporation)	(Type or p	rint)
Type of water? depth of strata	Address 8110 SE SUNSET LANE	HORT AND	ORE
Method of sealing strats off	Rhoh Peta		
The well served particular Mars - Sine of serveral. The multiple	[Signed]	Actor)	
Was well gravel packedr of tes UNO Dize of gravel	Contractor's Lissen 31-	FER C	75
Gravel placed irom	Contractor's incense No Z Date		
A (USE ADDITIONAL SI	IERTS IF NECESSARY)		SP*45656-119

NOTICE TO WATER WELL CONTRACTOR The original and first copy	REGEIVED			
of this report are to be	FFR 1 0 1075	Ache	-7-	.h
STATE ENCINEER SALEN OPECON STATE OF	OREGON ILDIVIS/ State Well No.	1912	- /_	<u> </u>
within 30 days from the date	or print) SIATE ENGINEERate Permit No	D		
of well completion.	ove this medsalem, OREGON			
(1) OWNER:	(10) LOCATION OF WELL:			
Nome INFYERHAFUSER CO	County CLACK Driller's well nu	mber	549	71
Address P.O. Box 235 AURORA ORE.	NW 4 SW 4 Section 7 T. 45	R. / É	<u></u>	W.M.
	Bearing and distance from section or subdivision	on corner		
(2) TYPE OF WORK (check): WELL NO. 4	Dearing and distance from Section of Subdivision			
New Well 🗶 Deepening 🗆 Reconditioning 🗅 Abandon 🗆				
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed w	ell.		
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found	92		ft.
Rotary Driven Domestic Domestic Municipal	Static level 64 ft. below land s	urface. D	ate /	23/75
Cable X Jetted Dug Bored I Irrigation X Test Well Other	Artestan pressure	e inch. T	ate	
		e men. L		
CASING INSTALLED: Threaded [] Welded	(12) WELL LOG: Diameter of well b	elow casi	ng	
ft. to ft. Gage	Depth drilled /35 ft. Depth of comple	eted well	12	. 5 ft.
12 " Diam. from	Formation: Describe color, texture, grain size a	nd struct	ire of n	naterials;
Diam. from	and show thickness and nature of each stratum with at least one entry for each change of format	n and aqu tion. <i>Revo</i>	uifer pe rt each c	netrated,
PERFORATIONS: Perforated? Ves XNo.	position of Static Water Level and indicate prin	cipal wate	r-bearin	ng strata.
Type of perforator used	MATERIAL	From	То	SWL
Size of perforations in. by in.	TOP SOIL	0	2	
perforations from ft. to ft.	BROWN SANDY CLAY	ス	75	
ft. to ft.	BLUE SANDY CLAY	75	82	
	_ SAND GRAVEL AND CLAY	82	92	
(7) SCREENS: Well server installed Vyos II No.	LOOSE SAND AND GRAVEL	92	94	
Manufacturer's Name UOP JOHNSON	CLAP AND LAYERS OF	0,1	An 19	
Type STAINLESS STEEL Model No.	BUDE CLAU	74	12.3	
Diam. 12. Slot size 60 Set from 94 st. to 120 st.		123	3.5	
Diam Slot size Set from ft. to ft.				
(8) WELL TESTS: Drawdown is amount water level is				
Was a pump test made? NYes \Box No If yes, by whom? STRASSER	· · · · · · · · · · · · · · · · · · ·			
Vield: 300 gal/min with 36 ft drawdown after 8 hrs.				
	· · · · · · · · · · · · · · · · · · ·			
Bailer test gal/min with ft drawdown after bre				
Artesian flow g n m				
anarsture of water W Benth artestan flow encountered #		. / .	1 20	
perature of water 57 Depart at the and the encountered and the	Work started	Teo	<u> </u>	19/3
(9) CONSTRUCTION:		TEB	<u> </u>	194 3
Well seal-Material used <u>CEMENT CTROUT</u>	Drilling Machine Operator's Certification:	43		
Well sealed from land surface to	Materials used and information reported	above a	super re true	to my
Diameter of well bore to bottom of seal	best knowledge and helief.			
Diameter of well bore below seal	[Signed] (Drilling Machine Operator)	Date T.F.	<u>Ø S</u>	, 19
Number of sacks of bentonite used in well seal	Drilling Machine Operator's License No.	175		
Brand name of bentonite		_		
Number of pounds of bentonite per 10 gallons	water Well Contractor's Certification:			
of water lbs./100 gals.	This well was drilled under my jurisdic true to the best of my knowledge and beli	ction and ef.	this r	eport is
Was a drive shoe used? X Yes D No Plusi	Name RJ STRASSER DERLA	wer C	5	
Did any strata contain unusable water? TYes X No	(Person, firm or corporation)	T (Typ	e or prin	nt)
Type of water? depth of strata	Address & 110 SE SUNSET LANE	TORTU	and a	OKE
Method of sealing strata off				
	[Signed] abert I has	10x		
Was well gravel packed? X Yes I No Size of gravel: 14 MINUS	[Signed] abert Thay (Water Well Contra	actor)		
Was well gravel packed? X Yes I No Size of gravel: 14411WUS Gravel placed from 94 tt. to 120 tt.	[Signed] (Water Well Contra Contractor's License No	TEB	5	, 19 ⁷⁵
Was well gravel packed? X Yes \Box No Size of gravel: $\frac{1441005}{441005}$ Gravel placed from $\frac{94}{4}$ ft. to $\frac{120}{5}$ ft. (USE ADDITIONAL SECTIONAL SECTIO	[Signed] (Water Well Contra (Water Well Contra Contractor's License No	TEB	5 8F	., <u>19</u>

NOTICE TO WATER WELL CONTRACTOR The original and first copy of this report are to be filed with the STATE OF	OBEGON DEC 1 0 1974 State Well No.	45/1E-7	دد
STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.	SALEM, OREGON	• 0	
(1) OWNER:	(10) LOCATION OF WELL		
HEVERHAFUSED CO	County C/ Ch C K Drillor's well no	mahan 53	187
Name WLIERCHIEGORY CO	County CLACK, Driner's wen nu		
Address JUS N. TEARLINT.	JW 1/4 @W 1/4 Section / T. 4 @	R. / C	<u>W.M.</u>
(2) TYPE OF WORK (check):	Bearing and distance from section or subdivision	on corner	
New Well Deepening D Beconditioning D Abandon D		···· * ·	······································
If abandonment, describe material and procedure in Item 12.			
(2) EVER OF WELL, (1) BROBOSED USE (-11).	(11) WATER LEVEL: Completed w	ell.	
(3) TYPE OF WELL: (4) PROPOSED USE (cneck):	Depth at which water was first found		ft.
Cable Z Jetted D Domestic Z Industrial Municipal	Static level 64 ft. below land s	urface. Date //	1/27/14
Dug 🔲 Bored 🔲 Irrigation 🗋 Test Well 🗋 Other 🗌	Artesian pressure Ibs. per squar	e inch. Date	F.4
CASING INSTALLED: Threaded \Box Welded X	(12) WELL LOG: Diameter of well b	elow casing	
7 " Diam. from 10.0 ft. to 109 ft. Gage -188	Depth drilled 728 ft. Depth of compl	eted well / 2	27 ft.
	Formation: Describe color, texture, grain size a and show thickness and nature of each stratur with at least one entry for each change of format position of Static Water Level and indicate prin	ind structure of a n and aquifer pe tion. Report each cipal water-bear	materials; enetrated, change in ing strata.
Type of perforator used	MATERIAI.	From To	SWT.
Size of performance in hy in	SAUD SUT AND CON	A 70	
Size of period atoms in by in the second state of the second state	SAND AND SUM	70 17	<u> </u>
perforations from	BLUE ALOY AND SUT		
perforations from	CPANE, SANDEND CON	00 07	
periorations from IL to IL.	CIAY	87 88	· · ·
(7) SCREENS: Well screen installed? XYes I No	SLIGHTLY CEMENTED		·
Manufacturer's Name UOP JOHNSON	SAND AND GRAVEL	88 93	
Type STAINLESS STEEL Model No.	LOOSE GRAVEL	93 94	
Diam	SLAY AND GZAVEL	94 95	
Diam	BLUE CLAY	95 99	
(8) WELL TESTS. Drawdown is amount water level is	LOOSE SAND AND GRAVEL	99 102	
lowered below static level	SAND, CTRAJEL AND CLAY	102 108	
Was a pump test made? X Yes D No If yes, by whom? MASSER.	LOOSE SAND AND GRAVEL	108 125	ſ
Yield: //O gal./min. with /8 ft. drawdown after 5 hrs.	CLAT AND GRAVEL	127 128	<u> </u>
Bailer test gal./min. with ft. drawdown after hrs.			
Artesian flow g.p.m.		_	
perature of water Depth artesian flow encountered ft.	Work started NOI 18_1974 Complete	a Nov 2	9 19 74
(9) CONSTRUCTION:	Date well drilling machine moved off of well	Nov 3	<u>9 1974</u>
Wall seal-Material Used CEMENT GROUT	Drilling Machine Operator's Certification:		
Well sealed from land surface to 30 ft	This well was constructed under my	direct super	rvision.
Diameter of well bore to bottom of seal	best knowledge and belief.	above are tru	e to my
Diameter of well bore below seal in.	[Signed] ORKellen	Date DEC 9	7 174
Number of sacks of cement used in well seal	(Drilling Machine Operator)	270	, LUf
Number of sacks of bentonite used in well seal sacks	Drilling Machine Operator's License No		
Brand name of bentonite	Water Wall Contractor's Carlift and		
Number of pounds of bentonite per 100 gallons	This well we double double to the the	- 4 *	
of water lbs./100 gals.	true to the best of my knowledge and beli	cuon and this i ief.	report is
Was a drive shoe used? XYes 🗆 No Plugs	Name R.J. STRASSER DRI	und (0
Did any strata contain unusable water? 🗍 Yes 🕅 No	(Person, firm or corporation)	(Type-or pri	int)
Type of water? depth of strata	Address 0110 SE JOUSET LI	ANE TOR	TZAD CLE
Method of sealing strata off	[Signed] Kabert I Thank	non	
Was well gravel packed? Ves No Size of gravel:	(Water Well Contra	actor)	
Gravel placed fromft.	Contractor's License No Date	VEC 9	, 19 <i>7.4</i>
(USE ADDITIONAL SH	IEETS IF NECESSARY)	s	P*45658-119

NOTICE TO WATER WELL CONTRACTOR The original and first copy of this report are to be filed with the	L'REPORRECEIVED	45/11	E-7,	dc
STATE ENGINEER, SALEM, OREGON 97510 within 30 days from the date of well completion. STATE OF (Please type (Do not write at	or print) pove this line) STATE ENGINEER Permit N CALEN ORECON	0		
	SALEM. OREGON			
(1) OWNER:	(10) LOCATION OF WELL:	umber	549	12
Address Box 2.35 AURORA ORE,	SW 1/4 SE 1/4 Section 7 T. 45	R. /	<u> </u>	W.M.
	Bearing and distance from section or subdivisi	on corne	r	
(2) TYPE OF WORK (check): $WELL VOS$				<u> </u>
New Well Deepening Reconditioning Abandon I				
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(11) WATER LEVEL: Completed w	ell. Ø /		
Rotary Driven	Depth at which water was first found		D.4. 9	It.
Cable X Jetted Domestic Industrial Municipal Dug Bored Image: Sector	Artesian pressure lbs. per squar	e inch.	Date	74//5
CASING INSTALLED:				
16 "Diam. from ± 1 ft. to 99 ft. Gage $3/2$	(12) WELL LOG: Diameter of well h	below cas	sing	
12 " Diam. from +1 ft. to 101 ft. Gage +2.5D	Depth drilled / 3 4 ft. Depth of compl	eted wel	1/3	2ft.
12-" Diam. from 124 ft. to 132 ft. Gage 1250	and show thickness and nature of each stratum	and struc n and ac	ture of r quifer pe	naterials; enetrated,
PERFORATIONS: Berforstad?	with at least one entry for each change of format position of Static Water Level and indicate prin	tion. Rep cipal wat	ort each (te r-bear in	change in 1g st r ata.
Type of perforator used	MATERIAL	From	То	SWL
Size of perforations in. by in.	BROWN SANDY CLAY	0	40	
	BLUE SILTY CLAY	40	71	
perforations from ftto ft.	BROWN (LAY SOME GRAVEL	71	76	
perforations from ft. to ft.	CEMENTED LTRAVEL	76	96	
(7) SCREENS: Well screen installed? Xyes 🗆 No	GRAVE: RWD SAND	76	127-	
Manufacturer's Name UOP JOHNSON	BLUE CLAY	122	134	
Type JTAINLESS STEEL Model No.				
Diam Slot size Set from ft. to ft. to ft.				
(8) WELL TESTS: Drawdown is amount water level is lowered below static level				
Was a pump test made? X Yes D No If yes, by whom? STRASSER				
Yield: 3/9 gal./min. with 37 ft. drawdown after 8 hrs.	·····			
Poilor test gol /min with ft drawdown often has				
Artesian flow gan m				
Derature of water 57 Depth artesian flow encountered	Work started JAN 2 1975 Complete	Te	R 7	1975
	Date well drilling machine moved off of well	FEO	3 6	1975
(3) CONSTRUCTION:	Drilling Machine Operator's Certification:	///		
Well sealed from land surface to20	This well was constructed under my	direct	super	vision.
Diameter of well bore to bottom of seal	best knowledge and belief	apove	are true	e to my
Diameter of well bore below seal in.	[Signed] My Chulk	Date	2_///	., 19 <i>75</i>
Number of sacks of cement used in well seal sacks	Drilling Machine Operator's License No.	175		
Number of sacks of bentonite used in weil seal				
Number of pounds of bentonite per 100 gallons	Water Well Contractor's Certification:			
of water lbs./100 gals.	This well was drilled under my jurisdi true to the best of my knowledge and bel	ction an ief.	nd this r	eport is
Was a drive shoe used? Yes DNo_Plugs	Name KISTRASSER DRILL	126-	رى	
Twne of water?	Address SIIO SE SUNSET IAM		pe or prin	n) NG OP
Method of sealing strata off	Robert T.T.	/ <u>-</u>		~~~
Was well gravel packed? Do Yes \Box No - Size of gravel: 14 HINUS	[Signed] (Water Well Contr.	actor)	••••••••	
Gravel placed from 101 tt. to 126 ft.	Contractor's License No. 10 Date	FEB.	11	1975
USE ADDITIONAL SH	EETS IF NECESSARY)		SI	2*45656-119
<u>نة</u> بني بني				

NOTICE TO WATER WELL CONTRAC	TOR,
The original and first copy	
of this report are to be	/ 1
filed with the	

01298 WELL REPORT RECEIVED TATE OF OREGON APR 251974 State Well No. 45/1E-7 (Please type or print) STATE FNCINETO not write above the state of the

STATE ENGINEER, SALEM, OREGON	9731
within 30 days from the date	
of well completion.	

(1) OWNER:

(Please type or print) STATE ENGINEERstate Permit No. (Do not write above this line) SALEM. OREGON

(10) LOCATION OF WELL:

Name D. E. Peterson	County Clackamas Driller's well no	<u>19-74</u>
Address Rt. 3 Box 389	NW 1/4 SE 1/4 Section 7 T. 4S	в. 1Е w.m.
Aurora, Orégón <u>97002</u>	Bearing and distance from section or subdivisi	on corner
(2) TYPE OF WORK (check):	There are an area to a second of the second	
New WelkA Deepening T Reconditioning T Abandon T	······································	· · · · · · · · · · · · · · · · · · ·
If abandonment, describe material and procedure in Item 12.		
	(11) WATER LEVEL: Completed w	ell.
(3) TYPE OF WELL: (4) PROPOSED USE (cneck):	Depth at which water was first found	<u>.</u>
Rotary XIX Driven Domestic XIXIndustrial Municipal Cable Image: Cable Image: Cable Image: Cable Image: Cable Image: Cable	Static level 57 ft. below land s	surface. Date 4-17-74
Dug Dored Dirrigation Direct Well Other	Artesian pressure lbs. per squar	e inch. Date
CASING INSTALLED: Threaded Welder	(12) WELL LOG: Diameter of well h	pelow casing 6
Diam. from ft. to ft. Gage25	Depth drilled 108 ft. Depth of compl	eted well 107 ft.
	Townstion, Describe color texture grain size	and atmusture of motorials
"Diam. from ft. to	and show thickness and nature of each stratum	m and aquifer penetrated,
DEDEODATIONG	with at least one entry for each change of forma	tion. Report each change in
7 PERFORATIONS: Perforated XX Yes I No.	position of Static water Lebet and matcale prin	cipal water-bearing strata.
Type of perforator used Mills Knife	MATERIAL	From To SWL
Size of perforations $\frac{1}{4}$ in by $\frac{1}{3}/4$ in.	Sandy soil	0 63
<u>55</u> perforations from <u>96</u> ft. to <u>104</u> ft.	Gravel & sand	63 66
perforations from ft. to ft.	Grev clav & gravel	66 73
perforations from ft. to ft.	Sand & gravel	73 77
	Brown clay *& gravel	27 90
(7) SCREENS: Well screen installed? Ves XVo	Medium brown sand	90 95 57
Manufacturer's Name	Gravel & sand	95 108
Type		
Diam. Slot size Set from ft. to ft.		
Diam		
(0) WITT I INTERIC. Drawdown is amount water level is		
(8) WELL TESTS: Drawdown in Linourity water level	·	
Was a pump test made? I we I No If yes, by whom? driller		
Yield: 60 gal./min. with 43 ft. drawdown after 2 hrs.	-	
50 " 38 " / "		
n an		
Bailer test gal./min. with ft. drawdown after hrs.		
Artesian flow g.p.m.		
perature of water Depth artesian flow encountered ft.	Work started 4-16-74 19 Complete	_{≥d} 4-17 ₁₉ 74
	Date well drilling machine moved off of well	4-17 19 74
Bentonite	Drilling Machine Operator's Certification:	;;;;;;;
well seal-Material used	This well was constructed under my	direct supervision.
well sealed from land surface to ft.	Materials used and information reported	above are true to my
Diameter of well bore to bottom of seat	best knowledge and bener.	
Diameter of well bore below seal	[Signed] (a Machine Operator)	Date 4-19, 1974
Number of sacks of cement used in well seal	Drilling Machine Operator's License No.	
Number of sacks of bentonite used in wen sear sacks		
Brand name of bentonite	Water Well Contractor's Certification:	
Number of pounds of bentonite per 100 gallons 100	This well was drilled under my jurisdi	ction and this report is
or water	true to the best of my knowledge and bel	ief.
was a drive shoe used? Pres Li No Prus Size: location ft.	Name Skyles Drilling and Su	ipply
Did any strata contain unusable water? A res Lrave	(Person, firm or corporation)	(Type or print)
Type of water? depth of strata	Address 1107 FULALIA AVENUE	oregon city
Method of sealing strata off	[Signed] Marine N. S.L.	alles
Was well gravel packed? [] Yes Jyp Size of gravel:	(Water Well Contr	agtor)
Gravel placed from ft. to ft.	Contractor's License No	-1 9 19744



STATE ENGINEER Salem, Oregon	Well Record	STATE WELL NO. 4/1-7Q(1) COUNTY Clackamas APPLICATION NO. GR-749
---------------------------------	-------------	--

OWNER: <u>Courtney G. Pursley</u> LOCATION OF WELL: Owner's No 1	MAILING ADDRESS: CITY AND STATE:	Route 2, Box 30	
SW 1/4 SE 1/4 Sec. 7 T. 4 S., R. 1 Y Bearing and distance from section or subdivision corner 2400' W. & 475' N. from SE cor. Sec	., W.M. 2•7		
Altitude at well <u>155' Interpolated</u>		Q(1)	
TYPE OF WELL: Drilled Date Constructed Js Depth drilled 118' Depth cased 118'	an 150. 31	Section7]

CASING RECORD:

8 inch

FINISH:

4	rows	of	slots	from	75 '	to	117'
---	------	----	-------	------	-------------	----	------

AQUIFERS:

WATER LEVEL:

56'

PUMPING EQUIPMENT: Type U.S. Mtrs. Pe Capacity	erless turbine 5 in.	H.P	10
WELL TESTS: Drawdown	_ hours	175	G.P.M.
Drawdown ft. after	_ hours		G.P.M.
USE OF WATER Irrigation SOURCE OF INFORMATION GR-749	- Temp °F	,	19
DRILLER or DIGGER John Beck Canby ADDITIONAL DATA: Log Yes. Water Level Measurements	Chemical Analysis	Aquifer Test	
REMARKS:			

STATE ENGINEER

 \mathbf{i}

Salem, Oregon-

State Well No. 4/1-70(1) County_____Clackamas

Application No. GR-749

Well Log

wner:	Courtney J. Pursley	क्ष र्वविद्या ंग्रीयान् वित्यविद्यों न्यान्वविद्यान् स्वित्यविद्यान् व्याप्त्र स्वयन्त्र न्यान्व न्यान्व स्वयन्त् इत्योद्योय स्वत्यविद्यों वित्र संवत् = व्यविद्योत्स्यान् स्वत्यां स्वयन्त्र स्वयन्त्र स्वयन्त्र स्वयन्त्र स्वयन्	Owner's No.	#1	
riller:	John Beck, Canby	Date Drilled January 1950			
	CHARACTER OF MATERIAL	(Feet belo	w land surface)	Thicknes	
		From	To	(feet)	
Sand and silt	- 10 00 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	0	56	56	
Sand and grave	l(brown)	56	68	12	
Cement gravel		68	105	37	
Blue clay		105	112	7	
Sand and grave	1	112	118	6	
· · · · · ·					
		1/1/			
L					
1					
2.1					
<u>،</u> ۳۵	I I J M A A A A A A A A A A A A A A A A A A	T ALL AND THE CONTRACTOR			
			2 1020 2		
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1075					
g					

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CLAC			
AIDER	4,	171	A(n)
File Original and	LL REPORT State Well No.	1 11	
STATE ENGINEER, SALEM, OREGON WEODTR STATE OF	F OREGON G1854 State Permit No. Lico	ense #	58
(1) OWNER:	(11) WELL, TESTS: Drawdown is amount	water leve	l is
Name froukly note	Was a pump test made? X Yes Who	vel n? -	
Address	Yield: /20 gal./min. with 20 ft. drawdow	n after	/ hrs.
	······································		**
(2) LOCATION OF WELL:	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··		**
County (lacksmac Owner's number, if any-	Bailer test gal./min. with ft. drawdow	n after	hrs.
NE X NE 1/4 Section T. R. W.M.	Artesian flow g.p.m. Date Temperature of water Was a chemical analysis m.	V D Sabe	
Bearing and distance from section or subdivision corner			
16 ch. 5 4 14 ch W trom NE	(12) WELL LOG: Diameter of well		inches.
_ CONNER SECTION 1,145 KIL	Depth drilled 6 5 ft. Depth of completed w	ell 62	<u>⊅ft.</u>
	Formation: Describe by color, character, size of materia show thickness of aquifers and the kind and nature of	ıl and stru the materi	cture, and ial in each
	stratum penetrated, with at least one entry for each c	hange of t	formation.
	MATERIAL	FROM	то г
(3) TITE UF WURK (CRECK):	black top soil	5	<u> </u>
If abandonment, describe material and procedure in Item 11.	sand	8	11
	large gravel	11	15 .
(F) PROPOSED USE (check): (5) TYPE OF WELL:	clay	15	18
Domestic 📋 Industrial 🗋 Municipal 📋 Rotary 📋 Driven 📋	pea gravel	18	20
Irrigation X Test Well D Other Dug Dug Bored	brownish clay		28
(6) CASING INSTALLED: Threaded D Welded	brown sand	28	55
10 " Diam. from 0 ft. to 65 ft. Gage 16	prown sandstone	<u> </u>	60
"Diam. from ft. to ft. Gage	heavy black sand	68	65
(7) PERFORATIONS: Perforated? [] Yes No			
Type of perforator used			
SIZE of perforations in. by in.			
perforations from It. to			
perforations from ft. to ft.			
perforations from			
(8) SCREENS: Well screen installed U Yes M No			
Type Model No.			
Diem. Slot size Set from ft. to ft.			
Slot size Set from ft. to ft.	Work started 7-25 1960 Completed 7	-29	1960
(J) CONSTRUCTION: Was well gravel packed? □ Yes Ⅳ/No Size of gravel:	(10) PUMP: Jacus		
Gravel placed from	Type A A A		1/-
Was a surface seal provided?? X Yes No To what depth? ft.	- contragad	<u>n.r.</u>	
Material used in seal- grant	Well Driller's Statement:		
Did any strata contain unusable water? Li res & No	This well was drilled under my jurisdiction a	ind this	report is
Method of sealing strata off	Ab 1 Minh · A	11	
	NAME (2 rson, firm, or forporation) (Th	pe or prin	sply
(10) WATER LEVELS:	Address Alla Estore 10	un	on
Artesian pressure lbs. per suare inch Date			
interesting property into a party provide and	Driller's well number	1	0
Log Accepted by:	[Signed] Serget. ()	Ser	le
[Signed] Tranh W. Date Mor 2/, 1960	License No	1/30	9.60
	- Date	7	., 195
(USE ADDITIONAL SH	LETS IF NECESSARY)		

STATE ENGINEER Salem, Oregon	(0)2992 We	ll Record	COUN	TY	Clackana
	~ ~ ~ ~		-APPId	EATION-NO	GR-3263
OWNER: Willis Y	oder	MAILING	Route 2,	Box 18	
	T. L. Omnon's No	CITY ANI	Aurora (recon	
LUCATION OF WE	LL: Owner's No	E.		+.9.6YA4	
Sw 1/4		. W ., W.M.			
Bearing and distance	from section or subdivision				
corner 63.4 ch.	W. & 32 ch. S. of N.E.	cor.	1 1 1 2		
Altitude at well					
TYPE OF WELL:	rilled Date Constructed	1952			
Depth drilled 1	25 Depth cased	120	Section	1	
CASING RECORD:		·			
6 inch FINISH:					
6 inch FINISH: AQUIFERS: Sand and	fine gravel				
6 inch FINISH: AQUIFERS: Sand and WATER LEVEL: 60 feet	fine gravel				
6 inch FINISH: AQUIFERS: Sand and WATER LEVEL: 60 feet PUMPING EQUIPM Capacity	fine gravel ENT: Type Q G.P.M.	Turbine		H.J	P. 5
6 inch FINISH: AQUIFERS: Sand and WATER LEVEL: 60 feet PUMPING EQUIPM Capacity	fine gravel ENT: Type Q G.P.M. 5 ft. after	Turbine hours	Pumping	H.J 150	P. 5 G.P.
6 inch FINISH: AQUIFERS: Sand and WATER LEVEL: 60 feet PUMPING EQUIPM Capacity	fine gravel ENT: Type 0 G.P.M. 5 ft. after ft. after	Turbine	Pumping	H.1	P. 5
6 inch FINISH: AQUIFERS: Sand and WATER LEVEL: 60 feet PUMPING EQUIPM Capacity	fine gravel ENT: Type 0G.P.M. 5ft. after ft. after rrigation MATION GR-3035	Turbine	Pumping		P. 5
6 inch FINISH: AQUIFERS: Sand and WATER LEVEL: 60 feet PUMPING EQUIPM Capacity	fine gravel ENT: Type 0G.P.M. 5 ft. after ft. after rrigation CMATION GR-3035 ERJ. T. MA A: er Level Measurements	Turbine 	Pumping °F Oregon	H.)	P. 5
6 inch FINISH: AQUIFERS: Sand and WATER LEVEL: 60 feet PUMPING EQUIPM Capacity	fine gravel ENT: Type	Turbine hours	Pumping °F	H.)	P. 5
6 inch FINISH: AQUIFERS: Sand and WATER LEVEL: 60 feet PUMPING EQUIPM Capacity	fine gravel ENT: Type QG.P.M. 5ft. afterft. after	Turbine 	Pumping °F. 	H.J	P. 5

State Printing 89316

٦ NOTICE TO WATER WELL CONTRACTOR The original and first copy of this report are to be filed with the



The original and first copy of this report are to be filed with the WATER WEL	L REPORT	11.11	، ۱	5 L
WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date	OREGON or print) State Permit N	° 27/15	· · · · · · · · · · · · · · · · · · ·	/ DC
of well completion. (Do not write al	ove this line)			
(1) OWNER:	(10) LOCATION OF WELL:			
Name Kirk Heath	County Clackamas Driller's well nu	umber	131	
Address 290 A S.E. 4th	SW 14 NW 14 Section 7 T. 4-S	в. 1E		
Canby, Or. 97013	Bearing and distance from section or subdivisi	on corper		
(2) TYPE OF WORK (check):	Bearing and distance from section of subdivisi	<u>Jii comei</u>		
New Well 🔯 Deepening 🗋 Reconditioning 🗋 Abandon 🗌				
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL Completed w	الم		
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found	<u>7</u>	5	ft.
Rotary 🔂 Driven 🗋 Domestic 🛛 Industrial 🗋 Municipal 🗌	Static level 63 ft. below land s	urface. I	Date 9-	13-79
ag D Bored D Irrigation D Test Well D Other D	Artesian pressure lbs. per squar	e inch. I	Date	
(5) CASING INSTALLED: Threaded [] Welded []	(12) WELL LOG: Diameter of well h	elow casi	ng 6	11
" Diam. from	Depth drilled 88 ft. Depth of compl	eted well	8	8 ft.
" Diam. from ft. to ft. Gage	Formation: Describe color, texture, grain size a	and struct	ure of n	naterials;
	with at least one entry for each change of format	m and aq tion. Repo	uifer pe rt each (netrated, change in
(6) PERFORATIONS: Perforated? Yes X No.	position of Static Water Level and indicate prin	cipal wate	r-bearin	ıg strata.
e of perforator used	MATERIAL	From	То	SWL
Size of perforations in. by in.	Top soil	0	2	
perforations from ft. to ft.	<u>Clay</u> , brown	2		
	<u>Clay, sand, brown, fine</u>	37	75	
	*Gravel,compact,medium	75	87	
(7) SCREENS: Well screen installed? [] Yes ¥1 No.	<u>Clay, blue</u>	87	88	
Manufacturer's Name		 -		
Type Model No.		├ ├		
Diam Slot size Set from ft. to ft.				
Diam Slot size Set from ft. to ft.				
(8) WELL TESTS: Drawdown is amount water level is lowered below static level				
s a pump test made? 🕅 Yes 🗆 No If yes, by whom? driller				
Yield: 15 gal./min. with 14 ft. drawdown after 2 hrs.				
<u>"</u> """"	<u>SEP2019/9</u>			
" " "	WATER RESOURCES DEPT			<u> </u>
ler test gal./min. with ft. drawdown after hrs.	SALEM. OREGON			
Artesian flow g.p.m.				
Temperature of water Depth artesian flow encountered ft.	Work started 9-12 19 79 Complete	d	 13	 19 79
CONSTRUCTION:	Date well drilling machine moved off of well	9-	14	19 79
Well seal-Material used Cement	Drilling Machine Operator's Certification:			
Well sealed from land surface to <u>19</u> ft.	This well was constructed under my	direct	super	vision.
Diameter of well bore to bottom of seal	best knowladge and belief.	above a	ce true	to my
Diameter of well bore below seal	[Signed] Hoyce Warnwry	Date 9-	14	1979
Number of sacks of cement used in well seal	(Drilling Machine Operator)	00	7	,
How was cement grout placed? Pressure grouted irom	Drilling Machine Operator's License No.			
19 ft. to land surface.	Water Well Contractor's Certification:			
	This well was drilled under my jurisdi	ction and	i this ru	enort is
Was a drive shee wood? A Vas (Not Plust Size: logation #	true to the best of my knowledge and beli	ef.		
was a drive slote used: $r_{f} \neq c_{S} \subset r_{f} \neq c_{S}$	Name <u>B & G Drilling</u>	, 		
Type of water?	Address 10030 S. Mackshing R	d. Ce	nhv	 Or
Mothod of sealing strata off	La de Oli	12		<u> </u>
Was well group hosted? [] Vas [] Na Giza of group!	[Signed] X. UOYQUX Marming	M		
was went gravet packed : res La no size of gravet:	Contractoria License X 62.77 -	actor)		-
Gravel placed from <u>ft.</u>	Contractor's License No	9	-14	<u>., 197</u> 9
USE ADDITIONAL SH	EETS IF NECESSARY)		SP	*45858-11

-7bc

WATER WELL REPORT

STATE OF OREGON

Aurora (2) TYPE OF WORK (check):

TYPE OF WELL:

Driven

Dug

Bored

(5) CASING INSTALLED:

LINER INSTALLED:

(6) PERFORATIONS:

Type of perforator used Size of perforations

(7) SCREENS:

Diam.

Yield:

ī

est

Sailer test

Artesian flow

Type of Water?

Method of sealing strata off

Temperature of water

WELL TESTS:

(9) CONSTRUCTION:

Was a drive shoe used? 🕅 Yes 🗆 No

Did any strata contain unusable water?

Was well gravel packed?
Yes
No

30

Deepening 🗔

BILL GAROUTTE 25373 S. Hwy 99E

If abandonment, describe material and procedure in Item 12.

Domestic

Irrigation

Thermal:

(1) OWNER:

Name

City

Address

New Well

Rotary Air

Rotary Mud

Cable

X



Oregon

Abandon 🗆

🗋 Municipal

Other

Plastic

Welded

Reinjection

in.

П

hrs.

"

hrs.

hrs.

χı

Depth drilled

State

(4) PROPOSED USE (check):

X. Industrial

Test Well

Withdrawal

Ď

Perforated?
Yes XNo

Drawdown is amount water level is lowered

ft. drawdown after 5

ft. drawdown after

Plugs Size: location ft.

Size of gravel:

Depth artesian flow encountered ft.

Special standards: Yes 🗆 No 🕅

ft.

Reconditioning \Box

Steel

...... ft. Gauge

in. by

...... perforations from ft. to ft.

Manufacturer's Name

Was a pump test made? TYes IN No If yes, by whom? Driller gal./min. with 8

g.p.m.

Gravel placed from ft. to_____ ft.

Well screen installed?
Yes X No

below static level

gal./min. with drill stem at

gal./min. with

Well seal-Material usedcement

Well sealed from land surface to ft.

How was cement grout placed?pressure...qrouted.....

Ves No

depth of strata

Threaded

RECEIVED. 4/12-762

OCT 15 1981 State Permit No. WATER PESOURCES DEPT

SALEA. OREGON

(10) LOCATION OF WELL:

County Clackamas		Driller's we	ll number	9-9-8	1
SE 14 NW 14 Se	ection 7	т. 4S	r. 1 E		<u>W.M</u> .
Tax Lot #	Lot	Blk	Sut	division	
Address at well location:					

(11) WATER LEVEL: Completed well.

Depth at which water was first found	64	ft.
Static level 52	ft. below land surface. Date	<u>9-30-</u> 81
Artesian pressure	lbs. per square inch. Date	

(12) WELL LOG: Diameter of well below casing8.

> ft. Depth of completed well 67

ft.

SP*12658-69

Formation: Describe color, texture, grain size and structure of materials; 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 position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	То	SWL
TOP SOLL	0	1	
SAND_GRAY	1	3	
CLAY_GRAY	3	5	
SAND BROWN	5	20	
CLAY BROWN	20	26	
SAND BROWN	26	64	
GRAVEL AND SAND	64	67	52
· · ·			
			· · · · · · · · · · · · · · · · · · ·
Work started 9-9 1981	Completed 9	-29	19 81
Date well drilling machine moved off of well	9	-30	19 81

Drilling Machine Operator's Certification:

This well was constructed under my direct	t supervision. Materials used
and information reported above are true to my	best knowledge and belief.
[Signed] Xthing W. Bime	A. Date 10-1319 81
(Drilling Machine Operator)	
Drilling Machine Operator's License No	0.38

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.

Name	······BARNETT··DRILLING··&··PUMPS·······	
Address .	7901 SE CYPRESS, MILWAUKIE,	(ype or print) DR
[Signed]	May W. Banet	
Contracto	pr's License No. 76 Pater Well Contractor)	, ₁₉ .81

NOTICE TO WATER WELL CONTRACTOR The original and first copy of this report rd with the

WATER RESOURCES DEPARTMENT. SALEM, OREGON 97310 the d

NOTICE TO WATER WELL CONTRACTOR	RECEIVED
ECETeV EnD with the RECFIVER WEL	APR241981 State Way No 4545-7 ba
WATER RESOURCES DEPARTMENT, W I STATE OF (OCT ISOLED OREGON 97310	OREGON State Well No JU
D D Winnin 30 days from the date JANZI [98] (Do not write ab	ove this Adde EM, OREGON State Permit No. CLAC
AL DREGON	0323496
(1) OWNER: SALEM, OREGON	(10) LOCATION OF WELL:
Name Wand Journa Jon 12110	County Co
Address Q F 3 Dog 340 Address Q F 3 Dog 340	Denting and distance from section on subdivision company
(2) TYPE OF WORK (check):	Bearing and distance from section of subdivision corner
New Well Deepening 🗆 Reconditioning 🗌 Abandon 🗌	j
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed well.
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found 145 ft
Rotary Driven D Domestic Industrial Municipal	Static level (1) ft. below land surface. Date 4/30
Dug 🔲 Bored 🗌 Irrigation 🚺 Test Well 🗌 Other 🗌	Artesian pressure Ibs. per square inch. Date
(5) CASING INSTALLED: Threaded □ Welded X " Diam. from	(12) WELL LOG: Diameter of well below casing Depth drilled ft. Depth of completed well ft Formation: Describe color, texture, grain size and structure of materials and show thickness and nature of each structure and aguifar protected
	with at least one entry for each change of formation. Report each change in
(6) PERFORATIONS: Perforated? [] Yes No.	position of Static Water Level and indicate principal water-bearing strata
Type of perforator used	A MATERIAL From To SWL
nerforations from the to the	ALAU (LAUS SANA 23 25
perforations from	Stahlel 6 85 105
perforations from ft. to ft.	Sidy Dand + Clay 105 122
(7) SCREENS: O wer screen installed? K Yes O No	Blown Sand () 22 145
Manufacturer's Name AMMSON	VAN TAN TANA 152 160
Type Anglity Model No.	
Diam Slot size Set from ft to ft to ft	
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	
a pump test made? Yes X No If yes, by whom?	L 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Yield: gal./min. with ft. drawdown after hrs.	DECO > 1980
<i>" " " " " "</i>	WATER RESOURCES DEPT
<u>" </u>	SALEM, OREGON
er test <u></u> gal./min. with <u>4</u> ft. drawdown after <u>hrs.</u>	
Temperature of water Depth artesian flow encountered ft	The second distance of the second sec
Temperature of water Deptil artesian now encountered	Work started 4 - 10 19 Completed 5 - 1900
(9) CONSTRUCTION:	Date wen draining machine moved out of wen 3-3 190
Well seal-Material used	This well was constructed under my direct supervision
Diameter of well bore to bottom of seal	Materials used and information reported above are true to my
Diameter of well bore below seal	[Signed Conad Concertain 12-2 198
Number of sacks of cement used in well seal	(Drilling Machine Operator)
Mild + Milled auton Tanie pupe	Water Well Contractor's Certification:
	This well was drilled under my jurisdiction and this report is
Was a drive shoe used? Yes 🗌 No Plugs Size: location ft. Did any strata contain unusable water? 🗆 Yes 🗹 No	Name <u>CRis-well</u> <u>Person</u> , flym or corporation), <u>CO</u>
	Address 619 S. Rosemout Re West Ram
Type of water? depth of strata	
Type of water? depth of strata Method of sealing strata_off	[Signed & Donald & Constant of March
Type of water? depth of strata Method of sealing strata_off Was well gravel packed? Yes Mo Size of gravel:	[Signed] (Water Well Contractor)

WATER WELL CONTRACTOR anal and first copy of this report are to be filed with the

RESOURCES DEPARTMENT, ALEM, OREGON 97310 thin 30 days from the date of well completion.

WATER WELL REPORT

STATE OF OREGON (Please type or print)

(T. Tease	cype	01	brune)	

(Do not write above this line)

CLAC'
012997 John 46/16-76C
State Permit No.

19 80

19 80

ft. 7-17-80

(1)	OWNED.	
(L)	OWNER:	

(1) OWNER:	(10) LOCATION OF WELL:	
Name Jon Keeler	County Clackamas Driller's well nu	imber 166
Address Rt. 3 Box 345	<u>SW 1/4 NW 1/4 Section</u> 7 T. 4S	<u>R. 1E W.M.</u>
<u>Aurora, Or. 97002</u>	Bearing and distance from section or subdivision	on corner
(2) TYPE OF WORK (check):		
New Well 🛣 Deepening 🗌 Reconditioning 🗋 Abandon 🗌	i	<u>λ</u>
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed w	ell.
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found	`95 ft.
Rotary 🕅 Driven 🗋 Domestic 🕅 Industrial 🗍 Municipal 🗍	Static level 53 ft. below land s	urface. Date 7-17-8
Ceble Jetted Bored Irrigation Test Well Other	Artesian pressure	e inch. Date
(5) CASING INSTALLED: Threaded	(12) WELL LOG: Diameter of well b	elow casing <u>611</u>
<u>6</u> " Diam, from <u>0</u> ft. to <u>100</u> ft. Gage <u>250</u>	Depth drilled 105 ft. Depth of compl	eted well 105 ft.
	Formation: Describe color, texture, grain size a	and structure of materials:
Diam. from ft. to ft. Gage	and show thickness and nature of each stratur	m and aquifer penetrated,
(6) PERFORATIONS: Derforated?	position of Static Water Level and indicate prin	cipal water-bearing strata.
Type of perforator used	MATERIAL	From To SWL
Size of performations in hy in	Man goil	
Size of periorations in by in.	<u> </u>	2 23
perforations from	Clay sand brown fine	23 88
nerforations from the to the ft	Sand, gravel, brown, med.	88 95
	*Gravel. compacted	95 104
(7) SCREENS: Well screen installed? 🗌 Yes 🕱 No	Clay. blue	104 105
Manufacturer's Name		
Type Model No.		
Diam Slot size Set from ft. to ft.		
Diam Slot size Set from ft. to ft.		
(8) WELL TESTS: Drawdown is amount water level is		······································
Was a nume test model II Vas D No 16 vas by where Driller		
the OO was for a first the off of the second	AUCO 1 1980	
with 19 it. drawdown after 2 mrs.		
	WATER RESOURCES DEPT	
	SALEM, OREGON	
Bailer test gal./min. with ft. drawdown after hrs.		
esian flow g.p.m.		
Temperature of water Depth artesian flow encountered ft.	Work started 7-12 19 80 Complete	a <u>7-15</u> 1980
(9) CONSTRUCTION:	Date well drilling machine moved off of well	7-15 19 80
Well seal-Material used Cement	Drilling Machine Operator's Certification:	रे 💡 स्वी 🥡 म्ह
Well sealed from land surface to19ft.	This well was constructed under my	direct supervision.
Diameter of well bore to bottom of seal10 in.	best knowledge and belief.	above are true to my
Diameter of well bore below seal	[Signed] Bob Kurn	Date 7-18 1980
Number of sacks of cement used in well seal	(Drilling Machine Operator)	001
How was cement grout placed? Pressure grouted from	Drilling Machine Operator's License No.	994
19 ft. to land surface	Water Well Contractor's Certification:	,
	This well was drilled under my jurisdi	ction and this report is
Was a drive shoe used? 🕅 Yes 🗋 No Plugs Size: location ft.	Name B&G Drilling	
Did any strata contain unusable water? 🗋 Yes 🕱 No	(Person, firm or corporation)	(Type or print)
Type of water? depth of strata	Address 10030 S. Macksburg R	d. Canby, Or.
Method of sealing strata off	15 mail & Province April	sight
Was well gravel packed? 🗌 Yes 🙀 No Size of gravel:	[Digned] (Water Well Contra	artige
Gravel placed from	Contractor's License No. 637 Date	<u>7-18</u> 10 80

ertification: inder my jurisdiction and this report is wledge and belief. Drilling (Type or print) corporation) Canby, Or. acksþur (Water Well Contracto 537....**Da**te 7-18, <u>19.8</u>0

(USE ADDITIONAL SHEETS IF NECESSARY)

STATE ENGINEER Salem, Oregon	Record	STATE WELL NO. 4/1E-7F COUNTY Clackamas APPLICATION NO. GR-3265
OWNER: Albert C. Workman	MAILING ADDRESS:	Route 2, Box 15
LOCATION OF WELL: Owner's No. Sump #3	CITY AND STATE:	Aurora, Oregon
SE <u>14 NW 14 Sec. 7 T. 4 S., R. 1</u>	E. ₩., W.M.	
Bearing and distance from section or subdivision		
corner 47.8 chs. W. & 35.4 chs. S. of	NE Corn.	
Section 7		
Altitude at well		
TYPE OF WELL: trench Date Constructed	1933	
Depth drilled $10\frac{1}{2}$ Depth cased		Section
CASING RECORD.		· · · · · · · · · · · · · · · · · · ·
FINISH:		
AQUIFERS:		
WAIER LEVEL:		
PUMPING EQUIPMENT: Type <u>Centrifugal</u> Capacity <u>100</u> G.P.M.		H.P. <u>5</u>
WELL TESTS: Drawdown ft. after	hours	
Drawdown ft. after	hours	G.P.M
USE OF WATERIrrigation SOURCE OF INFORMATIONGR=3037 DRILLER or DIGGER	Temp	[°] °F, 19
ADDITIONAL DATA: Log	Chemical A	nalysis Aquifer Test

REMARKS:

NOVISION -	CLAC DI 3000	
File Original and First Copy with the	LL REPORT State Well No	4/1-1/ F(1)
SALEM, OREGON	OREGON G1170 State Permit No.	6915
(1) OWNER: Name Albert C. Workman	(11) WELL TESTS: Drawdown is am lowered below str Was a pump test made? \Box Yes \Box No If yes, by	ount water level is atic level whom?
Address amore RRZ B. OX 15"	Yield: gal./min. with ft. dra	wdown after hrs.
	····	12 17
(2) LOCATION OF WELL:	<u> </u>	» »
County Clackanes Owner's number, if any-	Baller test \mathcal{L}) gal./min. with ft. dra Artesian flow gram Data	wdown after hrs.
$\frac{14}{14}$ Section 7 T. $\frac{4}{5}$ R. $\int E$ W.M.	Temperature of water Was a chemical analy	sis made? 🗍 Yes 📋 No
Bearing and distance from section or subdivision corner		10
	(12) WELL LUG: Diameter of w	ell LU inches.
на страници на Посто страници на страници н	Formation: Describe by color, character, size of m	aterial and structure, and
	show thickness of aquifers and the kind and natu stratum penetrated, with at least one entry for e	re of the material in each ach change of formation.
	MATERIAL	FROM TO
(3) TYPE OF WORK (check):	surface	0 4
New Well 🚰 Deepening 🗆 Reconditioning 🗌 Abandon 🗔	clay	4 21
If abandonment, describe material and procedure in Item 11.	cement gravel	21 61
PROPOSED USE (check): (5) TYPE OF WELL:	black sand	61 66
Domestic 🗆 Industrial 🗆 Municipal 🖂 Rotary 🗋 Driven 🗍	<u> </u>	6669
Irrigation I. Test Well I Other I Dug I Bored I		
(6) CASING INSTALLED: Threaded Weldedy		
IO "Diam. from ft to60 ft Gage	· · · · · · · · · · · · · · · · · · ·	
"Diam. from		
(7) PERFORATIONS: Perforated? [] Yes [] No		
SIZE of perforations in. by in.		
perforations from ft. to ft.		
perforations from ft. to ft.		
perforations from		
perforations from		
SCREENS: Well screen installed _ Yes _ No		
Manufacturer's Name		
Qiam. Slot size		
Slot size Set from ft. to ft.	Work started Aug. 19, 158. Complete	d Aug.23 158
(9) CONSTRUCTION:	(13) PUMP	
Was well gravel packed? 🗌 Yes 🗌 No. Size of gravel:	Manufacturer's Name	
Gravel placed from ft. to ft.	Type:	
Was a surface seal provided? Yes No To what depth? ft.		
Material used in sear-	Well Driller's Statement:	ton and the second
Type of water? Depth of strata	true to the best of my knowledge and belief.	and this report is
Method of sealing strata off	NAME .I T Millow	
(10) WATER LEVELS:	(Person, firm, cr corporation)	(Type or print)
static level run overton below land surface Date	AddressBox 198, Aurora Or	°e
Artesian pressure lbs. per square inch Date	Driller's well number	
Log Accented by:	1 Jon 11	?
	[Signed] (Well Driller)	
[Bigned], Date, 19	License No A	ug.23 158
(Owner)	Date	

	1	CLAC		
NOTICE TO WATER WELL CONTRACTOR				
The original and first copy of this report are to be	WU 1966 WATER WE	ELL REPORT 41	/ •	7 G
STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date	STATE O	F OREGON pe or print) G-3857 State Permit No.		1
(1) OWNER :	· 11 .	(11) WELL TESTS: Drawdown is amount	water level	is
Name Wayne Yoder		Was a numb tost mode? E No. If was by whom	evel	_
Address Rte 2 Box 18-A		Yield: 300 gal/min. with 70ft. drawdov	<u> drol</u> vn after	$\frac{1 \text{er}}{4}$ hrs.
Aurora, Oregon		<u> </u>		<u>, 1101</u> "
(2) LOCATION OF WELL:		27 27 27 27		**
County Clackamus Driller's wel	l number	Bailer test gal./min. with ft. drawdo	wn after	hrs.
1/4 1/4 Section 7 T.	45 R. 1E W.M.	Artesian flow g.p.m. Date		
Bearing and distance from section or subdivis	sion corner	(12) WELL LOC:	made? [_] Y	es <u>x</u> i No
		(12) WELL LUC: Diameter of well below of	asing	_
		Depth drilled 90 ft. Depth of completed w	ell 9	0 ft.
		Formation: Describe by color, character, size of materia show thickness of aquifiers and the kind and nature of stratum penetrated, with at least one entry for each o	l and struc the materia hange of f	cture, and al in each ormation.
		MATERIAL	FROM	то
(a) TYPE OF WORK (Check):	4414 4	Soil	0	4
New Well Deepening Record	nditioning 🗋 Abandon 🗌	Blue clay	4	20
and onment, describe material and proce	dure in item 12.	<u>Cement gravel</u>	20	49
(4) PROPOSED USE (check):	(5) TYPE OF WELL:	Blue sandy clay	49	62
Domestic 🔲 Industrial 🗌 Municipal 🗋	Cable 🕅 Jetted	Blue clay	62	85
Irrigation 🕅 Test Well 🗌 Other 🗌	Dug 🗌 Bored 🗋	bitte cray	- 02	90 -
(6) CASING INSTALLED: Three	eaded [] Welded 🕅			
10 " Diam. from0 ft. to	90 ft. Gage 1/1			
	ft. Gage			
from ft. to	ft. Gage		· · ·	
(7) PERFORATIONS: Perf	orated? 🕱 Yes 🔲 No			
Type of perforator used Millknife				
Size of perforations $3/8$ in. by	2 in.			
100 perforations from	ft. to		_	
perforations from	ft. to ft.			
perforations from	ft. to ft.			
perforations from	ft to ft			
				·
(8) SCREENS: Well screen inst	alled? 🗌 Yes 🔀 No			·
Manufacturer's Name				
Slot size Set from	ft to ft			+-
Diam	ft. to ft.	Work started September 20 66 Completed Se	<u>pt 26</u>	<u>19_6</u> 6
(9) CONSTRUCTION:		Date well drilling machine moved off of well Se	<u>pt 26</u>	<u>19 6</u> 6
	- 3 - 3r - 3	(13) PUMP:		
Well seal—Material used in sealPudd.	ea Mud	Manufacturer's Name		
Depth of seal	1516 in	Type:	[.P	*******
Were any loose strata comented off? \Box Yes	No Depth	Water Well Contractor's Certification:		
Was a drive shoe used? 🗌 Yes 📴 No		This well was drilled under my jurisdiction	and this .	
Was well gravel packed? 🗌 Yes 🙀 No 🛛 S	ize of gravel:	true to the best of my knowledge and belief.	ind this r	eport 1s
Gravel placed from		NAME John Truman Miller		
Did any strata contain unusuable water? 🗇	Yes X No	(Person, firm or corporation) (Ty	pe or print)	******
Type of water? depth of s	strata	Address PO Box 42 Hubbard, Or	egon	
Method of sealing strata off		Drilling Machine Operator's License No. 26		
(10) WATEK LEVELS:		In a Marine Marine,		
Static level 2 ft. below land	d surface Date 9/26/66	[Signed]		
Artesian pressure	are inch Date	Contractor's License No277 Date Septer	nber 2	B19 66
	(USE ADDITIONAL SH	EETS IF NECESSARY)		

	Faist 3
STATE ENGINEER Salem, Oregon 013002 Well Record	STATE WELL NO. 4/1-7J(1) COUNTY Clackemas APPLICATION NO. G-252
OWNER: Isador Bany MAILING ADDRES	G S: <u>Route 1, Box 56</u>
CITY AN CITY AN STATE:	ND Canby, Oregon
N. E.	
<u>NE 14</u> <u>SE 14</u> Sec. <u>7.</u> T. <u>4.</u> S. R. <u>1.</u> W. W.M.	
Bearing and distance from section of subdivision N_17° 40! We 1825! from S ^L core. Sec. 7	
corner	
	J(1)
Altitude at well	······
TYPE OF WELL: Drilled. Date Constructed Mar-Apr. 56	
Depth drilled150 Depth cased131	Section7
10 inch set from 0 to 131 feet 6 inch perforated from 127 to 150 feet FINISH:	- - -
10 inch set from 0 to 131 feet 6 inch perforated from 127 to 150 feet FINISH: Gravel packed around 6 inch casing, 10 inch perfora- from 90 to 115 feet.	ted with 100 perforations
10 inch set from 0 to 131 feet 6 inch perforated from 127 to 150 feet FINISH: Gravel packed around 6 inch casing, 10 inch perfora- from 90 to 115 feet. AQUIFERS:	ted with 100 perforations
10 inch set from 0 to 131 feet 6 inch perforated from 127 to 150 feet FINISH: Gravel packed around 6 inch casing, 10 inch perfora- from 90 to 115 feet. AQUIFERS: Sand and gravel	ted with 100 perforations
10 inch set from 0 to 131 feet 6 inch perforated from 127 to 150 feet FINISH: Gravel packed around 6 inch casing, 10 inch perfora- from 90 to 115 feet. AQUIFERS: Sand and gravel WATER LEVEL:	ted with 100 perforations
<pre>10 inch set from 0 to 131 feet 6 inch perforated from 127 to 150 feet FINISH: Gravel packed around 6 inch casing, 10 inch perfora- from 90 to 115 feet. AQUIFERS: Sand and gravel WATER LEVEL: 50 feet below land surface, April, 1956</pre>	ted with 100 perforations
<pre>10 inch set from 0 to 131 feet 6 inch perforated from 127 to 150 feet FINISH: Gravel packed around 6 inch casing, 10 inch perfora- from 90 to 115 feet. AQUIFERS: Sand and gravel WATER LEVEL: 50 feet below land surface, April, 1956 PUMPING EQUIPMENT: Type</pre>	ted with 100 perforations
<pre>10 inch set from 0 to 131 feet 6 inch perforated from 127 to 150 feet FINISH: Gravel packed around 6 inch casing, 10 inch perfora- from 90 to 115 feet. AQUIFERS: Sand and gravel WATER LEVEL: 50 feet below land surface, April, 1956 PUMPING EQUIPMENT: Type</pre>	ted with 100 perforations
<pre>10 inch set from 0 to 131 feet 6 inch perforated from 127 to 150 feet FINISH: Gravel packed around 6 inch casing, 10 inch perforation from 90 to 115 feet. AQUIFERS: Sand and gravel WATER LEVEL: 50 feet below land surface, April, 1956 PUMPING EQUIPMENT: Type Capacity</pre>	ted with 100 perforations
<pre>10 inch set from 0 to 131 feet 6 inch perforated from 127 to 150 feet FINISH: Gravel packed around 6 inch casing, 10 inch perforation from 90 to 115 feet. AQUIFERS: Sand and gravel WATER LEVEL: 50 feet below land surface, April, 1956 PUMPING EQUIPMENT: Type Capacity</pre>	ted with 100 perforations
<pre>10 inch set from 0 to 131 feet 6 inch perforated from 127 to 150 feet FINISH: Gravel packed around 6 inch casing, 10 inch perforat from 90 to 115 feet. AQUIFERS: Sand and gravel WATER LEVEL: 50 feet below land surface, April, 1956 PUMPING EQUIPMENT: Type</pre>	ted with 100 perforations
<pre>10 inch set from 0 to 131 feet 6 inch perforated from 127 to 150 feet FINISH: Gravel packed around 6 inch casing, 10 inch perform from 90 to 115 feet. AQUIFERS: Sand and gravel WATER LEVEL: 50 feet below land surface, April, 1956 PUMPING EQUIPMENT: Type Capacity</pre>	ted with 100 perforations H.P
10 inch set from 0 to 131 feet 6 inch perforated from 127 to 150 feet FINISH: Gravel packed around 6 inch casing, 10 inch perfora- from 90 to 115 feet. AQUIFERS: Sand and gravel WATER LEVEL: 50 feet below land surface, April, 1956 PUMPING EQUIPMENT: Type Capacity	ted with 100 perforations

State Printing 89316

STATE ENGINEER Salem, Oregon

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Pg 2 of 3

Well Log

clac | 3002.

Chatanan Dav			
Driller: Steinman Bros.	Date Drill	ed March	-April 956
CHARACTER OF MATERIAL	(Feet below From	'and surface)	Thickness (fect)
Sand, brown, with a little clay	0		
Silt and sand, blue		65	27
Glay and gravel	65	68	3
Gravel, and sand, no water	68	70	2
Clay and gravel, loosely cemented,	. 70	82	_12
Sand and gravel, loosely cemented, 30 gpm at 92 feet, 60 gpm at 112 feet	82	115	
Clay, silty, blue, no water	115	130	15
Sand and gravel, coarse	130	132	2
Sand, water bearing	132	139	7
Sand, green and clay	139	145	6
Clay, green	145	150	5_
Hole gravel packed around 6-inch I.D. perforate pipe from 131 to 150 feet. Driller estimates he obtains about 100 gpm from gravel packed strata.	d		
1			
· · · · · · · · · · · · · · · · · · ·			

Observation Difference 12002 Observation Difference Partie version Difference Other and the same of the same	Cl	AC PS 3 of 3
Construct Difference of the set of the	1=	3002
Description of the APR 9 1958 LD Frace or outsoon Fill a sub Mds in _ G 2 / 1 (1) OWNER: STATE CHOIMERT (2) LOCATION OF WELL (1) COLLEGE	ORIGINAL DIE GET WARR WELL DRIL	LERS REPORT De Net State Well No. 1-7 ///
(1) OUTRER: STATE ENGINEER (1) DURAGE: STATE ENGINEER (1) DURAGE: STATE ENGINEER (1) LOCATION OF WELL (1) LOCATION OF WELL (2) LOCATION OF WELL (3) LOCATION OF WELL (4) LOCATION OF WELL (3) LOCATION OF WELL (4) LOCATION OF WELL (4) LOCATION OF WELL (5) LOCATION OF WELL (4) LOCATION OF WELL (5) LOCATION OF WELL (4) LOCATION OF WELL (5) LOCATION OF WELL (6) TITE OF WORK (check): (6) TITE OF WORK (check): (7) REAL OF ALL OF AL	DUDICALE WITH THE LINE APR 9 1958 STATE OF OF	REGON Fill In State Shifts No. 6252
Name Red 1 Bit 56 (2007, Oregon Address Rt 1 Bit 56 (2007, Oregon (2) LOCATION OF WELL Well A Comey Classman Owner of the state of the st	(1) OWNER: CALENCINEER	(10) WELL TESTS Formans Service
Adam Rt 1 Dr 5 100 mi/mm with 300 m	Name EmilSALATO COM	Was Stat 10.50 (I've U No 11 yes by AOT BOD.
(2) LOCATION OF WELL: Cumuty Classican server unnext in myG=162 28. D. or mean marks 11 is 20. 56. (Cabby COFROD). 28. D. or mean marks 11 is 20. 56. (Cabby COFROD). 29. To or mean marks 11 is 20. 56. (Cabby COFROD). 20. To or mean marks 11 is 20. 56. (Cabby COFROD). 20. To or mean marks 11 is 20. 56. (Cabby COFROD). 20. To or mean marks 11 is 20. 10. Data 20. To or MORE (Cabc): New word 20. To word 20	Address Rt 1 Br 56 Canby, Oregon	Yield: 100 sal/min. with 39st. draw down after 4 hrs.
(1) DUCLATION OF WEAKS (2) CARAGES Comp CLARAGES (3) TATE OF WORKS (check): (4) TATE OF WORKS (check): (5) TATE OF WORKS (check): (3) TATE OF WORKS (check): (4) TATE OF WORKS (check): (5) TATE OF WORKS (check): (4) TATE OF WORKS (check): (5) TATE OF WORKS (check): (4) TATE OF WORKS (check): (5) TATE OF WORKS (check): (6) TATE OF WORKS (check): (7) TATE OF WORKS (check): (9) TATE OF WORKS (check): (10) TATE OF WORKS (check): (11) WILLLOGE (12) TATE OF WORKS (check): (13) TATE OF WORKS (check): (14) FOROFORD USE (check): (15) Tate A A A A A A A A A A A A A A A A A A A		
Bit D = Himme Ho BE 1 BE 55.5 GBDE (Or SEGDE) Bendra of Marcine Tom setting and the set of the set of the setting means of the set of the setting means of the set of	(2) LOCATION OF WELL: County Clackamas Owner's number, if any- G-162	Artesian Der D
Back add/dates from action or matrixed correr If Y Addition or matrixed correr Of Data () Y 1620	R. F. D. or Street No. Rt 1 Bx 56, Canby, Oregon,	Baller test B.D.m. with # drawdown
of Sac 7 1 d S.R 1 1 disting and the S. S. of the S.R down of th	Bearing and distance from section or subdivision corner J 17 40 W 1825 ft.from the S.E. corner	Temperature of water Was a chemical analysis made? [] Yes] No
G? Each B. B. 2 CF Act B. E THE B. L. LUG: (3) TYTE OF WORK (check): (3) TYTE OF WORK (check): (b) REALTOR: (c) PROFORD USK (check): (b) REALTOR: (c) PROFORD USK (check): Doments () Industrial () Municipal () Doments () Industrial () Municipal () (c) CASING INSTALLED: Thread agent A for a fo	of Sec 7 7 4 S.R 1 S.	Was electric log made of well? Yes ENVo
(a) TTPE OF WORK (check): New will be Despating in Reconstitutioning in Annon in the state in the state of t	of the S.L. t of Sec. 7 T 4 S.R 1 E	(LL) WELLLOG:
Answering	(3) TYPE OF WORK (check):	Total depth 150 ft. Depth of completed well 127 ft.
(4) PROPOSED USE (check): Domentic Industrial Municipal Drigation g Test Well Other Drigation g Test Well Other Drigation g Test Well Other Data will District Tareaded Water (6) CASING INSTALLED: Tareaded Water (7) CASING INSTALLED: Tareaded Water (7) CASING INSTALLED: Tareaded Water (6) CASING INSTALLED: Tareaded Water (6) CASING INSTALLED: Tareaded Water (6) CASING INSTALLED: Tareaded Water (6) CASING INSTALLED: Tareaded Water (7) CASING INSTALLED: (7) PARFORATIONS: CDPS destroid of pipe Wellded spring shoet (7) PARFORATIONS: CDPS destroid of pipe Wellded spring shoet (8) CONSTRUCTION: (8) CONSTRUCTION: We an aptimum and aptimum part by 2 % Inst (8) CONSTRUCTION: We an aptimum and aptimum part by 2 % Inst (8) CONSTRUCTION: We an aptimum and aptimum part by 2 % Inst Marked add attim met water based shoet inst (9) WATER LEVELS: COMMANDEL INVELS: COMMANDEL INVELS: COMM	New well []	Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in
Donestic] Industrial] Municipal] Prigation g Test Wall] Other] Prigation g Test Wall] Other] Prigation g Test Wall] Other] (6) CASING INSTALLED: Threaded] PROM Riso R. Prime Wall 2 - 0 - 131 - 10 - 220 - 20 - 20 - 20 - 20 - 20 - 20 - 20 - 20	(4) PROPOSED USE (check): (5) EQUIPMENT:	On to 38 a brown sand 11ttle olar wired
Dregation g Test Well O Other Dug Well O (6) CASING INSTALLED: If gravel packed Threaded D Waind G (7) A to A Diam. One Main G (8) CASING INSTALLED: If gravel packed (9) PARAFORATIONS: Is Data of share state of the share of th	Domestic 🛛 Industrial 🗋 Municipal 🗋 Rotary 🗍 Cable	38 " 65 "blue silt & sand
(6) CASING INSTALLED: Threade C worked a construction of the cons	Irrigation Test Well C Other Dug Well	68 70 "gravel & sand no sates
THOME ALLOS IN VALUE Care of the Diameter from for all of the Diameter f	(6) CASING INSTALLED: If gravel packed	70 " 82 "clay & gravel loosely cemente
The set of th	Gage or Diameter from to	82 " 115 "loosely computed sand grandl
10°håle with 30°hale sitty clay no water 10°håle with 30°hale 10°håle with 30°hale 10°håle with 30°hale 10°hale 10°hale 10°hale 10°hale 10°hale 10°hale 10°hale 10°hale 10°hale 11°hale 11°hale <th>$\frac{\mathbf{FROM} ft. \ to ft. Diam. \qquad Wall \\ \hline 0 131 10^{\circ} \cdot 280 \\ \hline 127^{\circ} 150^{\circ}$</th> <th>"A clay 60 GPE at 112 ft.</th>	$\frac{\mathbf{FROM} ft. \ to ft. Diam. \qquad Wall \\ \hline 0 131 10^{\circ} \cdot 280 \\ \hline 127^{\circ} 150^{\circ}$	"A clay 60 GPE at 112 ft.
10" That e with a sign of provided	· · · · · · · · · · · · · · · · · · ·	115 " 130 "blue silty clay.no water
Provend disc draw will risg Pipe Straws and provide Minister 135 - 145 - Green sand 4 clay Provend disc draws will risg Bis of provide Minister 145 - 150 - Green sand 4 clay Describe joint Wolded D jpe Wolded Byring show 145 - 150 - Green olay. Prove draws for the site of the site site of the site of the site of the site of	<u> </u>	132 "139 "sand, water bearing
1790 House the fold of wall of wall and the state spring shall be presented of a pipe Veliced spring shoe 100 Berthe state packed with a 33 field inch 101 performed wall 101 Berthe state of pipe from bottom of holes 102 and performed wall 101 Berthe state of holes 101 Berthe state of pipe Veliced spring shoe 101 Berthe state of holes 102 Berthe state of pipe Veliced spring shoe 101 Berthe state of holes 101 Berthe state of the state spring shoe 101 Berthe state of holes 101 Berthe state state spring shoe 101 Berthe state state spring shoe 101 Berthe state state state spring shoe 101 Berthe state state spring shoe 101 Berthe state state state spring shoe 101 Berthe state state spring shoe 101 Berthe state state spring shoe 100 Berthe state state state spring shoe 101 Berthe state state spring shoe 100 Berthe state state state spring shoe 101 Berthe state state spring shoe 100 Berthe state state state spring shoe 101 Berthe state state spring shoe 100 Berthe state state spring shoe 101 Berthe state state spring shoe 100 Berthe state state state spring shoe 101 Berthe state state spring shoe 100 Berthe state state state spring shoe 101 Berthe state state spring shoe 100 Berthe state state spring shoe 102 Berthe sta	pipe gravel the	109 " 145 "green sand & clay
(7) PERFORATIONS: Type of performance used Stra of 100 performations	Describe joint Welded pipe Welded spring shee	
Type of performance used Stress of performance and the performance of the perform	(7) PERFORATIONS:	Hole gravel packed with a 33 ft.6 inch
Internet of performance of the state of	Type of perforstor used	10 Inch pipe to bottom of hole.
90 115 4	SIZE of performances 2" in., length, by 2" in. FROM ft. to ft. perf per foot No. of rows	Ve figure we got shout 100 GPW out of
Total of 100 perforations SCREENS: Oive Manufacturer's Name, Model No. and Size BODD (8) CONSTRUCTION: Were any struis essied against pollution? If Yee No To what depth H yee, note depth of struits FROM 6(8) CONSTRUCTION: Were any struis essied against pollution? If Yee No To what depth H yee, note depth of struits FROM All top water shut of to shout 80 fts Marrison of FRALING (0) WATER LEVELS: Depth at which wreve perforating 500 Lig Aborgied by: Lig Aborgied by: Ingended by: Ingended by: Ingended by: Owner 100 Water started solution 10 or pellon 11 100 or stalling 11 11 12 12 13 14 14 15 15 15 16 16 17000 16 12 18 14 19 15 10 <	90 116 4	this section,
Image: Source of the second	"Tetal of 100 perforations ""	Voule recomend not to num well mich
SUBMERTS: Give Manufacturer's Name, Model No. and Size Bib (8) CONSTRUCTION: Was as suffice sendiary seal provided? Yee No To what depth All top water shut of to shout 80 ft. All top water shut of to shout 80 ft. METROD OF SEALING (9) WATER LEVELS: Depth at which maker was first found ft Depth at which maker was first found ft OW WATER LEVELS: Depth at which maker was first found ft Owner Depth at which maker was first found ft Owner Owner Owner Owner Owner Isigned? Owner		over 150 GPH and for SURE not 200 GPH.
Molton: (8) CONSTRUCTION: Were any strate sanitary seal provided? [] Yae [] No To what depth # Were any strate sealed against pollution? How To what depth # Were any strate sealed against pollution? How To what depth # If yee, note depth of strata # ZROM St. to At All top water shut of to shout 80 ft. Were started 3/1/56 13 Completed 4/1/56 13 METHOD OF SEALING # # # (9) WATER LEVELS: # Make 85 1 image Brogs Brogs Depth at which water was dirit found ft # # (9) WATER LEVELS: # MAKE 85 1 image Brogs Brogs Depth at which water was dirit found ft # # (9) WATER LEVELS: # # # Depth at which store performing 56 ft # Ide Adversed Brogs # # # Ide Adversed Brogs 50 ft # Dated ft # # # Ide Adversed Brogs # # # # <tr< td=""><td>Give Manufacturer's Name, Model No. and Size</td><td>Cleard up pice and seams like a poor</td></tr<>	Give Manufacturer's Name, Model No. and Size	Cleard up pice and seams like a poor
(8) CONSTRUCTION: Was as suched samilary seal provided Yee No To what depth ft. Were any girnts sealed against pollution? If Yee No If yee, note depth of strain FROM ft. to ft. A All top water shut of to shout 80 ft. METHOD OF SEALING (9) WATER LEVELS: Depth at which maker was first found ft. Standing level before performing 56 ft. Method for a strain 50 ft. NAME Stelling and belief. NAME Stelling and bel	2026	Well,
Were any strate sealed against pollution? E Yes D No If yes, note depth of strate ZROM St. to St. to St. The State of the strate of the shore mean sea level. All top water shut of to shout 80 ft. METHOD OF SEALING (9) WATER LEVELS: Depth at which water was first found ft Standing level before performing 56 ft Lóg Absorbed by: (Signed) Consult MARE Dated 19 Owner Dated 19 (Signed) Consult of the section set my hand this cle The day of Marine 19 (Weil Definer) for the section of the sec	(8) CONSTRUCTION: Was a surface sentiary seal provided? [] Yas [] No To what depth 21.	· · · ·
TROME At. to At. All top water shut of to shout 80 ft. Well Driller's Statement: METHOD OF SEALING This well was drilled under my jurisdiction and this report is (9) WATER LEVELS: This well was drilled under my jurisdiction and this report is Depth at which states was direct found At Standing level before performing 56 Standing level before performing 56 Lóg Absepted by: Completed 4/1/56 IN WITHESS WHEREOF, I have hereunto set my hand this de the day of depted to the best of the day of depted to the day of day	Were any strate sealed against pollution? 2 Yes [] No	Ground elevation at well site BOUL 180 feet above mean see level.
All top water shut of to shout 80 ft. METHOD OF BEALING (9) WATER LEVELS: Depth at which mater was stirt found ft Standing level before perforating 56 Standing level before perforating 50 Log Absorpted by: 10 Owner 10 IN WITTNESS WHEREOF, I have hereunto set my hand this 26 Tf. day of Actionations of Applicant IN WITTNESS WHEREOF, I have hereunto set my hand this 26 Tf. day of Actionations of Applicant MALE MALE MALE Standing level action of the standard of the second of the secon	7ROM 21. 10 11.	Work started 3/1/56 19 , Completed 4/1/56 19
(i) WATER LEVELS: Depth at which water was first found ft Standing level before perforating 50 this Abasited by: Log Abasited by: (Signed) Owner IN WITNESS WHEREOF, I have hereunto set my hand this 36 TA day of Legtenetics. IN WITNESS WHEREOF, I have hereunto set my hand this 36 TA day of Legtenetics. IN WITNESS WHEREOF, I have hereunto set my hand this 36 TA day of Legtenetics. In Witness of Applicant)	All top water shut of to shout 80 ft.	This well was drilled under my jurisdiction and this report is
(v) vr. A ADD LADY EALON Depth at which syster was dive found the Blanding lavel before perforating 56 ff Blanding lavel after perforating 50 ff Lóg Abcepted by: ISigned Count Mark Dated 19 Owner IN WITHESS WHEREOF, I have hereunto set my hand this 26 Th. day of Augtanetics 19.57 Mark Difference and 927 lamba for the former fo	ALTER OF SEALING	where we have been of my showledge and belief,
Standing lavel before perforating 56 Address 8332, 8, B, 16th, Ave, Portland, Ore, Bianding lavel after perforating 50 at Log Absorbed by: 10 10 10 ISigned! Madress 8332, 8, B, 16th, Ave, Portland, Ore, Driller's well number 556 Isigned! Madress 8352, 8, B, 16th, Ave, Portland, Ore, Driller's well number 556 Isigned! Madress 8552 Owner Dated 19 IN WITDLESS WHEREOF, I have hereunto set my hand this 36 Th day of Actions, 19,57 Madress Officientics Officientics	Depth at which stater was first found ft.	(Person, firm, or corporation) (Typed or printed)
Standing level after perforating DQ A Log Absorbed by: Interference [Signed] Interference Owner Dated IN WITDLESS WHEREOF, I have hereunto set my hand this Ze. Th. day of Application IN WITDLESS WHEREOF, I have hereunto set my hand this Ze. Th. day of Application Interference Interference <td>Standing level before perforating 56 ft</td> <td>Address 8532, 8. E. 16th Ave. Portland, Ore.</td>	Standing level before perforating 56 ft	Address 8532, 8. E. 16th Ave. Portland, Ore.
ISigned I Carel Mark Dated 19 License No Dated 19 Isome No Isome No Dated 19 Isome No Is	Bianding level after perforating 50f	terman for the second s
IN WITHERS WHEREOF, I have hereunto set my hand this 26 It. day of deptember 1957 Frill P. Kraft P. P. B. 927 Canby Nice	[Signed Famil Kraft Dated 19	(Well Driller)
IN WITCHESS WHEREOF, I have hereunto set my hand this 26 th day of Legtantic, 1957 Frich P. Kraft P. B. By 927 Canby Sie	Owner	License No Dated, 19
IN WITHESS WHEREOF, I have hereunto set my hand this 26 th day of September 1957 Finil P. Kraft P. B. B. 927 Canby, Dre	· · · · · · · · · · · · · · · · · · ·	
Finil P. Kraft P. B. B. 927 Canby Suc	IN WITNESS WHEREOF, I have hereunto set my here	and this 26 th day of he standers
(Renature of Applicant)	Emil P. Kraft	P. A. Box 927 Pourla As
	The second	and the second sec

Salem, Oregon / CLAC) Wel	l Record	COUNT	WELL NO Y	Clackama
(013003)		*APPLIC	EATION NO.	ur-3034
OWNER J. Earl and Winifred Rhoten	MAILIN	G S: Route 2. Be	x 33	
	CITY A	ND	A - C	
LOCATION OF WELL: Owner's No	STATE:	Aurora, Or	egon	
W	W ., W.M.	1	į	
Bearing and distance from section or subdivision				
corner 825' S. and 4774 E. from center	Section 7		1	
Altitude at well			·	• • • • •
TYPE OF WELL: <u>drilled</u> Date Constructed	1951	[
Depth drilled Depth cased	101	Section		
CASING RECORD:				
AQUIFERS:				
AQUIFERS: WATER LEVEL:				
AQUIFERS: WATER LEVEL:				
AQUIFERS: WATER LEVEL: PUMPING 'EQUIPMENT: Type Capacity20	Jo.t			1
AQUIFERS: WATER LEVEL: PUMPING ^{-,} EQUIPMENT: Type Capacity 20	Jet	pumping 100	H.P.	1
AQUIFERS: WATER LEVEL: PUMPING 'EQUIPMENT: Type Capacity20	Jet	pumping 100	H.P.	1 G.P
AQUIFERS: WATER LEVEL: PUMPING 'EQUIPMENT: Type Capacity20	Jet hours	pumping 100	H.P.	1 G.P.
AQUIFERS: WATER LEVEL: PUMPING 'EQUIPMENT: Type Capacity20G.P.M. WELL TESTS: Drawdownft. after Drawdownft. after USE OF WATER _Irrigation	Jet hours hours Temp	pumping 100	H.P.	1 G.P. G.P. J9
AQUIFERS: WATER LEVEL: PUMPING 'EQUIPMENT: Type Capacity20G.P.M. WELL TESTS: Drawdownft. after Drawdownft. after USE OF WATER Irrigation SOURCE OF INFORMATION <u>GR-2842</u> DRILLER or DIGGER	Jet hours hours Temp n Brothers	pumping 100		1
AQUIFERS: WATER LEVEL: PUMPING 'EQUIPMENT: Type Capacity20G.P.M. WELL TESTS: Drawdownft. after Drawdownft. after USE OF WATER Irrigation SOURCE OF INFORMATION SOURCE OF INFORMATION GR_2842 DRILLER or DIGGER ADDITIONAL DATA:	Jet hours hours Temp n Brothers	pumping 100	H.P.	1 G.P. G.P. 19
AQUIFERS: WATER LEVEL: PUMPING 'EQUIPMENT: Type	Jet hours hours Temp n Brothers 	pumping 100	Aquifer Te	1
AQUIFERS: WATER LEVEL: PUMPING 'EQUIPMENT: Type Capacity20G.P.M. WELL TESTS: Drawdownft. after Drawdownft. after USE OF WATER SOURCE OF INFORMATION GR-2842 DRILLER or DIGGER ADDITIONAL DATA: Log Water Level Measurements REMARKS:	Jet hours hours Temp n Brothers 	pumping 100 •F.	H.P.	1 G.P. G.P. 19
AQUIFERS: WATER LEVEL: PUMPING 'EQUIPMENT: Type	Jet hours hours Temp n Brothers Chemical	pumping 100	H.P.	1 G.P. G.P. 19
AQUIFERS: WATER LEVEL: PUMPING 'EQUIPMENT: Type Capacity20G.P.M. WELL TESTS: Drawdownft. after Drawdownft. after USE OF WATER _Irrigation SOURCE OF INFORMATION SOURCE OF INFORMATION GR_2842 DRILLER or DIGGER ADDITIONAL DATA: Log Water Level Measurements REMARKS:	Jet hours hours Temp n Brothers Chemical	pumping 100	H.P.	1 G.P. G.P. 19
AQUIFERS: WATER LEVEL: PUMPING 'EQUIPMENT: Type	Jet hours hours Temp n Brothers 	pumping 100	H.P.	1
AQUIFERS: WATER LEVEL: PUMPING 'EQUIPMENT: Type Capacity20G.P.M. WELL TESTS: Drawdownft. after Drawdownft. after JSE OF WATER Irrigation SOURCE OF INFORMATIONSteinma ADDITIONAL DATA: Log Water Level Measurements REMARKS:	Jet hours hours Temp n Brothers 	pumping 100	H.P.	1 G.P. G.P. , 19
AQUIFERS: WATER LEVEL: PUMPING 'EQUIPMENT: Type Capacity20G.P.M. WELL TESTS: Drawdownft. after Drawdownft. after JSE OF WATER Irrigation SOURCE OF INFORMATION SOURCE OF INFORMATION CR-2842 DRILLER or DIGGER ADDITIONAL DATA: Log Water Level Measurements REMARKS:	Jet hours hours Temp n Brothers Chemical	pumping 100	H.P.	1 G.P G.P J9

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STATE ENGINEER Salem, Oregon	CLAC ' 013004	Well Record GR- 1696 MAILING	STATE COUNT APPLIC	WELL NO Y Clack ATION NO	4/1-7K amas GR- 1749
OWNER: Joseph	N. Hershberger	ADDRESS: CITY AND			
LOCATION OF WEI	L: Owner's No.	STATE:	Canby, Oreg	on	
<u>NW 1/4 SE 1/4 Sec.</u>		R1	,		
Bearing and distance t	rom section or subd	livision			
corner <u>1760' W.</u> &	1590' N. from S	E cor. Sec. 7			
				NELLY	
				·	
Altitude at well	150'				
TYPE OF WELL: Dr	illed Date Const	tructed1946			
Depth drilled <u>101</u>	1 Depth cased	d <u>101'</u>	Section .		
FINISH: AQUIFERS: WATER LEVEL: 65' PUMPING EQUIPM Capacity	ENT: TypePomo G.P.M.	ma_turbine		H.P.	
FINISH: AQUIFERS: WATER LEVEL: 65' PUMPING EQUIPM Capacity	ENT: TypePomo G.P.M. 15 ft. after	onaturbine hours			3
FINISH: AQUIFERS: WATER LEVEL: 65' PUMPING EQUIPM Capacity	ENT: TypePomo G.P.M. 1.5 ft. after ft. after	onaturbine hours hours			3
FINISH: AQUIFERS: WATER LEVEL: 65' PUMPING EQUIPM Capacity	ENT: TypePomo 	hours			
FINISH: AQUIFERS: WATER LEVEL: 65' PUMPING EQUIPM Capacity	ENT: TypePomo 	nnaturbine			
FINISH: AQUIFERS: WATER LEVEL: 65' PUMPING EQUIPM Capacity	ENT: TypePomo 	naturbine	120orn °F	nore	
FINISH: AQUIFERS: WATER LEVEL: 65' PUMPING EQUIPM Capacity	ENT: TypePomo 	na_turbinehours hourshours modelse for ents Chemical An 0 to 3 ft. 3 to 68 ft.	120.or.n °F	H.P.	
FINISH: AQUIFERS: WATER LEVEL: 65' PUMPING EQUIPM Capacity	ENT: TypePomo 	0 to 3 ft. 0 to 3 ft. 0 to 3 ft. 3 to 68 ft. 68 to 78 ft. 78 to 96 ft.	120.or.p °F nalysis		
FINISH: AQUIFERS: WATER LEVEL: 65' PUMPING EQUIPM Capacity	ENT: TypePomo 	0 to 3 ft. 0 to 3 ft. 0 to 3 ft. 0 to 3 ft. 0 to 3 ft. 2 to 68 ft. 68 to 78 ft. 78 to 86 ft. 86 to 96 ft.	120.or.m °F	more	
FINISH: AQUIFERS: WATER LEVEL: 65' PUMPING EQUIPM Capacity	ENT: TypePomo G.P.M. 1.5 ft. after ft. after Irrigation MATION GR Re CR J. T. Mille : er Level Measureme and avel, tight ter	ona_turbine		nore	

	CLACE	
Ji 1:0V 1:0 1960 🚟 🔰	413003 41.	-7 k(1)
File Original and	ELL REPORT G-4245 State Well No.	- / / ////
STATE ENGINEER, STATE O	FOREGON G1975 State Permit No.	
(1) OWNER:	(11) WFII, TESTS, Drawdown is amount w	ater level is
Name Joe Hershberger	(11) WELLI IESIS: lowered below static lev	
Address Canby, Oregon	Vield: 125 gal/min with 10 ft drawdowr	<u>foritter</u>
<u></u>	<u>210 " 20 "</u>	»
(2) LOCATION OF WELL	<u> </u>	4 "
County Clack Owner's number, if any-	Bailer test gal./min. with ft. drawdown	after hrs.
NW 14 5E 14 Section 7 T. 45 R. 1 E. W.M.	Artesian flow g.p.m. Date	
Bearing and distance from section or subdivision corner	Temperature of water 52° Was a chemical analysis mad	de? 🖸 Yes 🛨 No
2110'N & 250' W from th. SE	(12) WELL LOG: Diameter of well	10 inches
Corner of the SW/4 SE/4	Depth drilled 74 ft. Depth of completed we	ai 74 et
	Formation: Describe by color, character, size of material show thickness of aguifers and the kind and nature of the	and structure, and he material in each
• • • • • • • • • • • • • • • • • • •	stratum penetrated, with at least one entry for each ch	ange of formation
	MATERIAL	FROM TO
(3) TYPE OF WORK (check):	Surface Fill	0 7
New Well Deepening Reconditioning Abandon	Beaver dam	<u>'/ 16</u>
andonment, describe material and procedure in item 11.	Sand	16 29
(4) PROPOSED USE (check): (5) TYPE OF WELL:	<u>Cement gravel</u>	29 66
Domestic 🗍 Industrial 🗍 Municipal 📄 Rotary 🛄 Driven 📋	Black sand and gravel	68 74
Irrigation 🖄 Test Well 🗌 Other 🗌 🗌 Dug 🗌 Bored		
10 " Diam. from 0 ft. to 68 ft. Gage " Diam. from ft. to ft. Gage	Work started Sept 14 19 60 completed Se	pt 21 1960
(9) CONSTRUCTION:	(13) PUMP :	
Was well gravel packed? 🗌 Yes 😰 No Size of gravel:	Manufacturer's Name	
Gravel placed from ft. to ft.	Туре: Н	.P
Was a surface seal provided? Yes X No To what depth? ft. Material used in seal—	Well Driller's Statement:	
Did any strata contain unusable water? 🗋 Yes 🕞 No	This well was drilled under my jurisdiction ar	nd this report is
Type of water? Depth of strata	the to the best of my knowledge and belief.	
Metnoq of sealing strata off	NAME John Truman Miller	
(10) WATER LEVELS:	Address P 0 Box 42 Hubbard. One	gon
Static level 20 ft. below land surface Date		Q.Y.11
Artesian pressure lbs. per square inch Date	Driller's well number	
[Signed]	[Signed] <u>277</u> (Well Driller) License No. <u>277</u> Date Sept	30 10 60
	THETE IF MEASERADY	
	LEEIS IF NECESSARY)	

...

***** "

RECEIVED	613606
File Original and	LL REPORT State Well No. 4/1-7 L(1)
First Copy with the STATE ENGINEER, SALE OPECON	F OREGON (3973) State Permit No.
(1) OWNER: Name Mietor - Homan Ana Address Junti F Burg 21 Wood hurr	(11) WELL TESTS: Drawdown is amount water level is lowered below static level Was a pump test made? E. Yes □ No If yes, by whom? J.T. MILLER Yield: 195 gal./min. with 27tt. drawdown after hrs.
The second se	
(2) LOCATION OF WELL: County Classification Owner's number, if any- FAST 19 SW 14 Section 17 T. 115 R. 1 E W.M. Bearing and distance from section or subdivision corner	Bailer test gal./min. with ft. drawdown after hrs. Artesian flow 9 g.p.m. Date Temperature of water Was a chemical analysis made? Yes No
430 first South of The porta	(12) WELL LOG: Diameter of well inches. Depth drilled ft. Depth of completed well ft.
Starting -1	Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum nemetand with at least one entry for each change of formation
	MATERIAL FROM TO
(3) TYPE OF WORK (check):	Suctace 03
New Well 🕅 Deepening 🗌 Reconditioning 📋 Abandon 🗌	BLUE CLZY 326
abandonment, describe material and procedure in Item 11.	Cenert gravel 26 31
(4) PROPOSED USE (check): (5) TYPE OF WELL:	Grid. Je. L 1132+er 29 111
Domestic 🗋 Industrial 🗋 Municipal 📄 Rotary 🗋 Driven 🗍 Cable 🔣 Jetted 🗍	Sawa YSMahh Graver 41 43
Irrigation 🛐 Test Well 🗋 Other 🗌 Dug 🗌 Bored 🗌	graves - water 43 44
(6) CASING INSTALLED: ThreadedWelded 	- CEMENT GROUEL 44 58 Graver, somered 58 65 Savel
(7) PERFORATIONS: Perforated? E Yes □ No Type of perforator used M + LL K + 1 + e SIZE of perforations in. by in. SIZE of perforations from 4.0 ft. to 44.1 1.2 perforations from 4.2 ft. to 44.4 1.2 perforations from 4.2 ft. to 44.4 1.2 perforations from 4.2 ft. to 44.4 1.3 perforations from 4.2 ft. to 44.3 1.4 perforations from 4.3 ft. to ft. 1.3 perforations from 4.3 ft. to 6.3 ft. 1.4 perforations from ft. to ft. ft. ft.	
(8) SCREENS: Well screen installed 🗌 Yes 🗌 No	
Manufacturer's Name	
Type	
Diam. Slot size	Work started 19 . Completed 19
(9) CONSTRUCTION: Was well gravel packed? [] Yes [] No Size of gravel:	(13) PUMP: Manufacturer's Name
Gravel placed from $1_{\underline{\mathbf{U}}}$	Type:
Material used in seal	Well Driller's Statement: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Method of sealing strata off	NAME IT I AT 14. 1. EM
(10) WATER LEVELS: Static level ft. below land surface Date	Address 30 2 198 Filmors ore
Artesian pressure lbs. per square inch Date	Driller's well number
[Signed] Wister Hannish Date June 3	[Signed] J. Millin (Well Driller) (b = 3 5-9
(Owner)	License No
(USE ADDITIONAL SH	LEETS IF NECESSARY)

		CLAC	4/	$l_1 - \overline{\eta}$	$\gamma_{(i)}$
lieue	IVED	013007	-	÷.	.10
File Original and First Copy with the STATE ENGINEER, SALEM, OREGON	1959 STATE OF	OREGON	State Well No.	854	2
(1) OWNER: SALEN	OREGON	(11) WELL TESTS:	Drawdown is amount lowered below static lo	water lovel evel	l is
Address Box 233. Quinor	a, aller	Yield: / D gal./min. with	th 105 ft. drawdoy	m? wn after	H hrs.
		37 \$3	39		
(2) LOCATION OF WELL: County Control Owner's nu	umber. if any- G-949	""""""""""""""""""""""""""""""""""""""	h ft. drawdov	vn after	hrs.
HW 34 SW 34 Section 7 T	<u>45</u> R. E W.M.	Temperature of water Was	a chemical analysis m	nade? 🗌 Y	es 🕱 No
S 8° E, 2735 act From A	14 Com2 - of	(12) WELL LOG:	Diameter of well	6	inches.
Soction 7. 7. 45, R.IE,	W.M.	Depth drilled // ft.	Depth of completed v	well ///	<u>ft.</u>
	· · · · · · · · · · · · · · · · · · ·	Formation: Describe by color, ch show thickness of aquifers and t stratum penetrated, with at leas	aracter, size of materi he kind and nature of t one entry for each	al and stru the materi change of	cture, and al in each formation.
	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	MATERIAL		FROM	то
(3) TYPE OF WORK (check):	nditioning 🗖 Abordon 🗖	- Cont + C. I	- P	21	50'
Lepening Reconstruction Reconstructico Reconstructico Reconstructico Reconstructico Reconstructi	iure in Item 11.	terren Trans	+ granti	80'	109'
A) PROPOSED USE (check):	(5) TYPE OF WELL:			109'	111'
Domestic M Industrial [] Municipal	Rotary Driven				
Irrigation X Test Well 🗌 Other 🗍	Cable 🕃 Jetted 🗌 Dug 🗍 Bored 🗌	A. B	* 11	-	
(R) CASING INSTALLED.					
(b) CASING INSTALLED: IT	A ft. Gage				
			· · · ·		
	ft. Gage				
(7) PERFORATIONS: Pe	erforated? 🗌 Yes 📉 No		-	-	
Type of perforator used			999597 927 ·		
SIZE of perforations In. by			1 MAR		
perforations from	ft. to ft.				
perforations from	ft. to ft.		2		
perforations from	It. to It.				
(8) SUREENS: Well screen Manufacturer's Name	installed Ves No		λr τ		
Type	Model No			-	
Slot size Set from	ft. to ft. to				
Brain, Slot size Set from	ft. to ft.	Work started with 1	953 Completed	<u>67. 7.</u>	1953
(9) CONSTRUCTION: Was well gravel packed? Yes X No Siz	e of gravel:	(13) PUMP:	ير م ^م ر مند ن	a Co-	
Gravel placed from ft. to	ft.	Туре:		H.P	
Was a surface seal provided? [] Yes XNO Material used in seal-	To what depth?	Well Driller's Statement:			
Did any strata contain unusable water? 🗋 Y	es A No	This well was drilled und	ler my jurisdiction	and this :	report is
Type of water? Depth or	f strata	true to the best of my knowle	edge and belief.		
memod or searing strata or	1. <u></u>	NAME (Person, firm. cr	corporation) (T	ype or prin	t)
(10) WATER LEVELS:	l surface Date 🚊 🚅 🤊 /4	Address			
Artesian pressure lbs, per squ	are inch Date	Driller's well number			
Log Accented by:	<u>^</u>		·····		
[Signed] Event Ray 103 Date	June 1 , 1959	[Signed]	(Well Driller) Date	e]	. 19 59
	USE ADDITIONAL SH	EETS IF NECESSARY)	0		-,

WATER WELL REPORT JUN 1 2 100E	ntanta		<u></u>	J
(as required by ORS 537.765) WATER RESOURCES DEPT	or PRINT IN INK	(for of	ficial use c	only)
(1) OWNER: - SALEM, OREGON	(10) LOCATION OF WELL by le	gal descr	iption	:
Name CURTIS HULIT	CountyCLACKAMAS NH4 N	E ¹ ⁄4 of Section	<u>-8</u>	(
Address 25000 Barlow Rd	Township, Range, Compared to the second	17 11 Range is Ea	ust or West)	, WN
City CanbyState Orenon	Tax Lot Lot Block Subdivisior			
(2) TYPE OF WORK (check):	MAILING ADDRESS OF WELL (or nearest address)			
New Well . Deepening Reconditioning Abandon .				
f abandonment, describe material and procedure in Item 12.				
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(11) WATER LEVEL of COMPL	ETED W	ELL:	
Rotary Air C 690 Nen 719 Domestic 60 Thermal:	Depth at which water was first found	17		
Rotary Mud Dug II Irrigation Withdrawal Reinjection I	Artesian pressure	ow land surfa	ce. Date ili	dy 31,1
tele 🗗 Bored 🔲 Piezometric 🗆 Grounding 🖾 Test		per square in		
5) CASING INSTALLED. Steel Helded Steel Plastic	Depth drilled 407 Diameter of well b	elow casing h of complete		in
Threaded U Welded	Formation: Describe color, texture, grain size and struct	ure of materia	ls; and sho	1∂∠ w thickne
	and nature of each stratum and aquifer penetrated, with formation. Report each change in position of Static	at least one er Water Level a	ntry for eac	ch change te princir
"Diam. from	water-bearing strata.		muita	Periot
LINER INSTALLED: Steel Destic Threaded Waldad	MATERIAL	From	To	SWL
"Diam, from	TOPSOIL	1	6	
	CEMENT GRAVEL	6	19	
(6) PERFORATIONS: Perforated? U Yes A No	CLAY BROWN	19	25	
	CLAY CEMENTED COBBLES	25	49	
perforations from	CLAY BLUE	49	128	
nerforations from ft to ft		128	137	
		13/	107	
(7) SCREENS: Well screen installed? \Box Yes \Box No	CIAY GREY	107	497	
Manufacturer's Name		111	171	
iype	BLUE CLAY LAYERS IN SAND			
Diam. Slot Size				
Drawdown is amount water level is lowered				
(5) WELLIESIS: below static level				
Was a pump test made? If Yes I No If yes, by whom? Uriller				
$\frac{d}{dt}$ gal,/min. with $\frac{100}{100}$ ft. drawdown after $\frac{1}{2}$ hrs.				
Anr test gal./min. with drill stem at ft. hrs.	· · · · · · · · · · · · · · · · · · ·			
Artesian flow gr. m				
perature of water Depth artesian flow encountered ft.	note: Depth measured from top of well (ie. 1' abo	ve grou	nd leve
	Date work started May 16 85 /comp	leted M	ay 31	gr
(J) COINSINUCTION: Special standards: Yes L No Ly	Date well drilling machine moved off of well	M	ay 31	19 85
Well sealed from land surface to f	(unbonded) Water Well Constructor Certin	fication (if	applical	ble):
Diameter of well bore to bottom of seal	This well was constructed under my direct	upervision.	Material	s used ar
Diameter of well bore below seal	information reported above are true to my best	knowledge a	nd belief	•
Amount of sealing material	[Signed]	Date		, 19
How was cement grout placed?	(bonded) Water Well Constructor Certific	ation:		
	Bond <u>5834200</u> Issued by: <u>Tho</u>	tas Haun		
	(number)	(Surety Compan	y Name)	
Was pump installed?	(type or print name or	Water Well Con	nstructor)	
was a grive snoe used : Li Yes Li No Li Piugs	This well was drilled under my jurisdiction	n and this w	nort is t	me to ti
Type of Water? depth of strata ft.	best of my knowledge and belief:		-F-01 0 13 01	
Method of sealing strata off	(Signed) the hand the	k		
Was well gravel packed? 🖞 Yes 🗆 No Size of gravel: 3/8 minus	(Water Wett Const	ructor)		•••••
182 197 #	(Dated) JIVIAUL			

days from the date of well completion.

CLAC		
STATE ENGINEER (013015) Well	Record	STATE WELL NO. 4/1-8D COUNTY Clackamas
		APPLICATION NO. <u>GR-3691</u>
OWNER: George Vilstrup	MAILING ADDRESS: .	Route 2. Box 66
	CITY AND	
LOCATION OF WELL: Owner's No.	STATE:	Canby, Oregon
	., W.M.	
Bearing and distance from section or subdivision		
corner 800! S. & 340! E. of M. cor. Sec. 8		
Altitude at well		
TYPE OF WELL: Drilled Date Constructed 19	52	
Denth drilled 39 feet Denth cased 39 feet	+	Section 8
8 inch steel molded casing set to 39 feet		
FINISH:		
AQUIFERS:	<u>,</u>	
WATER LEVEL:		
10 feet below surface		
PUMPING EQUIPMENT: Type <u>Deming</u> turbi: Capacity <u>150</u> G.P.M.	ne pump 2" x	2" H.P. 2
WELL TESTS:		
Drawdown ft. after	hours 150	G.P.M
Drawdown ft after	hours	

USE OF WATER Irrigation	Temp °F	
SOURCE OF INFORMATION Well Registrat:	ion Statement	
DRILLER or DIGGER		
ADDITIONAL DATA:		
Log Water Level Measurements	Chemical Analysis Aquifer Test	

A A A				PE			()		1	_
r`.	STATEC	N FOREGON	Clack) इ.स.	新治療 <u>」</u> 算法生活 制制	' 4	5/	E	/ 7	fac
S	WATER W	ELL REPOR	t 16052	וס ל	EC - 6 1931 (s	TART CARD) # _3	643	5 1		
 	(1) OWNER		Weil Nu	mber: 117 58 H	(9) LOCATION	OF WELL by le	gal de	escript	ion:	_
Æ	Mar Harold	Workm	ian		County Clack	Latitude	· .	Longitud	e	
	City Auror	a	State OR.	Zip 97002	Township Section	N on S Range SW 1/4	NE		Eor W.	WM.
	(2) TYPE O	F WORK:			Tax Lot 800	_ Lot Block		Subd	ivision	
	New Well	Deepen	Recondition	Abandon	Street Address of W	ell (or nearest address) 😖	270	<u>a my</u>	74 E	
	(3) DRILL N Rotary Air	Rotary Mud	Cable	-	$\overline{(10)}$ STATIC W	ATER LEVEL:			÷	
	Other	,,	-			below land surface.		Date	10-2	20-91
	(4) PROPOS	SED USE:			Artesian pressure _	lb. per squa	are inch.	Date		
	Domestic L	I Injection	Other	gation	(11) WATER B	EARING ZONE	S:			
	(5) BORE H	OLE CONST	RUCTION:	A 114	Depth at which water was	first found				
	Special Construction	n approval Yes N es No 🗌 🛙	Depth of Comp	leted Well VIO ft.	From	47 '	Estin	nated Flow	/ Rate	SWL 291
	Explosives used	Type	Amount	······································	115'	120'		OGP	M	341
	HOLE	To Materia	SEAL From To	Amount sacks or pounds	122'	140'	10	OBF	°M	34'
	124 0	20 ceme	nt 0 20	- 20 sacks	(19) WELLIO					
	6" 20	140				Ground elevati	on			
		rt. A			Ton soil	Materia		From	2	SWL
	How was seal placed	: Method 🗌 A	□ B P C . □ D	E	clay, sand	brown, fine		2	$\overline{\Pi}$	
	Backfill placed from		it. Material		clay, brow	n fin	_		34	
	Gravel placed from	ft.'to	fi Size of gravel		aravel. con	pocted me	d	75	97	29'
	(6) CASING	/LINER:			clay, sand	brown, fin	e	97	100	
	Casing: Diameter	+18" 115"	Gauge Steel Plastic	Welded Threaded	Clay, blue	and in a		100	115	
					clay, brown	graver, mea	,	120	122	
					gravel, con	npacted		122	140	
	Liner: 7"00	100' 140' .	188 8 -		1	a construction of the second sec				
	Physical and the state of the			, _ ,						
	(7) PERFOR	RATIONS/SC	REENS:							
	X Perforation	ns Method	Torch	·						
	Screens		Materi	a						
	From To	Slot size Number	Tele/pipe Diameter size	Casing Liner						
	112' 140'	HY6 60								
		-						· ·		
		<i>.</i>							A	
					Date started 10- LA	Comj	pleted 1	0-21	<u>~ 1</u>]	
	(8) WELL T	ESTS: Minim	um testing time is	1 hour	(unbonded) Water V I certify that the	Vell Constructor Center work I performed on	r tificat n the co	ion: onstructio	on, alter	ation, or
	🗌 Pump	Bailer	Air Air	Artesian	abandonment of this standards. Materials u	well is in compliance sed and information r	e with eported	Oregon v above ar	well cons e true to	struction my best
	Yield gal/min	Drawdown	Drill stem at	Time	knowledge and belief.			WWO NI	mhor	
	150		139	1 hr.	Signed		Ľ	ate	mber	
					(bonded) Water Wel	l Constructor Certif	ication			
	Temperature of wate	54	Depth Artesian Flo	w Found	I accept responsi work performed on the	bility for the construction well during the construction	tion, al	teration,	or aban	donment
	Was a water analysis	s done? 🗌 Yes_	By whom		work performed dur	ing this time is in	compli	iance wi	th Oreg	gon well
	Salty Mudd	y 🗋 Odor 🗌 Col	lored D Other	oo nittie	belief.	s. This report is true	io the b V	WWC Nu	mber []	eage and
	Depth of strata:			a - a	Signed Koblit	Ken	C	ate //-	8-9	[
	ORIGINAL & FIRS	T COPY - WATER	RESOURCES DEPART	MENT SECON	ND COPY - CONSTRUCTO	DR THIRD COL	PY - CUS	TOMER		9809C 3/88
STATE OF OPECON	EGENVED 4/5/1/7/									
---	--									
WATER WELL REPORT (17817)	AR 31 1992 (START CARD) $\#$ 35719									
(1) OWNER: Well Number: 2405	(9) LOCATION OF WELL by legal description:									
Name TOM PlerSON	County <u>AC</u> Latitude Longitude									
$\frac{\text{Autress}}{\text{City}} = \frac{20090}{\text{Attrona}} = \frac{11}{100} \frac{11}{9912} = \frac{11}{100} \frac{11}{100} \frac{11}{100} 11$	- Township 4.5 Nor S. Range LE E or W. W.									
	$= \frac{\text{Section}}{1102} + \frac{1102}{1102} + 11$									
(2) IIPE OF WORK:	Tax Lot Block Subdivision									
A New Well Deepen - Recondition Adandon	25393 S Hwy 99E Aurora. Or.									
(3) DRILL METHOD										
Def Rotary Air □ Rotary Aud □ Cable	$\begin{array}{c} (10) \text{ SIAIIC WATER LEVEL:} \\ 62 \\ 62 \\ 707 \\ $									
(A) PROPOSED LISE:	t, below land surface. Date 5727									
$\begin{array}{c} (4) \mathbf{I} \mathbf{ROI} \mathbf{OSED} \mathbf{OSE3} \\ \hline \mathbf{W} \mathbf{D}_{\mathrm{summation}} \mathbf{D} \mathbf{L}_{\mathrm{summation}} \\ \hline \mathbf{M} \mathbf{D}_{\mathrm{summation}} \mathbf{D} \mathbf{L}_{\mathrm{summation}} \\ \hline \mathbf{M} \mathbf{D}_{\mathrm{summation}} \\ \hline \mathbf{M} \mathbf{M} \mathbf{M} \\ \hline \mathbf{M} \mathbf{M} \mathbf{M} \\ \hline \mathbf{M} \mathbf{M} \\ \hline \mathbf{M} \mathbf{M} \mathbf{M} \\ \hline \mathbf{M} \mathbf{M} \\ \hline \mathbf{M} \mathbf{M} \mathbf{M} \\ \hline \mathbf{M} \mathbf{M} \mathbf{M} \mathbf{M} \mathbf{M} \\ \hline \mathbf{M} $	Artesian pressure lb. per square inch. Date									
Thermal Injection Other	(11) WATER BEARING ZONES:									
(5) POPEHOLE CONSTRUCTION.	Depth at which water was first found									
Special Construction approval Yes No Depth of Completed Well 125	From To Estimated Flow Rate									
Yes No. Z	118 125 30 GPM									
Explosives used Type Amount	-									
HOLE SEAL Amount										
Diameter From To Material From To sacks or pounds										
6" 19 125	(12) WELL LOG:									
· · · · · · · · · · · · · · · · · · ·	Material From To									
How was seal placed: Method A B XXXC D D E	$\begin{array}{c c} 100 & \text{soll} \\ \hline \\ Clove & \text{brown} \\ \hline \\ \end{array} \qquad 0 24$									
Other	- Clay sand brown fine 24 46									
Backfill placed from ft. to ft. Material	- Sand, brown, fine 46 48									
Gravel placed fromft, toft, Size of gravel	- Clay, sand, brown, fiee 48 77									
(6) CASING/LINER:	Gravel, compacted 77 83									
Diameter From To Gauge Steel Plastic Welded Threade	Clay, sand, brown, fine 83 94									
Casing: 6'' + 18'' 119.250 X	Gravel, compacted 94 96									
	Clay, blue 96 118									
	Sandstone, black 118 125									
	, , , , , , , , , , , , , , , , , , , ,									
Final location of shoe(s)										
(7) PERFORATIONS/SCREENS.										
	· ·									
Screeps Turne Material										
Slot Tele/nine										
From To size Number Diameter size Casing Liner										
	2/20/00									
	Date started 3/20/92 Completed 3/27/92									
(9) WEII TESTS. Minimum testing time is 1 hour	 (unbonded) Water Well Constructor Certification: 									
(b) WELL TESTS. Minimum testing time is Thour	I certify that the work I performed on the construction, alterat									
🖵 Pump 🖾 Bailer - 🗶 Air 🖾 Artesian	standards. Materials used and information reported above are true to m									
Yield gal/min Drawdown Drill stem at Time	knowledge and belief.									
	VWU Number									
<u> </u>	Digned Date									
<u>123 1hr.</u>										
30 123 1hr.	(bonded) Water Well Constructor Certification:									
Temperature of water	(bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abando work performed on this well during the construction dates reported abo									
30 123 1 hr. Temperature of water 54	(bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abando work performed on this well during the construction dates reported abo work performed during this time is in compliance with Oregon									
30 123 1 hr. Temperature of water 54 Was a water analysis done? Yes By whom Did any strata contain water not suitable for intended use? Too little	 (bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abando work performed on this well during the construction dates reported above work performed during this time is in compliance with Oregon construction standards. This report is true to the best of my knowled belief. 									
30 123 1 hr. Temperature of water 54	(bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abando work performed on this well during the construction dates reported abo work performed during this time is in compliance with Oregon construction standards. This report is true to the best of my knowled belief.									

	clas.			ecente
MONTRODINC WELL DEDODT	52643		r	
(as required by ORS 537.765 & OAR 690-240-095)	WELL [.D. # 11486	6 Start Card # .95212	U	<u>ur % is 1997</u>
Instructions for completing this report are on the las	t page of this form.			S DEF
(1) OWNER/PROJECT: WELL NO	D	6) LOCATION OF WELL By l	egal description	on v
Name Pacific Rock Products, LLC		Well Location: County Clackamas	3	
Address Van Couver WA		Iownship 4.3 (N or S) Range .	$\underline{\mathbf{E}} (\mathbf{E} \text{ or } \mathbf{W})$	Section 8
City Van Couver State WA	<u>Zip</u> 98002	IIA JIA JIA JIA <td>25000 S</td> <td>1. Barlow Pd</td>	25000 S	1. Barlow Pd
(2) TYPE OF WORK:		Canby. OR.	23000 3.	Dallow Ku.
X New construction Alteration (Repa	ir/Recondition)	or Tax lot number of well location 80		
Conversion Deepening	Abandonment	3. ATTACH MAP WITH LOCATION I	DENTIFIED. M	ap shall include
		approximate scale and north arrow.		-
(3) DRILLING METHOD		7) STATIC WATER LEVEL:	_	
X Rotary Air Rotary Mud		5 Ft. below land surface.	Date <u>9/2</u>	<u>5/97</u>
Hollow Stem Auger Other		Artesian Pressure lb/sq. in.	Date	
(4) POPEHOIE CONSTRUCTION		8) WATER REARING 70NES	•	
Ye Ne	(Depth at which water was first found)' (lst si	onificant)
ICS INO Special Standards I II Depth of completed	well 75 ft	From To Fet	Flow Rate	SWI
	<u></u>	SWL 75 1	.0+	see(7)
Protective casing	Locking cap			
	Protective post			
ement monument				
Land surface		9) WELL LOG: Ground elev	ration	
Monument	Casing 2	Material	From	To
	- diameter 2 in.	Top Soil		6 SWL
	Wolded Threaded Clued	Clay grey soft sandy		
		gravel 3/4" minus and		<u> </u>
		sand Med.	9 10	4
30 00	diameter in.	Sand Med.	14 10	5
	material	gravel 1" minus sand med	1 16 4	5
	Welded Threaded Glued	Clay, grey Med soft	46 62	
Seal o'o		Sand Med fire cemented	62 6	5
1 ft.	— Well seal:	Clay, grey soft	<u>65</u> 79	<u>5</u>
TO 2 0000 AUGOC	Material <u>3/8 hole plug</u>	·		
<u>4</u> ft.	Amount 50 LBS.			
	Grout weight		<u> </u>	
3D.O	Borehole diameter		<u> </u>	<u> </u>
	Bentonite plug at least 3 ft, thick			
Filter (as as Filter	Screen		<u> </u>	
	material PVC			
	interval(s):			
70 J Soon E Soon	From <u>5</u> To <u>75</u>			
	From To			
	Slot size .010 in.			
	Filter pack:	Date started 9/23/97	Completed 9/	23/97
	$\frac{\text{Material}}{10-20} \qquad \qquad$	unbonded) Monitor Well Constructor Cert	ification:	
	<u>Size</u> <u>10 20</u> in.	I certify that the work I performed on th	e construction, alt	teration, or
(5) WELL TEST:	Flowing Artesian	bandonment of this well is in compliance tandards. Materials and information	with Oregon well	construction to the best
An Dermeshility Vield 1) GPM	knowledge and beief.	WC	Number10101
Conductivity PH	OLM	im The Martin		10/10/97
Temperature of water 54 °FXX Depth a	rtesian flow found ft.	yu ngu		
Was water analysis done? Yes X No	()	bended) Monitor Well Constructor Certific	cation:	
By whom? Schneider Drilling Co	<u></u>	I accept responsibility for the constructi	on, alteration, or a	abandonment
Depth of strata to be analyzed. From	_ ft. toft.	work performed during this time is in com	pliance with Oreg	on well construction
Remarks:	S	tandards. This report is true to the best o	f my knowledge a	nd belief.
`		AND.	MWC	Number 10115
Name of supervising Geologist/Engineer H.G.	Schlicker & Assoc.	Signed Aughin Hohmer	<u>L</u> Date	10/10/97
ORIGINAL & FIRST COPY-WA	EN RESOURCES DEPENTMENT	SECOND COPY-CONSTRUCTOR THI	RD COPY-CUST	OMER

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STATE OF ODECON	clac	OCT 2.0 1997	neu	EIVED
MONITORING WELL REPORT (as required by ORS 537.765 & OAR 690-240-095)	52644 WELL I.D. # 1. 148	ATER RESOURCES DEPT	3	
Instructions for completing this report are on the las	st page of this form.	ORLEM, OREGON		
(1) OWNER/PROJECT: WELL N	0	(6) LOCATION OF WELL By I	egal description	
Name Pacific Rock Products, LLC		Well Location: County Clackama	s	
Address 8705 NE 117th Ave.		Township 4S (N or S) Range	$1E_{(E \text{ or } W)}$ Se	ctio <u>n 8</u>
City Vancouver State WA	_{Zip} 98662	1. <u>NW</u> 1/4 of <u>NW</u> 1	/4 of above section.	
(2) TYPE OF WORK:		2. Either Street address of well location	25000 S. E	arlow Rd.
(-,		Canby, OR.		
X New construction Alteration (Repa	air/Recondition)	or Tax lot number of well location	800	
Conversion Deepening	Abandonment	3. ATTACH MAP WITH LOCATION I	DENTIFIED. Map	shall include
		approximate scale and north arrow.	··•	
(3) DRILLING METHOD	-	(7) STATIC WATER LEVEL:		
X Rotary Air	Cable	6 Ft. below land surface.	Date 9/25/	97
Hollow Stem Auger		Artesian Pressure lb/sq. in.	Date Date	
BORE HOLE CONSTRUCTION		(8) WATER BEARING ZONES	:	
Vac No		Depth at which water was first found	lO' (1st sig	nificant)
Special Standards \square \blacksquare Depth of completed	iwell 75 fr	From To Fet 1	Flow Rate	SWI
	t	SWL 75 10-		see(7)
Protective casing	—— Locking cap			
	Protective			
	post			
🔌 📖		(9) WELLIOC: Count due		
Land surface	-8-	(3) WELLEOG. Ofound ele		
Monument	Casing	Material	From T	SWI
	diameter 2 in	Ton Soil		, 52
	material FVC	Clay brown coft		
$70 \langle 0080 \rangle$	Welded Threaded Glued	Clay Drown soft		
$\frac{1}{2}$ ft $\frac{1}{2}$ $\frac{1}{2}$ ft $\frac{1}{2}$			$\frac{5}{10}$	2
0205	Liner	graver 1" minus & Sand Med	10 2	
32037	diameter in.	Banki brown Med	29 3	2
	material	gravel 2 minus & Sand Med	32 3	
	Welded Threaded Glued	band brown Med	35 3	3
Seal Seal		Sand Brown Med w/ clay	38 4	5
$-1_{\text{ft.}}$		Clay Grey Med	46 49	9
TO COSC COSC	Material <u>3/8Hote</u> P1	ug Sand Brown Med course	49 54	4
	Amount 50 LBS.	Clay Grey Med	54 58	3
	Grout weight	gravel 3/4" minus & Sandy		
	Borehole diameter	Black	58 66	5
	in.	Clay Grey Med	66 69)
	Bentonite plug at least 3 ft. thi	ck Sand Med Fine	69 74	+
Filter (C C C C C C C C C C C C C C C C C C	Screen	Clay Grey Med	74 75	5
	— material PVC			
4 ft. 家P2%3 目 家P2%3	interval(s):			
	From 5 To 75			
75ft \ \$6.51 E	From To	•		
	Slot size .010 in.			
	Filter pack:	Date started 9/16/97	Completed 9/17	7/97
	Material CSSI	•••		
	Size 10-20 in	(unbonded) Monitor Well Constructor Cer	tification:	
		- I certify that the work I performed on the	ne construction, altera	tion, or
(3) WELLIEDI:	Elowing Artesian	abandonment of this well is in compliance standards. Material assed and information	with cregon well com	ustruction the best
Alf Pump Danet Alf		knowledge and brief.	A NIL	mber 10101
PermeabilityYield	TA OLW	KOI MA SI		0/10/07
Conductivity PH		Signed	Date	0/10/9/
Temperature of water <u>-</u> + °F/C Depth	artesian flow foundft	(handrad) Manitan Well Control of the	ontion	
Was water analysis done? Yes A No		Laccept responsibility for the construct	cation: ion, alteration or aba	ndonment
By whom? Schneider Drilling (work performed on this well during the co	nstruction dates repor	ted above. All
Depth of strata to be analyzed. From	ft. toft.	work performed during this time is in com	pliance with Oregon	well construction
Remarks:		standards. This report is true to the best of	t my knowledge and	beliet.
<u>u</u>	Cablickon & Acces			imber IUIIS

ising Geologist/Engineer H.G. SCH11CKET & ASSOC. ORIGINAL & FIRST COPY-WATTERETOUTHER DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER Name of supervising Geologist/Engineer H.G. Schlicker



STATE OF OREGON OCT 2 0 1% MONITORING WELL REPORT Well I, D, # L14865 Start Card # _95214 NATER RESOURC Start Card # _95214 NATER RESOURCE Start Card # _9725/97 (3) DRILLING METHOD Conversion Cable Boother Card Hollow Stem Auger Abandomment Casing dumeter
MONITORING WELL REPORT WELL NO. Start Card #95214 //ATER RESOURC Instructions for completing this report are on the last page of this form. Start Card #95214 //ATER RESOURC (1) OWNER/PROJECT: WELL NO. Start Card #95214 //ATER RESOURC Nume Pacific Rock Products LLC Well Location: County Clackamas Start Card #95214 //ATER RESOURC Addres 8705 NE 117ch Ave Well Location: County Clackamas Start Card #95214 //A clabove section. (2) TYPE OF WORK: State WAZip_ 98662 Nors Shange1E(Eor W) Section8 Nors Shange1E(Eor W) Section8 (2) TYPE OF WORK: Type of WORK: The store address of well location700 To wroship4S(Nor S) Range1E(Nor R) Range1E(Nors R) Range1E
1) OWNERPROJECT: WELL NO. (6) LOCATION OF WELL By legal description Name Pacific Rock Products LLC (6) LOCATION OF WELL By legal description Well Location: County Clackamas City Vancouver State State WA Zip (2) TYPE OF WORK: (1/4 of above section. 2 (2) TYPE OF WORK: (1/4 of above section. 2 (3) DRILLING METHOD (1/2 of above section. 2 (X) Rotary Air (Addres) Rotary Mud Cable (Y) Rotary Air (Addres) Other (Y) New Construction Abandonment (700 (Y) Rotary Air (Addres) (Addres) (Y) Rotary Air (Addres) (Addres) (Y) New Construction (Addres) (Addres) (Y) Net of ompleted well Casing (Y) (Y) (Y) New Construction (Addres) (Y) (Y) (Y) New Construction (Y) (Y) (Y) (Y) New Construction (Y) (Y) (Y) <t< th=""></t<>
Autrestitic Rock Products LLC Well Location: County Clackamas Variable Area Variable Area
address B705 NE 117th Ave Yuy Vancouver State WA Zip 98662 Zip YPF OF WORK: Xip Vancouver State WA Zip 98662 Zip YPF OF WORK: Xip Vancouver Xip New construction Attention Alteration (Repair/Recondition) Conversion Deepening Abandonment Abandonment State Abandonment Attention Deepening Abandonment Abandonment State Abandonment Attention Repair Mathematic Attention Repair Mathematic <tr< td=""></tr<>
Vancouver State WA zip 98662 2) TYPE OF WORK: Image: Conversion <
2) TYPE OF WORK: 2. Either Street address of well location 25000 S. Barlow Rd. Canby, OR. X New construction Deepening Abandonment 3) DRILLING METHOD 3. ATTACH MAP WITH LOCATION IDENTIFIED. Map shall include approximate scale and north arrow. 3) DRILLING METHOD 3. ATTACH MAP WITH LOCATION IDENTIFIED. Map shall include approximate scale and north arrow. 3) DRILLING METHOD 3. ATTACH MAP WITH LOCATION IDENTIFIED. Map shall include approximate scale and north arrow. 3) DRILLING METHOD Cable 1.3 Matorial Stem Auger Other 1.5 1.5 Hollow Stem Auger Other 1.6 1.6 Yes No Period completed well 75 ft. pecial Standards X Depth of completed well 75 ft. ment monument Casing diameter 2 in. I.n. Casing diameter 2 in. Material PVC material PVC Material Prom To Swl 46 Sand Med & gravel 1 1/4" minus Sand Med 5 30 Sand Med w/Clay 30 33 46
X New construction Alteration (Repair/Recondition) Conversion Deepening Abandonment Abandonment Approximate scale and north arrow. B) DRILLING METHOD (7) X Rotary Air Rotary Mud Cable Hollow Stem Auger Other 13 FL below land surface. Date Abandonment (7) STATIC WATER LEVEL: 13 FL below land surface. Date Abore HoLE CONSTRUCTION (8) WATER BEARING ZONES: Depth at which water was first found 15' (1st. significant Y Seal Depth of completed well 75 ft. SwL SwL Y Depth of completed well 75 ft. SwL SwL SwL Y Depth of completed well 75 ft. SwL SwL SwL Y Sard Med & gravel 1 1/4'' Interial SwL SwL SwL SwL Onument Soft Soft Sard Med & gravel 1 1/4'' Interial From SwL Y Soft Material Soft Sand Med & gravel 1 1/2''
□ Conversion □ Deepening □ Abandonment 3. ATTACH MAP WTTH LOCATION IDENTIFIED. Map shall include approximate scale and north arrow. 3) DRILLING METHOD ① (7) STATIC WATER LEVEL: □ (7) STATIC WATER LEVEL: □ (7) STATIC WATER LEVEL: △ BORE HOLE CONSTRUCTION ① (7) STATIC WATER BEARING ZONES: □ Date □ Date A BORE HOLE CONSTRUCTION Yes No □ Depth of completed well 75 ft. (8) WATER BEARING ZONES: □ nent monument □ Depth of completed well 75 ft. □ Depth of completed well 75 ft. □ Dethick water was first found 15' (1st significant □ ft. □ (7) STATIC WATER LEVEL: □ (8) WATER BEARING ZONES: □ Depth at which water was first found 15' (1st significant □ nument □ (25) 0 (1 material) □ Depth of completed well 75 ft. □ (9) WELLLOG: □ (9) WELLLOG: □ nument □ 0 (25) 0 (1 material) □ 0 (25) 0 (1 material) □ (1 material) □ (1 material) □ 1 ft. □ 0 (25) 0 (1 material) □ 0 (25) 0 (1 material) □ (25) 0 (1 material) □ (25) 0 (1 material) □ 1 ft. □ 0 (25) 0 (1 material) □ 0 (25) 0 (1 material) □ (25) 0 (1 material) □ (25) 0 (1 material) □ 1 ft. □ 0 (25) 0 (1 material) □ 0 (25) 0 (1 material) □ 0 (25) 0 (25) 0 (1 material)
3) DRILLING METHOD (7) STATIC WATER LEVEL: 13 Rotary Air Rotary Mud Cable Hollow Stem Auger Other 13 Ft. below land surface. Date 9/25/97 A* BORE HOLE CONSTRUCTION (8) WATER BEARING ZONES: pecial Standards X Depth of completed well 75 ft. recetive casing Locking cap Protective post SWL 75 10+ see(7) onument Casing Locking cap Protective post in. Material From To SWL 1 ft. Casing Liner in. Material From To SWL 1 ft. Sofd Iner Iner Iner Material From To SWL Seal Sofd Iner Iner Iner Iner Med Sand Med 5 30 Seal G& G Welded Threaded Glued Sand Med Sand Med Sand Med Sand Med Sand Med Sand Med Sand Med Sand Me
Image: Construction of the completed well of the complete
☐ Hollow Stem Auger Other Artesian Pressure Ib/sq. in. Date A retesian Pressure Ib/sq. in. Date Yes No No No pecial Standards Image: Depth of completed well 75 ft. State in Pressure Ib/sq. in. Date rotective casing Image: Depth of completed well 75 ft. From To Est. Flow Rate SWL Iand surface Protective post Protective post Image: Depth at which water was first found 15' (1st. significant Onument Casing Gammeter 2 in. Image: Depth at which water was first found 15' (1st. significant Ont Casing Gammeter 2 in. Image: Depth at which water was first found 15' (1st. significant Ont Casing Gammeter 2 in. Image: Depth at which water was first found 15' (1st. significant Ont Casing Gammeter 2 in. Image: Depth at which water was first found 15' (1st. significant Ont Casing Gammeter 2 in. Image: Depth at which water was first found 15' (1st. significant Ont Casing Gammeter<
A BORE HOLE CONSTRUCTION (8) WATER BEARING ZONES: ipecial Standards X Depth of completed well 75 ft. rotective casing Image: Casing Image: Casing Image: Casing Image: Casing ionument Image: Casing Image: Casing Image: Casing Image: Casing Image: Casing Image: Casing Image: Cas
Yes No Depth of completed well 75 ft. Depth at which water was first found 15' (1st. significant rotective casing Image: Casing diameter 2
pectal Standards A Depth of completed well 73 ft. rotective casing Locking cap ment monument Protective post Land surface Protective post onument Casing
Instrument
Image: concentration of the second
Image: ment monument post Land surface Casing Onument Casing On ft. Coso material PVC TO Soo material PVC Int. Soo Material From To SWL Seal Soo Liner Inn. Material Sand Med Sand Sand Seal Soo Material Material Sand Material Sand Sand Seal Soo Material Sand Sand Sand
Inent monument Casing Onument Casing O. ft. Cosing O. ft. Cosing O. ft. Cosing Object Material From To Sold Cosing Imaterial PVC Material From Sold Cosing Material From To Cosing Sold Cosing Material From To Sold Sold Cosing Material From Sold Cosing Material Material Sold Cosing
Land surface (9) WELLLOG: Ground elevation onument 0. ft. 0. ft. 0. ft. 0. ft. 1 ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. 0. ft. ft. 0. ft. 0. ft. 0. ft. ft. ft. 0. ft. 0. ft. ft. ft. ft.
Onument Casing 0. ft.
And meterial Prom 10 SWL 0. ft. 0. ft. material PVC Sand Med & gravel 1 1/4" Image: constraint of the second se
0. ft. 5000 material PVC Said red & gravel 1 1/4 70 5000 5000 Welded Threaded Glued minus 0 5 1 ft. 5000 5000 Imaterial PVC minus 0 5 1 ft. 5000 5000 Imaterial Imaterial Imaterial 0 5 1 ft. 5000 5000 Imaterial Imaterial Imaterial Imaterial 30 33 80 80 80 80 80 80 33 46 1 6000 6000 11/2" minus Sand Med w/Clay 30 33 80 80 80 80 80 80 80 11/2" minus Sand 80 80 80 80 80 80 80 80 33 46 1 10 11/2" 11/2" 11/2" 11/2" 11/2" 11/2" 11/2" 1 10 10 10 10 10 10
TO O State Welded Threaded Glued Infinitis O State 1 ft. 6000 1
I ft. So G I X gravel 1 minus sand red 5 50 No So G Liner Sand Med w/clay 30 33 33 No So G Liner in. gravel 1 1/2" minus Sand Image: Sand Med w/clay 30 33 No So G No So G Liner in. gravel 1 1/2" minus Sand Image: Sand Med w/clay 33 46 Seal Seal Seal Seal Sand Med w/clay 46 57
Seal Sand Med w/clay 30 33 30 33 1 30 <
Seal
Seal Med 33 46 Seal Seal Med Seal Med Seal
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Seal Seal Med Fine 57 60
$\frac{1}{1}$ ft. $\frac{1}{100}$ Well seal: $\frac{1}{100}$ Well seal: $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$
Material 5/8 hole plug Sand Med & gravel 1 1/2"
4 ft. $308 amount$ $50 LD$ $63 75$
Grout weight
BD S Borehole diameter
Bentonite plug at least 3 ft. thick
nook See See DVC
Pare stated <u>9/22/9/</u> Completed <u>9/22/9/</u>
\bigcirc
I certify that the work L performed on the construction, alteration, or
W 12421 1 105 1. abandonment of this were is in compliance with Oregon well construction XX Pump Bailer Air Flowing Artesian standards. Materials used and information above are true to the best
Permeability Yield 10 GPM knowledge and the factor of the dost of
Conductivity PH Signal All Signal
Temperature of water 54 °F/C Depth artesian flow found ft
Was water analysis done? Yes X No
By whom? Schneider Drilling Co
Depth of strata to be analyzed. From ft to ft work performed on this well during the construction dates reported above. All
Remarks:
ATTICA MWC Number 1011

ising Geologist/Engineer H.G. Schlicker & Assoc. ORIGINAL & FIRST COPY-WATER DESOLUTION DESOLUTION SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER Name of supervising Geologist/Engineer H.G. Schlicker & Assoc.



STATE OF OREGON CLAC			RECEIVE
MONITORING WELL REPORT as required by ORS 537.765 & OAR 690-240-095) WELL I.D. # Instructions for completing this report are on the last page of this form.	L14868 Start Car	d #95215	OCT 2 0 1997
1) OWNER/PROJECT: WELL NO	(6) LOCATION OF	WELL By legal desc	ATER RESOURCES
Jama Pacific Rock Products UC	Well Location: County	Clackamas	SALEM, OREGO
Address 8705 NE 117th Ave.	Township 4S (N	Lor S) Range 1E (E.	or W) Section 8
State WA Zip 98662	1, NE 1/4 of	NW 1/4 of above s	section.
2) TYPE OF WORK:	2. Either Street address	of well location 25000 S Canby, OR.	. Barlow Rd.
X New construction Alteration (Repair/Recondition)	or Tax lot number of we	l location 800	
Conversion Deepening Abandonment	3. ATTACH MAP WITH approximate scale and r	I LOCATION IDENTIFIE	D. Map shall include
3) DRILLING METHOD	(7) STATIC WATE	R LEVEL:	
🔀 Rotary Air 🗌 Rotary Mud 🗌 Cable	10Ft. below	v land surface. Date 9	/25/97
Hollow Stem Auger Other	Artesian Pressure	lb/sq. in. Date	
BORE HOLE CONSTRUCTION	(8) WATER BEAR	ING ZONES:	st significant)
ICS NO necial Standards TY Denth of completed well 75	t From To	Est Flow Pote	Cun
An Deput of completed wein 12	" <u>SWL</u> 7'	5 104 Kate	<u>SwL</u>
cotective casing Locking cap		<u> </u>	<u>See(7)</u>
Protective			
ament monument			
and surface	(9) WELLLOG:	Ground elevation	
nument Casing	in Material	From	To
0 a Boss Burger Dec	Top Soil	<u></u>	
$-\frac{1}{10}$ material $\frac{1}{100}$ material $\frac{1}{100}$	Clay Brown Soft		12
	oravel 1" minus	& Sand Med 12	
	Sand Brown Med y	$\frac{12}{\sqrt{Clav}}$	
	Sand Brown cours	$\frac{1}{2}$	63
	Clay grey Med	<u>~ 47</u> 63	67
Wolded Threaded	Sand course & or	avel 1 3/4"	
		67	75
$\frac{1}{10}$	e Plug		
4 f	S.		
S S S Brehole diameter			
aDee in			
2 2 2 2 2 2 2 2 2 2	t 3 ft_thick		
Filter			
pack 6.8 H PVC			
4 ft. 90.02 = 90.02 interval(s):			
$\overline{70}$	75		
75 _{ft.} ງ 😂 ຣັອ 🗧 😂 ຣັອ From Το			
Slot size010	in		
\mathbf{F}	Date started 9/18/	97 Completed	9/19/97
CSSI CSSI			
\subseteq Size $10-20$	in. (unbonded) Monitor Well	Constructor Certification:	on alteration or
) WELLTEST:	abandonment of this wet	is in compliance with Oregon	i well construction
Pump Bailer Air Flowing Artes	n standards. Materials used	and information reported ab	ove are true to the best
Permeability Yield 10 GPM	knowledge and the	M have	WC Number 10191
ConductivityPH	Signed	The	Date 10/10/97
Temperature of water 54 °F/X Depth artesian flow found	ft	~/	
Was water analysis done? Yes X No	(bonded) Monitor Well Co	onstructor Certification:	n or aband
By whom? Schneider Drilling Co.	work performed on this w	ell during the construction, alteration da	n, or abandonment ates reported above. All
Depth of strata to be analyzed. From ft. to	ft. work performed during th	is time is in compliance with	Oregon well construction
Remarks:	standards. This report is 1	true to the best of my knowle	dge and belief.
	- th	$(\land \land \land \land$	MWC Number 10115
Name of supervising Geologist/Engineer H.G. Schlicker & A	SOC. Signed Malam	Albrud	Date 10/10/9/

ORIGINAL & FIRST COPY-WATE SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER



RECEIVED	WELLID#	# 125020
STATE OF OREGON AUG 1 6 1999 CU WATER SUPPLY WELL REPORT 54	AC	" 104155
Instructions for completing this rep MATED RESOLDEES the Rorm.	(START CARD)	#
(1) OWNER: Well Number	(9) LOCATION OF WELL by legal de	escription:
Name Cid Miller	County CLARKAMAS Latitude	Longitude
Address 7205 S Long Eldon Bd	Township Δ_{c} N or S Rang	E or W. WM.
City Carby State Or Zipo7/113	Section <u>B</u> <u>Giu</u> 1/	/4 1/4
(2) TYPE OF WORK	Tax Lot <u>1200</u> · Lot Block	Subdivision
New Well Deepening Alteration (repair/recondition) Abandonment (3) DRILL METHOD:	Street Address of Well (or nearest address))
🗌 Rotary Air 🔄 Rotary Mud 💭 Cable 🔤 Auger	(10) STATIC WATER LEVEL:	
Other	ft. below land surface.	Date
(4) PROPOSED USE:	Artesian pressure lb. per so	quare inch. Date
Domestic Community Industrial X Irrigation	(11) WATER BEARING ZONES:	
(5) BORE HOLE CONSTRUCTION:	Depth at which water was first found3	1
Special Construction approval Yes No Depth of Completed Well 332 ft.		
Explosives used Yes No Type Amount	From To	Estimated Flow Rate SWL
HOLE SEAL	3140	31
Diameter From To Material From To Sacks or pounds		
)16 1 50 Bentonite 1 \$0 26 sacks		
12 50 332		
	(12) WELL LOG:	
How was seal placed: Method $\square A \square B \square C \square D \square E$	Ground Elevation	
Other Granular bentonite method		
Backfill placed from ft. to ft. Material	Material	From ToSWL
Gravel placed from 180 ft. to 332 ft. Size of gravel pea	Soil	<u>1</u> 4
(6) CASING/LINER:	Clay, Bn, sandy	4 29
Diameter From To Gauge Steel Plastic Welded Threaded	Слау, Вгомп	29 52
	Clay, grey	
	Cemented Gravel	
	Lizy, grey	
	Sand, Diack	
	Liay, grey	140 168
	Clay, green	170 100
(7) PERFORATIONS/SCREENS:	Sand comported	199 205
Perforations Method		205 224
Screens Type Material	Sand black	274 231
Slot Tele/pipe	Elay, prev	231 274
240 322 3/16 280 8 5/8 Size Casing Liner	Sand, black	274 299
	Clay, sandy	299 312
	Clay, orev	312 319
	Sand, black, clavey	319 326
	Clay, blue	326 332
(8) WELL TESTS: Minimum testing time is 1 hour	Date started Aug 12, 1998 Co.	mpleted July 24, 1999
Flowing	(unbonded) Water Well Constructor Certifi	cation:
Pump Bailer Air Artesian	I certify that the work I performed on the co	onstruction, alteration, or abandonment
Yield gal/min Drawdown Drill stem at Time	or this well is in compliance with Oregon water Materials used and information reported above	er supply well construction standards.
1 hr.	and belief.	
400 80 2 hr		WWC Number
	Signed	Date
Temperature of water 53 Depth Artesian Flow Found	(bonded) Water Weil Constructor Certificat	tion:
Was a water analysis done? Yes By whom Did any strata contain water not suitable for intended use? Too little	I accept responsibility for the construction, performed on this well during the construction performed during this time is in compliance w	alteration, or abandonment work dates reported above. All work ith Oregon water supply well
Salty Muddy Odor Colored Other	construction standards. This report is true to the 2	he best of my knowledge and belief.
Depth of strata:	DR.	WWC Number 745
	Signed	Date to 18: 19

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

'E OF OREGON
E OF OREGON

WATER SUPPLY WELL REPORT (as required by ORS 537.765) Instructions for completing this report are on the last page of this form.	WELL I.D. $\#L$ $\angle 26751$ START CARD $\#$ $i30217$
(1) LAND OWNER Name RICHARD OATHES Address PO BOX 968 City Camby State OR Zip 97013	(9) LOCATION OF WELL by legal description: County <u>Control of Clarge</u> Longitude Township <u>45</u> N or S Range <u>LE</u> E or W. WM. Section 7 NE1/4 Stack 1/4
(2) TYPE OF WORK	Tax Lot 350/ LotBlockSubdivision
(3) DRILL METHOD: □ Rotary Air □ Rotary Mud X Cable □ Auger □ Other	(10) STATIC WATER LEVEL: ft. below land surface. Date 13Feb
(4) PROPOSED USE: Community Industrial Industrial Irrigation Thermal Injection Livestock Other	Artesian pressurelb. per square inch Date (11) WATER BEARING ZONES:
(5) BORE HOLE CONSTRUCTION: Special Construction approval [] Yes [] No Depth of Completed Well 95 ft	Depth at which water was first found D/ Af From To Estimated Flow Rate SWL
Explosives used Yes No TypeAmount HOLE SEAL Diameter, From To Material To Sacks or pounds	N/A
No CHANGE	
How was seal placed: Method A B C D E	(12) WELL LOG: Ground Elevation
Jother	Material From To SWL The well had collapsed
Diameter From To Gauge Steel Plastic Welded Threaded Casing:	Cleaned ent well to 95 ft and placed H" prc Liver to bo Hom with 10 ft Screen z 2 ft fail pipe.
7) PERFORATIONS/SCREENS: Perforations Method Screens Type <u>Scorreb</u> Material <u>PUC</u> Slot Tele/pipe	RECEIVED
From To size Number Diameter size Casing Liner $\underline{\$3}$ $\underline{93}$ $\underline{10}$ $\underline{\cancel{9}}$ $\underline{\cancel{9}}$	MAR 0 4 2003
	SALEM, OREGON
8) WELL TESTS: Minimum testing time is 1 hour Flowing	Date started 13 Feb Completed 14 Feb 2003
X Pump Bailer Air Artesian Yield gal/min Drawdown Drill stem at Time / 4 1 4 1 hr.	I certify that the work I performed on the construction, alteration, or abandon- ment 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.
	Signed Date
remperature of water	(bonded) Water Well Constructor Certification: I accept responsibility for the construction, 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. Signed

ORIGINAL – WATER RESOURCES DEPARTMENT

FIRST COPY - CONSTRUCTOR

SECOND COPY - CUSTOMER

STATE OF OREGON

WATER SUPPLY WELL REPORT (as required by ORS 537.765)

Name Daryl Inness / Wellington Homes

(1) OWNER:

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

Well Number: 02

AC 62594 SKYLES DRILLING, INC.

WELL ID # L 77746

START CARD # W185292 503-656-2683 (9) LOCATION OF WELL by legal description: Latitude County Clackamas Longitude Township 4SOUTH N or S. Range 1EAST E or W. of WM. Section _07 ___NE 1/4 Tax lot 05600 Block Subdivision Street Address of Well (or nearest address) 25541 S. Barlow Rd., Canby, OR (10) STATIC WATER LEVEL: ft. below land surface. Date 7/17/2006 Artesian pressure lb. per square inch. Date (11) WATER BEARING ZONES: Depth at which water was first found 72' Estimated Flow Rate SWL From То 72 86 Trace 66 91 118 100+ 66

(12)	WELL	LOG:
------	------	------

Ground elevation

1 <u>0</u> ,	20 Bentonit	e 20	0 9 Sac	KS				
7.6 <u>20</u>	118				Material	From	То	SWL
					Top soil, brown	0	2	
					Sandy loam, brown	2	8	. .
					Sand, brown packed	8	23	
	· · · · · · · · · · · · · · · · · · ·	ii			Sand, gray packed	23	62	
How was seal place	ed: Method	BCD	E		Sand, black medium w/ gravel &	62		
X Other Poured	Bentonite				lenses of clay, gray		86	
Backfill placed from	nft.to	ft. Material			Sand, gray packed	86	91	
Gravel placed from	n ft.to	ft. Size of grave	el		Gravel, multicolored med to small	91		
(6) CASING/L	NER:				w/ sand, multicolored coarse		113	
Diamete	r From To (Gauge Steel Plast	ic Welded	Threaded	Gravel, multicolored pea	113	118	66
Casing: 6	+2 118	.250 X	X					
					Skyles Drilling, Inc.			
		[] [] []	:		1169 Molalla Ave.			!
					Oregon City, OR 97045		-	
Liner: Non	e				(503) 656-2683			
Drive Shoe used	Inside	outside X None				KECE	VED	:
Final location of sh	oe(s)							
							2000	i
(/) PERFURA	HUNS/SCREEL	ND:			F F	100 00	ZUUD	1
Perforation	s Method				WATER	RESOLIE	CEO F	1000
Screens	Туре	Materi	al		SA	IFM OP	ECON	IEP1
	Slct	Tele/pipe					GON	
From To	size Number	Diameter size	Casing	Liner				<u> </u>
None							: 	
		· ·			Date started 7/14/2006 Complete	ed 7/17/20	06	
			_ [_]		<u></u>			
					(unbonded) Water Well Constructor Certific	ation:		
	·		. Li	Li	I certify that the work I performed on the construction	n, alteration, c	or abando	n-
	TS: Minimum (esting time is 1 l			ment of this well is in compliance with Oregon water s	upply well cor	nstruction	
(O) WELL TES					standards. Materials used and information reported at	ove are true	to the bes	st of my
Pump	Bailer	X Air	Flowin	ig Artesian	knowledge and belief			
						WWC Num	ber 171	5
Yield gal/min	Drawdown	Drill stem at	Tir	ne	Signed L C//	Date /-	18-06	?
100+		114	1 hr		Skyles Drilling, Inc.			
100			<u></u>		(bonded) Water Well Constructor Certificati	on:		
					I accept responsibility for the construction, alteration	n, or abandor	nment wo	rk
+					performed on this well during the construction dates re	eported above	All wo	ork
Temperature of Wa	ater 5/3	Depth Artesian Flow for	nd		performed during this time is in compliance with Orego	on water supr	bly well	
Was a water analy	sis done? Yes	By whom	·		construction standards. This report is true to the best	of my knowle	dge and I	pelief.
Did any strata cont	ain water not suitable	e for intended use?	Too little			WWC Num	ber 159	2
Salty Mud		Colored Other			Signed There C. Stand	Date 7/	1812	006
Depth of strate:					Skyles Drilling Inc	- 4	-01-0	$ \phi$
Deptit of strata.					Skyles Drinnig, nic.			

Address 9788 SE City Milwauk	17th Ave	State C	DR_Zi	97222	
(2) TYPE OF W	ORK:				
X New Well	eepening Al	teration (repair/reco	ndition)	Aban	donment
(3) DRILL MET	HOD:				
X Rotary Air X Other Holte	Rotary Mud	Cable		Auger	
(4) PROPOSED	USE:				
X Domestic Thermal	Community Injection	Industrial		Other	
(5) BORE HOLI	E CONSTRUC	TION:			
Special Construction	approval []Yes	X No Depth o	of Comp	leted Well	118 ft
Explosives used	Yes X No Typ	e	_ Amou	int	
HOLE Diameter From	To Mat	SEAL terial From	То	Amo sacks or i	ount bounds
10 0	20 Bentonit	te 20	0	9 Sacks	<u> </u>
7.6 <u>20</u>	118				11 W Y
 :					
				l 	
How was seal placed	d: Method]A	B C	D	E	
Backfill placed from	ft. to	ft. Material			
Gravel placed from	ft. to	ft. Size of g	gravel		
(6) CASING/LIN	IER:				
Diameter	From To (Gauge Steel P 250 X	lastic	Welded X	Threaded
	12 110	.200			
Liner Nono					
				[]	
Drive Shoe used Final location of shoe	lnside C e(s)	Dutside X None			
(7) PERFORAT	IONS/SCREE	NS:			
Perforations	Method				
Screens	Туре	Ma	aterial		
F	Slot	Tele/	pipe	Casina	Linor
None :	size Number	Diameter Siz	e	Casing	
+ · · · · +·					
				1_1	L
(8) WELL TEST	rs: Minimum f	testing time is	1 hou	1r	
Pump	Bailer	X Air	1	Flowing	Artesian
Yield gal/min	Drawdown	Drill stem at		Time	
100+		114		1 hr.	
+.					
Temperature of Wat	er 543	Depth Artesian Flow	/ found		
Was a water analysi	s done? Yes	By whom			

ORIGINAL - WATER RESOURCES DEPARTMENT

FIRST COPY - CONSTRUCTOR

SECOND COPY - CUSTOMER

STATE OF OREGON MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

CLAC 66862

06-03-2010

Page 1 of 2

WELL LABEL # L 95777

START CARD # 202248

(1) LAND OWNER Owner Well I.D. MW1	(6) LOCATION OF WELL (legal description)
First Name Last Name	County Clackamas Twp 4.00 S N/S Range 1.00 F E/W WM
Company CEMEX	Sec 6 SE $1/4$ of the SE $1/4$ Tax Lot 1900
Address 24791 S BARLOW RD	Tax Map Number Lot
City CANBY State OR Zip 97013	Lat DMS or DD
(2) TYPE OF WORK New Deepening Conversion	Long OMS or DD
Alteration (repair/recondition)	Street address of well Nearest address
(3) DRILL METHOD	24791 S BARLOW RD
Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud Reverse Rotary Other SONIC	(7) STATIC WATER LEVEL
(4) CONSTRUCTION Diagonator Well	Existing Well / Predeepening
Depth of Completed Well ft. Special Standard	Completed Well 05-05-2010 8
Depin of completed wen 47 fit operational definition of the standard fit is the standard fit operation of the standard fit is the standard fit	Flowing Artesian? Dry Hole? WATER BEARING ZONES Depth water was first found 8
MONUMENT/VAULT <u>Above Ground</u>	SWL Date From To Est Flow SWL (psi) + SWL (ft)
From <u>0</u> To <u>1</u>	05-05-2010 8 47 SWE(10)
BORE HOLE	
Diameter 7 From $_{0}$ To $_{47}$	
CASING	(8) WELL LOG
Dia. <u>2</u> From <u>0</u> To <u>7</u>	Material Erecut To
Gauge SCH40 Wld Thrd	SAND & GRAVEL 0 47
Material Steel Plastic	
DiaFromTo	
Gauge Wld Thrd	
Material OSteel OPlastic	
SEAL	
From t To c	
Material Partonite Ching	
Amount 2.00 S Grout weight	
SCREEN	
Casing/Liner Material PVC	
Diameter 2 From 7 To 47	
Slot Size _010	Date Started 05-05-2010 Completed 05-05-2010
FILTER	(unbonded) Monitor Well Constructor Certification
From 6 To 47 Material SAND Size of pack 10/20	I certify that the work I performed on the construction, deepening, alteration, or
	abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to
(5) WELL TESTS	the best of my knowledge and belief.
Pump Bailer Air Flowing Artesian	License Number 10584 Date 06-03-2010
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)	Electronically Submitted
	Signed SEAN M ADAMS (E-filed)
	(bonded) Monitor Well Constructor Certification
Temperature [°] F Lab analysis Yes By	I accept responsibility for the construction, deepening, alteration, or abandonment
Supervising Geologist/Engineer	work performed on unis wen during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well
Water quality concerns? Yes (describe below)	construction standards. This report is true to the best of my knowledge and belief.
From To Description Amount Units	License Number <u>10306</u> Date <u>06-03-2010</u> Electronically Submitted
	Signed JTRENT CASTNER (E-filed)

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

MONITORING WELL REPORT -Map with location identified must be attached and shall include an approximate scale and north arrow CLAC 66862 06-03-2010 WELL I.D. # L <u>95777</u>

START CARD # 202248

Page 2 of 2





STATE OF OREGON MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

CLAC 66863

06-03-2010

Page 1 of 2

WELL LABEL # L 95778

START CARD # 202249

(1) LAND OWNER Owner Well I.D. MW2	(6) LOCATION OF WELL (legal description)
First Name Last Name	County of the Two too of N/S Range too F F/W WM
Company CEMEX	$- \frac{\text{County Clackamas}{100 \text{ E}} + \frac{1}{400 \text{ S}} = \frac{1}{100 \text{ E}} + \frac{1}{100 \text{ E}} = \frac{1}{100 \text{ E}} = \frac{1}{100 \text{ E}} + \frac{1}{100 \text{ E}} = \frac{1}{100 \text{ E}} + \frac{1}{100 \text{ E}} = \frac{1}{100 \text{ E}} + \frac{1}{100 \text{ E}} + \frac{1}{100 \text{ E}} = \frac{1}{100 \text{ E}} + \frac{1}{10$
Address 24791 S BARLOW RD	Tax Map Number Lot
City CANBY State OR Zip 97013	Lat ° ′ ″ or DMS or DD
(2) TYPE OF WORK New Deepening Conversion	Long ' or DMS or DD
Alteration (repair/recondition)	Street address of well Nearest address
	24791 S BARLOW RD
Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud	(7) STATIC WATER LEVEL
Chief SONIC	Date SWL(psi) + SWL(ft)
(4) CONSTRUCTION Piezometer Well	Completed Well
Depth of Completed Well 37 ft. Special Standard	Flowing Artesian? Dry Hole?
	WATER BEARING ZONES Depth water was first found 8
From a To t	SWL Date From To Est Flow SWL(psi) + SWL(ft)
	05-06-2010 8 37 8
BORE HOLE	
Diameter <u>7</u> From <u>0</u> To <u>37</u>	
C L STRIC	
CASING	(8) WELL LOG Ground Elevation
Dia. 2 From $_0$ To 7	Material From To
Gauge SCH40 Wld Thrd	SAND & GRAVEL 0 37
Material Steel Plastic	
LINER	
Wide Inrd	
SEAL	
From 1 To 6	
Material Bentonite Chips	
Amount 2.00 S Grout weight	
SCREEN	
Casing/Liner Material PVC	-
Diameter 2 From 7 To 37	
Slot Size <u>.010</u>	Date Started 05-05-2010 Completed 05-06-2010
FILTER	(unbonded) Monitor Well Constructor Certification
From 6 To 37 Material SAND Size of pack 10/20	I certify that the work I performed on the construction, deepening, alteration, or
	abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to
(5) WELL TESTS	the best of my knowledge and belief.
Pump Bailer Air Flowing Artesian	License Number 10584 Date 06-03-2010
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)	Electronically Submitted
	Signed SEAN M ADAMS (E-filed)
	(bonded) Monitor Well Constructor Certification
Temperature°F Lab analysis Yes By	I accept responsibility for the construction, deepening, alteration, or abandonment
Supervising Conference Conference	work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well
Supervising Geologist/Engineer	construction standards. This report is true to the best of my knowledge and belief.
From To Description Amount Units	License Number 10306 Date 06-03-2010
	Electronically Submitted
	Signed J TRENT CASTNER (E-filed)
	Contact Info (optional)

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

MONITORING WELL REPORT -Map with location identified must be attached and shall include an approximate scale and north arrow CLAC 66863 06-03-2010 WELL I.D. # L <u>95778</u>

START CARD # 202249

Page 2 of 2





STATE OF OREGON MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

CLAC 66864

06-03-2010

Page 1 of 2

WELL LABEL # L 95779

START CARD # 202250

(1) LAND OWNER Owner Well I.D. MW3	(6) LOCATION OF WELL (legal description)
First Name Last Name	County Clackamas Twp 400 S N/S Range 100 F E/W WM
Company CEMEX	Sec 6 SE $1/4$ of the SE $1/4$ Tax Lot 1900
Address 24791 S BARLOW RD	Tax Map Number Lot
City CANBY State OR Zip 97013	Lat OMS or DD
(2) TYPE OF WORK New Deepening Conversion	Long OMS or DD
Alteration (repair/recondition)	Street address of well Nearest address
(3) DRILL METHOD	24791 S BARLOW RD
Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud	
Reverse Rotary Other SONIC	(7) STATIC WATER LEVEL
$(4) CONSTRUCTION \qquad \qquad$	Existing Well / Predeepening
	Completed Well 05-06-2010 9
Depth of Completed Well <u>77</u> ft. Special Standard	Flowing Artesian? Dry Hole?
MONUMENT/VAULT Above Ground	Depth water was first found 9
From 0 To 1	SWL Date From To Est Flow SWL(psi) + SWL(ft)
BORE HOLE	
Diameter $\underline{7}$ From $\underline{0}$ 10 $\underline{77}$	
CASING	
Dia 2 From Co To 7	Ground Elevation
Gauge SCH40 Wild Thrd	Material From To
Material Steel Plastic X	SAND & ORAVEL 0 50 SILT 50 77
LINER	
Dia. From To	
Gauge Wld Thrd	
Material Steel Plastic	
SEAL	
From <u>1</u> To <u>6</u>	
Material Bentonite Chips	
Amount 2.00 S Grout weight	
SCREEN	
Casing/Liner Material PVC	
Diameter 2 From 7 To 77	
Slot Size 010	
	Date Started 05-06-2010 Completed 05-06-2010
FILTER	(unbonded) Monitor Well Constructor Certification
From $\underline{6}$ 10 $\underline{77}$ Material SAND Size of pack $\underline{10/20}$	abandonment of this well is in compliance with Oregon monitoring well
	construction standards. Materials used and information reported above are true to
(5) WELL IESIS \bigcirc During \bigcirc D is \bigcirc D is \bigcirc Elements Antonian	the best of my knowledge and belief.
Viold col/min Droudown Drill stom/Pump donth Duration (hr)	License Number Date Date
	Electronically Submitted
	SEAN M ADAMS (E-filed)
	(bonded) wonitor well constructor certification
Temperature <u>53</u> °F Lab analysis Yes By	work performed on this well during the construction dates reported above. All
Supervising Geologist/Engineer	work performed during this time is in compliance with Oregon monitoring well
Water quality concerns? Yes (describe below)	construction standards. This report is true to the best of my knowledge and belief.
From To Description Amount Units	License Number <u>10306</u> Date <u>06-03-2010</u>
	Signed I TRENT CASTNER (E-filed)
	Contact Info (optional)

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

MONITORING WELL REPORT -Map with location identified must be attached and shall include an approximate scale and north arrow

CLAC 66864 06-03-2010

WELL I.D. # L 95779

START CARD # 202250

Page 2 of 2





SCALE (100 FOOT)

MAP BY SEAN ADAMS

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

08-24-2011

WELL LABEL # L 107387

(1) LAND OWNER Owner Well I.D.	(9) LOCATION OF WELL (legal description)
First Name CARLOS & BALBINA Last Name ESTRADA	County Clackamas Twp 4.00 S N/S Range 1.00 F E/W WM
Company	Sec 8 NE $1/4$ of the NE $1/4$ Tax Lot 1100
Address PO BOX 841	Tax Map Number Lot
City CANBY State OR Zip 97013	Lat OMS or DD
(2) TYPE OF WORK New Well Deepening Conversion	Long OMS or DD
Alteration (repair/recondition)	Street address of well Nearest address
	25460 S. BARLOW RD
Rotary Air Rotary Mud Cable Auger Cable Mud	
Reverse Rotary Other	(10) STATIC WATER LEVEL Date SWL(psi) + SWL(ft)
(4) DROBOSED USE Demostic Demission Community	Existing Well / Predeepening
(4) PROPOSED USE Domestic Imgation Community	Completed Well 08-23-2011 60
Thermal Injection Other	Flowing Artesian? Dry Hole?
	WATER BEARING ZONES Depth water was first found 227
(5) BORE HOLE CONSTRUCTION Special Standard Attach copy	SWL Date From To Est Flow SWL(psi) + SWL(ft)
BORF HOLF SFAL sacks/	
Dia From To Material From To Amt Ibs	
10 0 30 Bentonite Chips 0 2 2 S	
8 30 242 Cement 20 30 2,200 S	
	(11) WELL LOG Ground Elevation
How was seal placed: Method A B C D E	Material From To
	TOP SOIL 0 1
Backfill placed from 30 ft. to 63 ft. Material cement	BLUE CLAY W/ COBBLES 1 37
Filter pack from ft. to ft. Material Size	BROWN CLAY 37 45
Explosives used: Yes Type Amount	BLUE CLAY 45 55
	GRAY CLAY
(6) CASING/LINER Casing Liner Dia + From To Gauge Stl Plstc Wid Thrd	BLUE CLAY W/ GRAVEL LAYERS 105 115
$\bigcirc \bigcirc $	BLUE CLAY 115 227
$\bigcirc \bigcirc $	MULTI COLORED COARSE SAND W/ GRAVEL 227 237
	GRAY CLAY 237 242
Shoe Inside Outside Other Location of shoe(s) $_{242}$	
Temp casing Yes Dia From To	
(7) PERFORATIONS/SCREENS	
Perforations Method push down perforator	
Screens Type certalok Material pvc	
Perf/S Casing/ Screen Scrn/slot Slot # of Tele/	Date Started as as as a completed
creen Liner Dia From To width length slots pipe size	<u>Due Stated</u> <u>08-18-2011</u> Completed <u>08-23-2011</u>
Perf Casing 6 227 237 .25 2 180	(unbonded) Water Well Constructor Certification
Screen Casing 4 222 242 10	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.
(8) WELL TESTS: Minimum testing time is 1 hour	License Number Date Date08-24-2011
\bigcirc Pump \bigcirc Bailer \bigcirc Air \bigcirc Flowing Artesian	Electronically Filed
Yield gal/min Drawdown Drill stem/Pump denth Duration (hr)	Signed THOMAS YOUNGBERG (E-filed)
120 241 2	(bonded) Water Well Constructor Certification
	I accept responsibility for the construction, deepening, alteration, or abandonment
	work performed on this well during the construction dates reported above. All work
Temperature _55 °F Lab analysis Yes By	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
Water quality concerns? Yes (describe below)	construction standards. This report is true to the best of my knowledge and belief.
From To Description Amount Units	License Number 1771 Date 08-24-2011
	Signed CEODCE VOLINGDEDC (E.S.L.)
	Contact Info (ontional)

ORIGINAL - WATER RESOURCES DEPARTMENT

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

START CARD # 1014620

	CLAC 69	037	Page 1 of 2
STATE OF OREGON MONITORING WELL REPORT		WELLID LADEL #1	09469
(as required by ORS 537 765 & OAR 690-240-0395)	8/6/201	2 WELL I.D. LABEL# L	08468
(as required by OKS 551.765 & OAK 070-240-0575)		START CARD # 1	017231
(1) LAND OWNER Owner Well I.D. P1		(6) LOCATION OF WELL (legal d	lescription)
First Name Last Name		County CLACKAMAS Twp 4.00 S N	/S Range 1.00 E E/W WM
Company CEMEX		Sec <u>7</u> <u>NE</u> 1/4 of the <u>NE</u>	1/4 Tax Lot 100
Address 25100 S BARLOW RD	7012	Tax Map Number	Lot DMS or DD
(2) TVPE OF WORK What Despering	Conversion	Long ° ' " or -122.723750	DMS or DD DMS or DD
Alteration (repair/recondition)	Conversion	Street address of well	Nearest address
		FARM FIELD WEST OF 25100 S BARLOW	RD CANBY, OR 97013
Rotary Air Rotary Mud Cable Hollow Stem Auger	Cable Mud		
Reverse Rotary Other	_	(7) STATIC WATER LEVEL	te SWL(psi) + SWL(ft)
(4) CONSTRUCTION Piezo	meter Well 🗙	Existing Well / Predeepening	
Depth of Completed Well 00 00 ft. Speci	al Standard	Completed Well Elowing Artesi	an^2 Dry Holo? V
		WATER BEARING ZONES Depth w	vater was first found
MONUMENT/VAULT Above of	Ground	SWL Date From To Es	st Flow SWL(psi) + SWL(ft)
	-		
BORE HOLE	_		
Diameter $\underline{6}$ From $\underline{0}$	To		
CASING		(8) WELL LOG	
Dia. 2 From 🔀 2.5	To 5	Ground Elevatio	n
Gauge S80 V	Vld Thrd	Silt	0 5
Material Steel Plastic		Sandy Silt	5 10
		Gravel w/Sand	
		Clay w/Sand	63 70
DiaFrom	To	Sand	70 75
Gauge v	Vld Thrd	Sand w/Gravel	75 90
Material Osteel OPlastic			
SEAL			
From 1 To 4			
Material <u>Bentonite Chips</u>			
Amount <u>1 Sacks</u> Grout we	eight		
SCREEN			
Casing/Liner Casing Material I	DVC		
Diameter 2 From 5	To 90		
Slot Size 0.010		Date Started 7/21/2012	mplatad 7/21/2012
From 4 To 90 Material SILICA SAND Size of pa	ck 10/20	I certify that the work I performed on the co	onstruction, deepening, alteration, or
		abandonment of this well is in complian	nce with Oregon monitoring well
(5) WELL TESTS		construction standards. Materials used and in the best of my knowledge and belief	formation reported above are true to
OPump OBailer OAir OFlow	ving Artesian	License Number 10630	ate 8/6/2012
Yield gal/min Drawdown Drill stem/Pump depth Du	ration (hr)	Password : (if filing electronically)	0/0/2012
		Signed JAMES DENNIS (E-filed)	
		(bonded) Monitor Well Constructor Certific	ation
Temperature °F Lab analysis Yes By		I accept responsibility for the construction, de	epening, alteration, or abandonment
Supervising Geologist/Engineer		work performed during this time is in compl	liance with Oregon monitoring well
Water quality concerns? Yes (describe below)		construction standards. This report is true to the	ie best of my knowledge and belief.
From To Description Amo	unt Units	License Number 10563 Da	ate 8/6/2012
		Signed FORD STIGALL (F-filed)	
		Contact Info (optional) Ford Stigall	
ORIGINAL - W	VATER RESOURCE	ES DEPARTMENT	
THIS REPORT MUST BE SUBMITTED TO THE WATER REA	SOURCES DEPAI	VIMENT WITHIN 30 DATS OF COMPLETIO	Form Version:

MONITORING WELL REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow

8/6/2012

Map of Hole



	CLAC 6	59038 Page 1 of 2
STATE OF OREGON MONITOPING WELL REPORT		
	- 8/6/20	WELL I.D. LABEL# L 108469
(as required by OKS 557.765 & OAK 690-240-039.	5)	START CARD # 1017232
(1) LAND OWNER Owner We	ll I.D. <u>P2</u>	(6) LOCATION OF WELL (legal description)
First Name Last Name	·	County CLACKAMAS Twp 4.00 S N/S Range 1.00 E E/W WM
Company CEMEX		Sec <u>6</u> <u>SE</u> 1/4 of the <u>SE</u> 1/4 Tax Lot <u>1900</u>
Address 25100 S BARLOW RD	Zip 07012	Tax Map Number Lot
	·	Lat 01 45.24611111 DMS of DD
Alteration (repair/recondition) Abandonmodel	ent	Street address of well Nearest address FARM FIELD WEST OF 25100 S BARLOW RD CANBY, OR 97013
(3) DRILL METHOD	w Stem Auger Cable Mud	
Reverse Rotary Other		(7) STATIC WATER LEVEL
(4) CONSTRUCTION	Piezometer Well	Existing Well / Predeepening
Depth of Completed Well 90.00	ft. Special Standard	Completed Well
	L	WATER BEARING ZONES Depth water was first found
From 2	г Го з	SWL Date From To Est Flow SWL(psi) + SWL(ft)
	<u> </u>	
BORE HOLE	F	
Diameter <u>6</u>	From <u>0</u> 10 <u>90</u>	
CASING		(8) WELL LOG
Dia. 2 Fro	om 🗙 2.5 To 5	Ground Elevation
Gauge <u>S80</u>	Wld Thrd	Silt 0 5
Material Steel	Plastic X	Sandy Silt 5 8
		Gravel w/Sand 8 47
LINER		Sandy Clay 47 77
DiaFro	om To	
Gauge	Wld Thrd	
Material Steel	Plastic	
SEAL		
From <u>1</u> To	4	
Material Bentonite C	hips	
Amount 1	icks Grout weight	
SCREEN		
Casing/Liner Casing	Material PVC	
Diameter 2 Fr	rom 5 To 90	·
Slot Size 0.010		Date Started 8/1/2012 Completed 8/1/2012
FILTER		(unbonded) Monitor Well Constructor Certification
From <u>4</u> To <u>90</u> Material <u>SILICA SAN</u>	D Size of pack 10/20	I certify that the work I performed on the construction, deepening, alteration, or
		construction standards. Materials used and information reported above are true to
(5) WELL TESTS		the best of my knowledge and belief.
O Pump O Bailer O Air	Flowing Artesian	License Number 10630 Date 8/6/2012
Yield gal/min Drawdown Dhii stem/Pum	p depth Duration (nr)	Password : (if filing electronically)
		Signed JAMES DENNIS (E-filed)
		(bonded) Monitor Well Constructor Certification
Temperature °F Lab analysis _ Yes By		- work performed on this well during the construction dates reported above. All
Supervising Geologist/Engineer		work performed during this time is in compliance with Oregon monitoring well
Water quality concerns? Yes (describe below)	Amount Iluita	construction standards. This report is true to the best of my knowledge and belief.
riom To Description	Amount Units	License Number 10563 Date 8/6/2012
		Signed FORD STIGALL (E-filed)
		Contact Info (optional) Ford Stigall
THIS REPORT MUST BE SUBMITTED TO TH	ORIGINAL - WATER RESOURCE E WATER RESOURCES DEPA	CES DEPARTMENT ARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK
		Form Version:

MONITORING WELL REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow

8/6/2012

Map of Hole



CI	LAC 69039 Page 1 of 2
STATE OF OREGON MONITOPING WELL PEPOPT	
(as required by ODS 537 765 & OAD 600 240 0305)	8/6/2012
(as required by OKS 551.105 & OAK 050-240-0575)	START CARD # 1017233
(1) LAND OWNER Owner Well I.D. <u>P3</u>	(6) LOCATION OF WELL (legal description)
First Name Last Name	County CLACKAMAS Twp 4.00 S N/S Range 1.00 E E/W WM
Company CEMEX	Sec 6 SE 1/4 of the SE 1/4 Tax Lot 1900
Address 25100 S BARLOW RD	Tax Map Number Lot
City CANBY State OR Zip 9/013	Lat OF 45.24750000 DMS of DD
(2) TYPE OF WORK X New Deepening Conver Alteration (repair/recondition) Abandonment	rsion Cong Or -122.72361111 DWS of DD
(3) DRILL METHOD	TARM TILLD WEST OF 25100 S BARLOW RD CAND 1, OK 7/015
Rotary Air Rotary Mud Cable Hollow Stem Auger Call Reverse Rotary Other	(7) STATIC WATER LEVEL Date SWI (psi) + SWI (ft)
(4) CONSTRUCTION Piezometer V	Well X Existing Well / Predeepening
Dorth of Completed Well on on ft Special Stand	dard Completed Well
Depth of Completed Weil 90.00	WATER BEARING ZONES Dopth water was first found
MONUMENT/VAULT	SWI Date From To Fet Flow SWI (nci) + SWI (ft)
From <u>2</u> To <u>3</u>	
BORE HOLE	
Diameter 6 From 0 To 0	
CASING	(8) WELLLOG
Dia. 2 From 🔀 2.5 To	5 Ground Elevation
Gauge S80 Wld Th	hrd Site O 6
Material Steel • Plastic	\mathbf{X} Gravel 6 42
	Sand w/Gravel 42 75
LINER	Clay w/Sand 75 85
	Silty Sand 85 90
Gauge wat Th	hrd
Material Steel Plastic	
SEAL	
From 1 To 4	
Material Bentonite Chips	
Amount 1 Sacks Grout weight	
SCREEN	
Casing/Liner <u>Casing</u> Material <u>PVC</u>	
Diameter <u>2</u> From <u>5</u> To <u>90</u>	
Slot Size <u>0.010</u>	Date Started 8/2/2012 Completed 8/3/2012
FILTER	(unbonded) Monitor Well Constructor Certification
From 4 To 90 Material SILICA SAND Size of pack 10/2	20 I certify that the work I performed on the construction, deepening, alteration, or
	abandonment of this well is in compliance with Oregon monitoring well
(5) WELL TESTS	the best of my knowledge and belief
Pump Bailer Air Flowing Arte	esian License Number 10620 Date 9/6/2012
Yield gal/min Drawdown Drill stem/Pump depth Duration (h	hr) Password : (if filing electronically)
	Signed JAMES DENNIS (E-filed)
	I accept responsibility for the construction, deepening, alteration, or abandonment
	work performed on this well during the construction dates reported above. All
Supervising Geologist/Engineer	work performed during this time is in compliance with Oregon monitoring well
Erom To Description Amount U	Inits License Number 10572
	Password : (if filing electronically) Date 8/6/2012
	Signed FORD STIGALL (E-filed)
	Contact Info (optional) Ford Stigall
ORIGINAL - WATER	RESOURCES DEPARTMENT
THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURC	ES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version:

MONITORING WELL REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow

8/6/2012

Map of Hole



STATE OF OREGON WATER SUPPLY WELL REPORT

(as required by ORS 537.765 & OAR 690-205-0210)

CLAC 71844

	CLAC 71844
WELL I.D. LABEL# L	118518
START CARD #	1028830
ORIGINAL LOG #	

(1) LAND OWNER Owner Well I.D.	
First Name <u>NEAL</u> Last Name <u>MOSES</u>	(9) LOCATION OF WELL (legal description)
Address 25581 S RHOTEN ROAD	County CLACKAMAS Twp 4 S N/S Range 1 E E/W WM
City AURORA State OR Zip 97002	Sec 7 NW 1/4 of the SE 1/4 Tax Lot 04400
(2) TYPE OF WORK New Well Deepening Conversion	Lot Lot Lot
Alteration (complete 2a & 10) Abandonment(complete 5a)	Long ° ′ ″ or DMS of DD
(2a) PRE-ALTERATION Dia + From To Gauge Stl Plstc Wid Thrd	Street address of well Nearest address
	25581 S ROTEN ROAD AURORA OR 97002
Material From To Amt sacks/lbs	
(3) DRILL METHOD	(10) STATIC WATER LEVEL
Rotary Air Rotary Mud Cable Auger Cable Mud	Date SWL(psi) + SWL(ft)
Reverse Rotary Other	Completed Well 11-13-2015 62
(4) PROPOSED USE X Domestic Irrigation Community	Flowing Artesian? Dry Hole?
Industrial/ Commericial Livestock Dewatering	WATER BEARING ZONES Depth water was first found 75
Thermal Injection Other	SWL Date From To Est Flow SWL(psi) + SWL(ft)
(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)	11-13-2015 75 103 60 62
Depth of Completed Well 103 ft.	
BORE HOLE SEAL sacks/	
10 0 28 Bentonite 0 28 32 S	
7.62 28 103 Calculated 13	
Calculated	(11) WELL LOG
How was seal placed: Method A B C D F	Ground Elevation
Kother POURED IN	SANDY TOPSOIL 0 1
Backfill placed from ft. to ft. Material	BROWN SANDY CLAY 1 30
Filter pack from ft. to ft. Material Size	MEDILIM COARSE MULTI-COLORED GRAVEL 37 103
Explosives used: Yes Type Amount	
(5a) ABANDONMENT USING UNHYDRATED BENTONITE	RECEIVED BY OWRD
Proposed Amount Pounds Actual Amount Pounds	
(6) CASING/LINER	HECEIVED BY OWRD
\bigcirc	
○ ● 4 = 5 103 SC40 ○ ● ×	DEC 2 2 2015
	SALEM, OR
	SALEM. OR
Shoe X Inside Outside Other Location of shoe(s) 103	
Temp casing Yes Dia From To	
(7) PERFORATIONS/SCREENS	
Perforations Method AIR KNIFE	[]
Screens Type FACTORY.010 Material PVC	Date Started 11-10-2015 Completed 11-13-2015
creen Liner Dia From To width length slots pipe size	(unbonded) Water Well Constructor Certification
Screen Casing 6 80 95 .125 2 270 Screen Lines 4 63 103 01 1 1	I certify that the work I performed on the construction, deepening, alteration, or
Screen Liner 4 03 103 .01	construction standards. Materials used and information reported above are true to
	the best of my knowledge and belief.
	License Number Date
(8) WELL TESTS: Minimum testing time is 1 hour	Signed
OPump OBailer OAir OFlowing Artesian	(honded) Weter Well Constructor Contification
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)	(bonded) water wen Constructor Certification
	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
Temperature 54 °F Lab analysis Yes By	Lissue Number 1990
Water quality concerns? [Yes (describe below) TDS amount 16 From To Description Amount Units	Date 11-18-2015
	Signed line Juney
	Contact Info (optional) OLSEN-PULLIAM WELL DRLG 503-665-3353

ORIGINAL - WATER RESOURCES DEPARTMENT

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version: 0.95

STATE OF ODECON		WELL I.D. LABEL# L 116786				
WATER SUPPLY WELL REPORT	CLAC 72	143 START CARD # 1029733				
(as required by ORS 537.765 & OAR 690-205-0210)	Revised	ORIGINAL LOG #				
(1) LAND OWNER Owner Well I D	City	CLAC JOILS				
First Name Lukis Last Name Cam		(9) LOCATION OF WELL (legal description)				
Company Cam Construction		County CLACKAMAS Two 4 S N/S Range 1 E E/W W				
Address P.O Box 231	07301	Sec 7 1/4 of the 5 E-5 1/4 Tax Lot 4402				
City Woodburn State OR Zip	97301	Tax Map Number Lot				
(2) TYPE OF WORK XINew Well Deepening	g Conversion	Lat ° ' " or 45.23304 DMS or DE				
(20) DDE ALTEDATION	andonment(complete 5a)	Long ° ' " or -122.72932 DMS or DE				
Dia + From To Gauge Stl Plstc	Wld Thrd	Street address of well Nearest address				
Casing: C	/lbs	25563 Sth Rhoten RD Aurora OR ,97002				
Seal:						
(3) DRILL METHOD	Cable Mud	Date SWL(psi) + SWL(ft)				
Reverse Rotary Other		Existing Well / Pre-Alteration				
(4) PROPOSED USE X Domestic Irrigation	Community	Flowing Artesian? Dry Hole?				
Industrial/Commercial Livestock Dewatering		WATER BEARING ZONES Denth water was first found 75				
Thermal Injection Other		SWI Date From To Fet Flow SWI (nei) + SWI (A)				
		Considered From To Estrice SwL(ps) - SWL(R)				
(3) DOKE HOLE CONSTRUCTION Special S	Standard [](Attach copy)	02-21-2016 75 100 18 62				
BORF HOLF SEAL	- control					
Dia From To Material From	To Amt lbs					
10 0 21 Bentonite Chips 0	21 11 S					
6 21 100	Calculated 9					
	Calculated	(11) WELL LOG Ground Elevation				
How was seal placed: Method A B		Material From To				
X Other Poured and Probed		Top soil 0 2				
Backfill placed from ft. to ft. Materia	al	Silt sandy Brown firm 2 7				
Filter pack from ft. to ft. Material	Size	Clay brown silty and firm 2 21				
Explosives used: Yes Type Amount		Sand brown and grey fine to med grained 29 75				
(59) ABANDONMENT USING UNHYDRATED	BENTONITE	Gravel multi colr med to small W/sand brown and 75 100				
Proposed Amount Pounds Actual Amou	int Pounds	grey fine to med grained				
(6) CASINC/LINER		<u> </u>				
Casing Liner Dia + From To Gauge	e Stl Plstc Wld Thrd	SIL SEASONO O P				
● ○ 6 × 1 80 250		Hield Drilling 5. Burk Carlos				
		RECEIVED BX OWRD				
	HHRAF	P.O. BOX 21030				
	HHKAL					
Shoe V Inside Outside Other Location	of shoe(s) 80	JUN 2 9 2016				
Temp casing Var Dia From	To	Ö				
		SALEM OR				
(/) PERFORATIONS/SCREENS Perforations Method						
Screens Type Johnson Mate	rial pvc	Date Started02-20-2016 Completed 02-21-2016				
Perf/S Casing/ Screen Scrn/slot	Slot # of Tele/	(unhanded) Water Well Constructor Contification				
creen Liner Dia From To width	ength slots pipe size	(unbonded) water well constructor Certification				
	.000 2,000	abandonment of this well is in compliance with Oregon water supply v				
		construction standards. Materials used and information reported above are true				
		the best of my knowledge and belief.				
		License Number 1725 Date 02-23-2016				
(8) WELL TESTS: Minimum testing time is 1 hour		Signed Sam / Re maidda				
O Pump O Bailer O Air	O Flowing Artesian	signed and the origination				
Yield gal/min Drawdown Drill stem/Pump dep	th Duration (hr)	(bonded) Water Well Constructor Certification				
18 95	1	I accept responsibility for the construction, deepening, alteration, or abandonry				
		work performed on this well during the construction dates reported above. All y				
		construction standards. This report is true to the best of my knowledge and beli				
Temperature 56 °F Lab analysis Yes By	amount	License Number 1726 Date 02 22 2016				
Water guality concerns? [_]Yes (describe below) IDS From To Description	Amount Units					
		Signed I may & any sendle				
		Contact Info (optional)				
		DEDADTACNIT				
OPICINA	I WATER RESOURCES	LIPPAKINGENI				

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version: 0.95

SLASS 737	SARna inc.
STATE OF OPECON -36721 5. KTOD	WELL LD. LABEL# 1/ 127202
WATED SUPPLY WELL DEDODT	$\mathbf{START CARD # 214214}$
(as required by ORS 537.765 & OAR 690-205-0210)	
Circle Aird Owner Well I.D.	(14/735)8
Company	(9) LOCATION OF WELL (legal description)
Address 25311 S. Barlow Rd.	County CLACKAMAS Twp 4 S N/S Range E/W WM
City Canby State OR Zip 97013	Sec 7 SE 1/4 of the NE 1/4 Tax Lot 500
(2) TYPE OF WORK New Well Deepening Conversion	Tax Map Number Lot
Alteration (complete 2a & 10) Abandonment(complete 5a)	Lat Or DMS or DD
(2a) PRE-ALTERATION	Long Of DMS of DD
Cesing: Dia + From To Gauge Sti Pistc Wid Thrd	(Street address of well (Nearest address
Material From To Amt sacks/lbs	25311 S. Barlow Rd., Canby, OR 97013
Seal:	
(3) DRILL METHOD	(10) STATIC WATER LEVEL
Rotary Air Rotary Mud Cable Auger Cable Mud	Date SWL(psi) + SWL(ft)
Reverse Rotary Other	Completed Well 08 22 2017
(4) PROPOSED LISE X Domestic Ilcrigation Community	Flowing Artesian? Dry Hole?
Industrial/Commercial Livestock Dewatering	
	WATER BEARING ZONES Depin water was histiound
	SwL Date From To Est Flow SwL(psi) + SwL(li)
(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy) 190 195 DNM
Depth of Completed Well <u>2075</u> ft.	214 217 DNM
Dia From To Material From To Amt lbs	248 251 DNM
10 0 75 Bentonite 0 20 21 S	
6 75 271 Calculated 8.4	
Cement 20 75 68 S	
	Ground Elevision La V La Lo 10 11
How was seal placed: Method A B C D B	Soil 10
Backfill placed from the to the Material	Clav Brown & Grey 00 T 1 2 2017 8
Filter pack from the to the Material Size	Silt Grey Soft 8 12
	Gravel with Clay Grey 12 29
Explosives used: res Type Amount	Gravel with Brown Clay SALEM, OF 66
(5a) ABANDONMENT USING UNHYDRATED BENTONITE	Clay Brown 06 75
Proposed Amount Pounds Actual Amount Pounds	Clay Blue with Green
(6) CASING/LINER	Packed Silt Blue
Casing Liner Dia $+$ from to Gauge Sti Piste Wid Infd	Clay Grey Stickey 89 93
	Clay Green 93 94
Riser 0 • 4 210 251 200 rs 0 • ×	Clay Gray Stickey
Tail • 4 266 267.5 200 ps • X	$\frac{104}{105}$
	Clay Grey Stickey 105 115
Shoe Inside Outside Other Location of shoe(s) 271	Packed Silt & Sand 115 122
Temp casing Yes Dia 10 From + X 1 To 75	Clay Blue Green Medium
(7) PERFORATIONS/SCREENS	Clay Grey Stickey 132 136
Perforations Method	Continued on Fuge 2
Screens Type Wire Wrapped Material Stamless Steel	Date Started_08-14-2017 Completed_08-22-2017
creen Liner Dia From To width length slots nine size	(unbonded) Water Well Constructor Certification
Screen 4 251 266 .4 4	I certify that the work I performed on the construction, deepening, alteration, or
1	abandonment of this well is in compliance with Oregon water supply well
	construction standards. Materials used and information reported above are true to
	License Number 1259 Date 08.07.2017
	License Ivuinber 158 Date 08-27-2017
(8) WELL 1 ESTS: Minimum testing time is 1 hour	Signed Kim & Make
O Pump O Bailer (•) Air O Flowing Artesian	
<u>Vield gal/min</u> Drawdown Drill stem/Pump depth Duration (hr)	(bonded) water welly Constructor Certification
	I accept responsibility for the construction, deepening, alteration, or abandonment
	performed during this time is in compliance with Oregon water supply well
Temperature 60 °F Lab analysis Yes Rv	construction standards. This report is true to the best of my knowledge and belief.
Water quality concerns? Ves (describe below) TDS amount 200 ppm	License Number 688 Date 08-29-2017
From To Description Amount Units	At in At-11
	Signed / Win 1. Arachhr,
	Contact Info (optional)

-

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version: 0.95

CLAC 73358 Westerberg Drilling, Inc. 36728 S. Kropf Rd.

Molalla, OR 97038

sacks/

continuation page (2a) PRE-ALTERATION Dia Gauge Stl Plstc Wld Thrd + From То Material From То Amt sacks/lbs (5) BORE HOLE CONSTRUCTION BORE HOLE SEAL Dia То From To Amt lbs Material From Calculated Calculated Calculated Calculated FILTER PACK Material Size From То (6) CASING/LINER Casing Liner Dia From To Gauge Sti Piste Wid Thrd + OТ Т

.

WATER SUPPLY WELL REPORT -

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Q Q				Q	ЯL	니니
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X X				\aleph	۲H	+H
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O O				0	ΩĽ] 🗆

(7) PERFORATIONS/SCREENS

Perf/S creen	Casing/ Liner	Screen Dia	From	То	Scm/slot width	Slot length	# of slots	Tele/ pipe size
		·					<u> </u>	
<u> </u>					· · · · · ·			
						···		+

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

Yield gal/min Drill stem/Pump depth Drawdown Duration (hr)

WELL I.D. LABEL# L 127202 START CARD # 214214 **ORIGINAL LOG #**

CLAC 73358

Water (Quality Conc	erns	CLAC 73358
From	То	Description	Amount Units
	+		
-			

(10) STATIC WATER LEVEL

SWL Date	From	То	Est Flow	SWL(psi)	+	SWL(ft)
	+				Η	
	+				\vdash	
					\vdash	
	<u> </u>				-	
L	L_,	I	I	I	L.,	لمستحصيا

(11) WELL LOG

Material	From	То
Clay Grey Silty	136	142
Clay Grey Stickey	142	145
Packed Silt Grey	145	152
Clay Grey	152	185
Silt Grey	185	190
Sand Grey-Green Fine-Medium	190	195
Packed Silt Grey-Green	195	203
Clay	203	214
Sand	214	217
Clay Grey Stickey	217	234
Clay Brown with Wood	234	248
Sand	248	251
Clay Grey	251	255
Sand Black	255	265
Clay Grey	265	271

Comments/Remarks

Shoe was cut off. 6" pipe from 266' - 271' left in hole.

- CLAC 73	3454
	Drilling. Inc. CLAN TRUCH
24709 C Via	nf Dr.
STATE OF OREGON JOI 20 3. NO	WELL I.D. LABEL# L 127208
WATER SUPPLY WELL REPORT MOIALIA, OR	97038 START CARD # 214209
(as required by ORS 537.765 & OAR 690-205-0210)	ORIGINAL LOG #
(1) LAND OWNER Owner Well I.D	
First Name Nancy Last Name Hanes	(9) LOCATION OF WELL (legal description)
Company	County CLACKAMAS Twp 4 S N/S Range 1 E E/W WM
City Canby State OR 7:- 97013	Sec <u>8</u> <u>NW</u> 1/4 of the <u>NW</u> 1/4 Tax Lot <u>900</u>
(2) TYPE OF WORK New Well Deepening Conversion	Tax Map Number Lot
Alteration (complete 2a & 10) Abandonment(complete 5a	Lat OMS or DD
2a) PRE-ALTERATION	Long OMS or DD
Casing: Casing	(• Sheet address of went () Nearest address
Material From To Amt_sacks/lbs	25040 S Barlow Rd, Canby, OR 97013
Seal:	
5) DRILL METHOD X Potory Air Destry Myd Deshla Dawar Deshla Mud	(10) STATIC WATER LEVEL
	Existing Well / Pre-Alteration
	Completed Well 10-04-2017 64.3
4) PROPOSED USE Domestic Intrigation Community	Flowing Artesian? Dry Hole?
Lindustrial Commercial Livestock LDewatering	WATER BEARING ZONES Depth water was first found <u>34</u>
	- SWL Date From To Est Flow SWL(psi) + SWL(ft)
5) BOKE HOLLE CONSTRUCTION Special Standard (Attach cop	y) 133 136 DNM DNM DNM
BORE HOLE SFAI and	s/ 10-04-2017 251 256 45 DNM 64.25
Dia From To Material From To Amt lbs	
10 0 80 Bentonite 0 11 12 S	
Carchitett 4.0	
Calculated 19	(11) WELL LOG Ground Elevation
How was seal placed: Method A B C D E	Material From To
X Other Bentonite Poured & Probed	
Backfill placed from ft. to ft. Material	Gravel Grev 2 10 25
Finde pack from R. to R. to R. to Sand	Gravel Brown 25 45
	Clay Grey Sticky 45 52
Pronosed Amount Pounds Actual Amount Pounds	Clay Grey S 62 73
Actual Anount	Packed Silt Grey
Casing Liner Dia + From To Gauge Sti Plstc Wld Thrd	Clay Grey 92 94
● <u>6</u> <u>× 1.25</u> <u>249</u> <u>250</u> ● <u>×</u> ×	Packed Sand Grey & Brown Strong 112
	Clay Sticky Grey & Brown 112 114
	Clay Grey Very Stickey
	Clay with Sand Black 133 136
Shoe Inside Outside Other Location of shoe(s) 249	Clay Sticky Blue-Grey 143 167
Temp casing Yes Dia 10 From + X 1 To 77	Clay Grey Ladeen Stiff 167 190
) PERFORATIONS/SCREENS	Packed Silt Blue Grey 190 208
Perforations Method	
Perf/S Casing/ Screen Scrn/slot Slot # of Tele/	Date Started09-26-2017 Completed 10-04-2017
creen Liner Dia From To width length slots pipe size	(unbonded) Water Well Constructor Certification
Pert Liner 4 247 257 .040 4	I certify that the work I performed on the construction, deepening, alteration, or
	construction standards. Materials used and information reported above are true to
	the best of my knowledge and belief.
	License Number 1358 Date 10-04-2017
) WELL TESTS: Minimum testing time is 1 hour	Signed Black Hall
U Pump U Bailer (Air O Flowing Artesian	
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)	(Donged) water Well Constructor Certification
	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
Temperature <u>58</u> °F Lab analysis Yes By	construction standards. This report is true to the best of my knowledge and belief.
Water quality concerns? LYes (describe below) TDS amount 185 ppm. From To Description Amount Units	License Number 688 Date 10-09-2017
	Signed Steven n. Atadile
	Contact Info (optional)

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version: 0.95

CLAC 73454 Westerberg Drilling, Inc.

WATER SUPPLY WELL REPORT continuation page

36728 S. Kropi Rd. WELL I.D. LABEL# 1 127208

Violalia, OR 97038

START CARD # 214209

ORIGINAL LOG #

	То	Description	Amount Units
	<u>├───</u>		
·····			·
·		<u> </u>	

(10) STATIC WATER LEVEL

SWL Date	From	То	Est Flow	SWL(psi)	+ SWL(ft)
		+	<u> </u>		
	<u> </u>	+			
	1				

(11) WELL LOG

Material	From	To
Silt Blue-Grey	222	225
Clay Blue Sticky	225	251
Sand Grey	251	256
Clay Grey	256	260
·····	l	
· · · · · · · · · · · · · · · · · · ·		<u> </u>
· · · · · · · · · · · · · · · · · · ·	+	
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SALEM OR		
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Comments/Remarks

(8)	V	VE	LL	TES	TS:	Minim	um	tes	ting	; time	is	1	hour
			• •		~		-			-			-

Y teld gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
	1		<u> </u>
	1		
	1		

Dia

+

From

(2a) PRE-ALTERATION

То

Gauge Sti Plstc Wld Thrd



(7) PERFORATIONS/SCREENS

Perf/S creen	Casing Liner	Screen Dia	From	То	Scrn/slot width	Slot length	# of slots	Tele/ pipe size
	<u> </u>							
							ľ	

CLAC 73454

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1111-111711111111111111111111111111111	17 AM-3+CONTUR-1COMMANDALANIAN (PADPACOLIFICIONISCUDALIS)A SICILA MANANA ANTISA DALAN	FEB	••••
STATE OF ORIGON		$\hat{\mathbf{n}}$	MA
MONITORING WELL REPORT	WELL LABEL # L	70502	7
(as required by ORS 537.765 & OAR 690-240-0395)	STADY CADD #	DUALHU	
	START CARD #	090199	
(1) LAND OWNER Owner Well I.D. MW	(6) LOCATION OF WELL (legal desc	ription)	
	Sec 7 SE 1/4 of the 1)F: 1/4	Tax Lot VIEO70	WM Va
Address 25351 S. Barlow Rol	Tax Map Number	Lot	-963
City Canby State OK 21p 97013	Lat "or or	DMS or I DMS or I	00
Alteration (repair/recondition)	Street address of well C. No	arest address	
	15251 S Employa	1	
Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud			
Reverse Rotary Other SoAll	Date	SWL(psi) + SWL(lt)	_
(4) CONSTRUCTION Piozometer Well	Existing Well / Predeepening		\neg
Depth of Completed Well 40 ft. Special Standard	Flowing Artesian?	Dry 1101c?	
MONUMENT/VAULT Above Ground	WATER BEARING ZONES Depth water	was first found	_
From To	SWL Data From To Est Plo	<u>AV_SWL(psi)</u> + <u>SWL(f)</u>	<u>ት</u>
BORFILOLE			7
Diameter <u>7 //</u> From <u>0</u> To <u>50</u>			-
CASING]
Die 2" From D To 20	(8) WELL LOG Ground Elevation _	·	
Gauge Sch 40 Wid Thed	Material	From To	7
Material OSteel OPlastic 🗌 🖉	37.17	8	_
	BOONLY SAINCE		-
			_
Gauge Wid Thrd	Sandy gravel	35	-
Material Osteel OPlastic		40	-
SEAL D 17	mod - Five sand	<u>uo</u>	
Brom 40 To 50	· · · · · · · · · · · · · · · · · · ·	48	-
Material <u>Sev</u> F U. Its	- clar/	48	
Aniount Grout weight			-
SCREEN			-
Casing/Liner Material			ゴ
Slot Size 110			_
	Dato Staties 10-24-18 Complete	a 10-24-18	
From 17 To 40 Material Shall Size of pack 12/22	(unbonded) Monitor Well Constructor Certifics	dien uction, dectening, alteration	n. or
	abandonment of this well is in compliance	with Oregon monitoring	well
5) WELL TESTS	the best of my knowledge and belief.	terror) reporter apove and fut	10 K)
Pump Bailer O Air O Flowing Artesian	License Number 10609 Date	10-24-18	_
	Password : (if filing electronically)		<u>.</u>
	(bonded) Manitor Well Constructor Cartificatio		
remoterature °F Lab analysis Yes By	I accept responsibility for the construction, deeper	ning, alteration, or abandonn	nent
Supervising Geologist/fingineer	 work performed on this well during the construct work performed during this time is in compliance 	tion dates reported above, a with Oregon monitoring	Al) well
Water quality concerns? Yes (describe below) TDS amount	construction standards. This report is true to the be	st of my knowledge and bel	ieľ,
rrom To Description Amount Units	License Number Date Date	1-24-14	_
	Cianad		-

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		OWRD
STATE OF OREGON MONITORING WELL REPORT	WELL LABEL # L 1209	.03
(as required by ORS 537.765 & OAR 690-240-0395)	START CARD # 10401	73
First Name Last Name Volume	County Clocker Merry 4 NS Range / DW WM	
Company	Sec SE 1/4 of the NE 1/4 Tax	1.01 4/E070700
Address 25490 S. Rhotan Rd.	Tax Map Number J.ot	0148 DD
City Arit Cora State O.K. Lip	Lat or	DMS of DD
(2) TYPE OF WORK New Deepening Conversion	Street address of well C Nearost address	
(3) DRILL METHOD Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud	25490 S. Rhoten Rd	Aurora
Reverse Rotary Other	(7) STATIC WATER LEVEL Date SWIZ	osi) + SWL(N)
(4) CONSTRUCTION Piezometer Well	Existing Welt / Predeepening	
Depth of Completed Well 20 ft, Special Standard	Completed Well	
	WATER BEARING ZONES Depth water was first	st found
MUNUMENTITY AULT Above Ground	SWL Date	Licosi) + SWLOD
BOREHOLE		
Diameter 7" From 0 To 35		
CASING		
	(a) WEDE LOG Ground Elevation	
· Gauge Set 40 Wild Thrd	Material F	
Material Sleel Plastic 🗋 🗾		
	Sondy graved	5 10
	gnavelly Sard 1	23
	anavellin could what	0 75
	Provide Dealers at M. C	
	Sandy grere 7	5 33
SEAL O' T'	5014	3 3 35
From 30 10 35		
Material <u>SCNT Charge</u>		
SCREEN		
Casing/Liner Material WC		
Slot Size 2/2 From 10 30		·
	Date Started 10-26-18 Completed 11	5-26-18
FILTER 12/	(unbonded) Monitor Well Constructor Certification	
From 7 To 30 Material 201 No. Size of pack 720	I certify that the work I performed on the construction, i abandonment of this well is in compliance with (deepening, alteration, or Dregon monitoring well
A WEI I TESTS	construction standards. Materials used and information a	eported above are true to
\bigcirc Pump \bigcirc Bailer \bigcirc Air \bigcirc Flowing Artesian	the best of my knowledge and heltel.	
Yield gal/min Drawdown Drill stem/Pump depth Duration (br)	License Number 1000 9 Date 1	00020-10
	Signed	s
	(bonded) Monitor Well Constructor Certification	
Temperature °I' Lab analysis Yes By	I accept responsibility for the construction, deepening, al	teration, or abandonment
Supervising Geologist/Bagineer	work performed on this well during the construction da work performed during this time is in compliance with	tes reported above. All Oregon monitoring well
Water quality concerns? Yos (describe below) TDS amount	construction standards. This report is true to the best of m	y knowledge and belief.
Prom To Description Amount Units	License Number 10,581 Date	-29-19
	Signed	
	Contact Info (obtional)	

ORIGINAL - WATER RESOURCES DEPARTMENT THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

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STATE OF OREGON MONITORING WELL REPORT	17 (716 7 V J 11. VI) (1 2) 1 (2)	OWRD
(as required by ORS 537.765 & OAR 690-240-0395)	START CARD # 104	10147
(1) LAND OWNER Owner Well Y.D. MW 3	(D) OCATION OF WELL (legal descri	ntion)
Pirst Name Last Name Yodest	County Clackarnas Twp 4 NS F	tange / DW WM
Address 25490 S. Photoin R.d. City Antonna State OR Zip	Tax Map Number	Lot
(2) FYPE OF WORK ANN Deepening Conversion	Long or _	DMS or DD
(3) DRILL METHOD Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud	25490 S. Rioten Rd	Lucora OR
(4) CONSTRUCTION	Date S	WL(psi) + SWL(A)
Depth of Completed Well 70 ft. Special Standard	Completed Well Flowing Artesian?	Dry Holo?
KONUMENTVAULT Below Ground	WATER BEARING ZONES Depth water w SW1. Date From To Est Flow	as first found
BORB HOLE		
Diameter <u>1</u> From <u>0</u> To <u>7</u> D		
CASING 1 Krom 1 +3 To +HD	(8) WELL LOG Ground Plevation	
Gauge Sun HD Wild Three	Material	From To
. Matorial OSteel ØPlastic 🗌 🛛	sandy gravels	10 20
	silty grovels + sands	20 35
Gauge Wid Thrd	growly sands	35 72
	gry day	72. 75
Prom 0 To 37		
Amount Grout weight		
SCREEN		
Casing/Liner Material Diameter 2 th Room 40 To 19	-	
Slot Sizo <u>a rO</u>	Date Started 10-16-18 Completed	10-17-18
From 37 To 70 Material 12/20 Sand Size of pack	(unbonded) Monitor Well Constructor Certificat I certify that the work I performed on the constru-	lon clion, deepening, afteration, or
(5) WELL TESTS	construction standards, Materials used and information to best of my knowledge and belief.	tion reported above are true to
O Pump O Bailer O AIr O Plowing Artesian Vield cal/min Drawdown Drill) stem/Pump depth Duration (br)	License Number 10609 Date	10-17-18
	Signed	
Temperature °F Lab analysis Yes By	(bonded) Monitor Well Constructor Certification 1 accept responsibility for the construction, deepen	ng, alteration, or abandonment
Supervising Geologist/Engineer	 work performed on units well during the construction work performed during this time is in compliance construction standards. This report is true to the best 	on onces reported above. All with Oregon monitoring well for my knowledge and baller
From To Description Amount Units	Licenso Number 10581 Date	1-29-19
	Signed Contact Info (optional)	······································
ORIGINAL - WATER RESOUR	CES DEPARTMENT	

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

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STATE OF OREGRET WELL LABEL # L. Is control to the oreganization of the transmission of transmissi transmissi transmission of transmission of transmissi	DMS or DD DMS or DD
(as required by ORS \$37.765 & OAR 690-240-0395) START CARD # [D. 0146 (1) LAND OWNER Owner Well I.D. 10 W W (6) LOCATION OF WELL (legal description) First Name Last Name Lee Company Address 5351 State Address 5351 Boar On 12 County Clackond STwp 14 City Cound State OR 219 9 7013 County Clackond STwp 14 City State OR 219 9 7013 County Clackond STwp 14 Tax Nap Number (2) TYPE OF WORK []New Despening Conversion Conversion Street address of well Nearest address (3) DRILL METHOD Abandonment Cable Mud Cable Mud Cable Mud Nearest address Reverse Rotary Other Special Standard MONUMENT/VAULT Above Ground VATER BEARING ZONES Date SWI (pst) + S WATER BEARING ZONES Dismeter 1 From To St Depth water was first found SWL Date From 13 To SW Date SWI (pst) + S Dismeter 1 From 73	(DW WM C) 70(000 DMS or DD DMS or DD WL(R)
START CARD # $[0 + 0 + 2 + 2]$ (1) LAND OWNER Owner Well I.D. M_W 4 (6) LOCATION OF WELL (legal description) Company Company Address SS T S. Bat OL 2 2.4 Company Address SS T S. Bat OL 2 2.4 Company Address SS T S. Bat OL 2 2.4 Company State OL 2.4 Company State OL 2.4 Company State OL 2.4 Company State OL 2.4 (2) TVPE OF WORK [New Deceponing Conversion Address of well Conversion Address of well Conversion Address of well Conversion Record Caster Mud Caster Mud Record Caster Mud Caster Mud Caster Mud Caster Mud Depth of Completed Well Caster Mud Depth of Completed Well <td>DW WM O 70000 DMS or DD DMS or DU WL(R)</td>	DW WM O 70000 DMS or DD DMS or DU WL(R)
(1) LAND OWNER Owner Well I.D	DMS or DD DMS or DD DMS or DD
Diameter 7 From 0 To 89 CASING Dia 21' From 73 76 26 68) WELL LOG Oround Elevation	SWL(M)
Gauge Sch. 40 Wid Thrd Material Osteel Plastic Image: Sch. 40 Material Osteel Plastic Image: Sch. 40 LINER Dia. From Image: Sch. 40 Sch. 40 Dia. From Image: Sch. 40 Sch. 40 Sch. 40 Dia. From Image: Sch. 40 Sch. 40 Sch. 40 Dia. From Image: Sch. 40 Sch. 40 Sch. 40 Gauge Wid Thrd Sch. 40 Sch. 40 Gauge Wid Thrd Sch. 40 Sch. 40 Material Osteel Plastic Image: Sch. 40 Sch. 40 Steal o' 25 Sch. 40 Sch. 40 Steal o' 25 Sch. 40 Sch. 40 Material Material Sch. 40 Sch. 40 Sch. 40 Scr. EBN Scr. 50 Sch. 40 Sch. 40 Sch. 40	To 5 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 7 7 7 7 7 7 7 7 7 7 7 7
Diameter <u>1th</u> From <u>2</u> L To <u>4</u> B	
Date Started 10-18 . 18 Completed 10-18 .	18
Fill. TBR Size of pack Material Size of pack Material Constructor Certification (unbonded) Monitor Well Constructor Certification I certify that the work I performed on the construction, deepening, abandonment of this well is in compliance with Oregon moniconstructor standards. Materials used and information reported above the best of my knowledge and belief. (5) WELL TESTS Pump Bailer Air Flowing Artesian Yield gal/min Drawdown Drilli stem/Pump depth Duration (hr) Date 10 -18 - Yield gal/min Or E Lab analysis Yes By Signed Warderails below procession Temperature OF Lab analysis Yes By Warderails below procession Warderails below procession Work performed during this time is in compliance with Oregon moniconstruction threadeds. This report is true to the best of my knowledge Date 10 -18 - Password : (if filing electronically) Signed Warderaile Warderaile Date 10 -18 - Work performed during this time is in compliance with Oregon moniconstruction threaderaile Warderaile This report is true to the best of my knowledge Warderaile This report is true to the best of my knowledge <td>alteration, or itoring well ve are true to <u>18</u> sbandonment ubove. All initoring well or and belief</td>	alteration, or itoring well ve are true to <u>18</u> sbandonment ubove. All initoring well or and belief
Water quarty concerns? I rest (describe below) I DS smount From To Description Amount Units License Number $LOS8/$ Dato $I = 2/9 - 1/2$ Password : (if filing electronics!!y)	9
Signed Contract Info (optional)	
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STATE OF OREGON	IEBART		Swith D
In required by ODS \$37.765	ET UK I 	WELL LABEL # L	20 9 0 1
(as required by OKS 557.705	& VAR 070-240-0370)	START CARD # 10	40145
(1) LAND OWNER	Owner Well I.D. M.W 5	(6) LOCATION OF WELL (legal descr	ription)
First Name	Last Name Lee Noder	County Clackanta Pup 4 NS	Range D'W \
Company Address \51100	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	$= \frac{8ec}{7} = \frac{7}{5E} = \frac{1/4 \text{ of the } NE}{1/4}$	Tax 1.01 4/ EO.700
City Auroco	State 00 Zip		DMS or D
(2) TYPE OF WORK [New Decenening Conversion	Long or	DMS or D
Alteration (repair/recondit	lon) Abandonment	Street address of well C Neg	nest address
(3) DRILL METHOD		25351 S. Barlow Rol	
Rotary Air Rotary Mu	d Cable Hollow Stom Auger Cable Mud	(7) STATIC WATER LEVEL	
		Date	$\frac{SWL(psi)}{1}$ + $\frac{SWL(ft)}{1}$
(4) CONSTRUCTION	Piezometer Well	Completed Well	
Depth of Cor	npleled Well 30 ft. Special Standard	Flowing Artesian?	Dry Hole?
м н	ONUMENT/VAULT Above Ground	Shut Data	vas first Found
	FromTo		$\frac{W_{\rm SWL(R)}}{1} = \frac{W_{\rm SWL(R)}}{1}$
	DREHOLE		
	Diameter 7 From 0 To 45		╺┨╾┉───┥╞┿╋━━━━
	ASING	(8) WELL LOG Ground Elevation	· · · · · · · · · · · · · · · · · · ·
	Dia, 2 From 0 10 20		From To
	Gauge <u>54.48</u> Wid Third	5117	05
		Silty Bank	10
	NER		
	Dia. From 🛄 👘	SAREY Growels Source	10 15
	Gauge Wid Thrd		
	Material OStecl OPlastic []	gravelly sand	15
	AT		
	in the To Lat	med - Fire Source	36
	faterial Benit childs		
	Grout weight		
	ים מוזאז	······································	+
	Instant Material		
	Diameter 7. * Rrow 9.0 To 337	-	
	Slot Size 0/b	Date Started 10-24-18 Complete	1.024.18
تر ري	CTER C	(unbanded) Manitor Well Constructor Certifica	lion
From 17 To 301	Material Sprud Size of pack 2/20	I certify that the work 1 performed on the constru	action, deepening, alteration
· · · · · · · · · · · · · · · · · · ·		abandonment of this well is in compliance v	with Oregon monitoring a ation reported above are from
(5) WELL TESTS		the best of my knowledge and belief.	and reported traine are the
O Pump O Bailer	Air O Flowing Artesian	License Number 10609 Date	10.24.18
Yield gal/min Dravvdo	wn Drill stem/Pump depth Duration (hr)	Password : (if filing electronically)	· · · · · · · · · · · · · · · · · · ·
		Signed	
		(bonded) Monitor Well Constructor Certification	1 ing piterotion of shandars
Temperature °F Lat	analysis [_] Yos By	- work performed on this well during the construction	ion dates reported above.
Supervising Geologist/Enginee		work performed during this time is in compliance	with Oregon monitoring y
Water quality concerns?	JYcs (describe below) "FDS amount	- License Number /OCR/ Date	د در سای میں میں میں میں میں میں میں میں میں می
		Password : (if filing electronically)	$-\frac{1-\alpha}{1-1}$
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