

STATE ENGINEER
Salem, Oregon

Klamath
1219
Klamath Well Record

STATE WELL NO. 38/9-32E(7)
COUNTY Klamath
APPLICATION NO. _____

OWNER: Oregon Water Corp. MAILING ADDRESS: _____

LOCATION OF WELL: Owner's No. 8 CITY AND STATE: Klamath Falls, Oregon

SW 1/4 NW 1/4 Sec. 32 T. 38 N. S., R. 9 E. W., W.M.

Bearing and distance from section or subdivision corner _____

Altitude at well 4,088

TYPE OF WELL: drilled Date Constructed 1929-30

Depth drilled 850 Depth cased _____

Section _____

CASING RECORD: 16" set from 5 to 168 ft.

FINISH: Open hole below 168 ft. - 16 in. bore to 577 ft, 12 in. from 577 to 745 ft., 10 in. from 748 to 814 ft., and 7 in. from 814 to 850 ft.

AQUIFERS: _____

WATER LEVEL: flows

PUMPING EQUIPMENT: Type _____ H.P. _____
Capacity _____ G.P.M.

WELL TESTS:
Drawdown _____ ft. after _____ hours _____ G.P.M.
Drawdown _____ ft. after _____ hours _____ G.P.M.

USE OF WATER public supply Temp. _____ °F. _____, 19.

SOURCE OF INFORMATION Oregon Water Corp.

DRILLER or DIGGER _____

ADDITIONAL DATA:
Log Water Level Measurements _____ Chemical Analysis Aquifer Test _____

REMARKS: City well No. 7

Klamath 12119

KLAM 12119

STATE ENGINEER
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Well Log

Owner: Oregon Water Corp. Owner's No. 8

Driller: Date Drilled 1929 - 30

CHARACTER OF MATERIAL	(Feet below land surface)		Thickness (feet)
	From	To	
Black soil	0	6	6
Large and small loose rock & boulders	6	38	32
Boulders & gravel, caving, cemented from 43 to 60 ft.	38	60	22
Rock & boulders	60	66	6
Boulders & blue shale	66	69	3
Boulders & black sand	69	73	4
Yellow shale & rock	73	74	1
Rock	74	75	1
Seamy rock	75	82	7
Rock & chalk	82	100	18
Stratum of sand & a little water at 100'			
Rock & Chalk	100	102	2
Rock & sand	102	103	1
Loose seamy rock	103	105	2
Rock & boulders	105	108	3
Loose rock	108	112	4
Rock & quicksand	112	115	3
Loose rock	115	144	29
Loose rock, some sand	144	148	4
Loose mixed rock & sand	148	154	6
Mixed rock & sand with a little clay	154	158	4
Quicksand	158	159	1
Soft lava rock & clay	159	166	7

STATE ENGINEER
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State Well No. 38/9-32E(7)
County Klamath cont.
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CHARACTER OF MATERIAL	(Feet below land surface)		Thickness (feet)
	From	To	
Conglomerate, chalk, clay, & rock	166	170	4
Gravel, chalk, sand & dirt	170	172	2
Gravel, chalk & sandstone, a little water	172	174	2
Gravel, chalk & soft sandstone	174	178	4
Mixed chalk, gravel & lava rock	178	180	2
Mixed lava, sandstone & thin rocks, a little water	180	186	6
Brown shale, not very hard	186	189	3
Brown shale with a little rock mixed in	189	190	1
Shale & a little sand	190	199	9
Sandstone, chalk & clay conglomerate, a little rock	199	203	4
Mostly sandstone, some chalk, some rock	203	210	7
Soft mixed sandstone	210	231	21
Streak of blue and yellow clay	--	--	--
Sandstone	231	233	2
Streak of mixed clay	--	--	--
Mixed clay and some sandstone	233	243	10
Mixed sandstone, clay and rocks	243	270	27
Mixed sandstone, clay, & rocks, a little harder	270	290	20
Same formation, but harder	290	295	5
Coarse sharp sand & water	295	298	3
Gray sandstone	298	331	33
Rock & gravel, a little water	331	338	7

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CHARACTER OF MATERIAL	(Feet below land surface)		Thickness (feet)
	From	To	
Sand, gravel & rock, water increased some	338	340	2
Same	340	343	3
Sand, gravel & small rocks	343	346	3
Sandstone or shale, a little harder	346	350	4
A mixture of sandstone with small hard rocks like basalt mixed in. Gradually working into rather a conglomerate mixture of sandstone, shale, hard and larger rocks. Rock resembles basalt, brown in color, and heavy and increasing in size with less of the sandstone and clay mixed in. Water continuing to increase slightly all the way through this mixture which has small seams, but being pretty tightly packed at this depth. No increase in water from 370 to 403.	350	403	53
About the same formation but getting less of the hard rock and beginning to show a little gravel, like fine river gravel, with quite a mixed variety of sizes and colors.	403	413	10
Showing of more of the gravel and some soft shale, nearly like chalk, but pink in color. Looks like a little of everything mixed in conglomerate. Carrying just a little water.	413	423	10
Gradually getting lighter in color and seams to be mixed shale and harder gray sandstone, too compact to carry water. Hard and soft streaks, perhaps a foot of hard gray sandstone, then a foot or so of softer shale, gradually getting softer and less of the sandstone, but has hard streaks mixed in.	423	440	17
Softer pink colored shale with a tract of clay	440	443	3
Layer of gray sandstone	--	--	--
Colored shale, almost like chalk	443	446	3
Thin layer of gray sandstone	--	--	--

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CHARACTER OF MATERIAL	(Feet below land surface)		Thickness (feet)
	From	To	
Burnt sand or shale, water	446	448	2
Gray sandstone which is pretty fine grained and has more or less seams, through which there is a little additional water coming up.	448	461	13
Gradually turning from gray to brown sandstone, almost like conglomerate with numerous colored pebbles in it. A little gain in water gradually to her.	461	468	7
Showing of clay mixed in and larger pebbles	468	470	2
Mixture of sandstone and shale with quite a mixture of colors, in a sort of conglomerate of shale and stone. Some of the stone is real hard, but more or less porous, which admits some water.	470	488	18
Strata of sand, gravel, and porous stone with notable increase of water.	408	493	5
Mixture of stone and shale, mixed colors and conglomerate, slightly porous and carrying water in small quantities thru seams and conglomerate. Gradually getting a little harder, but is still a general mixture of sandstone and shale, with resemblance of an old sea beach. Working into a little harder rock in layers about 1½ in. thick and tight together except for seams. A little increase in water with additional depth.	493	519	26
Harder rock of shell rock nature	519	527	8
More of a solid formation of rock which seems to be water bearing.	527	533	6
A mixture of sandstone and hard rock and gradually getting harder as hole deepens, seems to stand up pretty good and is getting harder each foot. A little water from the bottom.	533	545	12
Soft shale resembling chalk and a slight amount of clay.	545	548	3

Klamath 12119

KLAM 12119

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CHARACTER OF MATERIAL	(Feet below land surface)		Thickness (feet)
	From	To	
Sandstone, gray in color, and pretty hard, getting darker in color, some gravel and conglomerate packed into it.	548	557	9
Softer sandstone, more like a conglomerate and a little water. 1 3/4 in. of water flowing over top of casing.	557	561	4
Gray sandstone, rather hard and gradually getting harder and darker in color.	561	568	7
Black hard gravel in conglomerate form, through which are small water carrying crevices. Nearly 1/4 in. depth of flow added at this point. 2 in. of water flowing over top of casing here.	568	577	9
Very hard block rock, resembles limestone, duttings are very fine, black in color.	577	587	10
Rock, more porous - more like basalt lava conglomerate - very hard and black. 2 1/2 in. of water flowing over top of casing.	587	595	7
Rock, not quite so hard, water increasing. 2 3/4 in. of water flowing over top of casing.	595	599	4
Softer and lighter colored conglomerate, indication of sand and gravel, gradually getting harder, darker and firmer. Gain in water of 1/16 in.	599	606	7
Solid gray black rock, very hard and tight. No water can get through this.	606	625	19
A hard mixed black and brown conglomerate, porous, more water. 3 in. of water flowing over top of casing.	625	635	10
Mixed colors, black and gray, gradually more gray in color, some fine sand working in, a little additional water, 3 1/8 in. of water flowing over top of casing.	635	641	6

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CHARACTER OF MATERIAL	(Feet below land surface)		Thickness (feet)
	From	To	
This conglomerate is pretty hard, but appears streaked with layers of softer, then harder mixtures and carrying some water as it is more or less porous. 3 1/4 in. of water flowing over top of casing.	641	653	12
A softer more sandy like conglomerate, resembling packed black sand. Various colors, gray, black, brown, carrying water.	653	669	16
Mixed formation of hard and soft mixed shale, which is more or less porous. Streaks of black and gray mixed and streaks of amber color. 3 7/8 in. of water flowing over top of casing.	669	679	10
Hard mixed conglomerate, somewhat streaked, in layers, dark in color and pretty tight formation, followed by a softer formation of same character, but lighter in color and slightly porous with a very slight showing of water.	679	689	10
Light colored formation almost like chalk. Seems like a decomposed rock of some sort.	689	695	6
Harder, dark, closely compressed formation, mostly small rock, and slightly porous. Water increased slightly.	695	700	5
Hard rock - too tight to allow water to come through, gradually getting harder, dark in color.	700	716	16
Layer of soft, light colored rock	716	717	1
Hard rock, dark in color	717	725	8
Streak of light colored sandstone or shale	725	726	1
Hard mixture of rock and conglomerate, dark in color.	726	745	19
Conglomerate rock, not so hard, dark in color	745	755	10
Conglomerate mixture, getting blue in color, bordering on blue shale. Water comes out with a bluish color.	755	767	12

Klam 12119

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Chemical Analysis

OWNER Oregon Water Corp. OWNER'S NO. 8

ANALYST Address

Date of Collection 3-3-30 (See U.S.G.S. WPS. 658 P.106)

Point of Collection

	P.P.M.	E.P.M.
Silica (SiO ₂)	46	
Iron (Fe) Total	.0	
Manganese (Mn)		
Calcium (Ca)	10	
Magnesium (Mg)	4	
Sodium (Na)	} 29	
Potassium (K)		
Bicarbonate (HCO ₃)	117	
Carbonate (CO ₃)		
Sulfate (SO ₄)	0	
Chloride (Cl)	8	
Fluoride (F)		
Nitrate (NO ₃)		
Boron (B)		
Dissolved Solids	155	
Hardness as CaCO ₃	41	
Specific Conductance (Micromhos at 25°C)		
pH		
Percent Sodium		
Sodium Absorption Ratio (S.A.R.)		
CLASS		