



Log of Well No. 1 at J. M. Plant

Started Well June 25, 1957

- 0 ft. to 2 ft. -- Top Soil
- 2 ft. to 4 ft. -- Hard Pan
- 4 ft. to 5 ft. -- Gravel
- 5 ft. to 82 ft. -- Yellow Shale (82' to surface water)
- 82 ft. to 210 ft. -- Blue Shale
- 210 ft. to 224 ft. -- Pink Shale
- 224 ft. to 243 ft. -- Green Shale
- 243 ft. to 248 ft. -- Blue and Gray Sand
- 248 ft. to 285 ft. -- Blue Clay
- 285 ft. to 340 ft. -- Blue & Green Clay
- 340 ft. to 463 ft. -- Blue Clay
- 463 ft. to 532 ft. -- Pink Shale
- 532 ft. to 540 ft. -- Gray Shale
- 540 ft. to 549 ft. -- Green Shale
- 549 ft. to 550 ft. -- Black Lava Sand
- 550 ft. to 590 ft. -- Gray Shale (sticky)
- 590 ft. to 591 ft. -- Black Sand
- 591 ft. to 686 ft. -- Hard Sticky Shale
- 686 ft. to 706 ft. -- Blue Shale
- 706 ft. to 717 ft. -- Volcanic Sand
- 717 ft. to 735 ft. -- Blue Shale
- 735 ft. to 744 ft. -- Sand Volcanic Conglomerate Rock
- 744 ft. to 750 ft. -- Dense Lava Rock
- 750 ft. to 765 ft. -- Extremely Hard Rock
- 765 ft. to 795 ft. -- Blue Lava (cemented)
- 795 ft. to 818 ft. -- Blue Lava

**RECEIVED**  
 JAN 29 1959  
 STATE ENGINEER  
 SALEM, OREGON

(continued log of Well No. 1 at J. M. Plant)  
(North Well)

35/7-28A(1)

818 ft. to 830 ft. -- Red Burnt Lava Rock  
830 ft. to 842 ft. --- Blue Lava (very hard dirty)  
842 ft. to 856 ft. --- Blue Lava (hard not so dirty)  
856 ft. to 876 ft. --- Brown Lava (very hard) some blue clay  
876 ft. to 869 ft. -- Red Lava  
869 ft. to 897 ft. --- Hard Blue Lava  
897 ft. to 906 ft. --- Red Lava Rock (porous)  
906 ft. to 912 ft. --- Hard Blue Lava  
912 ft. to 936 ft. --- Blue Lava Rock, boulders, & sand  
936 ft. to 940 ft. --- Lava ash and red lava  
940 ft. to 970 ft. --- Hard Blue Lava (cemented)  
970 ft. to 989 ft. --- Red Lava  
989 ft. to 1008 ft. --- Blue Lava  
1008 ft. to 1041 ft. -- Clean Lava Rock & sand  
1041 ft. to 1045 ft. -- Blue Lava sand & lava rock  
1045 ft. to 1050 ft. --- Burnt red lava & ash  
1050 ft. to 1082 ft. -- Black Lava (cemented) with ash  
1082 ft. to 1132 ft. --- Black Lava  
1132 ft. to 1174 ft. -- Black Lava (very hard) some fine black sand  
1174 ft. to 1184 ft. -- Black Lava (extremely hard)  
1184 ft. to 1200 ft. -- Broken Black Lava, clean laying in bed of fine sand.

Some extremely hard, and some Shawlite Boulders.

Static Water Level 51 ft. from top of casing.

**RECEIVED**  
JAN 29 1959  
STATE ENGINEER  
SALEM, OREGON