

Phillips Petroleum Co. Hobbs No. 1
 Center 1/4 SW 1/4 Section 22, T. 25 N., R. 10 W., Deer County, Oregon
 Elevation 70'
 Commenced October 23, 1943
 Abandoned March 11, 1944 at 6941'
 Casing Record - 11-3/4" cemented @ 733'

FORMATION LOG

Feet	To	Formation
0	451	Hard sand
451	471	Coal
471	753	Hard sand
753	779	Hard sand
779	836	Shale, streaks of coal
836	910	Hard sand
910	920	Coal
920	1229	Hard sand, streaks of coal
1229	1416	Hard sand
1416	1425	Cored. 3' recovery
1425	1439	Hard sand
1439	1454	Hard sand, streaks coal
1454	1457	Black shale
1457	1572	Hard sand
1572	1603	Hard sand, streaks sandy shale
1603	1779	Hard sand, Cored 1709-1718 - 7' recovery Cored 1737-1746 - 9' recovery
1779	1795	Hard sand, streaks shale

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Feet	To	Formation
1795	1830	Hard sand
1830	1867	Hard sand, streaks shale
1867	1882	Hard sand
1882	2063	Hard sand, sand shale
2063	2082	Hard sand
2082	2113	Sand and shale
2113	2119	Hard sand
2119	2146	Sand and shale
2146	2150	Hard sand
2150	2200	Sand and shale
2200	2224	Hard sand
2224	2251	Hard sand and shale
2251	2253	Hard shale
2253	2454	Hard sand and shale
2454	2484	Sand and shale streaks sticky shale
2484	2506	Hard sand and shale
2506	2614	Hard sand
2614	2711	Sand and shale
2711	2727	Hard shale
2727	2793	Hard sand and shale
2793	2813	Sandy blue shale
2813	2831	Sand and shale
2831	2835	Hard sand
2835	2841	Sand and shale
2841	2921	Sandy green-blue shale

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Feet	To	Formation
2921	2973	Sand and shale
2973	2994	Hard sand
2994	3175	Sand and shale
3175	3230	Green sandy shale
3230	3290	Hard sand and shale
3290	3312	Hard sand
3312	3423	Sand and shale
3423	3442	Hard sand
3442	3577	Sand and shale - Cored 3535-3538 - 1/2' Recovered Cored 3538-3542 - 4' Recovered
3577	3677	Green sand and shale
3677	3700	Hard sand
3700	3749	Sand and shale
3749	3779	Hard sand
3779	3809	Hard sand - streaks of shale
3809	3861	Hard sand
3861	3874	Sand and shale
3874	3898	Black hard shale
3898	3902	Hard shell
3902	3926	Sand and shale
3926	3944	Hard sand
3944	3988	Hard tough shale
3988	4003	Hard sand
4003	4024	Hard shell
4024	4122	Hard sand and shale
4122	4196	Hard sand

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Feet	To	Formation
4196	4256	Sand and shale
4256	4272	Hard sand
4272	5430	Sand and shale Cored 4434 - 4434 - 10' recovered Cored 5470 - 5480 - 6' recovered
5430	5431	Shale
5431	5775	Sand and shale
5775	5790	Hard shell
5790	5817	Sand and shale
5817	5824	Hard shell
5824	5829	Hard clay streaks shale
5829	5847	Hard shale
5847	5864	Clay - streaks of shale
5864	5945	Hard sand and shale
5945	5953	Hard shale
5953	6194	Sand and shale
6194	6210	Hard shale
6210	6274	Sand and shale - Cored 6352 - 6360 - 5' Recovered
6274	6415	Hard shale
6415	6451	Sand and shale
6451	6452	Hard shale
6452	6485	Sand and shale
6485	6506	Hard shale
6506	6557	Sand and shale
6557	6570	Hard slick shale
6570	6626	Sand and shale
6626	6656	Hard slick shale

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Feet	To	Formation
6656	6677	Sand and shale
6677	6708	Hard slick shale
6708	6761	Sand and shale
6761	6775	Hard slick shale
6775	6910	Sand and shale
6910	6941	Hard slick shale - Cored 6920-6938 - 6' Recovered

TOTAL DEPTH 6941

CORE DESCRIPTION

Core No.	Depth	Recovery	Description
1	1416 - 24	3 feet	Dense biotitic medium coarse angular quartzose sand. Low porosity.
2	1709 - 18	9 feet	Dense fine grained angular micaceous sand with streaks of carbonized material. Very low porosity.
3	1737 - 46	9 feet	Dense gray carbonaceous sandstone. Dip in laminae approximately 30° to core axis.
4	3535 - 38	4 inches	This section shows serpentinized amygdaloidal basalt. Vesicles filled with calcite and several types of scapolite.
5	3538 - 42	4 feet	Massive serpentine - little vesiculation.
6	4434 - 64	10 feet	Massive sheared serpentinized basalt
7	5470 - 80	6 feet	Fresh diabasic dikes in upper 2 feet - thin section shows euhedral crystals of unaltered magnesian olivine. Lower portion of core cut in dense well indurated calcite veined shale made up largely of fine grained "choritic" basaltic debris.
8	6352 - 60	5 feet	Hard, dense, well indurated dark sub-phyllitic rock. Fractured, slickensided and veined with calcite. Thin section shows fine quartz and feldspar in a matrix of calcite and basic swelling clay.
9	6930 - 38	app. 5 feet	Dense meta-basalt in upper portion. Dark calcite veined sheared sub-phyllite in lower portion.

Total Depth 6941 (- 6871)