

DAILY REPORT DETAILED

LEASE Glass Buttes

WELL NO. Strat #1

SHEET NO. 1

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
12-08-77	43	Drilling <del>Chyolite</del> , basalt, obsidian. Loc: 1500' FN&WL Sec. 33-23S-23E, Lake Co., Oreg. 2000' temp. observation well. Job E-1273, PPCo. 100% Dixie Drlg. Co., contractor. Elev: G1 4900, RKB 4905. Spdd. 8 1/2" hole at 5:45 pm 12-07-77.
12-09-77	90	Drilling basalt. Mud 9.0, Vis. 47, LCM 3%. Had water flow at 47', lost circulation at 48'. Mixed mud & LCM, full returns. Trip for bit at 49'.
12-10-77	167	Circulating and conditioning hole. Drld. 8 1/2" hole to 167', circulated & conditioned hole 4 hrs. Flow line temperature 54 <sup>0</sup> F.
12-11-77	167	Woc. Pulled out of hole. Ran 5 jts., 161.72', 7" OD, 20#, 8R, K-55, ST&C Csg., set at 160.72' RKB. Cemented with 65 sacks Portland cement w/3% CaCl <sub>2</sub> . Pumped plug to 127' at 12:35 pm 12-10-77, good cement returns to surf.
12-12-77	246	Drilling sand & conglomerate. Cut off 7" casing, nipped up, installed 6" 900 Ser Single gate BOP. Went in hole w/3 DC's & 1 jt. 2 7/8" DP. Tested csg. & BOP to 375#, 10 mins., OK. (Witnessed by BLM & State) Drld. cement 76-162'. Started 6 1/4" hole at 162'. Flow line temp. at 246'-
12-13-77	550	Drilling quartzite. Trip for bit at 286'. Mud 8.9, Vis. 42. Flow line temp. at 550'-
12-14-77	703	Drilling volcanics. Trip for bit at 568'. Mud 9.2, Vis. 40. Flow line temps: 606' , 623'- 655'- 703'-
12-15-77	868	Drilling volcanics. Lost returns at 826'. Mixed mud & LCM, full returns in 4 3/4 hrs. Trip for bit at 833'. Mud 8.8, Vis. 42, LCM 10%. Flow line temp: 731'- 832'- 868'-
12-16-77	1106	Mixing mud. Lost complete returns at 896', approx. 45 bbls. Mixed mud-LCM pill, spotted on bottom, regained circulation. Losing partial circulation 109--;;-6', pulled up to mix mud & LCM. Mud 9.0, Vis 44, LCM 15%. Flow line temp: 897'- 943'- 1000'- 1057'- 1090'- 1106'-

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LEASE Glass Buttes WELL NO. Strat #1 SHEET NO. 2

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
12-17-77	1311	Drilling altered obsidian. Mud 9.2, Vis. 42, losing some mud. Flow line temps: 1176'- 1260' ; 1300'-
12-18-77	1488	Repairing rig. Swivel bearing seized at 1:00 p.m. Pulled out of hole. Flow line temps: 1366'- 1404'- 1488'-
12-19-77	1488	Repairing rig 24 hours.
12-20-77	1488	Repairing rig.
12-21-77	1488	Shut down for rig repairs. Thawed out pits. Ran in 5 stands, attempted to circulate ice plugs in DP & bit, blew out rotary hose & broke cross-head on pump. Pulled up into surface casing. Shut down for repairs.
12-29-77 thru 1-03-78	1488	Repairing rig.
1-04-78	1488	Reaming hole at 1360'. Finished repairing rig. Thawed pits, mixed mud. Went in hole, broke circulation at 160', drilled bridges at 688' and 828'. Reamed 827-1360'. Flow line temps. 688'- 828' , 1360'-
1-05-78	1807	Repairing drilling line. Reamed 1360-1488'. Mud 9.3, Vis 45. Flow line temps. 1550'- out. 1600'- in out 1753'. in out.
1-06-78	2007	Altered obsidian, laying down drill pipe. Drilled 6 1/4" hole to 2007' at 11:00 pm 1-5-78. Circulated 2 3/4 hrs. Started laying down drill pipe. Flow line temp: 1848'- in, out: 1920'- in, out; 1980'- in, out; 2007'- in, out.
1-07-78	2007	Complete as temperature observation well. Laid down drill pipe. Ran 63 jts., 2 7/8" OD tubing, set at 1986' RKB. Filled tubing with water. Job complete at 7:00 pm 1-06-78. <u>FINAL REPORT</u>

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