

COBRA OIL & GAS CORPORATION

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DAILY DRILLING REPORT

COBRA OIL & GAS CORPORATION, OPERATOR

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STATE 16 #1

Lea County, New Mexico

Sawyer Prospect

330' FSL 990' FEL

Section 16, T9S-R37E

N.M. P.M. Survey

X=859989.25 Y=921583.25

GL: 3,988'

PPTD: 12,500'

Patterson Drilling Company, Rig #46

07/12/97: BJ cmt'd csg w/400 sx Class C w/2% CaCl mixed @ 14.8 ppg, yield 1.32 cu ft/sx, ran 4-13^{3/8}" x 17^{1/2}" Weatherford bow cent, good circ throughout job, circ 42 bbls (180 sx) cmt to surf, PD @ 3:10 PM, 7/11/97.

Note: Ran 3 jts csg in 5 hrs, could not get csg to go, pulled 8^{5/8}" csg, stood back btm 2 jts, mde trip w/17^{1/2}" bit & stab, reran csg in 2 hrs, had to fill every jt w/mud & push in hole w/blocks, tight 17^{1/2}" hole.

07/13/97: **TD 1,963'. DAY 3**, red bed, Mde 1565' in last 24 hrs, drlg. **DEV SURV:** See chart below 7/14/97. **BHA:** Bit, SS, monel, DC, stab, 20 DC, 41 DP. **PUMP #1**, DB700, 5^{1/2}" x 16", SPM 60, GPM 320, PP 1450 psi, WOB 45,000#-50,000# @ 80 RPM. **PUMP #2**, DB550, 5^{1/2}" x 16". **BIT #2**, 11", HTW, R-1, S/N S71YJ, Jets 11/11/11, In @ 398', Mde 1565' in 16.75 hrs. **MUD:** Native/oil, MW 9.5#, Vis 36, pH 11. Used 16 sx lm, 21 sx paper, 3 gals defoamer, 100 bbls oil. CMC \$608. **TIME:** 1.25 hrs PU BHA, 1.75 hrs WO sub, 1.75 hrs TIH, 1.75 hrs drlg plug, 6.25 hrs drlg form, .25 hr surv, 4.5 hrs drlg, .25 hr surv, 5.5 hrs drlg, .25 hr surv, .5 hr drlg.

07/14/97: **TD 2,646'. DAY 4**, anhy/salt, Mde 683' in last 24 hrs, drlg. **DEV SURV:** See chart below. **BHA:** Bit, SS, monel, DC, stab, 20 DC, 41 DP. **PUMP #1**, DB700, 5^{1/2}" x 16", SPM 60, GPM 320, PP 1400 psi, WOB 60,000# @ 60 RPM. **PUMP #2**, DB550, 5^{1/2}" x 16". **BIT #2**, 11", HTW, R-1, S/N S71YJ, Jets 11/11/11, In @ 398', Mde 1852' in 24 hrs, Out @ 2250', Grade 8-4-I. **BIT #3**, 11", WM, 53CF, S/N 003830, Jets 11,11,11, In @ 2250', Mde 396' in 9.25 hrs. **MUD:** Native/oil, MW 10#, Vis 32, pH 10. Used 8 sx lm, 8 sx paper, 6 gals defoamer. DMC \$1231, CMC \$1839. **TIME:** 2.25 hrs drlg, .25 hr surv, 5 hrs drlg, 4.75 hrs trip, 2.75 hrs wash to btm, 4.25 hrs drlg, .25 hr surv, 3.5 hrs drlg.

MEASURED DEPTH feet	DRIFT ANGLE deg	DRIFT DIRECTION deg	COURSE LENGTH feet	TRUE		RECTANGULAR		DOGLEG SEVERITY dg/100'
				VERTICAL DEPTH feet	VERTICAL SECTION feet	COORDINATES feet		
902	0.75	N 85.00 E	902	902.0	- 5.9	0.5 N	5.9 E	0.08
1,380	0.75	S 72.00 W	478	1,380.0	- 6.0	0.2 S	6.0 E	0.31
1,890	0.25	N 30.00 E	510	1,889.9	- 3.4	0.2 S	3.4 E	0.19
2,404	0.50	N 80.00 E	514	2,403.9	- 6.2	1.1 N	6.2 E	0.08

Final closure direction N 79.78 E, final closure distance 6.273'.

07/15/97: **TD 3,562'. DAY 5**, anhy/salt, Mde 916' in last 24 hrs, drlg. **DEV SURV:** See chart below. **BHA:** Bit, SS, monel, DC, stab, 20 DC, 41 DP. **PUMP #1**, DB700, 5^{1/2}" x 16", SPM 60, GPM 320, PP 1400 psi, WOB 60,000# @ 60 RPM. **PUMP #2**, DB550, 5^{1/2}" x 16". **BIT #3**, 11", WM, 53CF, S/N 003830, Jets 11,11,11, In @ 2250', Mde 1312' in 31.5 hrs. **MUD:** Native/oil, MW 10.1#, Vis 35, pH 10.5, CI 165,000, Gels 2/8, PV 8, YP 9. Used 6 sx lm, 6 sx paper, 6 gals defoamer. CMC \$1839. **TIME:** 3 hrs drlg, .25 hr RS, 3.25 hrs drlg, .5 hr surv, 12 hrs drlg, .25 hr surv, misrun, .5 hr drlg, .5 hr surv, 3.5 hrs drlg. Surveys follow on next page.