

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 #48

07/15/97: Surveys follow.

(cont'd.)

MEASURED DEPTH feet	DRIFT ANGLE deg	DRIFT DIRECTION deg	COURSE LENGTH feet	TRUE VERTICAL DEPTH feet	VERTICAL SECTION feet	RECTANGULAR COORDINATES feet	DOGLEG SEVERITY dg/100'
2,883	0.75	S 80.00 W	479	2,882.9	- 5.1	0.9 N 5.1 E	0.26
3,393	0.75	N 50.00 W	510	3,392.9	0.7	2.5 N 0.7 W	0.12

Final closure direction N 15.65 W, final closure distance 2.594'.

07/16/97: **TD 4,085'. DAY 6**, anhy, Mde 523' in last 24 hrs, drlg. **DEV SURV:** See chart below. **BHA:** Bit, SS, monel, DC, stab, 20 DC, 41 DP. **PUMP #1**, DB700, 5 $\frac{1}{2}$ " x 16", SPM 60, GPM 320, PP 1400 psi, WOB 50,000# @ 60 RPM. **PUMP #2**, DB550, 5 $\frac{1}{2}$ " x 16". **BIT #3**, 11", WM, 53CF, S/N 003830, Jets 11,11,11, In @ 2250', Mde 1835' in 53.75 hrs. **MUD:** Native, MW 9.9#, Vis 35, Slds 1.7, Oil 3%, pH 11, CI 156,000, Gels 7/8, PV 6, YP 10. Used 29 sx lm, 6 sx paper, 50 sx mylo gel, 1 gal defoamer. DMC \$586, CMC \$2425. **TIME:** 7.25 hrs drlg, .25 hr RS, 7 hrs drlg, .5 hr surv, 9 hrs drlg.

MEASURED DEPTH feet	DRIFT ANGLE deg	DRIFT DIRECTION deg	COURSE LENGTH feet	TRUE VERTICAL DEPTH feet	VERTICAL SECTION feet	RECTANGULAR COORDINATES feet	DOGLEG SEVERITY dg/100'
3,870	0.50	N 25.00 W	477	3,769.9	4.0	6.4 N 4.0 W	0.08

Final closure direction N 31.86 W, final closure distance 7.524'.

07/17/97: **TD 4,325'. DAY 7**, anhy/dolo, Mde 240' in last 24 hrs, LDDC. **DEV SURV:** See chart below. **BHA:** Bit, SS, monel, DC, stab, 20 DC, 41 DP. **PUMP #1**, DB700, 5 $\frac{1}{2}$ " x 16", SPM 60, GPM 320, PP 1400 psi, WOB 60,000# @ 60 RPM. **PUMP #2**, DB550, 5 $\frac{1}{2}$ " x 16". **BIT #3**, 11", WM, 53CF, S/N 003830, Jets 11,11,11, In @ 2250', Mde 2075' in 79 hrs, Out @ 4325', Grade 3-3-I. **MUD:** Native, MW 10.3#, Vis 36, pH 10, CI 156,000. Used 5 sx lm, 2 sx paper, 3 gal defoamer. CMC \$2425. **TIME:** 6 hrs drlg, .25 hr RS, 11 hrs drlg, .5 hr surv, 1 hr circ, 2.75 hrs TOOH, 1 hr RU LD mach, 1.5 hrs LDDC.

MEASURED DEPTH feet	DRIFT ANGLE deg	DRIFT DIRECTION deg	COURSE LENGTH feet	TRUE VERTICAL DEPTH feet	VERTICAL SECTION feet	RECTANGULAR COORDINATES feet	DOGLEG SEVERITY dg/100'
4,325	1.25	N 5.00 E	455	4,324.8	4.4	13.1 N 4.4 W	0.19

Final closure direction N 18.43 W, final closure distance 13.844'.

07/18/97: **TD 4,325'. DAY 8**, anhy/dolo, Mde 0' in last 24 hrs, WOC. **DEV SURV:** None. **BHA:** None listed. **PUMP #1**, DB700, 5 $\frac{1}{2}$ " x 16". **PUMP #2**, DB550, 5 $\frac{1}{2}$ " x 16". **BIT**, None in hole. **MUD:** Not listed. CMC \$2425. **TIME:** .5 hr RU csg crew, 10 hrs run csg, 1.5 hrs wash, 1.25 hrs cmt csg, 10.75 hrs WOC.