



**Marathon
Oil Company**

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**JAMES BUCHANAN STATE "33" #1
SEC. 33, T-18-S, R-28-E
LEA COUNTY, NEW MEXICO**

11/18/97 - MIRU MCVAY #4, SPUD 17 1/2" HOLE @ 0930 HRS. DRILL TO 455'. SHOE @ 454'. INSERT @ 409'. CEMENTED W/470 SX PREM PLUS W/2% CACL₂, CIRC'D 150 SX TO PIT. CUT CSG. NU "A" SECTION & BOP'S. TESTED BOP'S TO 1000 PSI. TOTAL WOC - 19 HRS. DRILLED 12 1/4" HOLE TO 2945'. TD @ 0945 HRS. 11/23/97. RAN 67 JTS 9 5/8", 36#, K-55, STC CSG TO 2945'. SHOE @ 2944'. COLLAR @ 2898'. CEMENTED INTERMEDIATE CSG W/725 SX LITE W/2% CACL₂. TAILED IN W/295 SX PREM PLUS W/2% CACL₂, CIRCULATED 145 SX TO SURF. PLUG DOW @ 2000 HRS - 11/23/97. SET SLIPS W/71K. CUT CSG. NU 13 5/8" X 11" 3M B SECTION, NU 11" 3M BOPE. TEST BOPE TO 3000 PSI. TEST CSG TO 1000 PSI. TOTAL WOC - 21 HRS. DRILLED CEMENT & FLOAT SHOE & FORMATION TO 9231'. RAN DST #1, 9205' - 9231'. DRILLED TO 11,130' TD @ 12/14/97. RAN PLATFORM EXPRESS FMI & SONIC.

TIH W/DP TO 11,130'. HOWCO MIXED & PUMPED 360 SX CLASS "H", TOH TO 10,150'. REVERSED OUT 25 SX CEMENT. RAN 7", 26#, I-80 & K-55 LTC CSG 10,150' - 4661', 7", 23#, K-55, LTC 4661' - SURFACE. SHOE - 10,148', COLLAR - 10,073', DV - 6495'. CEMENTED 1ST STAGE W/610 SX MOD SUPER H W/4% CFR₃, 5PPS GILSONITE, DROPPED BOMB, SHIFTED TOOL, CIR 105 SX CMT TO PIT. CEMENTED 2ND STAGE W/565 SX PREM LITE W/2% ECONOLITE, TAILED IN W/100 SX PREM PLUS. BUMPED PLUG, SHIFTED TOOL CIRC'D 93 SX TO PIT. ND BOP, SET SLIPS, CUT CSG. RELEASED RIG @ 2300 HRS. 12/16/97.