



**Marathon
Oil Company**

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**INDIAN HILLS UNIT #9
990' FNL & 1980' FEL
SEC. 33, T-21-S, R-24-E
EDDY CO., NEW MEXICO**

1/20/96 MIRU # UNITED RIG #5. DRILLED 20" HOLE TO 23', SET 16" CONDUCTOR & CEMENTED W/REDI-MIX. CUT CSG & INSTALLED 13-5/8" X 16" CSG HEAD. N.U. ROTATING HEAD & BLOOIE LINE.

DRILLED 12-1/4" HOLE TO 167', LOST ALL RETURNS, POURED 8 CY OF REDI-MIX DOWNHOLE. DRILLED 50' - 228'. LOST RETURNS. POURED 5 CY REDI-MIX DOWNHOLE. DRILLED W/RETURNS TO 2350' TD @ 1400 HRS 1/27/96. RAN 52 JTS. 9-5/8", 36#, K-55 STC CSG TO 2313', R.U. BJ MIXED & PUMPED 200 SX CLASS 'H' W/10% A-11, 3 PPS KOLSEAL .25 PPS CELLO, FOLLOWED BY 500 SX 'C' 65:35 PO7 W/2% CACL₂, 3 PPS KOLSEAL .25 PPS CELLO. TAILED IN W/200 SX 'C' W/1% CACL₂ PLUG DOWN @ 0200 HR 1/28/96. PLUG HELD. DID NOT CIRC CEMENT. WOC 4 HRS. RAN 1" TO 360' PUMPED 35 SX CLASS 'C' W/3% CACL₂. WOC, RAN 1" TO 240' PUMPED 50 SX W/3% CACL₂, WOC, RAN 1" TO 140', PUMPED 50 SX CLASS 'C' W/3% CACL₂, WOC, RAN 1" TO 40', PUMPED 30 SX, CIRCD 15 SX TO SURF. RELEASED UNITED #5 @ 1800 HRS 1/28/96.

2/2/96 MIRU MCVAY #4, N.U. 11" 3M BOPE. TESTED BLIND & PIPE RAMS, CHOKE LINES, MANIFOLD, KILL LINES, MUD LINES AND FLOOR VALVES TO 300/3000 PSI. TESTED ANNULAR TO 1500 PSI. PU 8-3/4" BIT, TAGGED CEMENT @ 2220'. TESTED CASING TO 1500 PSI. DRILLED CEMENT TO 2280'. TESTED SHOE JT. TO 1500 PSI. DRILLED FORMATION TO 9418'. TOOK 65 BBL PITGAIN. SHUT WELL IN. HAD 150 PSI ON DP. RAISED MW TD FROM 9.1 TO 9.4 PPG. DRILLED TO 10,300'. RAISED M.W. TO 9.7# TO CONTROL TRIP & CONNECTION GAS. TD @ 10,300' 0715 HRS 2/24/96.

LOGGED WELL AS FOLLOWS: LSS/NGT/GR/CNL/10,300'-4800' CNL/GR TO SURF. FMI 10,200' - 9870', 9470'-7850'.

RAN 234 JTS 7", 26#, k-55 LTC (5501'), 23#, K-55, LTC (4815'). FLOAT SHOE @ 10,298', FLOAT COLLAR @ 10,209', DV @ 6823'.

CEMENTED 7" CSG. W/250 SX CLASS 'H' W/1% FL-62, 5 PPS CSE, 3PPS KOLSEAL WT-15.3, YIELD 1.3. TAILED IN W/650 SX 'H' W/1.2% BA-56, 5 PPS CSE. 3 PPS KOLSEAL WT-15.3, YIELD 1.32. DISPL W/150 BW, 245 BM. BUMPED PLUG SHIFTED TOOL, CIRCD 95 SX TO PIT. CIRC W/RIG PUMPS 5 HRS. CEMENTED 2ND STAGE W/850 SX 'C' W/5% NACL, 3 PPS KOLSEAL WT-12.65, YIELD 1.99. TAILED IN W/100 SX 'C' NEAT. WT 14.29, YIELD 1.36. BUMPED PLUG, CLOSED DV.

CIRC 130 SX TO PIT.

N.D. BOPE & SAT SLIPS W/185 K. CUT 7".

INSTALLED 11" 3M X 7-1/16" 3M TUBING HEAD. TESTED SEALS TO 3000 PSI.

RELEASED RIG @ 2100 HRS 2/26/96.

*-per telecon w/W. Duee on 4/3/96, surf. csg. was set deeper than originally planned to cover all lost circulation zones. It is not anticipated that csg. will be set as deep on all wells in this area, but may be if condns. so dictate.

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