

**Marathon Oil Company
Midland, Texas**

**Indian Hills Unit # 33
Sec. 21, T-21-S, R-24-E
429' FSL & 326' FWL
Eddy County, N.M.
API # 30-015-31755**

MIRU McVay # 8 Drilling @ 12:00 Noon 6/18/01. Drill open hole rotary f/ 59' to 1397', dump 20# diamond seal, run 13-3/8" 54.50# csg. To 1340' w/ Tx. Shoe, shoe jt., & float collar. Wash csg. dn. To 1373', could not go below 1373'. Called BLM, Gene Hunt, ok'd cementing casing @ 1373'. Cement w/ 1100 sks. W/ no returns. Ran Temp. survey found cement @ 900' F.S. P.U. 1" pipe to top out surface casing, tag cement @ 620' F.S.

Called BLM to discuss top out procedures. Pumped 845 sacks Class "C" w/ 3% CACL2 in 5 settings, waiting on cement between each setting. On the 5th and final setting BLM allowed pumping 100 gals. of pea gravel while pumping cement. Circulated 5-sks. Of good cement to cellar @ 8:45 CST 6/22/01. R.D. HES and tools. N.U. 13-3/8" head and N.U. BOP and test. **WOC total of 18-hrs.** P.U. 12-1/4" bit, psi test casing to 1000# OK. Drill cement, float and shoe to 1373', drill formation f/ 1397-1757. Drilling open hole rotary f/ 1757' to 2835'. Run gyro w/ Baker. P.U. new BHA drilling open hole sliding and rotating f/ 2835 to 5521' Change BHA drilling open hole and rotary f/ 5521' to 7573 w/ full returns. Drilling open hole rotary f/ 7573' to 8555' w/ 90% returns. T.D. well @ 8555'. Circulate and condition hole. R.U. Schlumberger log well. Run platform express w/ FMI & NGT, R.D. loggers. R.U. Bull Rogers lay down machine and lay down 8" drill collars. R.U. casing crew Run 76 jts. 9-5/8" 43.50# L-80 BT&C & 113 jts. 9-5/8" 40.03 # K-55, BT&C. Circ. and condition hole, Test surface lines to 5000# PSI. Halliburton pumped 100,000scf of N2 followed by 6- bbls foamed FW spacer. Pumped 195.4 bbls foamed cement, tailed by 52.5 bbls. Unfoamed cement. Set ECP & dropped bomb, opened DV tool, & circulate. No cement was circulated out. Circulate and W/O cement. Pumped second stage w/ 1200 sks. interfill cement, tailed w/ 200 sks. Premium. Plug down @ 09:00 hrs. 7/15/01. Circ. 115 sks. to pit. **WOC 12.5 hrs.** Trip in hole w/ 8.5" milltooth bit and drill out D.V. tool. Tagged cement @ 6876', Drill f/ 6876' to 7398'. Drill f/ 7398' to 8512'. Circulate hole clean, L.D. all drill pipe, install 9-5/8" 3M X 11" 3M tbg. Head. Test to 1500# PSI. Install blind flange, jet pits. Release Rig @ 12:00 Noon 7/17/01.