

## MARATHON OIL COMPANY

### **Freedman 22 State #1**

**750' FNL & 1860' FWL**

**Sec. 22, T- 18-S, R-28-E**

**Eddy County, New Mexico**

MIRU TMBR Sharp # 27, spud 17.5" hole @ 1030 hrs 11/21/98. Drilled to 450'. Ran 10 jts, 13.375", H-40 casing to 450'. Shoe @ 450', float collar @ 404'. RU BJ, Cemented surface casing W/ 400 sx class "C", 2% cacl, Wt 14.8, yield - 1.32. Bumped plug and circulated 80 sx to pit. WOC 4 hrs, cut casing and installed 13.625" X 13.375" SOW casing head, NU rotating head and TIH w/ 12.25" bit. WOC 10 hrs. Drilled float equip and formation to 2950'. TD @ 2315 hrs 11/26/98.

Ran 9-5/8" Intermediate casing as follows: 70 jts 36#, K-55, LTC new casing to 2950'. Shoe @ 2950', float collar @ 2918'. Cemented w/ 775 sx Howco Interfil "C", 5 pps gilsonite, 5 pps nacl, .25 pps cello, Wt - 11.9 ppg, yield - 2.46. Tailed in w/ 250 sx "C" neat Wt - 14.8, yield 1.34. Circulated 125 SX. cement. Plug down @ 0915, 11/27/98. ND BOPE and set slips w/ 80K. NU 13-5/8" 3M X 11" 3M casing head and tested weld to 1000 psi.

Installed 11" 3m dual ram BOPE. Tested rams to 200/1900 psi. PU 12.25" bit and BHA and TIH. Drilled float and cement.

Drilled formation to 11030' TD @ 2045 hrs, 12/14/98. Logged well as follows: Platform Express W/HALS, NGT/BHC Sonic TD - surf. FMI TD - 8700'. CNL/GR/CAL to surface.

Propose to plug back to 7,200' and kick off and directionally drill to a BHL of 1090' FNL & 1950' FWL.

Plugged well as follows: Plug: #1, 35 sx "H", 10,800' - 10,700', #2, 135 sx "H", 10,100' - 9800', #3, 100 sx "H" 9600' - 9400', # 4, 100 sx "H", 9,000' - 8,700', Kick - off plug - 7700' - 7200' w/ 225 sx "H" .

Made kick off @ +/- 7450', drilled 8.75" hole to 11,026 MD, 11,010.9' TVD. TD @ 2245 hrs 1/3/99.

Logged well as follows: Platform express w/ NGT, AIT, 11,008' - 2950'.

Ran 7" production csg: 1st stage lead: 5990' 26 #, L-80, 4968' 26 # K-55, Shoe @ 11,060', FC @ 10,967', DV @ 8514'. Cemented W/ 350 sx Mod. Super "H" w/ .4 % CFR - 3, %pps Gilsonite, 5% H-344, 2 Pps NACL. Wt - 13.0, Yield - 1.67. 2nd Stage lead: 715 sx Interfil "C" w/ .3% Halad 322. Wt - 11.9, Yield - 2.46. Tailed in W 100 sx Premium Neat, circulated cement water to surface. Set slips w/ 245K.

ND BOPE and Nu 11" 3M X 7 1/16" 5M Tubing spool. Rig released !@ 0230 hrs 1/6/99.