

MARATHON OIL COMPANY

Lightfoot # 1

810' FSL & 660' FWL

Sec. 20, T- 19-S, R-28-E

Eddy County, New Mexico

MIRU United # 4, spud 17.5" hole @ 1245 hrs 5/21/98. Drilled to 445'. Ran 10 jts, 13.375", H-40 casing to 446'. Shoe @ 445, insert @ 399'. RU BJ, Cemented surface casing W/ 170 sx 35:65:6 ,2% cacl, Wt 12.3, yield - 2.02. Tailed in W/ 170 sx "C" Wt- 14.8, yield - 1.34. Bumped plug and circulated 55 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 air drilled formation to 2943'. TD @ 1800 hrs 5/28/98.

Ran 9-5/8" Intermediate casing as follows: 70 jts 36#, K-55, LTC new casing to 2943'. Shoe @ 2941', float collar @ 2895'. Cemented w/ 650 sx BJ lite, 5 pps gilsonite, 5 pps nacl, .25 pps cello, Wt - 12.4 ppg, yield - 2.04. Tailed in w/ 200 sx "C" neat Wt - 14.8, yield 1.34. Circulated 120 sx to pit. Plug down @ 0800, 5/29/98. ND BOPE and set slips w/ 80K. NU 13-5/8" 3M X 11" 3M casing head and tested weld to 1000 psi.

Rigged down United, released rig @ 1800 4/10/98. MIRU TMBR/Sharp # 27, 6/5/98. 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 10,000', TD @ 1815 hrs, 6/19/98. Logged well as follows: Platform Express W/HALS, NGT/BHC Sonic TD - surf. FMI TD - 8700'. CNL/GR/CAL to surface.

Ran 7" production casing as follows : 110 jts, 20# L-80, 111 jts, 118 jts., 17#, L-80. Float shoe @ 10,000', Float collar @ 9907', DV @ 8507'.

Cemented production casing with 400 sx modified Super H, .4% CFR - 3, 5 pps Gilsonite, .5% Halad 344, 2 pps nacl, Wt - 13.0, yield - 1.64. Opened stage tool and circulated 121 sx to surface. Cemented 2nd stage w/ 1100 sx Interfil C, Wt - 11.9, yield - 2.64. Tailed in w/ 200 sx neat. Bumped plug and did not circulate cement. Plug down @ 1215 hrs, 6/22/98. Ran temperature survey, found TOC @ 3050', 102' below 9 5/8" casing.

Set slips w/ 134K, Installed 11" 3m, X 7-1/16" 5m tubing spool. Released rig @ 2200 hrs 6/22/98.