

MARATHON OIL COMPANY

Bertha Barber # 18 - Y
1766' FSL & 663 FWL
Sec. 5, T-20-S, R-37-E
Lea Co., N.M.

2/13/98 Skidded Patterson # 71 rig 35 feet to drill replacement well for Bertha Barber #18.

Spud 14.75" hole @ 0600 hrs 2/14/98, drilled surface hole to 515' w/ 30 bph losses.

Ran 12 jts 11.75", 42#, WC-40, stc casing to 515'. Tx pattern shoe @ 513', insert @ 473'.
Cemented surface casing w/ 345 sx prem plus w/ 2% cacl, .25 pps flocele, wt - 14.8, yield 1.34. Plug down @ 1900 hrs, 2/14/98. Circ 90 sx to pit. WOC 4 hrs, installed 11.75" csg head. NU 13.625" dual ram/annular BOPE and choke manifold. Tested blind rams, choke manifold, kill and surface lines and casing to 1000 psi.

PU 11" bit and tagged cement @ 455'. Total WOC 15.25 hrs. Drilled cement and float equipment and resumed drilling formation. Had 15 bph losses @ 3100', 40 bph losses @ 3800'. TD intermediate hole @ 4110'.
Cemented intermediate casing w/ 130 sx intrfil "C" w/ 10 % gel, 5% nacl, .25 pps flocele, wt - 11.9, yield - 2.49, tailed in w/ 210 dx prem plus w 2% econolite, .25 pps flocele. Wt. - 11.9 yield - 2.49. Dropped bomb, opened DV, circ'd 115 sx to pit. Circ w/ rig pumps 4 hrs, Cemented 2nd stage w/ 850 sx interfil "C" w/ 10 % gel, 5pps nacl, .25 pps flocele. Wt - 11.9, yield 2.49. Plug down @ 1224 hrs, 2/23/98. Circ 50 sx to pit.

Set slips and cut 8.625" csg and installed 13-5/8" 3M X 11" 3M B section. Tested to 2000 psi. Tested Blind and pipe rams, choke manifold, kill lines, floor valves and mud lines to 1000 psi. PU 7.875" bit and straight hole motor and TIH, tagged cement @ 2943'. WOC - 18.25 hrs. Drill cement and DV tool, TIH to 3973', test casing and DV tool to 1000 psi. Drill cement, float collar and float shoe.

Resumed drilling formation. Began 30 bph losses @ 4677' drilled to 7800', TD @ 2300 hrs, 3/6/98.

Logged well as follows: Platform Express 7805' - 5000', GR/CAL - surf.

RU csg crew and ran 44 jts, 5.5", 17#, K-55, 122 jts, 5.5", 15.5#, K-55 to 7805'. Float shoe @ 7804', collar @ 7722', DV @ 5121'. Cemented production csg w/ 375 sx modified "H" w .4# cfr-3, 5 ppps gilsonite, .5% halad - 344, Wt - 13, yield 1.65, plug down @ 1136 hrs, 3/8/98. Opened DV tool, circ'd 20 sx, Cemented 2nd stage w/ 465 sx Interfil "C" w/ .25 pps flocele, wt - 11.9, yield 2.46. Tailed in w/ 100 sx prem Poz "A", wt 14.2, yield 1.33. Plug Down @ 1740 hrs 3/8/98. Circulated 80 sx cement to pit.

ND HOWCO, set slips, cut csg, NU 11" 3M X 7-1/16" 3M tubing spool. Released rig @ 2300 hrs, 3/8/98.