



**Marathon
Oil Company**

P.O. Box 552
Midland, TX 79702-0552
Telephone 915/682-1626

**WILLOWPEG STATE #1
1980' FNL & 1980' FWL
SEC. 35, T-16-S, R-34-E
LEA COUNTY, NEW MEXICO**

3/2/97 - MIRU Tmbr/Sharp #27. Spud 17 1/2" hole @ 2000 hrs 3/2/97. Drilled to 441'. Ran 9 jts, 13 3/8", 48#, H-40 csg to 441'. Cemented surface csg w/510 sx PremPlus w/2% CaCl₂, 1/4 pps Flocele. Wt - 14.8, yield 1.32. Plug down @ 1845 hrs 3/3/97. Circ'd 127 sx to surface.

WOC 4 hrs. Cut csg. Installed 13 5/8" csg head & tested weld to 500 psi. NU BOP's. Tested blind & piperams, choke & kill lines, manifold, floor valves & mud lines to 200/1000 psi. Tested annular to 500 psi. TIH w/11" bit to 386'. Tested csg to 1000 psi. Total WOC - 30.25 hrs. Drilled float collar & cement to 420', tested csg to 1000 psi.

Drilled intermediate hole to 4714'. TD @ 0815 hrs 3/13/97. Ran 71 jts, 8 5/8" 32#, 40 jts, 24# csg to 4675'. Could not wash csg to 4714'. Howco mixed & pumped 1000 sx PremPlus w/1/4 pps Flocele, 10 pps NaCl, wt - 12.7, yield - 2.05. Tailed in w/250 sx PremPlus w/.2% Econolite, wt - 14.8, yield - 1.32. Plug down @ 0600 hrs 3/14/97. Circ'd 137 sx cement. ND BOP, set slips, NU 13 5/8" 3m x 11" 5m B section. Tested seals to 1000 psi. Tested blind & piperams, choke & kill lines, floor valves & mud lines to 250/3000 psi. PU 7 7/8" bit, TIH to 4590', total WOC - 24 hrs. Tested csg to 1000 psi. Drilled cement & float collar, tested csg to 1000 psi. Drilled cement & float collar.

Drilled 7 7/8" hole to 10,697'. Ran DST #1 10,634' - 10,697'. Wolfcamp resumed drlg. to 13,200'. TD @ 2130 hrs 4/17/97.

Logged well as follows: Platform Express 13,196' - 4678' GR/CAL to surface. Ran 5 1/2" csg as follows: FS, 2 jts, 20# L-80. FC, 83 jts 20# - L-80, 21 jts, 17# L-80, DV Tool @ 8979', 109 jts., 17# L-80, 113 jts, 20# L-80. Cemented 1st stage w/1085 sx 50/50 POZ w/5 pps Microbond, 3 pps KCL, Wt - 14.6, yield 1.29. Bumped plug. Opened DV Tool. Circ'd 15 sx cement. Circ through DV for 4 hrs.

Cemented 2nd stage w/725 sx Prem Light w/ .3% CFR-3, .2% Econolite, Wt - 12.4, yield 1.98. Tailed in w/150 sx Premium Wt. - 15.6, Yield - 1.18. Plug down @ 0545 hrs 4/21/97. Est. TOC @ 4200'. Released rig @ 1330 hrs 4/22/97. Installed 11" 5m x 7 1/6" 5m tbg spool.