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

MOC FEDERAL NO. 5 1650'FNL & 1650'FWL SEC. 1, T-21-S, R-23-E EDDY COUNTY, NEW MEXICO

Preset 16" conductor in 20" hole @ 72', cmt'd to surf w/ redi-mix. MIRU McVay Rig #4. Spud 12-1/4" hole @ 1800 hrs 11-22-94. Drld to 129'. Lost all returns. Unable to regain circulation w/ LCM pills. Drld blind to 1205'.

RU csg crew, ran 27 jts 9-5/8", 36#, J-55 csg. Float shoe @ 1203', float collar @ 1159'. RU Western, mixed & pump 200 sx "H" w/ 12% thixad & 10 pps gilsonite, 3% CaCl₂, 1/4 pps cello (wt 14.8, yield 1.57). Tailed in w/ 600 sx PSL w/ 6% gel, 10 pps gilsonite, 3% CaCl₂, 1/4 pps cello (wt 12.4, yield 2.03). 2nd tail - 200 sx "C" w/ 2% CaCl₂ (wt 14.8, yield 1.32). Bumped plug, did not circulate cmt. WOC 4 hrs. Found TOC @ 126' via slickline. Dumped 3 yds pea gravel dn annulus. Topped out w/ 20 sx Class "C" neat w/ 3% CaCl₂.

Cut csg. Install 11" 3M SOW csg head & test to 1500#. NU manifold, kill lines, pipe & blind rams, surf lines & floor valves to 300/3000#. Tested annular to 200/1500#. PU BHA & TIH, tagged cmt @ 1138'. Total WOC 18 hrs. Drld cmt & float collar to 1180', tested csg to 1750#. Drld cmt & resumed drlg formation to 7506'. PU core barrel & cored 7506-7781'. Drld 8-3/4" hole to 7975'. TD @ 1615 hrs 12-13-94. RU W.L. BOP, logging adaptor, packoff & lubricator. Logged well as follows: DLL/MSFL/GR/CAL 7975-4000'; LDS/APS/HNGS/GR/CAL - TD-4000'; FMI TD-7400'; CMR-EPT TD-7400'. RU Atlas W.L., ran di-electric 7961-5960', imaging log TD-7400'. L/D DS; chg rams to 7".

Ran 121 jts 7", 26#, K-55, LTC & 61 jts 23#, K-55, LTC new csg. Float shoe @ 7979', float collar @ 7871', DV @ 6394'.

Western mixed & pumped 1st stg w/ 300 sx "H" w/ 5 pps CSE, .6% CF-14, .3% WLIP, 5 pps gilsonite @ 15.1 ppg, 1.32 yield. Displaced w/ mud & wtr, bumped plug w/ 1200#, opened tool @ 3200#. Circ 149 sx to pit. Circ 4 hrs w/ rig pump. Mixed & pumped 2nd stg lead: 765 sx "C" poz w/ 5% NAC1, 5 pps gilsonite, 1/4 pps cello @ 12.5 ppg, 2.02 yield. Tailed in w/ 100 sx "C" neat @ 14.8 ppg, 1.32 yield. Bumped plug, closed tool w/ 3400#. Circ'd 212 sx to pit. ND BOPE. Set slips w/ 130k. NU 11" 3M x 7-1/16" 3M tbg head. Tested seals to 7000#. Rig released @ 0200 hrs 12-17-94 MST.

WJD:cdb 1-04-95