



**Marathon
Oil Company**

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Drilled 8 $\frac{1}{2}$ " hole to 8380'. Top of bone spring at 8270'. R.U. Loggers ran CNL/Density/DLL/GR/CAL 8380' - 7000'. Resumed drilling with 8 $\frac{1}{2}$ " bit to 12,600'. 3/14/95

R.U. BOP Testers, tested choke manifold, choke lines, pipe and blind RAMS Kelly and floor valves to 500/5000 psi. Tested annular preventer, stand pipe and MUD lines to 300/3000 psi.

Ran Gyro thru D.P. from 12,600' - 5440'. BHL displacement 191.5', N- 62° W at 2.05°. Drilled to 12,846'.

P.U. 1.5° bent motor ass & MWD. Directionally drilled to 13,700' to reduce hole displacement. Resumed conventional drilling to 14,353'.

TOH, R.U. Atlas Wireline. Ran DLL/GR 14,353' - 7500', CNL/Density 14,348' - 5442', Sonic - 14,348' - 7000'. R.D. Loggers

R.U. Casing Crew, ran 110 joints 7" 29#, L-80, LTC new casing, 214 joints 7" 26#, L-80, LTC new casing to 14,353. Float shoe at 14,351', float collar at 14,263', stage tool at 10,353'.

R.U. Western cemented 1st stage with 3405 x 'Super H' with .5% C7-14, .3% LWL, WT 12.47, yield 1.79. Tailed in with 550 Sx 'H', with 8 pps CSE, .6% C7-14, .3% WL1P, .3% LWL wt-14.05, yield 1.61. Dropped plug, displace with 150 BFW, 392 BM, Bumper Plug, Dropped BOMB. Shifted tool, Circ'd 113 Sx cement to surface, circ'd with rig pumps 6 hours.

Cemented 2nd stage with 530 Sx 'H' with 1% LWL, WT 12.4, yield 1.18. Tailed in with 700 Sx class 'H' with 8 pps CSE. .5% C7-14, .3% WL-1P WT-14.06 yeild 1.6. Bumped plug at 0815 hours 4/6/95. Did not circ. cement. Est. TOC at 4940'.

N.D. BOP at Drilling Spool, Set 7" slips with 270K, Cut casing. N.U. 11"m x 7 $\frac{1}{16}$ " 5m tubing head. Tested seals to 4000 psi. N.U. DSA and Dual RAM BOP's. Changed RAMS to 3 $\frac{1}{2}$ ".

Tested bling and pipe RAMS to 300/5000 psi. Tested annular to 300/3000 psi.

P.U. 6 $\frac{1}{2}$ " bit, TIH and tagged cement at 10,322'. Drilled DV tool and cement and float collar to 14,348. Tested 7" casing to 2500 psi. Drilled shoe to 14,353'. Ran Gyro.

Drilled New formation 14,353' - 14,450'.

R.U. Western Atlas, tested Packoff. Ran density and CBIL logs 14,456' - 14,353'.

RIH with bit, drilled 6 $\frac{1}{2}$ " hole to 14,455'. Lay down drill string, R.U. Wireline, ran RBP and Set at 5013'.

N.D. BOP N.U. tubing spool. Released rig.

WLB/rdp/95080

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