

DRILL STEM TESTS

New Mexico "D" No. 1

DRILL STEM TEST NO. 1: 7868' - 7960'

WOLF CAMP - 3/4" Bottom Hole Choke, 1/2" Top Hole Choke.

Tool open 2 hours and 30 minutes. Gas to surface in 35", continued as weak blow throughout test, TSTM. Pulled drill pipe, recovered 3270' of black sulphur water. Chlorides tested 30,000 ppm.

DRILL STEM TEST NO. 2: 10,225' - 10,300'

MORROW SAND - 1" Top Hole Choke, 3/4" Bottom Hole Choke.

1539' water blanket. Tool open 30 minutes on initial flow with weak blow air. Shut in 30 minutes for buildup. Reopened tool 2 hours, weak blow of air throughout test, shut in 2 hours for final buildup. Gas to surface in 30 minutes, TSTM. Pulled tool, recovered 1539' water blanket, 240' gas-cut drilling mud. 30 min. ISIP 3398#, 2 hour IFP 692#, 2 hours FFP 785#, 2 hour FSIP 3901#, Hydrostatic pressure in 4768#, out 4676#.

DRILL STEM TEST NO. 3: 10,302' - 10,370'

MORROW SAND - 3/4" Bottom Hole Choke, 1" Top Hole Choke.

Tool open 30 minutes for initial flow, closed 30 minutes for initial buildup. Opened tool 2 hours, slight blow air throughout test. Closed tool 2 hours for final buildup. Gas to surface in 1 hour after tool closed, TSTM. Reversed 1539' water blanket and 8126' salt water. 30 minute IFP 847#, 2 hour FFP 3967#, 30 minute ISIP 2850#, 2 hour FSIP 4291# Hydrostatic pressure in and out 5200#.