

BLACK RIVER CORPORATION
MILLER #1 WELL

Location: 760' FNL and 2080' FWL, Section 10, T-23-S, R-27-E, Eddy County,
New Mexico

July 31, 1978

Tripping out for DST #2 from 11,845' to 11,898'. Bit wt. - 30,000, RPM - 45, Pump Pressure - 1600, SPM - 50, Mud wt. - 8.7, Viscosity - 36, Water loss - 10, Filter cake - 1/32, Oil content - 0, 11 P.H., 1/4 hr. drill, made 8', 10 hrs. trip, 4 hrs. circulate, 2 3/4 hrs. pick up test tools, 7 hrs. run DST. Initial Flow - 10 minutes, good blow, initial flow pressure - 163-163, initial shut-in period - 2 hrs., initial shut-in pressure - 4800, main flow period - 1 1/2 hrs., main flow pressure - 163-279, choke - 1/4", surface pressure - 20# to 16.6#, final shut-in period - 3 hrs., final shut-in pressure - 4459, initial hydrostatic - 5299, final hydrostatic - 5299, recovery - 1130' gas cut drilling mud. Temperature - 190°.

August 1, 1978

DST #3, Depth - 11,923', Formation - sand, Bit wt. - 20,000, RPM - 45, Pump Pressure - 1600, SPM - 50, Mud wt. - 8.7, Viscosity - 36, Water loss - 10, Filter cake - 1/32, Oil content - 0, 11 P.H., 4 1/2 hrs. drill, made 25', 11 1/4 hrs. trip, 6 1/4 hrs. circulate, 2 hrs. lay down and pick up test tools.

August 2, 1978

Trip - 11,923', Mud wt. - 8.7, Viscosity - 36, Water loss - 10, Filter cake - 1/32, 11 P.H., 13 1/2 hrs. trip, 7 hrs. run DST #3, recovery - 1200' drilling mud, 3 1/2 hrs. break down and load out tools.

August 3, 1978

DST #3 - Interval - 11,904' - 11,923', Initial Flow Period - 10 min., good blow, Initial Flow Pressure - 131 - 152, Initial Shut-in Period - 2 1/2 hrs., Initial Shut-in Pressure - 5070, Main flow period - 1 hr., No gas to surface, Main Flow Pressure - 196 to 283, Final Shut-in Period - 3 hrs., Final Shut-in Pressure - 4,917, 4,917, Initial hydrostatic - 5356, Final hydrostatic - 5356, Recovery - 1200' of gas cut drilling mud. Temperature - 190°.

August 3, 1978

Depth - 12,013, Formation - sand & shale, Mud wt. - 8.7, Viscosity - 38, Water loss - 9, Filter cake - 1/32, Oil content - 0, P. H. 11, Bit wt. - 25,000, RPM - 44, Pump Pressure - 1600, SPM - 48, 18 1/2 hrs. drill, 3/4 hrs. trip, 4 3/4 hrs. circulate samples at 11,976', made 90'.

August 4, 1978

Out of hole for DST #4, Interval - 11,915' to 12,050', Formation - sand & shale, Bit wt - 25,000, RPM - 44, Pump Pressure - 1600, SPM - 48, Mud wt. - 8.5, Viscosity - 38, Water loss - 10, Filter cake - 1/32, Oil content - 0, 11 P.H., 17 hrs. drill, made 37', 2 hrs. trip, 3 1/2 hrs. circulating, 1 1/2 hr. install crown protector.