

BLACK RIVER CORPORATION
MILLER #1

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

August 5, 1978

Tripping with DST #4, Depth - 12,050, Mud wt. - 8.5, Viscosity - 38, Water loss, 9.2, Filter cake - 1/32, Oil content - 0, 11 P.H., 10 1/4 hrs. testing, 1 hr. cut drilling line, 12 3/4 hrs. trip.

DST #4 - Interval - 11,915' to 12,050', Initial flow period - 10 minutes, 55#, 3/8" choke, gas to surface, 1 minute into shut-in period, Initial flow pressure - 175 to 245, Initial shut in period - 2 1/2 hrs., Initial shut in pressure - 5106#, Main flow 3 1/2 hrs., (3 hrs. with 1/4" choke @ 835#, flow @ rate of 1.250 MMCF/d, 1/2 hr. with 3/8" choke @ 575#, flow @ rate of 2.006 MMCF/d) Main flow pressure - 280 to 1048, Final shut in - 3 hrs., final shut in pressure - 5018, Initial hydrostatic - 5387, Final hydrostatic - 5392, Recovered 1,220' gas cut drilling mud, Temperature - 191°.

August 6, 1978

Depth - 12,102, Formation - lime, shale & sand, Bit wt - 25,000, RPM - 40, Pump Pressure - 1600, SPM - 46, Mud wt. - 8.6, Viscosity - 38, Water loss - 9.5, Filter cake - 1/32, Oil content - 0, 11 P.H., 15 hrs. drill, made 50'.

August 7, 1978

Depth - 12,202, Formation - shale & sand, Bit wt. - 25,000, RPM - 44, Pump Pressure - 1600, SPM - 46, Mud wt. - 8.6, Viscosity - 38, Water loss - 8.5, Filter cake - 1/32, Oil content - 0, 11 P.H., 24 hrs. drill, made 100'.

August 8, 1978

Running DST #5, at 12,232', Formation - lime, shale and sand, Bit wt. - 25,000, RPM - 44, Pump pressure - 1600, SPM - 46, Mud Wt. - 8.6, Viscosity - 43, Water loss - 8.5, Filter cake - 1/32, Oil content - 0, 11 P.H., 4 1/4 hrs. drill, 9 1/2 hrs. trip, 4 1/4 hrs. circulate for samples and DST, 1 1/2 hrs. pick up test tools, 4 1/2 hrs. testing, made 30'.

August 9, 1978

DST #5, Interval - 12,135 to 12,232, Initial flow period - 10 min., weak blow, Initial flow pressure - 325 - 325, Initial shut in period - 2 1/2 hrs., Initial shut in pressure - 1158, Main flow period - 1 hr., No gas to surface, Final flow pressure - 325 to 325, Final shut in period - 3 hrs., Final shut in pressure - 1158, Initial hydrostatic - 5481, Final hydrostatic - 5481, Recovery - 223' drilling mud, Temperature - 188°, Drilling at 12,277', Formation - shale & chert, Bit wt. - 25,000, RPM - 44, Pump Pressure - 1,000, SPM - 46, Mud wt. - 8.6, Viscosity - 43, Water loss - 8.5, Filter cake - 1/32, Oil content - 0, 11 P.H., 8 hrs. drill, 10 hrs. trip, 3 hrs. testing, 1 hr. pick up test tools, 2 hrs. drilling packer.

August 10, 1978

Total Depth - 12,350', Formation sand & shale, Bit wt. - 25,000, RPM - 44, Pump Pressure - 1,000, SPM - 46, Mud wt. - 8.6, Viscosity - 54, Water loss - 8, Filter cake - 1/32, Oil content - 0, 11 P.H., 14 1/4 hrs. drill, 4 3/4 hrs. trip, 4 hrs. circulate, 1 hr. cut drilling line. Preparing to log.