

Slight gas shows were encountered in thin Atoka sands at depths of 9360, 9430, 9480, 9510, 9670, 9895, and 10158. Correlations between our drilling-time sample logs and Schlumberger logs indicates that Schlumberger is about ten (10') feet shallower from the Bone Springs to T.D. The shows listed above would be ten feet higher in each case on the electric log.

DST #2 was run from 10178-10220 across the first Morrow sand. Gas flowed to the surface (through 1000' water cushion) in 45'. Flow was steady with 5# psi on a 3/4" choke resulting in a 15' flare at an estimated rate of 100,000 cfigpd.

DST #3 was run 10345-502 across several thin Morrow sands. A weak blow, maximum 5 oz. on 1/4" choke through 1000' water cushion resulted. Recovery was water cushion plus 1880' sli. gas cut drilling mud. The sample chamber recovered 0.3 cfig at 500# psi plus 2000 cc drilling mud, 2250 ppm chlorides.

After DST #3, drilling proceeded to TD 10750 on October 27, 1984. Schlumberger was run to TD 10723. As mentioned above, correlations with our logs indicate that the electric log is ten feet shallower, therefore probably encountered about 17 feet of fill in bottom of the hole.

The following open hole logs were run by Schlumberger: DIL-SFL, CNL-LDT, BHC, EPT, RFT, CrossPlot.

Schlumberger Tops (by Jim Trice): Base Lamar (Delaware Co.) 1925 (+2135); T/Bone Springs 3125 (+985); T/Wolfcamp 7579 (-6079); T/Cisco 8100 (-3990); T/Strawn 9105 (-4995); T/Atoka 9315 (-6079); T/Morrow 10189 (-6079); T/Barnett 10636 (-6526).

Interesting zones on the electric logs where the Schlumberger Repeat Formation Tester was used for pressure readings and fluid samples were 10662, 10541, 10490-10500, 10445, 10400, 10368, 10354, 10216, 10166-174, 9510, 9370-9400, 9008, 8907, 8107-14, 8244, 8124-8200, 7970-80; with the fluid sampler 10149-174 and 7970-80. The fluid sampler stuck at 10149 and was pulled in a fishing job.

Analex Mudlogging of Denver using hydrogen flame logging was the mudlogging contractor. Their equipment performed well although the trailer facilities were inadequate because of poor arrangement resulting in cramped working areas. The two Analex loggers, Dennis Benson and Dianne Henebry are to be complimented for their excellent work. Both are graduate geologists and performed well under sometimes adverse conditions. They may both be recommended as geologists on any company staff.

Consulting wellsite geologists were Barney McCasland, (915)-684 6815, Midland, Texas; James V. Hardwick, (915)-682-3111, Midland, Texas; and James F. Trice, (915)-684 6499, Midland, Texas. These three have more than a century of experience in the field of geology between them.

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