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ARTESIA, OFFICE

YATES PETROLEUM CORPORATION

DRILL STEM TESTS

Copeland SM #1  
1980 FNL & 2310 FWL, Sec. 25-T18S-R26E  
Eddy County, New Mexico

DST #1: Misrun.

DST #2: 5554-5778'. Open 30" with weak blow, died in 20 minutes. No gas to surface. SI 60"; TO 60" with weak blow, died in 30 minutes. No gas to surface. SI 120". IH 2662; IF 138-154; ISI 154-207; FF (stabilized) 165 psi; FSI 165-220; FHP 2641. No gas to surface. Sampler: 2400 cc drilling mud, 0 psi. Recovery: 90' drilling mud.

DST #3: 8606-8735'. TO 30", SI 60"; TO 60", SI 120". Tool open with weak blow, no GTS. Recovery: 155' drilling fluid. Sampler: 120#, no fluid 0.502 of gas. Pressures: IHP 4039; IFP (1st) 133-111, (2nd) 133-133. ISIP 1442, FSIP 2125. BHT 150 degrees. Note: Slid 10' to bottom.

DST #4: 9190-9275': Initial flow 30 minutes. Very weak blow to weak blow at surface. No psi on 1/8" choke. Initial flow 192#. Final flow 213#. Shut in 1 hour. ISIP 534#. Reopened 1 hour. Max surface 2# on 1/8" choke. No GTS. Initial flow 192. Final flow 256. 3 hour shut in. Shut in 2757. Recovery: 360' blanket. Sampler: 2100 cc and .107 cfg at 2# surface pressure.

DST #5: 9270-9571'. Depth temperature 159 degree. Tool opened (Prewell 30") with weak blow increased to strong blow (2-1/2# psi on 1/8" choke). Bomb data: IF 555.6; FF 512.9, One hour ISI 897.5 on tool. Reopened one hour with maximum flow pressure 2-1/2# on 1/8" choke. No gas to surface. Bomb data: IF<sub>2</sub> 192.4; FF<sub>2</sub> 427.4. Three hours FSI<sub>2</sub> 1131.1. Initial hydrostatic 4774. Recovery: 498: drilling fluid. Final hydrostatic 4736.9. Sampler: contained 2250 drilling fluid and 0 mcf gas, 111 psi surface pressure. No gas to surface during test.