

MARTIN YATES, III  
1912 - 1985  
FRANK W. YATES  
1936 - 1986



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210  
TELEPHONE (505) 748-1471

MAR 22 1991

O. C. D.  
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Lost Tank AIS State #3, V-1673  
Unit N, Sec. 36-T21S-R31E  
Eddy County, NM

#### DRILL STEM TESTS

DST #1 6482-6631' DELAWARE: TIMES: 15", 60", 60", 120", 90". RECOVERY: 558' (7.9 bbls) gas cut drilling mud, Cl 53000 + 505' (7.2 bbls) slightly oil cut formation water, Cl 104,000 + 710' (3.5 bbls) formation water, Cl 168,000 = Total 1773' (18.6 bbls). SAMPLER: .50 cfg, 100 cc oil and 1800 cc formation water, Chl 172,000 at 650 psig. BHT: 106°F. PRESSURES: Depth: 6624', IHP 3240, IFP 122-291, ISIP 2752, 2nd FP 329-648, 2nd SI 2668, 3rd FP 686-968, BHP 3250.

DST #2 6742-6835' (93') DELAWARE: TIMES: 30", 60", 60", 180". RECOVERY: Drill tool with 3 psi, increased to 14.5 psi. RECOVERY: Drill pipe - 552' (7.84 bbls) oil (gravity 38 @ 59°, no H2S) + drill collar - 771' (3.77 bbls) oil (gravity 38 @ 59°, no H2S) = Total 1323' (10.61 bbls). SAMPLER: 6.55 cfg, 925 cc oil (gravity 35 @ 60°) + 250 cc drilling fluid (could not check Chl), at 420 psi. Pit sample Chl 62000, Rw .25 @ 60°. BHT: 115° F. PRESSURES: IHP 3195, IFP 61-254, ISIP 3147 (questionable psi), 2nd FP 350-514, 2nd SI 2800, FHP 3195.

DST #3 7025-7096' (71') CHERRY CANYON: (taken 2-7-91) TIMES: 30", 60", 60", 120", 60". RECOVERY: Total 465' (2.27 bbls) = 180' oil (gravity 39 @ 65°, no H2S) + 144' gas and oil cut drilling fluid (Chl 64000, Rw .12 @ 60°) + 144' gas and drilling fluid (Chl 67000, Rw .11 @ 60°). SAMPLER: .20 cfg, 700 cc oil (gravity 39 @ 65°) and 600 cc drilling fluid and water (Chl 70000, Rw .10 @ 60° at 160 psi. BHT 115°. PRESSURES: Depth 7082'. IHP 3329, IFP 65-90, ISIP 1032, 2nd FP 143-190, 2nd SI 1019, 3rd FP 143-228, FHP 3341.

DST #4 8088-8202' - Misrun, packer failure.

DST #5 8095-8202' (107') BONE SPRINGS: TIMES: 30", 60", 60", 120", 60". RECOVERY: 630' (3.05 bbls) gas cut mud with trace of oil (Chl 41,000). SAMPLER: 2000 cc mud (Chl 41,000) at 30 psi. BHT 110° F. PRESSURES: Depth: 8191'. IHP 4031, IFP 90-102, ISIP 1425, 2nd FP 115-128, 2nd SI 2289, 3rd FP 141-166, FHP 4031.