

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



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 748-1471

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
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DRILL STEM TESTS

Fort "AIO" #1
(Unit P) 20-13S-34E
Lea County, NM

DST #1 10,302 - 10,353' BOUGH "A": TIMES: 5", 60", 60", 180", 60". RECOVERY: 651; gas cut mud (Rw .076 @ 65, Cl 87000) + 828' gas cut formation water (Rw .10 @ 65, Cl 70000). SAMPLER: .64 cu ft gas, 2000 cc water at 690 psi. Recovered Wtr .10 @ 65 deg, Cl 70000. Pit Mud .089 @ 65 deg. Pit mud Filtrate - Chl 85000. PRESSURES: Depth- 10,275', IHP 5356, IFP 48-96, ISIP 3162, 2nd FP 124-527, 2nd SI 3162, 3rd FP 552-741, FHP 5343.

DST # 2 10,455-10,500' (45') BOUGH "C": TIMES: 5", 60", 180", 60". RECOVERY: 60' gas cut drilling mud (Chl 72000) + 5940' formation water. Top recovery = 71,000 Chl, Middle Recovery = 78000 Chl, Bottom Recovery = 79000 Chl. SAMPLER: .18 cu ft gas, 2300 cc formation water, Chl 80000 at 655psi. Pit Mud Chl 72000. BHT: 161 deg F. PRESSURES: DEPTH- 10,486, IHP 5457, IFP 212-666, ISIP 3717, 2nd FP 704-2482, 2nd SI 3717, 3rd FP 2494-3402, FHP 5457.

DST #3 10,797 - 10,878' (81') CANYON: TIMES: 5", 60", 60", 180", 60". RECOVERY: 430' highly gas cut drilling mud, Chl 80,000 + 1170' highly gas cut oil and formation water (Chl at top of Middle Rec 57000, at bottom of Middle Rec 22000) + 241' highly gas cut oil. SAMPLER: 2.82 cu ft gas, 150 cc oil + 1150 cc water (Chl 20,000, Pit Chl 85000) at 442 psi. BHT; 160 deg F. PRESSURES: Depth- 10,871, IHP 5701, IFP 278-298, ISIP 4032, 2nd FP 517- 517, 2nd SI 3806, 3rd FP 488-488, FHP 5689.

DST #4 10,770-10,880' (110') CANYON: Attempt to inflate packer, no success: 10,770-10880' - packers inflated but lost packer seat when attempt to open test tools.

DST #5 10,808-10980' (72') CANYON: SAMPLER: 2.38 cu ft gas and 1500 cc oil. RECOVERY: 90' gas cut mud, 658' highly gas cut oil + 1057' water cushion. PRESSURES: IFP 837-924, IHP 5640, FHP 5640.