

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 29, 1971

Operator El Paso Natural Gas Company		Lease Phillips No. 3	
Location 940' / N-940' / W, S 32, T28N, R8W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7646	Tubing: Diameter 2.375	Set At: Feet 7576
Pay Zone: From 7337	To 7568	Total Depth: 7646	Shut In 9-17-71
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 0.750		Choke Constant: C 12.265			
Shut-In Pressure, Casing, PSIG 1534	+ 12 = PSIA 1546	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 1557	+ 12 = PSIA 1569	
Flowing Pressure: P PSIG 267	+ 12 = PSIA 279		Working Pressure: Pw PSIG 779	+ 12 = PSIA 791	
Temperature: T = 73 °F	Ft = .9877	n = 0.75	Fpv (From Tables) 1.026	Gravity 0.655	Fg = .9571

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = 12.365 \times 279 \times .9877 \times .9571 \times 1.026 = \underline{\quad 3346 \quad} \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

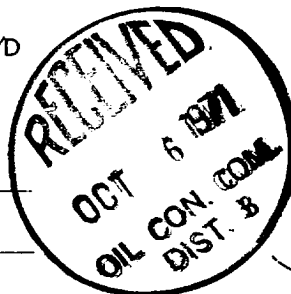
blew
NOTE: Well/medium fog of water and distillates throughout test.

$$Aof = \left(\frac{2461761}{1836080} \right)^n = (1.3408)^{.75} 3346 = 1.2460 (3346)$$

$$Aof = \underline{\quad 4169 \quad} \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY _____



L. E. Mabe, Jr.
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