

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 21, 1967

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 137	
Location 790'S, 1450'W, Sec. 14, T-28-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7838	Tubing: Diameter 2.375	Set At: Feet 7265
Pay Zone: From 7582	To 7780	Total Depth: 7850	Shut In 8-11-67
Stimulation Method Sand Water Frec		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2689	+ 12 = PSIA 2701	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 2687	+ 12 = PSIA 2699	
Flowing Pressure: P PSIG 349	+ 12 = PSIA 361		Working Pressure: P _w PSIG 1224	+ 12 = PSIA 1236	
Temperature: T = 75 °F F _t = .9859	n = .75		F _{pv} (From Tables) 1.030	Gravity .640 F _g = .9682	

$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365)(361)(.9859)(.9682)(1.030) = 4389 \text{ MCF/D}$$

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

$$Aof = \left(\frac{7,295,401}{5,767,705} \right)^n = (1.2648)^{.75} (4389) = (1.1930)(4389)$$

Note: Very light mist of hydrocarbons throughout the test with a trace of H₂O.

$$Aof = 5,236 \text{ MCF/D}$$

TESTED BY R. F. HendrickCHECKED
WITNESSED BY H. E. McAnally

H. L. Kendrick
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