

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 25, 1969

Operator El Paso Natural Gas Company		Lease Klein No. 13	
Location 1750'S, 1090'W, Sec. 35, T-26-N, R-6-W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Otero	
Casing: Diameter 2.875	Set At: Feet 3558	Tubing: Diameter No Tubing	Set At: Feet -- --
Pay Zone: From 3120	To 3528	Total Depth: 3528	Shut In 11-15-69
Stimulation Method Sand Water Frac		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, 840	PSIG	+ 12 = PSIA 852	Days Shut-In 10	Shut-In Pressure, Tubing To Tubing	PSIG + 12 = PSIA -- --
Flowing Pressure: P 116	PSIG	+ 12 = PSIA 128		Working Pressure: Pw Calc.	PSIG + 12 = PSIA 165
Temperature: T = 59 °F	Ft = 1.0010	n = 0.75		Fpv (From Tables) 1.012	Gravity .360 Fg = .9575

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

$$Q = (12.365)(128)(1.0010)(.9535)(1.012) = 1529 \text{ MCF/D}$$

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

$$Aof = \left(\frac{725904}{698679} \right)^n = (1529)(1.0390)^{.75} = (1529)(1.0291)$$

Note: Light fog of H₂O and distillate during first and second hour of test.

$$Aof = 1574 \text{ MCF/D}$$

TESTED BY Don Norton

WITNESSED BY

H. L. Kendrick
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