

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 17, 1968

Operator El Paso Natural Gas Company		Lease Southern Petroleum Com No. 4	
Location 1450'S, 1450'W, Sec. 32, T-26-N, R-6-W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undesignated	
Casing: Diameter 2.875	Set At: Feet 3869	Tubing: Diameter no tubing	Set At: Feet ----
Pay Zone: From 3702	To 3812	Total Depth: 3870	Shut In 10-7-68
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, 744	PSIG	+ 12 = PSIA 756	Days Shut-In 10	Shut-In Pressure, Tubing no tubing	PSIG
Flowing Pressure: P 124	PSIG	+ 12 = PSIA 136		Working Pressure: Pw Calc.	PSIG
Temperature: T = 58 °F		n =		Fpv (From Tables) 1.013	Gravity .660 Fg = .9535
	Ft = 1.0019	.75			

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

$$Q = (12.365)(136)(1.0019)(.9535)(1.013) = \underline{\quad 1627 \quad} \text{ MCF/D}$$

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

$$Aof = \left(\frac{571536}{539852} \right)^n = (1627)(1.0586)^{.75} = (1627)(1.0436)$$

NOTE: The well produced a very light fog of distillate and water throughout the test.

$$Acf = \underline{\quad 1698 \quad} \text{ MCF/D}$$

TESTED BY Bobby J. BroughtonCalculated
WITNESSED BY Hermon E. McNallyChecked by Tom B. Grant

H. L. Kendrick
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