

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 27, 1969

Operator El Paso Natural Gas		Lease Pierce No. 5	
Location 1728'N; 1680'W; S-17; T-30N; R-9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3113	Tubing: Diameter No tubing	Set At: Feet -----
Pay Zone: From 3043	To 3055	Total Depth: 3150	Shut In 5-27-69
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, 629	PSIG	+ 12 = PSIA 641	Days Shut-In 31	Shut-In Pressure, Tubing No tubing	PSIG + 12 = PSIA -----
Flowing Pressure: P 148	PSIG	+ 12 = PSIA 160		Working Pressure: P _w Calc.	PSIG + 12 = PSIA 165
Temperature: T = 64 °F		n = 0.85		F _{pv} (From Tables) 1.015	Gravity .670 F _g = .9463

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

$$Q = 12.365 \times 160 \times .9962 \times .9463 \times 1.015 = \underline{1893} \text{ MCF/D}$$

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

$$Aof = \left(\frac{410,881}{383,656} \right)^n = (1.07090)^{.85} 1893 = (1.0599) (1893)$$

Note: Blew dry gas for entire test.

$$Aof = \underline{2006} \text{ MCF/D}$$

TESTED BY RH & CRW
 Calculated RES
 WITNESSED BY _____

H. L. Kendrick
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