

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 27, 1969

Operator El Paso Natural Gas		Lease Pierce No. 7	
Location 1840'N; 1678'E; S-7; T-30N; R-9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3276	Tubing: Diameter No tubing	Set At: Feet ----
Pay Zone: From 3200	To 3220	Total Depth: 3300	Shut In 5-27-69
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, 781 PSIG	+ 12 = PSIA 793	Days Shut-In 31	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA ----
Flowing Pressure: P 357 PSIG	+ 12 = PSIA 369		Working Pressure: P _w PSIG	+ 12 = PSIA 380
Temperature: T = 61 °F	n = .85		F _{pv} (From Tables) 1.040	Gravity .670 F _g = .9463

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

$$Q = (12.36)(357)(.999)(.9463)(1.040) = 4340 \text{ MCF/D}$$

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

$$Aof = \left(\frac{628849}{484449} \right)^n = (1.2980)^{.85} 4340 = 1.2480 (4340)$$

Note: Blew dry gas for entire test.

$$Aof = 5416 \text{ MCF/D}$$

TESTED BY RH & CRW
 Calculated
 WITNESSED BY R. F.

H. L. Kendrick
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