

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE May 8, 1969

Operator El Paso Natural Gas		Lease Grambling No. 7	
Location 800'N; 790'E; S-27; T-29N; R-9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2411	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2250	To 2272	Total Depth: 2411	Shut In 5-1-69
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, PSIG 879	+ 12 = PSIA 891	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ---
Flowing Pressure: P PSIG 259	+ 12 = PSIA 271	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 327	
Temperature: T = 64 °F F _t = .9962	n = .85	F _{pv} (From Tables) 1.027	Gravity .650	F _g = .9608

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

$$Q = (12.365)(271)(.9962)(.9608)(1.027) = \underline{3294} \text{ MCF/D}$$

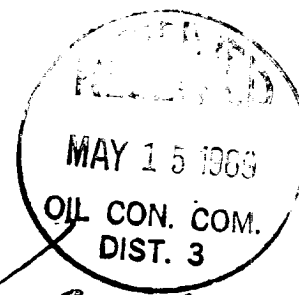
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{793881}{686952} \right)^n = (3294)(1.1556)^{.85} = (3294)(1.1308)$$

Note: The well produced dry gas throughout the test.

$$Aof = \underline{3725} \text{ MCF/D}$$

TESTED BY D. N.
Calculated
WITNESSED BY H. E. N.



H. L. Kendrick
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