

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 30, 1969

Operator El Paso Natural Gas		Lease Riddle "A" No. 8	
Location 1068'N; 980'W; S-24; T-30N; R-9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2588	Tubing: Diameter No tubing	Set At: Feet ----
Pay Zone: From 2507	To 2544	Total Depth: 2610	Shut In 6-16-69
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 809	+ 12 = PSIA 821	Days Shut-In 14	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ----	
Flowing Pressure: P PSIG 148	+ 12 = PSIA 160		Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 164	
Temperature: T = 64 °F	Ft = .9962	n = .85	Fpv (From Tables) 1.018	Gravity .67	Fg = .9463

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

$$Q = (12.365)(160)(.9962)(.9463)(1.018) = \underline{1899} \text{ MCF/D}$$

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

$$Aof = \left(\frac{674,041}{647,145} \right)^n = 1899 (1.0415)^{.85} = 1.0352 (1899) = \underline{1966} \text{ MCF/D}$$

Note: Dry gas for entire test

$$Aof = \underline{1966} \text{ MCF/D}$$

TESTED BY RFH & RF
Calculated
WITNESSED BY RF & RES

H. L. Kendrick
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