

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE March 7, 1963

Operator El Paso Natural Gas Company		Lease San Juan Unit 28-7 No. 16 (OWD)	
Location 880'N, 1680'E, Sec. 30-27-7		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2382	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2326	To 2348	Total Depth: 2382	Shut In 2-8-63
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 750	+ 12 = PSIA 762	Days Shut-In 27	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 138	+ 12 = PSIA 150	Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 181		
Temperature: 68 °F	Ft = .9924	n = .85	Fpv (From Tables) 1.014	Gravity .660	Fg = .9535

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

$$Q = (12.365)(150)(.9924)(.9535)(1.014) = \underline{1780} \text{ MCF/D}$$

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

$$Aof = \left(\frac{580,644}{547,883} \right)^n = (1.0597)^{.85} (1780) = (1.0505)(1780)$$

NOTE: Heavy spray of water throughout test.

$$Aof = \underline{1870} \text{ MCF/D}$$

TESTED BY Herman E. McAnally

WITNESSED BY _____

Checked by Tom B. Grant

Lewis D. Galloway
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