

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 14, 1964

Operator El Paso Natural Gas Company		Lease Barnes No. 2X	
Location 1042'S, 1005'W, Sec. 22, T-32-N, R-11-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7.000	Set At: Feet 3349	Tubing: Diameter 2.0625	Set At: Feet 5539
Pay Zone: From 4944	To 5562	Total Depth: 5635	Shut In 10-6-64
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750	Choke Constant: C 12.365		4.5" liner 3205 to 5635 ft.	
Shut-In Pressure, Casing, PSIG 912	+ 12 = PSIA 924	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 922	+ 12 = PSIA 934
Flowing Pressure: P PSIG 272	+ 12 = PSIA 284		Working Pressure: Pw PSIG 833	+ 12 = PSIA 845
Temperature: T = 65 °F	n = .75		Fpv (From Tables) 1.028	Gravity .660 Fg = .9535

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

$$Q = (12.365) (284) (.9952) (.9535) (1.028) = 3426 \text{ MCF/D}$$

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

$$Aof = \left(\frac{872,356}{158,331} \right)^{.75} = (5.5096)^{.75} (3426) = (3.5962) (3426) =$$

$$Aof = 12,321 \text{ MCF/D}$$

NOTE: Heavy fog water for first 20 minutes. Then light fog for remainder of test.

TESTED BY J. B. Goodwin
CALCULATED
WITNESSED BY T. B. Grant

Lewis D. Galloway
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