

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 21, 1957

Operator El Paso Natural Gas		Lease San Juan 30-4 Unit No. 16	
Location 890'S, 890'W, Sec. 10-30-4		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 5-1/2	Set At: Feet 4436	Tubing: Diameter 2"	Set At: Feet 4187
Pay Zone: From 4177	To 4267	Total Depth: 4445 - c/o 4410	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.75		Choke Constant: C 14.1605			
Shut-In Pressure, Casing, PSIG 1042	- 12 = PSIA 1054	Days Shut-In 18	Shut-In Pressure, Tubing PSIG 1042	- 12 = PSIA 1054	
Flowing Pressure: P PSIG 132	- 12 = PSIA 144		Working Pressure: P _w PSIG 526	- 12 = PSIA 538	
Temperature: T 75	F .85		F _{pv} (From Tables) 1.010	Gravity 0.598	

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = 14.1605 \times 144 \times .9859 \times 1.004 \times 1.010 = \underline{2039} \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1,110,916}{821,472} \right)^n = 1.3523^{.85} \times 2039 = 1.2925 \times 2039$$

$$A_{of} = \underline{2635} \text{ MCF/D}$$

TESTED BY J. B. Goodwin

WITNESSED BY _____

cc: **file**

L. D. Galloway
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Subscription Commission

ATTN: Mr. J. Edgar Hoover

18th. 1892