

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 20, 1957

Operator El Paso Natural Gas Company		Lease Feuille No. 2-A	
Location 1090'N, 1650'E, Sec. 17-29-10		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 5-1/2	Set At: Feet 2164	Tubing: Diameter 1-1/4	Set At: Feet 2097
Pay Zone: From 2044	To 2096	Total Depth: 2149 - e/o 2110	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 3/4		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 637	- 12 = PSIA 649	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 635	+ 12 = PSIA 647	
Flowing Pressure: P PSIG 340	- 12 = PSIA 352		Working Pressure: P _w PSIG 354	- 12 = PSIA 366	
Temperature: T °F 61	n = .850		F _{pv} (From Tables) 1.034	Gravity .648	

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

$$Q = 12.365 \times 352 \times .9990 \times .9623 \times 1.034 = \underline{4326} \text{ MCF/D}$$

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

$$Aof = \left(\frac{421,201}{287,245} \right)^n = 1.4663^{.85} \times 4326 = 1.3850 \times 4326$$

$$Aof = \underline{5992} \text{ MCF/D}$$

TESTED BY Richard Proctor and Frank Clark

WITNESSED BY _____



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By: TBC

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