

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE January 10, 1958

Operator El Paso Natural Gas Company		Lease San Jacinto No. 3	
Location 890'N, 890'W, Sec. 24-29-10		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec Pictured Cliffs	
Casing: Diameter 5-1/2	Set At: Feet 2238	Tubing: Diameter 1-1/4	Set At: Feet 2180
Pay Zone: From 2150	To 2188	Total Depth: 2245	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 660	- 12 = PSIA 672	Days Shut-In 10	Shut-In Pressure, Tubing, PSIG 660	- 12 = PSIA 672	
Flowing Pressure: P, PSIG 145	- 12 = PSIA 157		Working Pressure: P _w , PSIG 149	- 12 = PSIA 161	
Temperature: T, °F 64	n = .850		F _{pv} (From Tables) 1.014	Gravity 0.648	

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

$$Q = 12.365 \times 157 \times .9962 \times 0.9645 \times 1.014 \quad 1891 \quad \text{MCF/D}$$

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

$$Aof = \left(\frac{451,584}{425,663} \right)^n \cdot 1.0608^{.85} \times 1891 = 1.0515 \times 1891$$

$$Aof \quad 1988 \quad \text{MCF/D}$$

TESTED BY Jess Goodwin

WITNESSED BY _____

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OIL CONSERVATION COMMISSION
AZTEC DISTRICT OFFICE

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