

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 14, 1956

Operator El Paso Natural Gas Company		Lease Sheets # 4-A	
Location 1650'N, 990'W, Sec. 12-25-8		County San Juan	State New Mexico
Well Name Pictured Cliff		Pool Ballard	
Casing Diameter 5½	Set At: Feet 3035	Tubing Diameter 1¼	Set At: Feet 2988
Pay Zone: From 2912 - 2958	To 2927 - 2994	Total Depth: 3035 - c/o - 3000'	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.75	Choke Constant: C 14.1605					
Shut-In Pressure, Casing, PSIG 521	12 - PSIA 533	Days Shut-In 8	Shut-In Pressure, Tubing, PSIG 521	12 - PSIA 533		
Flowing Pressure: P, PSIG 32	12 - PSIA 44		Working Pressure: Pw, PSIG 34	12 - PSIA 46		
Temperature: T, F 60	n = .85		Fpv (From Tables) 1.004	Gravity .655		

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

$$Q = 14.1605 \times 44 \times 1.000 \times .9571 \times 1.004 = 599 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{284,089}{281,973} \right)^n \quad Q(1.0075)^{.85} = 599 (1.0064) = 603$$

Aof 603 MCF/DTESTED BY H. L. KendrickWITNESSED BY Tom Bolack and Albert Greer, Jr.

L. D. Galloway
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