

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE April 3, 1968

Operator El Paso Natural Gas Company		Lease Buerfano Unit No. 100	
Location 1090'N, 1090'W, Sec. 18, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6745	Tubing: Diameter 2.375	Set At: Feet 6534
Pay Zone: From 6572	To 6725	Total Depth: 6743	Shut In 3-22-68
Stimulation Method Sand Water Free		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 2 1/2 plate, 4" IR		Choke Constant: C 33.2928		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1961	+ 12 = PSIA 1973	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 1951	+ 12 = PSIA 1963	
Flowing Pressure: P PSIG 100 IR; 248 WI	+ 12 = PSIA 112 IR 260 WI		Working Pressure: Pw PSIG 645	+ 12 = PSIA 657	
Temperature: T = 84 °F	Ft = 2777	n = .75	Fpv (From Tables) 1.011	Gravity .700	Fg = 1.1952

$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter readings} = 1899 \text{ MCF/D}$$

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

$$Aof = \left(\frac{3892729}{3461650} \right)^n = 1899 (1.1247)^{.75} = 1899 (1.0921)$$

NOTE: This well produced 55.19 bbls. of 41.5 API gravity oil.

$$Aof = 2074 \text{ MCF/D}$$



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 CALCULATED
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