

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE January 9, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #183	
Location 1550/N, 1750/E, Sec. 1, T27N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7268'	Tubing: Diameter 1 1/2	Set At: Feet 7240'
Pay Zone: From 7046	To 7248	Total Depth: 7268	Shut In 12-30-73
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2605	+ 12 = PSIA 2617	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 2127	+ 12 = PSIA 2139	
Flowing Pressure: P PSIG 325	+ 12 = PSIA 337		Working Pressure: Pw PSIG 591	+ 12 = PSIA 603	
Temperature: T = 72 °F	n = Ft = .9887		Fpv (From Tables) 1.032	Gravity .650	Fg = .9608

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

$$Q = 12.365 (337) (.9887) (.9608) (1.032) = \underline{\quad 4085 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{6848689}{6485080} \right)^n = 4085(1.0561)^{.75} = 4085(1.0418)$$

$$Aof = \underline{4256} \text{ MCF/D}$$

Note: Medium mist of water and drip.

TESTED BY Fothergill

WITNESSED BY _____

L. W. Fothergill
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Well Test Engineer

