

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE January 18, 1966

Operator El Paso Natural Gas Company		Lease Huerfano Unit No, 145	
Location 890'S, 1550'E, Section 35, T-26-N, R-10-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6715	Tubing: Diameter 2.375	Set At: Feet 6682'
Pay Zone: From 6654	To 6700	Total Depth: 6715	Shut In 1-9-66
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 1827	+ 12 = PSIA 1839	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 1828
Flowing Pressure: P PSIG 299	+ 12 = PSIA 311	Working Pressure: Pw PSIG 800	+ 12 = PSIA 812
Temperature: T = 78 °F	n = .75	Fpv (From Tables) 1.026	Gravity .65 Fg = .9608

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

$$Q = (12.365) (311) (.9831) (.9608) (1.026) = \underline{3727} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3385600}{2726256} \right)^n = (3727) (1.2418)^{.75} = (3727) (1.1763)$$

NOTE: Very light spray of hydrocarbons throughout Test.

$$Aof = \underline{4384} \text{ MCF/D}$$

TESTED BY R. F. HeadrickCHECKED BY W. D. Dawson

Lewis D. Galloway
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