

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 5, 1969

Operator El Paso Natural Gas Co.		Lease S. J. 28-6 Unit No. 146	
Location 790 S, 1190 W, S24-T27N-R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7729	Tubing: Diameter 2.375	Set At: Feet 7634
Pay Zone: From 7452	To 7634	Total Depth: 7729	Shut In 10-21-69
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2587	+ 12 = PSIA 2599	Days Shut-in 15	Shut-In Pressure, Tubing PSIG 2592	+ 12 = PSIA 2604	
Flowing Pressure: P PSIG 254	+ 12 = PSIA 256		Working Pressure: Pw PSIG 953	+ 12 = PSIA 965	
Temperature: T = 72 °F	n = Ft = .9887		Fpv (From Tables) 1.025	Gravity .670	Fg = .9463

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

$$Q = 12.365 \times 256 \times .9887 \times .9463 \times 1.025 = \underline{3036} \text{ MCF/D}$$

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

Note: Unloaded heavy fog of H₂O and dist. in approx. 3 min.. Unloaded slug for approx. 15 min.. Blew light fog for rest of test.

$$Aof = \left(\frac{6780816}{5849591} \right)^n = (1.1592)^{.75} 3036 = 1.1172 \times 3036$$

$$Aof = \underline{3392} \text{ MCF/D}$$

TESTED BY TDN

WITNESSED BY _____



R. E. Stueber
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