

OPEN FLOW TEST DATA

DATE May 19, 1969

Operator El Paso Natural Gas		Lease San Juan 28-4 Unit No. 32	
Location 1617'N, 870'E, Sec. 32, T-28-N, R-4-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8758	Tubing: Diameter 2.375	Set At: Feet 8042
Pay Zone: From 8552	To 8732	Total Depth: 8758	Shut In 4-28-69
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2557	+ 12 = PSIA 2569	Days Shut-In 21	Shut-In Pressure, Tubing PSIG 2557	+ 12 = PSIA 2569	
Flowing Pressure: P PSIG 147	+ 12 = PSIA 159		Working Pressure: P _w PSIG 715	+ 12 = PSIA 727	
Temperature: T = 63 °F	F _t = 0.9971	n = .75	F _{pv} (From Tables) 1.016	Gravity .630	F _g = .9393

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

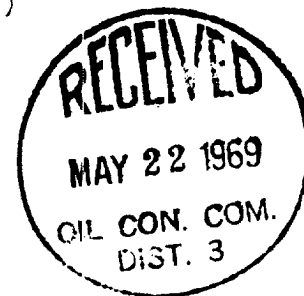
$$Q = (12.365)(159)(0.9971)(.9393)(1.016) = 1,871 \text{ MCF/D}$$

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

Note: The well produced a heavy fog of water throughout the test.

$$Aof = \left(\frac{6599761}{6071232} \right)^n = (1871)(1.0370)^{.75} = (1871)(1.0645)$$

$$Aof = 1992 \text{ MCF/D}$$



TESTED BY C. R. W.
Calculated
WITNESSED BY H. E. M.

H. L. Kendrick
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