

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 19, 1967

Operator El Paso Natural Gas Company		Lease Day A No. 8	
Location 1550'N, 1595'E, Sec. 8, T-29-N, R-8-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3217	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3114	To 3142	Total Depth: 3217	Shut In 9-12-67
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, 1005	PSIG	+ 12 = PSIA 1017	Days Shut-In 7	Shut-In Pressure, Tubing No tubing	PSIG + 12 = PSIA
Flowing Pressure: P 111	PSIG	+ 12 = PSIA 123		Working Pressure: Pw Calc.	PSIG + 12 = PSIA 156
Temperature: T = 59 °F	F _g = 1.0010	n = .85		F _{pv} (From Tables) 1.010	Gravity .620 F _g = .9837

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

$$Q = (12.365)(123)(1.0010)(.9837)(1.010) = \underline{1513} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1034289}{1009953} \right)^n = (1513)(1.0240)^{.85} = (1513)(1.0204)$$

NOTE: Well produced clear gas for the entire test period.

$$Aof = \underline{1544} \text{ MCF/D}$$

TESTED BY R. F. HeadrickCHECKED BY T. B. GrantCALCULATED BY H. E. McAnally

H. L. Kendrick
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