

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE September 22, 1967

Operator El Paso Natural Gas Company		Lease Shaw No. 1-Y	
Location 790'N, 1090'E, Sec. 13, T-30-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5027	Tubing: Diameter 2.375	Set At: Feet 4971
Pay Zone: From 5009	To 5028	Total Depth: 5028	Shut In 9-12-67
Stimulation Method Natural Completion		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365		Cemented above Packer from 4998 to 5009. 4998.	
Shut-In Pressure, Casing, PSIG 834	+ 12 = PSIA 846	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 834	+ 12 = PSIA 846	
Flowing Pressure: P PSIG 302	+ 12 = PSIA 404		Working Pressure: P _w PSIG 827	+ 12 = PSIA 839	
Temperature: T = 86 °F	F _t = .9759	n = .75	F _{pv} (From Tables) 1.035	Gravity .665	F _g = .9498

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

$$Q = (12.365)(40.4)(.9759)(.9498)(1.035) = \underline{4792} \text{ MCF/D}$$

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

$$Aof = \left(\frac{715,716}{11,795} \right)^n = (4792)(60.6796)^{.75} = (4792)(21.7036)$$

NOTE: Well produced dry gas throughout the test.

$$Aof = \underline{104,004} \text{ MCF/D}$$

TESTED BY H. E. McAnallyCHECKED BY T. B. Grant

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