

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 4, 1964

Operator El Paso Natural Gas Company		Lease Atlantic No. 2-A (OWWO)	
Location 900'N, 850'E, Section 28, T-31-N, R-10-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5224	Tubing: Diameter 2.0625	Set At: Feet 5147
Pay Zone: From 4562	To 5174	Total Depth: 5224	Shut In 10-28-64
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 882 PSIG	+ 12 = PSIA 894	Days Shut-In 7	Shut-In Pressure, Tubing 884 PSIG	+ 12 = PSIA 896	
Flowing Pressure: P 530 PSIG	+ 12 = PSIA 542		Working Pressure: P _w 659 PSIG	+ 12 = PSIA 571	
Temperature: T = 92 °F	F _t = .9706	n = 0.750	F _{pv} (From Tables) 1.048	Gravity .657	F _g = .9571

CHOKE VOLUME - $Q = C \times P_i \times F_t \times F_g \times F_{pv}$

$$Q = (12.365) (542) (.9706) (.9571) (1.048) = \underline{6525} \text{ MCF/D}$$

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

$$Aof = \left(\frac{802,816}{352,575} \right)^n = (2.2770)^{.75} (6525) = (1.8536) (6525)$$



NOTE: Blew clear gas.

Aof = 12095 MCF/DTESTED BY J. B. GoodwinCALCULATED BY T. B. GrantCHECKED BY H. E. McAnally

Lewis D. Galloway
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