

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 22, 1968

Operator El Paso Natural Gas Company		Lease Day A No. 9	
Location 1500'N, 990'W, 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 3250	Tubing: Diameter NO TUBING	Set At: Feet -----
Pay Zone: From 3062	To 3062	Total Depth: 3260	Shut In 7-12-68
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, PSIG 041	+ 12 = PSIA 053	Days Shut-In 10	Shut-In Pressure, Tubing PSIG NO TUBING	+ 12 = PSIA	
Flowing Pressure: P PSIG 137	+ 12 = PSIA 149		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 161	
Temperature: T = 64 °F	F _t = .9962	n = .85	F _{pv} (From Tables) 1.012	Gravity .621	F _g = .9837

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

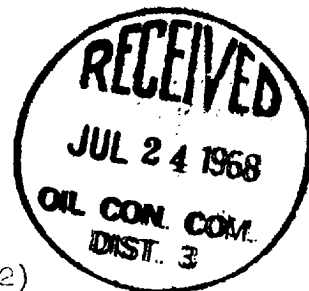
$$Q = (12.365)(149)(.9962)(.9837)(1.012) = 1827 \text{ MCF/D}$$

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

$$Aof = \left(\frac{906209}{872365} \right)^n = (1827)(1.0404)^{.85} = (1827)(1.0342)$$

NOTE: The well blew dry gas throughout the test period.

$$Aof = 1889 \text{ MCF/D}$$

TESTED BY Don RobertsCHECKED BY T. B. GrantCALCULATED BY G. A. Lipman

H. L. Kendrick
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