

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

Operator El Paso Natural Gas Company		Lease Roelofs No. 4	
Location 390'S, 592'E, Sec. 22, T-29-N, R-8-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 2.325	Set At: Feet 3381	Tubing: Diameter NO TUBING	Set At: Feet
Pay Zone: From 3298	To 3320	Total Depth: 3395	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, 1046	PSIG	+ 12 = PSIA 1058	Days Shut-In 10	Shut-In Pressure, Tubing NO TUBING	PSIG
Flowing Pressure: P 163	PSIG	+ 12 = PSIA 175		Working Pressure: P _w Calc.	PSIG
Temperature: T = 63 °F		n = .85		F _{pv} (From Tables) 1.014	Gravity .615
	F _t = .9971				F _g = .9877

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

$$Q = (12.365)(175)(.9971)(.9877)(1.014) = \underline{2161} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1119364}{1069133} \right)^n = (2161)(1.0469)^{.85} = (2161)(1.0397)$$

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

$$Aof = \underline{2247} \text{ MCF/D}$$

TESTED BY Dan RobertsCHECKED
WITNESSED BY T. B. GrantCALCULATED BY G. A. Lippman

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