

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 6, 1964

Operator Beta Development Company		Lease Federal "F" No. 1	
Location 1565'S, 1795'E, Sec. 33, T-30-N, R-11-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6801	Tubing: Diameter 2.375	Set At: Feet 6730
Pay Zone: From 6666	To 6732	Total Depth: 6801	Shut In 7-30-64
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Company Distribution Only	
Shut-in Pressure, Casing, PSIG 1819	+ 12 = PSIA 1831	Days Shut-in 7	Shut-in Pressure, Tubing PSIG 1841	+ 12 = PSIA 1853	
Flowing Pressure: P PSIG 200	+ 12 = PSIA 212		Working Pressure: P _w PSIG 804	+ 12 = PSIA 816	
Temperature: T = 76 °F	F _t = .9850	n = .75	F _p v (From Tables) 1.020	Gravity .670	F _g = .9463

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

$$Q = (12.365)(212)(.9850)(.9463)(1.020) = \underline{2492} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3,433,609}{2,767,753} \right)^n = (2492)(1.2405)^{.75} = (2492)(1.1755)$$

NOTE: Well produced very heavy slugs of water and Dist. every minute.

$$Aof = \underline{2929} \text{ MCF/D}$$

TESTED BY George Hoffman (Beta)WITNESSED BY Hermon E. McAnelly (EPNG)

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