

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 25, 1973

Operator El Paso Natural Gas Company		Lease Gelbke No. 1	
Location 1460'N, 990'W, Section 11, T31N, R11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco Ext.	
Casing: Diameter 2.875	Set At: Feet 2770	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2640	To 2702	Total Depth: 2770	Shut In 5-18-73
Stimulation Method SWF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 918	+ 12 = PSIA 930	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 139	+ 12 = PSIA 151	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 186		
Temperature: T = 60 °F	F _t = 1.000	n = .85	F _{pv} (From Tables) 1.013	Gravity .635	F _g = .9721

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

$$Q = (12.365) (151) (1.000) (.9721) (1.013) = 1839 \text{ MCF/D}$$

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

NOTE: The well produced dry gas.

$$Aof = Q \left(\frac{864900}{830304} \right)^n = 1839 (1.0417)^{.85} = 1839 (1.0353)$$

$$Aof = 1905 \text{ MCF/D}$$

TESTED BY Carl Rhames

WITNESSED BY



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