

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 1, 1971

Operator El Paso Natural Gas Company		Lease El Paso Natural Gas B No. 1	
Location 1140'/S - 1720'/E, S 28, T32N, R6W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8193	Tubing: Diameter 1.990	Set At: Feet 8112
Pay Zone: From 7938	To 8108	Total Depth: 8193	Shut In 11-9-71
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750	Choke Constant: C 12.365	Well tested thru 3/4" choke	
Shut-In Pressure, Casing, PSIG 2864	+ 12 = PSIA 2876	Days Shut-In 22	Shut-In Pressure, Tubing PSIG 2861
Flowing Pressure: P PSIG 20	+ 12 = PSIA 32	Working Pressure: P _w PSIG 204	+ 12 = PSIA 216
Temperature: T = 54 °F F _t = 1.0058	n = 0.75	F _{pv} (From Tables) 1.003	Gravity .600 F _g = 1.000

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

$$Q = (12.365)(32)(1.0058)(1.000)(1.003) = \underline{399} \text{ MCF/D}$$

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

NOTE: Well blew dry gas throughout the test.

$$Aof = \left(\frac{8271376}{8224720} \right)^n = (399)(1.0057)^{.75} = (399)(1.0043)$$

$$Aof = \underline{401} \text{ MCF/D}$$

TESTED BY DRR

WITNESSED BY _____



L. E. Mabe, Jr.
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