

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 8, 1965

Operator El Paso Natural Gas Company		Lease Huerrfano Unit No. 92	
Location T-26-N, R-9-W, Sec. 12, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing Diameter 4.500	Set At: Feet 6600	Tubing Diameter 2.375	Set At: Feet 6451
Perforations From 6100	To 678	Total Depth: 6600	Shut In 10/29/65
Stimulation Method None		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 1.51		Choke Constant: C 12.365	
Shut-in Pressure, Casing, PSIG 2071	+ 12 = PSIA 2083	Days Shut-in 10	Shut-in Pressure, Tubing PSIG 2071
Flowing Pressure: P PSIG 207		12 = PSIA 309	Working Pressure: P _w PSIG 762
Temperature: T = 79 °F		n = .75	F _{pv} (From Tables) 1.032
F _t = .9822		Gravity .700	F _g = .9258

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

$$Q = (12.365) (309) (.9822) (1.032) = 3585 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{3585}{5,755,013} \right)^n = (1.1601) (3585) = (1.1178) (3585)$$

NOTE: Blew a heavy fog of water and distillate throughout test.

$$A_{of} = 3585 \text{ MCF/D}$$

TESTED BY _____
DATE _____
WITNESSED BY _____


Lewis D. Galloway