

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 14, 1969

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 186	
Location 1600N, 1810 W, S31-T27N-R9W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6905	Tubing: Diameter 2.375	Set At: Feet 6780
Pay Zone: From 6603	To 6794	Total Depth: 6205	Shut In 7-31-69
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 4" M.R. 2.75" Flare		Choke Constant: C 41.9203		Well test through 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1932	+ 12 = PSIA 1994	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 1832	+ 12 = PSIA 1844	
Flowing Pressure: P _w PSIG 217 WH 84 MR	+ 12 = PSIA 229 WH 96 MR		Working Pressure: P _w PSIG 644	+ 12 = PSIA 656	
Temperature: T = 81 °F	F _t = .9804	n = 0.75	F _p (From Tables) 1.010	Gravity .700	F _g = 1.1952

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

$$Q = \text{Calculated from orifice meter reading} = 2476 \text{ MCF/D}$$

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

$$Aof = \left(\frac{3976036}{3545700} \right)^n = (1.1213)^{.75} 2476 = 1.0896 (2476)$$

Note: Well made 21.63 bbl. of 47 gravity oil during test and 8.95 bbls. of water.

$$Aof = 2698 \text{ MCF/D}$$

TESTED BY CRW - RES
Calculated
WITNESSED BY RES



H. L. Kendrick
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