

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 13, 1968

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 176	
Location 890'S, 890'E, Sec. 15 - T-26-N, R-10-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6863	Tubing: Diameter 2.325	Set At: Feet 6567
Pay Zone: From 6600	To 6760	Total Depth: 6868	Shut In 5-27-63
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 2.5" plate 4" meter run		Choke Constant: C 33.2928		Tested through 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1889	+ 12 = PSIA 1901	Days Shut-In 17	Shut-In Pressure, Tubing PSIG 1884	+ 12 = PSIA 1896	
Flowing Pressure: P meter 142 WH 390	+ 12 = PSIA meter 154 WH 402		Working Pressure: P _w PSIG 892	+ 12 = PSIA 904	
Temperature: T = 84 °F	n = .75		F _{pv} (From Tables) 1.015	Gravity .700	F _g = 1.1952

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

$$Q = \text{Calculated from orifice meter reading} = \underline{4381} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3613801}{2796585} \right)^n = (4381)(1.2922)^{.75} = (4381)(1.2120)$$

NOTE: This well produced a total of 59.17 bbls. of 47.1 API gravity oil.

$$Aof = \underline{5310} \text{ MCF/D}$$

TESTED BY D. R. RobertsCalculated
WITNESSED BY A. J. Loleit

T. B. Grant
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