

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 18, 1968

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 178	
Location 1650'N, 1750'W, Sec. 22, T-26-N, R-10-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6803	Tubing: Diameter 2.375	Set At: Feet 6506
Pay Zone: From 6542	To 6736	Total Depth: 6803	Shut In 6-11-68
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size: Inches 2.5" plate 4" MR		Choke Constant: C 33.2928		Tested through 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1772	+ 12 = PSIA 1784	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1765	+ 12 = PSIA 1777	
Flowing Pressure: P PSIG Meter 78 WH 187	+ 12 = PSIA Meter 90 WH 199	Working Pressure: P _w PSIG 571	+ 12 = PSIA 583		
Temperature: T = 85 °F	F _t = .9768	n = .75	F _{pv} (From Tables) 1.010	Gravity .700	F _g = 1.1952

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

$$Q = \text{Calc. from orifice meter reading} = \underline{2063} \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{3182656}{2842767} \right)^n = (2063)(1.1195)^{.75} = (2063)(1.0883)$$

NOTE: This well produced 73.84 bbls. of 49.3 API gravity oil into the tank during 3 hour test period.

$$A_{of} = \underline{2245} \text{ MCF/D}$$

TESTED BY D. R. RobertsCALCULATED
WITNESSED BY A. J. LoleitCHECKED BY G. A. Lippman

T. B. Grant
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