

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE February 26, 1969

Operator El Paso Natural Gas		Lease Huerfano Unit No. 185	
Location 800'S 1740'E, Sec. 12, T-26N, R-10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter	Set At: Feet 6851	Tubing: Diameter 2.375	Set At: Feet 6763
Pay Zone: From 6648	To 6796	Total Depth: 6851	Shut In 2-16-69
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Meter Choke Size, Inches 4" M.R.; 2.750 Plate		Choke Constant: C 41.9208		Tested through a 3/4 inch variable choke	
Shut-In Pressure, Casing, PSIG 1956	+ 12 = PSIA 1968	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 1951	+ 12 = PSIA 1963	
Flowing Pressure: P PSIG 295 W.H.; 99 M.R.	+ 12 = PSIA 307 W.H.; 111 M.R.		Working Pressure: P _w PSIG 730	+ 12 = PSIA 742	
Temperature: T = 80 °F	n = .75		F _{pv} (From Tables) 1.010	Gravity .700	F _g = 1.1952

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter readings} = 3,308 \text{ MCF/D}$$

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

$$Aof = \left(\frac{3873024}{3322460} \right)^n = (3308)(1.1657) = (3308)(1.1218)$$

Note: The well produced 30.58 bbls. of 51.4° API gravity oil during the test.

$$Aof = 3711 \text{ MCF/D}$$

TESTED BY BS & DRR & TDN

Calculated

WITNESSED BY HEM



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