

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE March 12, 1969

Operator El Paso Natural Gas		Lease Huerfano Unit No. 184	
Location 800'S, 1000'E, S-11, T-26N, R-10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6884	Tubing: Diameter 2.375	Set At: Feet 6812
Pay Zone: From 6774	To 6847	Total Depth: 6895	Shut In 3-4-69
Stimulation Method S. W. F.		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 1959	+ 12 = PSIA 1971	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 1949	+ 12 = PSIA 1961	
Flowing Pressure: P PSIG 252 W.H.; 75 M.R.	+ 12 = PSIA 264 W.H.; 87 M.R.		Working Pressure: P _w PSIG 662	+ 12 = PSIA 674	
Temperature: T = 79 °F	n = .75		F _{pv} (From Tables) 1.010	Gravity .700	F _g = 1.1952

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

$$Q = \text{Calculated from orifice meter readings} = 2682 \text{ MCF/D}$$

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

$$Aof = \left(\frac{3,884,841}{3,430,565} \right)^n = (2682)(1.1324) .75 = (2682) (1.0976)$$

Note: The well produced 42.88 bbls. of 47.8 API gravity oil during the test.

$$Aof = 2944 \text{ MCF/D}$$

TESTED BY CRW & GAL
Calculated
WITNESSED BY G.A.L.

H. L. Kendrick
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