

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 25, 1969

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 183	
Location 1100 S, 1500 E, S 7, T 26 N, R 9 W		County San Juan	State New Mexico
Formation Basin		Pool Dakota	
Casing: Diameter 4.500	Set At: Feet 6831	Tubing: Diameter 2.375	Set At: Feet 6615
Pay Zone: From 6714	To 6807	Total Depth: 6831	Shut In 7-13-69
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 4" Meter run 2 3/4 plate		Choke Constant: C 41.9203		Well Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1875	+ 12 = PSIA 1887	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 1887	+ 12 = PSIA 1899	
Flowing Pressure: P PSIG 384 W.H.; 133 M. R.	+ 12 = PSIA 396 W.H.; 145 M. R.		Working Pressure: P _w PSIG 967	+ 12 = PSIA 979	
Temperature: T = 74 °F	n = .75		Fpv (From Tables) 1.015	Gravity .700	Fg = 1.1952

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

$$Q = \text{Calculated from orifice meter readings} = 4589 \text{ MCF/D}$$

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

$$Aof = \left(\frac{3606201}{2647760} \right)^n = (4589)(1.3619)^{.75} = (4589)(1.2606)$$

Note: The well produced 61.91 bbls. of 49.1 API gravity oil during the test.

$$Aof = 5785 \text{ MCF/D}$$

TESTED BY RFH
Calculated
WITNESSED BY HEM



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