

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 15, 1966

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 106	
Location 990'S, 890'W, Section 2, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6691	Tubing: Diameter 2.375	Set At: Feet 6636
Pay Zone: From 6359	To 6641	Total Depth: 6702	Shut In 7-08-66
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2081	+ 12 = PSIA 2093	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1320	+ 12 = PSIA 1332	
Flowing Pressure: P 394 PSIG	+ 12 = PSIA 406		Working Pressure: P _w PSIG 1206	+ 12 = PSIA 1218	
Temperature: T = 90 °F	F _t = .9723	n = .75	F _{pv} (From Tables) 1.040	Gravity .700	F _g = .9258

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

$$Q = (12.365) (406) (.9723) (.9258) (1.040) = \underline{4,700} \text{ MCF/D}$$

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

$$Aof = \left(\frac{4,380,649}{2,897,125} \right)^n = (4700) (1.5120)^{.75} = (4700) (1.3639)$$

NOTE: Well produced a light fog of distillate and water throughout the test.

$$Aof = \underline{6,410} \text{ MCF/D}$$

TESTED BY Clarence R. Wagner
 CALCULATED BY Herman E. McNally
 CHECKED BY: Tom B. Grant

H. L. Kendrick
 H. L. Kendrick

