

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 13, 1966

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 149	
Location 1650'S, 1650'W, Section 18, T-25-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6637	Tubing: Diameter 2.375	Set At: Feet 6587
Pay Zone: From 6586	To 6616	Total Depth: 6640 Co. 6622	Shut In 6-28-66
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 1896	+ 12 = PSIA 1908	Days Shut-In 15	Shut-In Pressure, Tubing PSIG 1915	+ 12 = PSIA 1927	
Flowing Pressure: P PSIG 354	+ 12 = PSIA 366		Working Pressure: P _w PSIG 860	+ 12 = PSIA 872	
Temperature: T = 85° F	n = .75		F _{pv} (From Tables) 1.036	Gravity .700	F _g = .9258

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

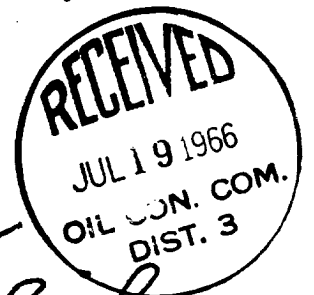
$$Q = (12.365) (366) (.9768) (.9258) (1.036) = \underline{4,240} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3,713,329}{2,952,945} \right)^n = (1.2575)^{.75} (4,240) = (1.1875) (4,240)$$

NOTE: Made light spray of hydrocarbons throughout test.

$$Aof = \underline{5,035} \text{ MCF/D}$$

TESTED BY R. F. HendrickWITNESSED BY Hermon E. McAnally

H. L. Hendrick