

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE March 27, 1969

Operator El Paso Natural Gas		Lease Huerfano Unit No. 119	
Location 1650'N; 990'W, S-15, T-26N, R-10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6895	Tubing: Diameter 2.375	Set At: Feet 6829
Pay Zone: From 6727	To 6847	Total Depth: 6895	Shut In 3-20-69
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" variable choke	
Shut-In Pressure, Casing, PSIG 1773	+ 12 = PSIA 1785	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1447	+ 12 = PSIA 1459	
Flowing Pressure: P PSIG 291 W.H.; 91 M.R.	+ 12 = PSIA 303 W.H.; 103 M.R.	Working Pressure: P _w PSIG 721	+ 12 = PSIA 733		
Temperature: T = 79 °F F _t = 9822	n = .75	F _{pv} (From Tables) 1.010	Gravity .700 F _g = 1.1952		

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

$$Q = \text{Calculated from orifice meter readings} = \underline{2991} \text{ MCF/D}$$

Note: The well produced 88 Bbls. of 41.7 API gravity oil during the test.

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

$$Aof = \left(\frac{3186225}{2648936} \right)^n = (2991)(1.2028)^{.75} = 2991 (1.1484)$$

$$Aof = \underline{3435} \text{ MCF/D}$$



Tested BY C. R. W. & R. E. S.
 Calculated BY G. A. L.
 WITNESSED BY _____

H. L. Kendrick
 H. L. Kendrick

