

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 3, 1967

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 156	
Location 900'N, 1800'W, Sec. 6, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6964	Tubing: Diameter 2.375	Set At: Feet 6922
Pay Zone: From 6664	To 6854	Total Depth: 6975	Shut In 3-15-67
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, inches 2 1/2" plate, 4" MR	meter Choke Constant: C 33.293	Tested through 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1972	+ 12 = PSIA 1984	Days Shut-In 19	Shut-In Pressure, Tubing PSIG 1086
Flowing Pressure: P meter 135; WH 331	+ 12 = PSIA meter - 147; wh 343	Working Pressure: P _w PSIG 802	+ 12 = PSIA 814
Temperature: T = 76 °F	n = .750	F _{pv} (From Tables) 1.015	Gravity .700
F _t = .9850			F _g = 1.1952

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

$$Q = \text{Calculated from orifice meter reading} = \underline{3386} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3936256}{3273660} \right)^n = (3386)(1.2024)^{.75} = (3386)(1.1463)$$

NOTE: The well produced 50.36 bbls. of oil into the tank during the test.

$$Aof = \underline{3881} \text{ MCF/D}$$

TESTED BY R. F. HeadrickCHECKED BY T. B. GrantCALCULATED BY H. E. McAnally

H. L. Kendrick
H. L. Kendrick

