

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 19, 1967

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 159	
Location 1650'N, 890'W, Sec. 17, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6695	Tubing: Diameter 2.375	Set At: Feet 6490
Pay Zone: From 6512	To 6608	Total Depth: 6695	Shut In 4-1-67
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 2 1/2" Plate; 4" M. R.		Choke Constant 33.293		meter constant Tested through 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1939	+ 12 = PSIA 1951	Days Shut-In 18	Shut-In Pressure, Tubing PSIG 1963	+ 12 = PSIA 1975	
Flowing Pressure: P PSIG 182 W.H.; 75 M. R.	+ 12 = PSIA 194 W.H.; 87 M. R.		Working Pressure: Pw PSIG 540	+ 12 = PSIA 552	
Temperature: T = 66 °F	n = .75		Fpv (From Tables) 1.011	Gravity .700	Fg = 1.1952

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

$$Q = \text{Calculated from orifice meter reading} = \underline{1924} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3900625}{3595921} \right)^n = (1924)(1.0847)^{.75} = (1924)(1.0629)$$

NOTE: The well produced 14 bbls. of oil into the tank during the test.

$$Aof = \underline{2045} \text{ MCF/D}$$

TESTED BY Ron HeadrickCHECKED BY T. B. GrantCALCULATED BY H. E. McAnally

H. L. Kendrick
