

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 30, 1966

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 103	
Location T-26-N, Section 3, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6739	Tubing: Diameter 2.375	Set At: Feet 6646
Pay Zone: From 6-25	To 6-18	Total Depth: 6754	Shut In 6-22-66
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 2003	+ 12 = PSIA 2015	Days Shut-in	Shut-in Pressure, Tubing PSIG 1352
Flowing Pressure: P PSIG 186	+ 12 = PSIA 200	Working Pressure: P _w PSIG 527	+ 12 = PSIA 539
Temperature: T = 70 °F	n = .75	F _{pv} (From Tables) 1.019	Gravity .685 F _g = .9359

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

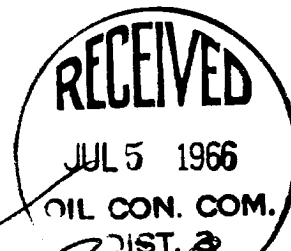
$$Q = (12.365) (198) (.9822) (.9359) (1.019) = 2293 \text{ MCF/D}$$

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

$$Aof = \left(\frac{4060225}{3769704} \right)^n = (2293) (1.0771)^{.75} = (2293) (1.0573)$$

NOTE: Blew oil to surface in 3 minutes. Blew oil for two minutes, then blew water for 1-1/2 minutes then light gray mist of oil and water throughout the test.

$$Aof = 2418 \text{ MCF/D}$$

TESTED BY Walter CassidaWITNESSED BY Al Roloff

H. L. Kendrick