

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 30, 1965

Operator El Paso Natural Gas Company		Lease Horton No. 1 (OWHO)	
Location 1650'S, 1650'W, Sec. 29, T-32-N, -W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 512	Tubing: Diameter 2.375	Set At: Feet 556
Pay Zone: From 4854	To 512	Total Depth: 5635	Shut In 11-13-65
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 770	+ 12 = PSIA 782	Days Shut-In 17	Shut-in Pressure, Tubing PSIG 770
Flowing Pressure: P 294	+ 12 = PSIA 306	Working Pressure: P _w PSIG 663	+ 12 = PSIA 675
Temperature: T = 89 °F	n = .75	F _{pv} (From Tables) 1.027	Gravity .675 F _g = .127

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

$$Q = (12.365) (306) (.9732) (.9427) (1.027) = 3,565 \text{ MCF/D}$$

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

$$Aof = \left(\frac{611,524}{155,899} \right)^n = (3.9225)^{.75} (3,565) = (2.7850) (3,565)$$

NOTE: Well blew a light spray of water and distillates throughout the test.

$$Aof = 9,929 \text{ MCF/D}$$

TESTED BY Dan R. RobertsCHECKED BY W. R. Dawson

WITNESSED BY

Lewis D. Galloway
Lewis D. Galloway

