

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 5, 1967

Operator El Paso Natural Gas Company		Lease Howell C No. 2 (OWWO)	
Location 990'N, 1650'E, Sec. 3, T-29-N, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5260	Tubing: Diameter 2.375	Set At: Feet 5172
Pay Zone: From 4676	To 5210	Total Depth: 5260	Shut In 9-23-67
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 847	+ 12 = PSIA 859	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 804	+ 12 = PSIA 816
Flowing Pressure: P PSIG 337	+ 12 = PSIA 349		Working Pressure: Pw PSIG 756	+ 12 = PSIA 768
Temperature: T = 74 °F	n = .75		Fpv (From Tables) 1.036	Gravity .687 Fg = .9359

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

$$Q = (12.365)(349)(.9868)(.9359)(1.036) = \underline{4129} \text{ MCF/D}$$

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

$$Aof = \left(\frac{737881}{148057} \right)^n = (4129)(4.9837)^{.75} = (4129)(3.3355)$$

NOTE: The well produced a light fog throughout the test period.

$$Aof = \underline{13772} \text{ MCF/D}$$

TESTED BY T. NortonCHECKED
WITNESSED BY T. B. GrantCALCULATED BY A. J. Loleit

H. L. Kendrick
H. L. Kendrick