

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 19, 1968

Operator El Paso Natural Gas Company		Lease Atlantic "A" No. 5 (OWHO)	
Location 1650'S, 990'W, Sec. 26, T-31-N, R-10-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5627	Tubing: Diameter 2.375	Set At: Feet 5249
Pay Zone: From 4754	To 5604	Total Depth: 5644	Shut In 11-20-68
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 2.75" Plate; 4" M.R.		Choke Constant: C 41.9208			
Shut-In Pressure, Casing, PSIG 801	+ 12 = PSIA 813	Days Shut-In 29	Shut-In Pressure, Tubing PSIG 798	+ 12 = PSIA 810	
Flowing Pressure: P PSIG 101 DSC - 271 W/H	+ 12 = PSIA 113 DSC - 283 W/H		Working Pressure: Pw PSIG 691	+ 12 = PSIA 703	
Temperature: T = 78 °F	Ft = .9831	n = .75	Fpv (From Tables) 1.011	Gravity .680	Fg = 1.2127

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

$$Q = \text{Calculated from Orifice Meter Readings} = \underline{3423} \text{ MCF/D}$$

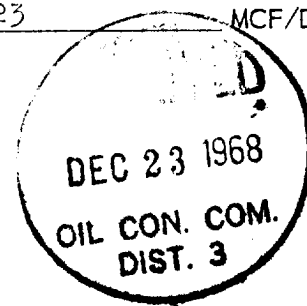
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{660969}{166760} \right)^n =$$

$$(3423)(3.9635)^{.75} = (3423)(2.8090)$$

Note: The well produced 12.65 Bbls. of oil during the test. The tank valve frozen. No gravity taken.

$$Aof = \underline{9615} \text{ MCF/D}$$

TESTED BY D. Roberts & B. BroughtonCalculated
WITNESSED BY H. E. McAnally

H. L. Kendrick
H. L. Kendrick