

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 1, 1970

Operator El Paso Natural Gas Company		Lease San Juan 32-9 Unit No. 3 (OWWO)	
Location 1190'N, 820'E, Sec. 1, T-31-N, R-10-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6251	Tubing: Diameter 2.375	Set At: Feet 6093
Pay Zone: From 5390	To 6112	Total Depth: 6251	Shut In 4-24-70
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 1" M.R. 2.750 Orifice		Choke Constant: C 41.9208		Tested through 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 835	+ 12 = PSIA 647	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 827	+ 12 = PSIA 839	
Flowing Pressure: P PSIG 357 Tbg. 127 M.R.	+ 12 = PSIA 369 Tbg. 139 M.R.		Working Pressure: P _w PSIG 735	+ 12 = PSIA 747	
Temperature: T = 75 °F	F _t = .9859	n = .75	F _{pv} (From Tables) 1.012	Gravity .660	F _g = 1.2309

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter readings} = \underline{3927} \text{ MCF/D}$$

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

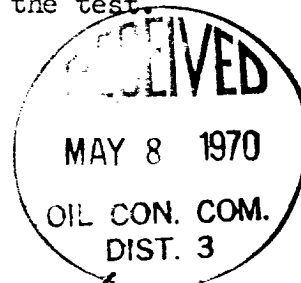
$$Aof = \left(\frac{717409}{159400} \right)^n = (3927)(4.5006)^{.75} = (3927)(3.0900)$$

Note: The well produced 8.21 bbls. of 51.2° API Gravity oil during the test.

$$Aof = \underline{12134} \text{ MCF/D}$$

TESTED BY J. B. Goodwin

WITNESSED BY _____



H. L. Kendrick
H. L. Kendrick