

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 8, 1965

Operator El Paso Natural Gas Company		Lease San Juan 30-6 Unit No. 97 (OWWC)	
Location 1485'N, 1695'E, Sec. 27, T-30-N, R-7-W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5953	Tubing: Diameter 2.375	Set At: Feet 5929
Pay Zone: From 5438	To 5932	Total Depth: 5963	Shut In 11-1-65
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 764	+ 12 = PSIA 776	Days Shut-in 7	Shut-In Pressure, Tubing PSIG 732
Flowing Pressure: P PSIG 178	+ 12 = PSIA 190	Working Pressure: P _w PSIG 645	+ 12 = PSIA 657
Temperature: T = 70 °F	n = .75	F _{pv} (From Tables) 1.016	Grav .9608

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = (12.365) (190) (.9905) (.9608) (1.016) = 2272 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{602,176}{170,527} \right)^n = (3.5312) (2272)^{.75} = (2.5760) (2272)$$

NOTE: Blew medium fog H₂O for entire test.

$$A_{of} = 2552 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin
 CHECKED BY Herman E. McAnally
 WITNESSED BY



Lewis D. Galloway
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