

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 8-20-70

Operator El Paso Natural Gas Company		Lease San Juan 28-6 U. No. 5 CWWO	
Location 990 N, 990 E, S 14, T 28 N, R 6 W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5773	Tubing: Diameter 2.375	Set At: Feet 5663
Pay Zone: From 5006	To 5676	Total Depth: 5773	Shut In 8-11-70
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 786	+ 12 = PSIA 798	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 394	+ 12 = PSIA 406	
Flowing Pressure: P PSIG 198	+ 12 = PSIA 270		Working Pressure: P _w PSIG 529	+ 12 = PSIA 541	
Temperature: T = 72 °F	n = Ft = .9887		Fpv (From Tables) 1.022	Gravity .700	Fg = .9258

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

$$Q = 12.365 \times 210 \times .9887 \times .9258 \times 1.022 = 2429 \text{ MCF/D}$$

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

Note: Slugged water for 5 min., then blew heavy fog of water 3 hrs.

$$Aof = \left(\frac{636804}{344123} \right)^n = (1.8505)^{.75} \times 2429 = 1.5866 \times 2429$$

$$Aof = 3854 \text{ MCF/D}$$

TESTED BY Jesse B Goodwin

WITNESSED BY



J. B. Goodwin
H. L. Kendrick