

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 6-29-70

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 29-7 Unit No. 87 OWWO	
Location 1450 N, 1750 E, S 19, T29N, R7W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5818	Tubing: Diameter 2.375	Set At: Feet 5741
Pay Zone: From 5084	To 5771	Total Depth: 5818	Shut In 5-22-70
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 852	+ 12 = PSIA 864	Days Shut-In 38	Shut-In Pressure, Tubing PSIG 860	+ 12 = PSIA 872	
Flowing Pressure: P PSIG 311	+ 12 = PSIA 323		Working Pressure: P _w PSIG 761	+ 12 = PSIA 773	
Temperature: T = 65 °F	F _t = .9952	n = .75	F _{pv} (From Tables) 1.037	Gravity .700	F _g = .9258

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

$$Q = 12.365 \times 323 \times .9952 \times .9258 \times 1.037 = 3816 \text{ MCF/D}$$

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

Note: Medium to heavy fog of water & dist.
for 12 min.-light fog rest of test.

$$Aof = \left(\frac{760384}{162855} \right)^n = (4.6690)^{.75} 3816 = 3.1763 \times 3816$$

$$Aof = 12,121 \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY

H. L. Kendrick
H. L. Kendrick

