

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 6-29-70

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 31-6 Unit No. 6 OWWO	
Location 1660 S, 990 W, S 1, T30N, R7W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6048	Tubing: Diameter 2.375	Set At: Feet 5977
Pay Zone: From 5390	To 5998	Total Depth: 6048	Shut In 6-20-70
Stimulation Method SWP		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 777	+ 12 = PSIA 789	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 777	+ 12 = PSIA 789	
Flowing Pressure: P PSIG 184	+ 12 = PSIA 196		Working Pressure: P _w PSIG 644	+ 12 = PSIA 656	
Temperature: T = 64 °F	F _t = .9962	n = .75	F _{pv} (From Tables) 1.016	Gravity .625	F _g = .9798

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

$$Q = 12.365 \times 196 \times .9962 \times 1.016 \times .9798 = 2403 \text{ MCF/D}$$

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

Note: well produced light fog of water & dist. throughout test.

$$Aof = \left(\frac{622521}{192185} \right)^n = (3.2391)^{.75} \times 2403 = 2.4144 \times 2403$$

$$Aof = 5803 \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY

H. L. Kendrick
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