

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 7-15-70

Operator El Paso Natural Gas Company		Lease San Juan 30-6 U. No. 84 OWWO	
Location 990 S, 990 W, S11, T30N, R7W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5863	Tubing: Diameter 2.375	Set At: Feet 5805
Pay Zone: From 5090	To 5804	Total Depth: 5863	Shut In 7-8-70
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 702	+ 12 = PSIA 714	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 503	+ 12 = PSIA 515	
Flowing Pressure: P PSIG 233	+ 12 = PSIA 245		Working Pressure: P _w PSIG 619	+ 12 = PSIA 631	
Temperature: T = 73 °F	Ft = .9877	n = .75	Fpv (From Tables) 1.022	Gravity .655	Fg = .9571

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

$$Q = 12.365 \times 245 \times .9877 \times .9571 \times 1.022 = 2927 \text{ MCF/D}$$

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

Note: well unloaded heavy liquid 5. min.
after start of blow for about 15 min.
Light fog thereafter. H₂O & Dist.

$$Aof = \left(\frac{509796}{111635} \right)^n = 2927 \times 4.5666^{.75} = 2927 \times 3.1238$$

$$Aof = 9143 \text{ MCF/D}$$

TESTED BY Bobby Broughton

WITNESSED BY



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