

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 8-10-70

Operator El Paso Natural Gas Company		Lease San Juan 30-6 Unit No. 51 OWWO	
Location 990 N, 1650 E, S 30, T30N, R6W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5879	Tubing: Diameter 2.375	Set At: Feet 5628
Pay Zone: From 5056	To 5638	Total Depth: 5879	Shut In 8-1-70
Stimulation Method SWP		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 785	+ 12 = PSIA 797	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 683	+ 12 = PSIA 695	
Flowing Pressure: P PSIG 226	+ 12 = PSIA 238		Working Pressure: P _w PSIG 558	+ 12 = PSIA 570	
Temperature: T = 75 °F	F _t = .9859	n = .75	F _{pv} (From Tables) 1.021	Gravity .657	F _g = .9556

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

$$Q = 12.365 \times 238 \times .9859 \times .9556 \times 1.021 = 2831 \text{ MCF/D}$$

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

Note: Blew light fog of water throughout test

$$Aof = \left(\frac{635209}{310309} \right)^n = (2.0470)^{.75} 2831 = 1.7113 \times 2831$$

$$Aof = 4845 \text{ MCF/D}$$

TESTED BY J. B. Goodwin

WITNESSED BY



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