

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 7-15-71

Operator El Paso Natural Gas Company		Lease San Juan 30-6 Unit No. 76 (OWWO)	
Location 1550' N, 890' E, S 24, T30N, R7W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6134	Tubing: Diameter 2.375	Set At: Feet 6067
Pay Zone: From 5444	To 6090	Total Depth: 6135	Shut In 7-8-71
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 710	+ 12 = PSIA 722	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 537	+ 12 = PSIA 549	
Flowing Pressure: P PSIG 166	+ 12 = PSIA 178		Working Pressure: P _w PSIG 561	+ 12 = PSIA 573	
Temperature: T = 65 °F	n = .75		F _{pv} (From Tables) 1.017	Gravity .663	F _g = .9513
F _t = .9952					

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

$$Q = 12.365 \times 178 \times .9952 \times .9513 \times 1.017 = 2119 \text{ MCF/D}$$

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

Note: Well blew medium fog of water throughout test.

$$A_{of} = \left(\frac{521284}{192955} \right)^n = 2119(2.7015)^{.75} = 2119(2.1072)$$

$$A_{of} = 4465 \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY



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