

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 9-8-70

Operator El Paso Natural Gas Company		Lease San Juan 30-6 U. No. 65-Y	
Location 1750 S, 850 W, S 13, T30N, R7W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5705	Tubing: Diameter 2.375	Set At: Feet 5636
Pay Zone: From 5068	To 5660	Total Depth: 5705	Shut In 8-31-70
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 857	+ 12 = PSIA 869	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 465	+ 12 = PSIA 477	
Flowing Pressure: P PSIG 285	+ 12 = PSIA 297		Working Pressure: P _w PSIG 682	+ 12 = PSIA 694	
Temperature: T = 75 °F	Ft = .9859	n = .75	F _{pv} (From Tables) 1.026	Gravity .660	F _g = .9535

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = 12.365 \times 297 \times .9859 \times .9535 \times 1.026 = \underline{3542} \text{ MCF/D}$$

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

Note: Unloaded in 5 min., then blew light fog of water & light Hydrocarbon for remainder of test.

$$A_{of} = \left(\frac{755161}{273525} \right)^n = (2.7608)^{.75} (3542) = (2.1418) (3542)$$

$$A_{of} = \underline{7586} \text{ MCF/D}$$

TESTED BY Jesse B Goodwin

WITNESSED BY _____



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