

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August, 25, 1965

Operator El Paso Natural Gas Company		Lease Kernaghan No. 1 (OWWO)	
Location 990'S, 1650'W, Sec. 33, T-31-N, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5600	Tubing: Diameter 2.375	Set At: Feet 5526
Pay Zone: From 5116	To 5587	Total Depth: 5634	Shut In 8-18-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 804	+ 12 = PSIA 816	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 804	+ 12 = PSIA 816	
Flowing Pressure: P PSIG 255	+ 12 = PSIA 267		Working Pressure: P _w PSIG 640	+ 12 = PSIA 652	
Temperature: T = 82 °F	F _t = .9795	n = .750	F _{pv} (From Tables) 1.023	Gravity .662	F _g = .9535

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

$$Q = (12.365) (267) (.9795) (.9535) (1.023) = \underline{3154} \text{ MCF/D}$$

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

$$Aof = \left(\frac{665,856}{240,752} \right)^n = (3154) (2.7657)^{.75} = (3154) (2.1430) =$$

$$Aof = \underline{6759} \text{ MCF/D}$$

TESTED BY Don NortonCHECKED BY: T. B. Grant.

Lewis D. Galloway
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