

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 2, 1965

Operator El Paso Natural Gas Company		Lease Barrett No. 4 (OWO)	
Location 1190'N, 1190'E, Sec. 20, T-31-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5509	Tubing: Diameter 2.375	Set At: Feet 5430
Pay Zone: From 4962	To 5471	Total Depth: 5510	Shut In 8-26-65
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 885	+ 12 = PSIA 897	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 888	+ 12 = PSIA 900	
Flowing Pressure: P PSIG 309	+ 12 = PSIA 321		Working Pressure: P _w PSIG 738	+ 12 = PSIA 750	
Temperature: T = 96 °F	F _t = .9671	n = .75	F _{pv} (From Tables) 1.028	Gravity .695	F _g = .9292

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

$$Q = (12.365) (321) (.9671) (.9292) (1.028) = \underline{3,667} \text{ MCF/D}$$

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

$$Aof = \left(\frac{810,000}{247,500} \right)^n = (3667) (3.2727) = (3667) (2.4332)$$

$$Aof = \underline{8923} \text{ MCF/D}$$

TESTED BY Don NortonCHECKED BY: Hermon E. McAnally

Lewis D. Galloway
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