

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 3, 1968

Operator El Paso Natural Gas Company		Lease Grabbling C No. 4 (O.W.O)	
Location 1793'S, 1097'W, Sec. 12, T-30-N, R-10-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5714	Tubing: Diameter 2.375	Set At: Feet 5317
Pay Zone: From 4722	To 5682	Total Depth: 5719	Shut In 6-22-68
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 731	+ 12 = PSIA 793	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 765	+ 12 = PSIA 777	
Flowing Pressure: P PSIG 281	+ 12 = PSIA 293		Working Pressure: P _w PSIG 624	+ 12 = PSIA 636	
Temperature: T = 76 °F	F _t = .9850	n = .75	F _p (From Tables) 1.023	Gravity .9463	F _g = .670

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

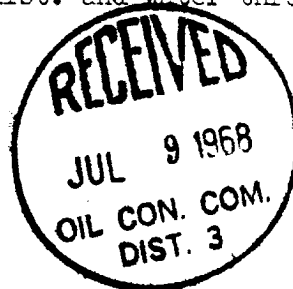
$$Q = (12.365)(293)(.9850)(.9463)(1.023) = 3472 \text{ MCF/D}$$

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

$$Aof = \left(\frac{628849}{144433} \right)^n = (4.3539)^{.75} (3472) = (3472)(3.0141)$$

NOTE: The well produced a very light fog of dist. and water throughout the test.

$$Aof = 10,465 \text{ MCF/D}$$

TESTED BY C. R. WagnerCHECKED
WITNESSED BY H. E. McAnally

H. L. Kendrick
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