

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

Operator El Paso Natural Gas Company		Lease Grambling C No. 8	
Location 1600 S, 1100 E, S 12, T30N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3190	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 3068	To 3084	Total Depth: 3190	Shut In 9-2-70
Stimulation Method S W F		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 722	+ 12 = PSIA 734	Days Shut-In 7	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 57	+ 12 = PSIA 69	Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 87		
Temperature: T = 62 °F	F _t = .9981	n = .85	F _{pv} (From Tables) 1.007	Gravity .649	F _g = .9615

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

$$Q = (12.365)(69)(.9981)(.9615)(1.007) = \underline{825} \text{ MCF/D}$$

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

Note: well blew a light spray of water & dist. throughout the test.

$$Aof = \left(\frac{538756}{531187} \right)^n = (1.0142)^{.85} (825) = (1.0120)(825)$$

$$Aof = \underline{835} \text{ MCF/D}$$

TESTED BY Dan Roberts

WITNESSED BY _____



H. L. Kendrick
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