

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **November 2, 1959**

Operator El Paso Natural Gas		Lease Johnston State No. 8 (M)	
Location 1180N, 1650E; 36-27-6		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5-1/2	Set At: Feet 5663	Tubing: Diameter 2	Set At: Feet 5388
Pay Zone: From 4956	To 5542	Total Depth: 5660 c/o 5618	Shut In: 10/25/59
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG (PC) 910	- 12 - PSIA 922	Days Shut-In 8	Shut-In Pressure, Tubing, PSIG (MV) 1055
Flowing Pressure: P, PSIG (MV) 262	- 12 - PSIA 274		Working Pressure: P _w , PSIG Calc. 543
Temperature, T, °F 63	n = .75	E _{pv} (From Tables) 1.027	Gravity .655

Initial SIPT (PC) = 911 psig

Guib "AG" Packer at 4826

Final SIPC (PC) = 914 psig

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_2 \times F_3$

$$Q = 12.365 \times 274 \times .9971 \times .9571 \times 1.027 = 3321 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1138489}{843640} \right)^n = 1.3494^{.75} \times 3321 = 1.2520 \times 3321$$

$$A_{of} = 4158 \text{ MCF/D}$$

TESTED BY W. D. Dawson

WITNESSED BY _____



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