

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
Simulation 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: Pw PSIG Calc.	- 12 = PSIA 543
Temperature: T °F 63	n = .75	Fpv (From Tables) 1.027	Gravity .655

Initial SIPT (PC) = 911 psig

Guib "AG" Packer at 4826

Final SIPC (PC) = 914 psig

CHOKE VOLUME $Q = C \times P_c \times F_c \times F_g \times F_{pv}$

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

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

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

$$Aof = 4158 \text{ MCF/D}$$

TESTED BY W. D. Dawson

WITNESSED BY _____

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