

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 27, 1969

Operator El Paso Natural Gas		Lease Woodriver No. 4	
Location 800'S; 990'W; S-5; T-30N; R-9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3143	Tubing: Diameter No tubing	Set At: Feet ----
Pay Zone: From 3080	To 3110	Total Depth: 3175	Shut In 5-27-69
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 778	+ 12 = PSIA 790	Days Shut-In 31	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA -----	
Flowing Pressure: P PSIG 154	+ 12 = PSIA 166		Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 171	
Temperature: T = 64 °F	Ft = .9962	n = .85	Fpv (From Tables) 1.018	Gravity .670	Fg = .9463

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

$$Q = 12.365 \times 166 \times .9962 \times .9463 \times 1.018 = \underline{\quad 1970 \quad} \text{ MCF/D}$$

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

$$Aof = \left(\frac{624100}{594859} \right)^n = (1.0491)^{.85} 1970 = 1.0416 (1970)$$

Note: Blew dry gas for entire test.

$$Aof = \underline{\quad 2052 \quad} \text{ MCF/D}$$

TESTED BY RH & CRW
 Calculated
 APPROVED BY RES

H. L. Kendrick
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