

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 8, 1964

Operator El Paso Natural Gas Company		Lease Neil No. 6 (OWWO)	
Location 971'N, 820'E, Sec. 33, T-32-N, R-11-W		County San Juan	State New Mexico
Formation Nueces Verde		Pool Blanco	
Casing: Diameter 1.500	Set At: Feet 5302	Tubing: Diameter 2.375	Set At: Feet 5225
Pay Zone: From 1636	To 5220	Total Depth: 5302	Shut In 9-28-64
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 949	+ 12 = PSIA 961	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 939	+ 12 = PSIA 951	
Flowing Pressure: P PSIG 374	+ 12 = PSIA 386		Working Pressure: Pw PSIG 856	+ 12 = PSIA 868	
Temperature: T = .85 °F	Ft = .9768	n = .75	Fpv (From Tables) 1.035	Gravity .679	Fg = .9427

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

$$Q = (12.365)(386)(.9768)(.9427)(1.035) = \underline{4549} \text{ MCF/D}$$

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

$$Aof = \left(\frac{923,521}{170,097} \right)^n = (4549)(5.4293)^{.75} = (4549)(3.5550)$$

NOTE: Blew slight mist of distillate throughout test.

$$Aof = \underline{16172} \text{ MCF/D}$$

TESTED BY W. D. Dawson
Checked _____
WITNESSED BY Tom B. Grant



Lewis D. Galloway
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