

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 10-13-66

Operator El Paso Natural Gas Company		Lease Riddle "D" No. 4 (OWO)	
Location Sec. 22, T-31-N, R-14-W		County San Juan	State New Mexico
Formation Blanco		Pool Blanco	
Casing: Diameter 1.570	Set At: Feet 5957	Tubing: Diameter 2.375	Set At: Feet 5994
Pay Zone: From 5580	To 5900	Total Depth: 5950	Shut In 10-5-66
Stimulation Method Sand/Frac 5000		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 3/4"	Choke Constant: C 33.223	Tested through 3/4" variable choke	
Shut-in Pressure, Casing, PSIG 105	+ 12 = PSIA 817	Days Shut-In	Shut-In Pressure, Tubing PSIG 700
Flowing Pressure: P 125	+ 12 = PSIA meter 125		+ 12 = PSIA 713
Temperature: T = 73 °F	n = .75	Working Pressure: Pw 713	+ 12 = PSIA 725
Ft = .9377		Fpv (From Tables) 1.013	Gravity .668
			Fg = 1.2235

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

$$Q = \text{Calculated from orifice meter reading} = \underline{3207} \text{ MCF/D}$$

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

$$Aof = \left(\frac{667489}{141864} \right)^n = (3207)(4.7051)^{.75} = (3207)(3.1947)$$

NOTE: Well produced 5.62 bbls. dist. into tank.

$$Aof = \underline{10245} \text{ MCF/D}$$

TESTED BY T. J. Kennedy, A. J. Loleit, E. P. HeadrickWITNESSED BY A. J. Loleit

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