

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 4-7-70

Operator El Paso Natural Gas Company		Lease Lucifano Unit No. 122	
Location 990S, 990E, S10, T26N, R10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 1.500	Set At: Feet 6267	Tubing: Diameter 2.375	Set At: Feet 6863
Pay Zone: From 6720	To 6863	Total Depth: 6067	Shut In 3-27-70
Stimulation Method SLP		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 4" MR = .750 plt.		Choke Constant: C 41.2203		Well test thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1913	+ 12 = PSIA 1925	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 1930	+ 12 = PSIA 1942	
Flowing Pressure: P PSIG 263 w/h 62 MR	+ 12 = PSIA 275 w/h 74 MR		Working Pressure: Pw PSIG 623	+ 12 = PSIA 635	
Temperature: T = 74 °F	n = Ft = .9866		Fpv (From Tables) 1.010	Gravity Fg = 1.1952	

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

$$Q = \text{Calc from orifice meter reading} = \underline{2297} \text{ MCF/D}$$

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

Note: Well produced 57.4 bbl of 42.8 API gravity oil during the test.

$$Aof = \left(\frac{3771364}{3360139} \right)^n = (1.1197)^{.75} (2297) = (1.0885)(2297)$$

$$Aof = \underline{2500} \text{ MCF/D}$$

TESTED BY Goodwin & Broughton

WITNESSED BY _____

H. L. Kendrick
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