

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 28, 1971

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit No. 56	
Location 1800'S, 900'W, Sec. 21, T27N, R4W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8145	Tubing: Diameter 1.990	Set At: Feet 8070
Pay Zone: From 7352	To 8068	Total Depth: 8145	Shut In 9-22-71
Stimulation Method S W F		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 1" MR 2.750 Plate		Choke Constant: C 41.9208		Well tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 2319	+ 12 = PSIA 2331	Days Shut-In 36	Shut-In Pressure, Tubing PSIG 2319	+ 12 = PSIA 2331	
Flowing Pressure: P MR - 40 WH - 214	+ 12 = PSIA MR - 52 WH - 226		Working Pressure: Pw 719	+ 12 = PSIA 731	
Temperature: T = 74 °F	Ft = .9868	n = 0.75	Fpv (From Tables) 1.004	Gravity 0.695	Fg = 1.1995

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

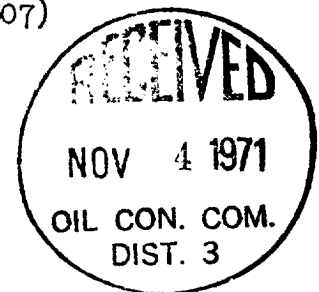
$$Q = \text{Calculated from orifice meter readings} = \underline{1507} \text{ MCF/D}$$

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

NOTE: Well made 33.28 barrels of 48.5° API oil.

$$Aof = \left(\frac{5433561}{4899200} \right)^n = 1507(1.1091)^{0.75} = 1507 (1.0807)$$

$$Aof = \underline{1629} \text{ MCF/D}$$

TESTED BY B.J. Broughton & R. R. Hardy

WITNESSED BY _____

L. E. Mabe, Jr.
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