

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 9, 1965

Operator El Paso Natural Gas Company		Lease Lindrich Unit No. 56	
Location 1000'S, 800'D, Section 31, T-24-N, R-2-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 2.675	Set At: Feet 3220	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3116	To 3136	Total Depth: 3227	Shut In 7-2-65
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Wellbore Completion	
Shut-In Pressure, Casing, 930	PSIG	+ 12 = PSIA 942	Days Shut-In 7	Shut-In Pressure, Tubing No tubing	PSIG
Flowing Pressure: P 304	PSIG	+ 12 = PSIA 316		Working Pressure: Pw Calc.	PSIG
Temperature: T = 62 °F		n = .05		Fpv (From Tables) 1.035	Gravity .680
	Ft = .9981				Fg = .9393

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

$$Q = (12.365) (316) (.9981) (.9393) (1.035) = 3791 \text{ MCF/D}$$

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

$$Aof = \left(\frac{867,334}{724,146} \right)^n = (3791) (1.2253)^{.05} = (3791) (1.1035)$$

NOTE: Well produced a light spray of distillate and water throughout the test.

$$Aof = 4175 \text{ MCF/D}$$

TESTED BY D. Roberts
CALCULATED BY
WITNESSED BY H. B. McManally

Lewis D. Galloway
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