

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE January 5, 1970

Operator El Paso Natural Gas Company		Lease Merrin No. 1-Y	
Location 1850 S, 1850 W, S-13, T29N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Antec	
Casing: Diameter 2.75	Set At: Feet 2360	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2244	To 2278	Total Depth: 2360	Shut In 12-15-69
Stimulation Method SIF		Flow Through Casing 100	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless completion	
Shut-In Pressure, Casing, PSIG 632	+ 12 = PSIA 644	Days Shut-In 21	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 250	+ 12 = PSIA 250	Working Pressure: P _w PSIG Calc.	+ 12 = PSIA		
Temperature: T = 69 °F	n = .85	Fpv (From Tables) 1.024	Gravity .665	Fg = .9498	

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

$$Q = (12.365)(250)(.9952)(.9498)(1.024) = 2,992 \text{ MCF/D}$$

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

Note: Dry gas throughout test.

$$Aof = \left(\frac{414736}{323532} \right)^n = (1.12819)^{.85}(2992) = (1.2350)(2992) =$$

$$Aof = 3,695 \text{ MCF/D}$$

TESTED BY D. R. Roberts

WITNESSED BY _____



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