

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

Operator El Paso Natural Gas Company		Lease Hubbell No. 1-Y	
Location 1840 S, 1840 W, S-7-T-29-W, R-10-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2132	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2024	To 2048	Total Depth: 2132	Shut In 12-15-60
Stimulation Method SLT		Flow Through Casing N/A	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless completion	
Shut-In Pressure, Casing, PSIG 595	+ 12 = PSIA 607	Days Shut-In 21	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 79	+ 12 = PSIA 91	Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 103		
Temperature: T = 66 °F	n = .85	F _p (From Tables) 1.009	Gravity .670	F _g = .9463	

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = (12.365)(91)(.9943)(.9463)(1.009) = \underline{1,068} \text{ MCF/D}$$

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

Note: Heavy spray of water of distillate throughout test.

$$Aof = \left(\frac{368449}{356785} \right)^n = (1.0327)^{.85}(1068) = (1.0277)(1068)$$

$$Aof = \underline{1098} \text{ MCF/D}$$

TESTED BY DRRoberts

WITNESSED BY _____



Handwritten signature: R. E. Stuyke