

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 10, 1968

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 146	
Location 950'N, 1756'E, Sec. 19, T-28-N, R-7-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3577	Tubing: Diameter NO TUBING	Set At: Feet
Pay Zone: From 3460	To 3488	Total Depth: 3577	Shut In 7-2-68
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		TUBINGLESS COMPLETION	
Shut-In Pressure, Casing, PSIG 1004	+ 12 = PSIA 1016	Days Shut-In 8	Shut-In Pressure, Tubing PSIG NO TUBING	+ 12 = PSIA	
Flowing Pressure: P PSIG 140	+ 12 = PSIA 152	Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 197		
Temperature: T = 64 °F	Ft = .9962	n = .85	Fpv (From Tables) 1.014	Gravity .642	Fg = .9682

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

$$Q = (12.365)(152)(.9962)(.9682)(1.014) = 1838 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1032256}{993447} \right)^n = (1838)(1.0390)^{.85} = (1838)(1.0331)$$

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

$$Aof = 1899 \text{ MCF/D}$$

TESTED BY D. R. Roberts
 CALCULATED BY A. J. Loleit
 WITNESSED BY T. B. Grant
 CHECKED BY T. B. Grant



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