

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 9-20-74

Operator El Paso Natural Gas Company		Lease San Juan 28-5 Unit #95	
Location 1170/S, 880/W, Sec. 31, T28N, R5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 3283'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3162'	To 3214'	Total Depth: PBT 3283' 3272'	Shut In 9-10-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, 1080	PSIG	+ 12 = PSIA 1092	Days Shut-In 10	Shut-In Pressure, Tubing No Tubing	PSIG + 12 = PSIA --
Flowing Pressure: P 96	PSIG	+ 12 = PSIA 108		Working Pressure: P <sub>w</sub> Calculated	PSIG + 12 = PSIA 137
Temperature: T = 58 °F	F <sub>t</sub> = 1.0019	n = .85		F <sub>pv</sub> (From Tables) 1.007	Gravity .625 F <sub>g</sub> = 0.9798

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

$$Q = 12.365(108)(1.0019)(0.9798)(1.007) = \underline{1320} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{1192464}{1173695} \right)^n = 1320(1.0160)^{.85} = 1320(1.0136)$$

$$Aof = \underline{1338} \text{ MCF/D}$$

Note: The well produced a light spray of water.

TESTED BY F. Johnson

WITNESSED BY \_\_\_\_\_

*Loren W. Fothergill*  
Loren W. Fothergill  
Well Test Engineer