

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE April 23, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #169 (CH)	
Location 1058/N, 840/W, Sec. 9, T27N, R7W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 4393'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4276	To 4292	Total Depth: PBDT 4393' 4368'	Shut In 4-5-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1025	+ 12 = PSIA 1037	Days Shut-In 18	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 5	+ 12 = PSIA 17	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 23		
Temperature: T = 60 °F F _t = 1.0000	n = .75	F _{pv} (From Tables) 1.004	Gravity .655	F _g = .9571	

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

$$Q = 12.365(17)(1.000)(.9571)(1.004) = \underline{\quad 202 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1075369}{1074840} \right)^n = 202(1.0005)^{.75} = 202(1.0004)$$

$$Aof = \underline{\quad 202 \quad} \text{ MCF/D}$$

Note: The well produced a heavy mist of water.

TESTED BY Goodwin

WITNESSED BY _____



Loren W. Fothergill
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Well Test Engineer