

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 22, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit #188	
Location 800/N, 1180/W, Sec. 30, T27N, R5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3242'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3080'	To 3148'	Total Depth: PBT 3242' 3232'	Shut In 5-9-74
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 857	+ 12 = PSIA 869	Days Shut-In 13	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 44	+ 12 = PSIA 56		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 71	
Temperature: T = 60 °F F _t = 1.0000	n = .85		F _{pv} (From Tables) 1.0040	Gravity .655 F _g = .9571	

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

$$Q = 12.365(56)(1.0000)(.9571)(1.0040) = \underline{\quad 665 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{755161}{750120} \right)^n = 665(1.0067)^{.85} = 665(1.0057)$$

$$Aof = \underline{\quad 669 \quad} \text{ MCF/D}$$

Note: The well unloaded oil and paraffin for 5 minutes then a dry flow for the rest of the test.

TESTED BY Rhames

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

