

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 28, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #206 CH	
Location 790/N, 1850/E, Sec. 20, T27N, R7W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 4019'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3926	To 3936	Total Depth: PBD 4019' 4008'	Shut In 10-3-74
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 1017	+ 12 = PSIA 1029	Days Shut-In 25	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --
Flowing Pressure: P PSIG 52	+ 12 = PSIA 64		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 85
Temperature: T = 54 °F	n = F _t = 1.0058		F _p (From Tables) 1.009	Gravity .655 F _g = 0.9571

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

$$Q = 12.365(64)(1.0058)(0.9571)(1.009) = \underline{\quad 769 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1058841}{1051785} \right)^n = 769(1.0067)^{.75} = 769(1.0050)$$

$$Aof = \underline{\quad 773 \quad} \text{ MCF/D}$$

Note: The well produced a dry gas.

TESTED BY D. Norton

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer