

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 23, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #178 (CH)	
Location 940/S, 800/E, Sec. 31, T28N, R7W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 3695'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3648'	To 3660'	Total Depth: PBD 3695' 3685'	Shut In 4-22-74
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 1107	+ 12 = PSIA 1119	Days Shut-In 31	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 32	+ 12 = PSIA 44		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 57	
Temperature: T = 60 °F	n = Ft = 1.0000 .75		F _{pv} (From Tables) 1.0040	Gravity .655	F _g = .9571

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

$$Q = 12.365(44)(1.0000)(.9571)(1.0040) = 523 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1252161}{1248912} \right)^n = 523(1.0026)^{.75} = 523(1.0020)$$

$$Aof = 524 \text{ MCF/D}$$

NOTE: The well produced a dry flow.

TESTED BY C. Rhames

WITNESSED BY

Loren W. Fothergill
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Well Test Engineer

