

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE January 22, 1975

Operator El Paso Natural Gas Company		Lease Lackey #8	
Location 800/S, 1075/W Sec. 27, T28N, R9W		County San Juan	State New Mexico
Formation Chacra		Pool Harris Mesa	
Casing: Diameter 2.875	Set At: Feet 3533'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3356	To 3496	Total Depth: 3533	Shut In 1-15-75
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1015	+ 12 = PSIA 1027	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 74	+ 12 = PSIA 86		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 111	
Temperature: T = 54 °F	n = .75		F _{pv} (From Tables) 1.009	Gravity .650	F _g = .9608
F _t = 1.0058					

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

$$Q = 12.365(86)(1.0058)(.9608)(1.009) = \underline{1037} \text{ MCF/D}$$

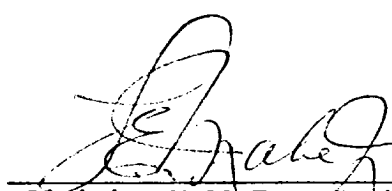
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = Q \left(\frac{1054729}{1042408} \right)^n = 1037(1.0118)^{.75} = 1037(1.0088)$$

$$Aof = \underline{1046} \text{ MCF/D}$$

TESTED BY Rhames

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Division Well Test Engineer
