

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE January 3, 1975

Operator El Paso Natural Gas Company		Lease Lackey #9	
Location 869/N, 890/W, Sec. 34, T28N, R9W		County San Juan	State New Mexico
Formation Chacra		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 3507'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3330'	To 3472'	Total Depth: PBDT 3507' 3497'	Shut In 12-17-74
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 950	+ 12 = PSIA 962	Days Shut-In 17	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 132	+ 12 = PSIA 144		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 185	
Temperature: T = 58 °F	n = .75		F <sub>pv</sub> (From Tables) 1.013	Gravity .650	F <sub>g</sub> = 0.9608
	F <sub>t</sub> = 1.0019				

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

$$Q = 12.365(144)(1.0019)(0.9608)(1.013) = \underline{1736} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{925444}{891219} \right)^n = 1736(1.0384)^{.75} = 1736(1.0287)$$

$$Aof = \underline{1786} \text{ MCF/D}$$

Note: The well blew a dry gas.

TESTED BY F. Johnson

WITNESSED BY \_\_\_\_\_

Loren W. Fathery  
Well Test Engineer