

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE November 12, 1974

Operator El Paso Natural Gas Company		Lease Carson #1	
Location 1610/S, 1550/E, Sec. 34, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4060'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3912	To 3982'	Total Depth: PBD 4060' 4050'	Shut In 10-29-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1056	+ 12 = PSIA 1068	Days Shut-In 14	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 128	+ 12 = PSIA 140	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 186		
Temperature: T = 54 °F	F _t = 1.0058	n = .85	F _{pv} (From Tables) 1.015	Gravity .680	F _g = 0.9393

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

$$Q = 12.365(140)(1.0058)(0.9393)(1.015) = \underline{1660} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1140624}{1106028} \right)^n = 1660(1.0313)^{.85} = 1660(1.0265)$$

$$Aof = \underline{1704} \text{ MCF/D}$$

Note: The well produced dry gas throughout the test.

TESTED BY Carl Rhames

WITNESSED BY _____

H. E. M. - Analyst
Well Test Engineer