

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE January 3, 1975

Operator El Paso Natural Gas Company		Lease Hancock A #10	
Location 850/S, 1040/E, Sec. 35, T28N, R9W		County San Juan	State New Mexico
Formation Chacra		Pool Harris Mesa	
Casing: Diameter 2.875	Set At: Feet 3248'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3206'	To 3230'	Total Depth: PBT 3248' 3238'	Shut In 12-18-74
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 1024	+ 12 = PSIA 1036	Days Shut-In 16	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 112	+ 12 = PSIA 124	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 158		
Temperature: T = 58 °F F _t = 1.0019	n = .75	F _{pv} (From Tables) 1.011	Gravity .650	F _g = 0.9608	

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

$$Q = 12.365(124)(1.0019)(0.9608)(1.011) = \underline{1492} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1073296}{1048332} \right)^n = 1492(1.0238)^{.75} = 1492(1.0178)$$

$$Aof = \underline{1519} \text{ MCF/D}$$

Note: The well blew a dry gas.

TESTED BY F. Johnson

WITNESSED BY _____

Lauren W. Fathengill
Well Test Engineer