

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 25, 1973

Operator El Paso Natural Gas Company		Lease Hughes A No. 9	
Location 1580'N, 2207'W, Section 33, T29N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext.		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2898	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2860	To 2880	Total Depth 2910	Shut In 5-18-73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 981	+ 12 = PSIA 993	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 41	+ 12 = PSIA 53	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 66		
Temperature: T = 59 °F	F _t = 1.001	n = .85	F _{pv} (From Tables) 1.007	Gravity .645	F _g = .9645

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

$$Q = (12.365)(53)(1.001)(.9645)(1.007) = \underline{637} \text{ MCF/D}$$

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

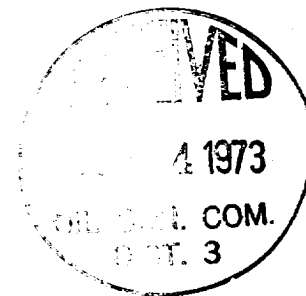
NOTE: The well produced dry gas.

$$Aof = Q \left(\frac{986049}{981693} \right)^n = 637 (1.0044)^{.85} = 637 (1.0037)$$

$$Aof = \underline{641} \text{ MCF/D}$$

TESTED BY Tommy D. Norton

WITNESSED BY _____



William D. Welch
William D. Welch, Well Test Engineer