

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 25, 1973

Operator El Paso Natural Gas Company		Lease Hughes A No. 10	
Location 1180'S, 1180'W, Section 33, T29N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext.		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2986	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2834	To 2916	Total Depth: 2986	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, 1012	PSIG	+ 12 = PSIA 1024	Days Shut-In 7	Shut-In Pressure, Tubing No Tubing	PSIG + 12 = PSIA
Flowing Pressure: P 77	PSIG	+ 12 = PSIA 89		Working Pressure: Pw Calculated	PSIG + 12 = PSIA 108
Temperature: T = 64 °F	F _t = .9962	n = .85		F _{pv} (From Tables) 1.007	Gravity .645 F _g = .9645

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

$$Q = (12.365)(87)(.9962)(.9645)(1.007) = \underline{1041} \text{ MCF/D}$$

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

NOTE: Well produced dry gas.

$$Aof = Q \left(\frac{1048576}{1036912} \right)^n = 1041 (1.0112)^{.85} = 1041 (1.0095)$$

$$Aof = \underline{1051} \text{ MCF/D}$$

TESTED BY Tommy D. Norton

WITNESSED BY _____



William D. Welch, Well Test Engineer