

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 22, 1973

Operator El Paso Natural Gas Company		Lease Hardie No. 12	
Location 1840'S, 800'W, Section 25, T29N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext.		Pool Blanco	
Casing Diameter 2.875	Set At: Feet 3050	Tubing Diameter No Tubing	Set At: Feet
Pay Zone: From 2942	To 2982	Total Depth: 3050	Shut In 5-3-73
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 1025	+ 12 = PSIA 1037	Days Shut-In 19	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 137	+ 12 = PSIA 149		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 187	
Temperature: T = 64 °F	n = .85		F _{pv} (From Tables) 1.013	Gravity .645	F _g = .9645

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

$$Q = (12.365)(149)(.9962)(.9645)(1.013) = 1793 \text{ MCF/D}$$

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

NOTE: Well blew dry gas.

$$Aof = Q \left(\frac{1075369}{1040400} \right)^n = 1793 (1.0336)^{.85} = 1793 (1.0285)$$

$$Aof = 1845 \text{ MCF/D}$$

TESTED BY Tommy D. Norton

WITNESSED BY



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