

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 11, 1973

Operator El Paso Natural Gas Company		Lease Hughes A #7	
Location 1180'N, 1180'E, Section 27, T29N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs <i>Ext.</i>		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3501	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3316	To 3388	Total Depth: 3501	Shut In 5-2-73
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, 1000	PSIG	+ 12 = PSIA 1012	Days Shut-In 9	Shut-In Pressure, Tubing No Tubing	PSIG + 12 = PSIA
Flowing Pressure: P 100	PSIG	+ 12 = PSIA 112		Working Pressure: P _w Calculated	PSIG + 12 = PSIA 143
Temperature: T = 63 °F	F _t = .9971	n = .85		F _p (From Tables) 1.010	Gravity .645 F _g = .9645

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

$$Q = (12.365)(112)(.9971)(.9645)(1.010) = 1345 \text{ MCF/D}$$

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

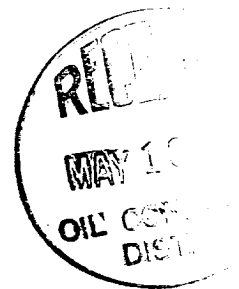
NOTE: Blew clear gas for entire test.

$$Aof = Q \left(\frac{1024144}{1003695} \right)^n = 1345 (1.0204)^{.85} = 1345 (1.0173)$$

$$Aof = 1370 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY



William D. Welch, Well Test Engineer