

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 14, 1973

Operator El Paso Natural Gas Company		Lease Hughes A No. 8	
Location 792'S, 1080'E, Section 27, T29N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3467	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3310	To 3342	Total Depth: 3467	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, PSIG 1009	+ 12 = PSIA 1021	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 108	+ 12 = PSIA 120	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 154		
Temperature: T = 60°F	F _t = 1.000	n = .85	F _{pv} (From Tables) 1.010	Gravity .645	F _g = .9645

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

$$Q = (12.365)(120)(1.0000)(.9645)(1.010) = 1445 \text{ MCF/D}$$

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

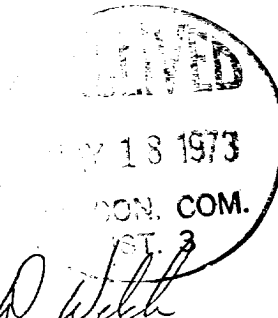
NOTE: Blew dry gas for entire test.

$$Aof = Q \left(\frac{1042441}{1042429} \right)^n = 1445 (1.0233)^{.85} = 1445 (1.0198)$$

$$Aof = 1474 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY



William D. Welch, Well Test Engineer