

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE May 1, 1973

Operator El Paso Natural Gas Company		Lease Sunray No. 5	
Location 1090'S, 1460'E, Section 5, T29N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext.		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3199	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3096	To 3138	Total Depth: 3199	Shut In 4-25-73
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 920	+ 12 = PSIA 932	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 95	+ 12 = PSIA 107	Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 136		
Temperature: T = 55 °F	n = F <sub>t</sub> = 1.0048	F <sub>pv</sub> (From Tables) 1.007	Gravity .645	F <sub>g</sub> = .9645	

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

$$Q = 12.365 \times 107 \times 1.0048 \times .9645 \times 1.007 = \underline{1291} \text{ MCF/D}$$

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

NOTE: Blew clear gas entire test

$$Aof = Q \left( \frac{868624}{850128} \right)^n = (1.0218)^{.85} \times (1291) = (1.0185) \times 1291$$

$$Aof = \underline{1316} \text{ MCF/D}$$

TESTED BY J. B. Goodwin

WITNESSED BY \_\_\_\_\_

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

