

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE June 25, 1973

Operator El Paso Natural Gas Company		Lease Sunray A No. 6	
Location 1640'N, 1175'W, Section 10, T30N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3312	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3214	To 3256	Total Depth: 3312	Shut In 6/6/73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1003	+ 12 = PSIA 1015	Days Shut-In 19	Shut-In Pressure, Tubing, PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 165	+ 12 = PSIA 177		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 226	
Temperature: T = 66 °F	n = .85		F <sub>pv</sub> (From Tables) 1.015	Gravity .635	F <sub>g</sub> = .9721

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

$$Q = (12.365) (177) (.9943) (.9721) (1.015) = 2147 \text{ MCF/D}$$

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

NOTE: Well produced dry gas.

$$Aof = Q \left( \frac{1030225}{979149} \right)^n = 2147 (1.0522)^{.85} = 2147 (1.0442)$$

$$Aof = 2242 \text{ MCF/D}$$



TESTED BY C. R. Wagner

WITNESSED BY

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