

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 29, 1973

Operator El Paso Natural Gas Company		Lease Russell No. 9	
Location 1500'S, 1650'E, Section 24, T28N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs <i>Ext.</i>		Pool So. Blanco	
Casing Diameter 2-7/8	Set At: Feet 2995	Tubing: Diameter No Tubing	Set At: Feet
Key Zone: From 2827	To 2890	Total Depth: 3000	Shut In 6-18-73
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 964	+ 12 = PSIA 976	Days Shut-In 11	Shut-In Pressure, Tubing PSIG No Tubing
Flowing Pressure: P PSIG 97	+ 12 = PSIA 109	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 156
Temperature: T = 62 °F	n = .85	F _{pv} (From Table) 1.007	Gravity .645 F _g = .9645
F _g = .9981			

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_g \times F_g \times F_{pv}$$

$$Q = (12.365) (109) (.9981) (.9645) (1.007) = 1307 \text{ MCF/D}$$

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

NOTE: Well produced dry gas.

$$A_{of} = Q \left(\frac{952576}{934030} \right)^{.85} = 1307 (1.0198)^{.85} = 1307 (1.0168)$$

$$A_{of} = 1329 \text{ MCF/D}$$

TESTED BY Roger Hardy

WITNESSED BY



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