

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 29, 1973

Operator El Paso Natural Gas Company		Lease Russell No. 10	
Location 1625'S, 990'W, Section 24, T28N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing Diameter 2-7/8	Set At: Feet 2925	Tubing Diameter No Tubing	Set At: Feet
Pay Zone: From 2800	To 2865	Total Depth: 2925	Shut In 6-18-73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Coefficient C 12,365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 982	F12 = PSIA 994	Days Shut-in 11	Shut-In Pressure, Tubing, PSIG No Tubing	F12 = PSIA	
Flowing Pressure: P, PSIG 82	F12 = PSIA 94	Working Pressure: Pw, PSIG Calculated	F12 = PSIA 117		
Temperature: T = 63 °F	n = .85	Fpv (From Table) 1.007	Gravity .645	Fg = .9645	

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = (12,365) (94) (.9971) (.9645) (1.007) = 1126 \text{ MCF/D}$$

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

NOTE: Well produced dry gas.

$$Aof = Q \left(\frac{988036}{974347} \right)^{.85} = 1126 (1.0141)^{.85} = 1126 (1.0119)$$

$$Aof = 1139 \text{ MCF/D}$$

TESTED BY Roger Hardy

WITNESSED BY _____



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