

N91000

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 7-23-73

Operator El Paso Natural Gas Company		Lease Pierce "A" No. 2	
Location 990/S, 1120/W, Sec 13, T-30N, R-10-W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext.		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3112	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2984	To 3038	Total Depth: 3112	Shut In 7-10-73
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 733	+ 12 = PSIA 745	Days Shut-In 13	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 116	+ 12 = PSIA 128	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 161		
Temperature: T = 62 °F	n = .85	F _{pv} (From Tables) 1.011	Gravity .635	F _g = .9721	

$$Q_{KE \text{ VOLUME}} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = (12.365)(128)(.9981)(.9721)(1.011) = 1553 \text{ MCF/D}$$

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

NOTE: The well produced dry gas.

$$A_{of} = Q \left(\frac{555025}{529104} \right)^n = 1553(1.0490)^{.85} = 1553(1.0415)$$

$$A_{of} = 1617 \text{ MCF/D}$$

TESTED BY William D. Welch

WITNESSED BY

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William D. Welch, Well Test Engineer

