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EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 1/17/73

Operator EL PASO NATURAL GAS COMPANY		Lease Florance C #16	
Location 1175/S, 1500/W, Sec. 20, T28N, R8W		County San Juan	State NM
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2244	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2134	To 2190	Total Depth: 2244	Shut In 1/9/73
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 844	+ 12 = PSIA 856	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 105	+ 12 = PSIA 117		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 140	
Temperature: T = 58 °F F _t = 1.002	n = .85		F _{pv} (From Tables) 1.010	Gravity .645	F _g = .9645

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

$$Q = (12.365)(117)(1.002)(.9645)(1.010) = \underline{1412} \text{ MCF/D}$$

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

$$A_{of} = Q \left(\frac{732736}{713136} \right)^n = 1412 (1.0275)^{.85} = 1412 (1.0233)$$

$$A_{of} = \underline{1445} \text{ MCF/D}$$

NOTE: Well blew dry gas.

TESTED BY Rhames

WITNESSED BY _____

William D. Welch

William D. Welch
Well Test Engineer

