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EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 12/28/72

Operator EL PASO NATURAL GAS COMPANY		Lease Mudge #35	
Location 1460/N, 1650/E, Sec. 17, T31N, R11W		County San Juan	State NM
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2776	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2646	To 2694	Total Depth: 2776	Shut In 12/20/72
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 830	+ 12 = PSIA 842	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 73	+ 12 = PSIA 85	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 105		
Temperature: T = 58 °F Ft = 1.002	n = .85	Fpv (From Tables) 1.007	Gravity .635	Fg = .9721	

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

$$Q = (12.365)(85)(1.002)(.9721)(1.007) = \underline{1031} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{708964}{697939} \right)^n = (1031)(1.0158)^{.85} = (1031)(1.0134)$$

$$Aof = \underline{1045} \text{ MCF/D}$$

NOTE: Well produced a light spray of water throughout test.

TESTED BY J. A. Jones

WITNESSED BY _____

J. A. Jones
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Well Test Engineer

