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EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 12/4/72

Operator EL PASO NATURAL GAS COMPANY		Lease Mudge #34	
Location 1592/S, 820/E, Sec. 9, T31N, R11W		County San Juan	State NM
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2805	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2716	To 2736	Total Depth: 2805	Shut In 11/27/72
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 809	+ 12 = PSIA 821	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 87	+ 12 = PSIA 99	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 123		
Temperature: T = 61 °F F _t = .9990	n = .85	F _{pv} (From Tables) 1.007	Gravity .635	F _g = .9721	

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

$$Q = (12.365)(99)(.9990)(.9721)(1.007) = \underline{1197} \text{ MCF/D}$$

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

$$A_{of} = Q \left(\frac{674041}{658912} \right)^n = (1197)(1.02296)^{.85} (1197)(1.0195)$$

$$A_{of} = \underline{1220} \text{ MCF/D}$$

NOTE: Well blew dry gas.

TESTED BY Roger Hardy

WITNESSED BY _____

William D Welch

William D. Welch
Well Test Engineer

