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EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 11/27/72

Operator EL PASO NATURAL GAS COMPANY		Lease Mudge Well #42	
Location 830'S, 1600'E, Sec. 11, T-31-N, R-11-W		County San Juan	State NM
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2728	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2588	To 2632	Total Depth: 2730	Shut In 11/19/72
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 921	+ 12 = PSIA 933	Days Shut-In 8	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA	
Flowing Pressure: P PSIG 178	+ 12 = PSIA 190	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA	234	
Temperature: T = 64 °F	F _t = .9962	n = .85	F _{pv} (From Tables) 1.016	Gravity .635	F _g = .9721

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

$$Q = (12.365)(190)(.9962)(.9721)(1.016) = \underline{2311} \text{ MCF/D}$$

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


$$A_{of} = Q \left(\frac{870489}{815733} \right)^n = 2311 (1.0671)^{.85} = 2311 (1.0568)$$

$$A_{of} = \underline{2443} \text{ MCF/D}$$

NOTE: Well blew dry gas thru test.

TESTED BY Hardy

WITNESSED BY _____



William D. Welch

William D. Welch
Well Test Engineer