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EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 12/28/72

Operator EL PASO NATURAL GAS COMPANY		Lease Heaton #29	
Location 1850/S, 1800/E, Sec. 31, T31N, R11W		County San Juan	State NM
Formation Pictured Cliffs <i>EXT.</i>		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2455	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2352	To 2404	Total Depth: 2455	Shut In 12/20/72
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 537	+ 12 = PSIA 549	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 43	+ 12 = PSIA 55	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 66		
Temperature: T = 63 °F	F _t = .9971	n = .85	F _{pv} (From Tables) 1.003	Gravity .635	F _g = .9721

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

$$Q = (12.365)(55)(.9971)(.9721)(1.003) = \underline{661} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{301401}{297045} \right)^n = (661)(1.0147)^{.85} = (661)(1.0125)$$

$$Aof = \underline{669} \text{ MCF/D}$$

NOTE: The well produced a light spray of water throughout the test.

TESTED BY W. D. Welch

WITNESSED BY _____

William D. Welch

William D. Welch
Well Test Engineer

