

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 29, 1973

Operator El Paso Natural Gas Company		Lease Klein #23 (PC)	
Location 1700/N, 1840/W, Sec. 30, T26N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undes. & Blanco	
Casing: Diameter 2.875	Set At: Feet 2440'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2356	To 2370'	Total Depth: 3405	Shut In 9-26-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 557	+ 12 = PSIA 569	Days Shut-In 33	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 111	+ 12 = PSIA 123	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 148		
Temperature: T = 64°F	F _t = .9962	n = .85	F _{pv} (From Tables) 1.011	Gravity .655	F _g = .9498

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

$$Q = (12.365)(123)(.9962)(.9498)(1.011) = \underline{1455} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{323761}{301857} \right)^n = 1455 (1.0726)^{.85} = 1455 (1.0614) = \underline{1544} \text{ MCF/D}$$

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Note: Well produced dry gas.

TESTED BY Norton

WITNESSED BY _____

William D. Welch
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Well Test Engineer

