FORM 23-7 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE October 26, 1973

Operator: El Paso Natural Gas Company		Lease: Klein #21 (PC)	
Location: 1470/N, 1600/W, Sec. 34, T26N, R6W		County: Rio Arriba	State: New Mexico
Formation: Pictured Cliffs		Pool: So. Blanco	
Casing: Diameter: 2.875	Set At: Feet: 2715'	Tubing: Diameter: No Tubing	Set At: Feet:
Pay Zone: From: 2550	To: 2646	Total Depth: 3605	Shut In: 10-3-73
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: 896	+ 12 = PSIA: 908	Days Shut-In: 29	Shut-In Pressure, Tubing PSIG: No Tubing	+ 12 = PSIA:	
Flowing Pressure: P PSIG: 95	+ 12 = PSIA: 107		Working Pressure: Pw PSIG: Calculated	+ 12 = PSIA: 131	
Temperature: T= 58 °F Ft= 1.002	n = .85		Fpv (From Tables): 1.009	Gravity: .650 Fg = .9608	

CHOKE VOLUME = Q = C x P_t x F_t x F_g x F_{pv}

Q = (12.365) (107) (1.002) (.9608) (1.009) = 1285 MCF/D

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

Aof = Q $\left(\frac{824464}{807303} \right)^n$ = 1285 (1.0213) $^{.85}$ = 1285 (1.0180)

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DIST. 3

Aof = 1308 MCF/D

Note: Blew clear gas entire test with heavy rain of frac. sand.

TESTED BY Rhames

WITNESSED BY

William D. Welch

William D. Welch
Well Test Engineer