FORM 29-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE October 15, 1973

Operator: El Paso Natural Gas Company		Lease: Vaughn #24 (CH)	
Location: 790/S, 1450/E, Sec. 27., T26-N, R6W		County: Rio Arriba	State: New Mexico
Formation: Chacra		Pool: Otero	
Casing: Diameter: 2.875	Set At: Feet: 3596'	Tubing: Diameter: No Tubing	Set At: Feet:
Pay Zone: From: 3432	To: 3544	Total Depth: 3596	Shut In: 10-5-73
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: 850	+ 12 = PSIA: 864	Days Shut-In: 10	Shut-in Pressure, Tubing PSIG: No Tubing	+ 12 = PSIA:	
Flowing Pressure: P PSIG: 58	+ 12 = PSIA: 70		Working Pressure: P_w PSIG: Calculated	+ 12 = PSIA: 90	
Temperature: T= 60°F	Ft= 1.000	n = .75	Fpv (From Tables): 1.009	Gravity: .655	Fg = .9571

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

$Q = (12.365)(70)(1.000)(.9571)(1.009) = 836$ MCF/D

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

$Aof = Q \left(\frac{746496}{738396} \right)^n = 836\ (1.0110)^{.75} = 836\ (1.0082)$

$Aof = 843$ MCF/D

Note: Dry Flow.

RECEIVED
OCT 18 1973
OIL CON. COM.
DIST. 3

TESTED BY Rhames

WITNESSED BY

William D. Welch

William D. Welch
Well Test Engineer