FORM 3-75 (12-65)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE December 5, 1973

Operator: El Paso Natural Gas Company		Lease: San Juan 28-4 Unit #37	
Location: 1335/N, 870/E, Sec. 29, T28N, R4W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 8772'	Tubing: Diameter: 1 1/2"	Set At: Feet: 8710'
Pay Zone: From: 8561	To: 8728	Total Depth: 8772	Shut In: 11-22-73
Stimulation Method: Sandwater Frac		Flow Through Casing: X	Flow Through Tubing:

~~MR~~ Choke Size, Inches: Orifice 4"	Orifice 2.500	Choke Constant: C: 32.64	Well Tested thru 48/64 choke
Shut-In Pressure, Casing, PSIG: 2452	+ 12 = PSIA: 2464	Days Shut-In: 13	Shut-In Pressure, Tubing PSIG: 2464 / + 12 = PSIA: 2476
Flowing Pressure: P PSIG: WH 100 MR 35	+ 12 = PSIA: WH 112 MR 47		Working Pressure: P_w PSIG: 335 / + 12 = PSIA: 347
Temperature: T= 54 °F Ft=1.006	n = .75		Fpv (From Tables): 1.004 / Gravity: .650 Fg = .9608

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

Q = Calculated from meter readings = 1195 MCF/D

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

$$Aof = Q\left(\frac{6071296}{5950887}\right)^n = 1195(1.0202)^{.75} = 1195(1.0151)$$

Aof = 1213 MCF/D

Note: Well produced 10 bbl. of water with a trace of oil.

TESTED BY Rhames & Norton

WITNESSED BY

William D. Welch

William D. Welch
Well Test Engineer