

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 23, 1973

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #65	
Location 1760/N, 830/W, Sec. 30, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 3655'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3542	To 3612	Total Depth: 3673	Shut In 10-1-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Mr. <u>Choke Size, Inches</u>	Orifice 2.750	Orifice Choke Constant: C 41.10	Tubingless Completion		
Shut-In Pressure, Casing, 1060	PSIG	+ 12 = PSIA 1072	Days Shut-In 53	Shut-In Pressure, Tubing No Tubing	PSIG + 12 = PSIA
Flowing Pressure: P WH 168 MR 60	PSIG	+ 12 = PSIA WH 180 MR 72		Working Pressure: P _w Calculated	PSIG + 12 = PSIA 218
Temperature: T = 74 °F	F _t = .9868	n = .85		F _{pv} (From Tables) 1.008	Gravity .680 F _g = .9393

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

$$Q = \text{Calculated from meter readings} = \underline{\hspace{2cm}} 1757 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1149184}{1101660} \right)^n = 1757 (1.0431)^{.85} = 1757 (1.0366)$$

$$Aof = \underline{\hspace{2cm}} 1821 \text{ MCF/D}$$

Note: Well produced a trace of water.

TESTED BY C. R. & B.J.B.

WITNESSED BY _____

William D. Welch
 William D. Welch
 Well Test Engineer

