

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 2, 1973

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 149	
Location 1840'S, 1550'E, Section 6, T27N, R5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs <i>Ext.</i>		Pool Tapacito	
Casing: Diameter 2-7/8	Set At: Feet 3458	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3340	To 3381	Total Depth: 3458	Shut In 6-21-73
Stimulation Method SNP		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		Tubingless Completion	
Flowing Pressure: P 196	PSIG + 12 = PSIA 208	Days Since 11	Shut In Pressure: P _{sh} No Tubing	PSIG + 12 = PSIA
Flowing Pressure: P 196	PSIG + 12 = PSIA 208		Working Pressure: P _w Calculated	PSIG + 12 = PSIA 268
Temperature: T = 60 °F	n = .85		F _{pv} (From Tables) 1.020	Gravity .655 F _g = .9571

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

$$Q = (12.365) (208) (1.000) (.9571) (1.020) = 2511 \text{ MCF/D}$$

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

NOTE: Well produced dry gas.

$$Aof = Q \left(\frac{1170724}{1098900} \right)^n = 2511 (1.0654)^{.85} = 2511 (1.0553)$$

$$Aof = 2650 \text{ MCF/D}$$

TESTED BY Carl Rhames

WITNESSED BY _____

William D. Welch
William D. Welch, Well Test Engineer