

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 6, 1973

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 151	
Location 990'S, 1550'E, Section 16, T27N, R5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2-7/8	Set At: Feet 3500	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3410	To 3455	Total Depth: 3500	Shut In 6-27-73
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, 709	PSIG	+ 12 = PSIA 721	Days Shut-In 8	Shut-In Pressure, Tubing No Tubing	PSIG + 12 = PSIA
Flowing Pressure: P 234	PSIG	+ 12 = PSIA 244		Working Pressure: P _w Calculated	PSIG + 12 = PSIA 318
Temperature: T = 64 °F		n = .85		F _{pv} (From Tables) 1.024	Gravity .655 F _g = .9571

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = (12.365) (244) (.9962) (.9571) (1.024) = \underline{2946} \text{ MCF/D}$$

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

NOTE: Well produced dry gas.

$$A_{of} = Q \left(\frac{519841}{418717} \right)^n = (2946) (1.2415)^{.85} = 2946 (1.2019)$$

$$A_{of} = \underline{3540} \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY _____



William D. Welch, Well Test Engineer