

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 8, 1964

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 27-5 Unit No. 94</u>	
Location <u>850'S, 1600'E, Sec. 15, T-27-N, R-5-W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs</u>		Pool <u>Tapacito</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>3542</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet
Pay Zone: From <u>3414</u>	To <u>3474</u>	Total Depth: <u>3545</u>	Shut In <u>6-26-64</u>
Stimulation Method <u>Sand Water Trac</u>		Flow Through Casing <u>X</u>	Flow Through Tubing

Choke Size, Inches <u>0.750</u>		Choke Constant: C <u>12.365</u>		Tubingless Completion	
Shut-In Pressure, Casing, <u>1061</u>	PSIG	+ 12 = PSIA <u>1073</u>	Days Shut-In <u>12</u>	Shut-In Pressure, Tubing <u>No Tubing</u>	PSIG
Flowing Pressure: P <u>94</u>	PSIG	+ 12 = PSIA <u>106</u>		Working Pressure: P _w (Calc.)	PSIG
Temperature: T = <u>60</u> °F		n = <u>.85</u>		F _{pv} (From Tables) <u>1.009</u>	Gravity <u>.650</u>
	F _r = <u>1.0000</u>				F _g = <u>.9608</u>

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = (12.365) (106) (1.0000) (.9608) (1.009) = \underline{1271} \text{ MCF/D}$$

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

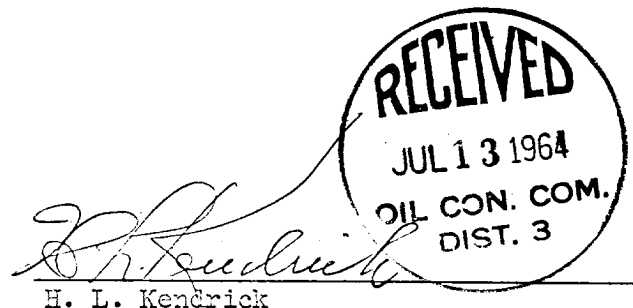
$$Aof = \left(\frac{1151329}{1132560} \right)^n = (1271) (1.0165)^{.85} = (1271) (1.0140)$$

NOTE: Blew small amount of water vapor throughout test.

$$Aof = \underline{1289} \text{ MCF/D}$$

TESTED BY J. B. Goodwin

WITNESSED BY _____

CALCULATED BY H. D. Dawson

H. L. Kendrick