

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 14, 1967

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 28-5 Unit No. 71</u>	
Location <u>San Juan 28-5, Sec. 1, T-1-N, R-9-W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Salt</u>		Pool <u>Basin</u>	
Casing: Diameter <u>2.375</u>	Set At: Feet <u>6131</u>	Tubing: Diameter <u>2.375</u>	Set At: Feet <u>716</u>
Pay Zone: From <u>716</u>	To <u>8054</u>	Total Depth: <u>6131</u>	Shut In <u>7-4-67</u>
Stimulation Method <u>Sand Seal Free</u>		Flow Through Casing	Flow Through Tubing <u>X</u>

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>			
Shut-In Pressure, Casing, PSIG <u>2654</u>	+ 12 = PSIA <u>2653</u>	Days Shut-In <u>16</u>	Shut-In Pressure, Tubing PSIG <u>2654</u>	+ 12 = PSIA <u>2666</u>	
Flowing Pressure: P PSIG <u>346</u>	+ 12 = PSIA <u>346</u>		Working Pressure: P _w PSIG <u>1134</u>	+ 12 = PSIA <u>1146</u>	
Temperature: T = <u>74</u> °F F _t = <u>.9877</u>	n = <u>.75</u>		F _{pv} (From Tables) <u>1.025</u>	Gravity <u>.600</u>	F _g = <u>1.000</u>

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

$$Q = (12.365)(346)(.9877)(1.000)(1.025) = \underline{4331} \text{ MCF/D}$$

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

$$Aof = \left(\frac{7107556}{5794240} \right)^n = (4331)(1.2266)^{.75} = (4331)(1.1655)$$

NOTE: The well produced a light mist of Hydrocarbons throughout the test period.

$$Aof = \underline{5048} \text{ MCF/D}$$

TESTED BY R. E. KendrickWITNESSED BY A. J. IseltOWNED BY E. B. Grant

H. L. Kendrick
H. L. Kendrick

