

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 6-28-71

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 28-6 U. No. 153</u>	
Location <u>1840' S, 925' W, S 25, T28N, R6W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Dakota</u>		Pool <u>Basin</u>	
Casing: Diameter <u>4.500</u>	Set At: Feet <u>7978</u>	Tubing: Diameter <u>1.990</u>	Set At: Feet <u>7922</u>
Pay Zone: From <u>7707</u>	To <u>7922</u>	Total Depth: <u>7978</u>	Shut In <u>6-20-71</u>
Stimulation Method <u>S W F</u>		Flow Through Casing <u>XXX</u>	Flow Through Tubing

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>			
Shut-In Pressure, Casing, PSIG <u>2095</u>	+ 12 = PSIA <u>2107</u>	Days Shut-In <u>8</u>	Shut-In Pressure, Tubing PSIG <u>2095</u>	+ 12 = PSIA <u>2107</u>	
Flowing Pressure: P PSIG <u>350</u>	+ 12 = PSIA <u>362</u>		Working Pressure: Pw PSIG <u>541</u>	+ 12 = PSIA <u>553</u>	
Temperature: T = <u>76</u> °F Ft = <u>.9850</u>	n = <u>.75</u>		Fpv (From Tables) <u>1.029</u>	Gravity <u>.620</u> Fg = <u>.9837</u>	

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

$$Q = 12.365 \times 362 \times .9850 \times .9837 \times 1.029 = \underline{4463} \text{ MCF/D}$$

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

Note: Well blew light spray of water and distillate throughout test.

$$Aof = \left(\frac{4439449}{4133640} \right)^n = 4463(1.0739)^{.75} = 4463(1.0549)$$

$$Aof = \underline{4708} \text{ MCF/D}$$

TESTED BY D. R. Roberts

WITNESSED BY _____



H. L. Kendrick
H. L. Kendrick