

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 3-9-71

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 29-5 Unit No. 52</u>	
Location <u>1650 N. 1450 E. S29, T29N, R5W</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>8212</u>	Tubing: Diameter <u>1.990</u>	Set At: Feet <u>8137</u>
Pay Zone: From <u>8010</u>	To <u>8163</u>	Total Depth: <u>8212</u>	Shut In <u>2-28-71</u>
Stimulation Method <u>S W F</u>		Flow Through Casing <u>XX</u>	Flow Through Tubing

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>			
Shut-In Pressure, Casing, PSIG <u>2605</u>	+ 12 = PSIA <u>2617</u>	Days Shut-In <u>9</u>	Shut-In Pressure, Tubing PSIG <u>2609</u>	+ 12 = PSIA <u>2621</u>	
Flowing Pressure: P PSIG <u>379</u>	+ 12 = PSIA <u>391</u>		Working Pressure: P _w PSIG <u>601</u>	+ 12 = PSIA <u>613</u>	
Temperature: T = <u>73 °F</u>	n = <u>.75</u>		F _{pv} (From Tables) <u>1.029</u>	Gravity <u>.600</u>	F _g = <u>1.000</u>

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

$$Q = (12.365)(391)(.9877)(1.000)(1.029) = \underline{4914} \text{ MCF/D}$$

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

Note: well produced a light to med. spray of wtr & dist throughout the test.

$$Aof = \left(\frac{6869641}{6493872} \right)^n = (4914)(1.0579)^{.75} = (4914)(1.0430)$$

$$Aof = \underline{5126} \text{ MCF/D}$$

TESTED BY Dan R. Roberts

WITNESSED BY _____



H. L. Kendrick
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