

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 14, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 27-5 Unit #159</u>	
Location <u>1450/S, 790/E, Sec. 35, 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>4142'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>----</u>
Pay Zone: From <u>4040'</u>	To <u>4060'</u>	Total Depth: <u>4142'</u> PBTD <u>4132'</u>	Shut In <u>6-4-74</u>
Stimulation Method <u>Sandwater Frac</u>		Flow Through Casing <u>XX</u>	Flow Through Tubing

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>		Tubingless Completion	
Shut-In Pressure, Casing, PSIG <u>703</u>	+ 12 = PSIA <u>715</u>	Days Shut-In <u>10</u>	Shut-In Pressure, Tubing, PSIG <u>No Tubing</u>	+ 12 = PSIA <u>----</u>	
Flowing Pressure: P, PSIG <u>22</u>	+ 12 = PSIA <u>34</u>		Working Pressure: P _w , PSIG <u>Calculated</u>	+ 12 = PSIA <u>45</u>	
Temperature: T = <u>75°F</u>	F _t = <u>.9859</u>	n = <u>.85</u>	F _{pv} (From Tables) <u>1.0040</u>	Gravity <u>.655</u>	F _g = <u>.9571</u>

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

$$Q = 12.365(34)(.9859)(.9571)(1.0040) = \underline{398} \text{ MCF/D}$$

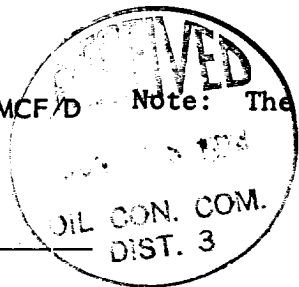
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = Q \left(\frac{511225}{509200} \right)^n = 398(1.0040)^{.85} = 398(1.0034)$$

$$Aof = \underline{399} \text{ MCF/D} \quad \text{Note: The well blew a dry gas.}$$

TESTED BY J. B. Goodwin

WITNESSED BY _____



Loren W Fothergill
Loren W. Fothergill
Well Test Engineer
June 17, 1974