

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 #158</u>	
Location <u>850/S, 1680/E, Sec. 25, 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>4114'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>----</u>
Pay Zone: From <u>3966'</u>	To <u>4020'</u>	Total Depth: <u>4114'</u> PBTD <u>4104'</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>735</u>	+ 12 = PSIA <u>747</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>176</u>	+ 12 = PSIA <u>188</u>		Working Pressure: P <sub>w</sub> PSIG <u>Calculated</u>	+ 12 = PSIA <u>249</u>	
Temperature: T = <u>73°F</u> F <sub>t</sub> = <u>.9877</u>	n = <u>.85</u>		F <sub>pv</sub> (From Tables) <u>1.0170</u>	Gravity <u>.655</u> F <sub>g</sub> = <u>.9571</u>	

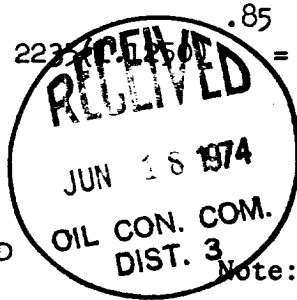
$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = 12.365(188)(.9877)(.9571)(1.0170) = \underline{2235} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{558009}{496008} \right)^{.85} = 2235(1.1053) = \underline{2470} \text{ MCF/D}$$

$$Aof = \underline{2470} \text{ MCF/D}$$



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