

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 5, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 28-7 Unit #206 (PC)</u>	
Location <u>790/N, 1850/E, sec. 20, T27N, R7W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs</u>		Pool <u>So. Blanco</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>3090'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>--</u>
Pay Zone: From <u>2950</u>	To <u>3002</u>	Total Depth: <u>PBTD</u> <u>3090'</u> <u>3079'</u>	Shut In <u>10-3-74</u>
Stimulation Method <u>Sandwater Frac</u>		Flow Through Casing <u>XX</u>	Flow Through Tubing

Choke Size, Inches <u>0.750</u>		Choke Constant: C <u>12.365</u>		Tubingless Completion	
Shut-In Pressure, Casing, PSIG <u>911</u>	+ 12 = PSIA <u>923</u>	Days Shut-In <u>33</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA <u>--</u>	
Flowing Pressure: P PSIG <u>98</u>	+ 12 = PSIA <u>110</u>		Working Pressure: Pw PSIG <u>Calculated</u>	+ 12 = PSIA <u>138</u>	
Temperature: T = <u>60 °F</u> Ft = <u>1.0000</u>	n = <u>.85</u>		Fpv (From Tables) <u>1.009</u>	Gravity <u>.660</u> Fg = <u>0.9535</u>	

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

$$Q = 12.365(110)(1.0000)(0.9535)(1.009) = \underline{1309} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{851929}{832885} \right)^n = 1309(1.0229)^{.85} = 1309(1.0194)$$

$$Aof = \underline{1334} \text{ MCF/D}$$

Note: The well produced dry gas throughout the test.

TESTED BY Carl Rhames

WITNESSED BY _____

H. E. McAnally
Well Test Engineer