

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE September 11, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 28-6 Unit #192</u>	
Location <u>1450/N, 970/W, Sec. 12, T2/N, R6W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliff</u>		Pool <u>So. Blanco</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>3347'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>--</u>
Pay Zone: From <u>3196</u>	To <u>3260</u>	Total Depth: <u>PBTD</u> <u>3347' 3336'</u>	Shut In <u>8-30-74</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>748</u>	+ 12 = PSIA <u>760</u>	Days Shut-In <u>12</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA <u>--</u>	
Flowing Pressure: P PSIG <u>47</u>	+ 12 = PSIA <u>59</u>		Working Pressure: P <sub>w</sub> PSIG <u>Calculated</u>	+ 12 = PSIA <u>75</u>	
Temperature: T = <u>60 °F</u>	n = <u>.85</u>		F <sub>pv</sub> (From Tables) <u>1.007</u>	Gravity <u>.625</u>	F <sub>g</sub> = <u>.9798</u>

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

$$Q = 12.365(59)(1.000)(.9798)(1.007) = \underline{\hspace{2cm}} 719 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{577600}{571975} \right)^{.85} = 719(1.0098)^{.85} = 719(1.0083)$$

$$Aof = \underline{\hspace{2cm}} 725 \text{ MCF/D}$$

Note: Well blew dry gas throughout test.

TESTED BY R. R. Hardy

WITNESSED BY \_\_\_\_\_

*Loren W. Fothergill*  
Loren W. Fothergill  
Well Test Engineer

*CRW*