

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE September 10, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 28-6 Unit #189</u>	
Location <u>815/S, 1710/E, Sec. 2, T27N, R6W</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>3548'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>--</u>
Pay Zone: From <u>3428'</u>	To <u>3494'</u>	Total Depth: <u>PBTD</u> <u>3548' 3537'</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>495</u>	+ 12 = PSIA <u>507</u>	Days Shut-In <u>11</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA <u>--</u>	
Flowing Pressure: P PSIG <u>25</u>	+ 12 = PSIA <u>37</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>48</u>	
Temperature: T = <u>63 °F</u> F _g = <u>.9971</u>	n = <u>.85</u>		F _{pv} (From Tables) <u>1.007</u>	Gravity <u>.625</u> F _g = <u>0.9798</u>	

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

$$Q = 12.365 (37) (.9971) (.9798) (1.007) = \underline{\quad 450 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{257049}{254745} \right)^n = 450 (1.009)^{.85} = 450 (1.008)$$

$$Aof = \underline{\quad 453 \quad} \text{ MCF/D}$$

Note: Blew dry gas throughout test.

TESTED BY R. R. Hardy

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer CRW

