

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE June 18, 1974

Operator <b>El Paso Natural Gas Company</b>		Lease <b>San Juan 28-6 Unit #206</b>	
Location <b>1925/N, 1190/E, Sec. 10, T27N, R6W</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Dakota</b>		Pool <b>Basin</b>	
Casing: Diameter <b>4.500</b>	Set At: Feet <b>7503'</b>	Tubing: Diameter <b>1.990</b>	Set At: Feet <b>7469'</b>
Pay Zone: From <b>7254'</b>	To <b>7462'</b>	Total Depth: <b>PBTD</b> <b>7503' 7488'</b>	Shut In <b>5-27-74</b>
Stimulation Method <b>Sandwater Frac</b>		Flow Through Casing <b>XX</b>	Flow Through Tubing

Choke Size, Inches <b>.750</b>		Choke Constant: C <b>12.365</b>			
Shut-In Pressure, Casing, PSIG <b>2687</b>	+ 12 = PSIA <b>2699</b>	Days Shut-In <b>22</b>	Shut-In Pressure, Tubing PSIG <b>2687</b>	+ 12 = PSIA <b>2699</b>	
Flowing Pressure: P PSIG <b>448</b>	+ 12 = PSIA <b>460</b>		Working Pressure: P <sub>w</sub> PSIG <b>758</b>	+ 12 = PSIA <b>770</b>	
Temperature: T = <b>82 °F</b>	F <sub>t</sub> = <b>.9795</b>	n = <b>.75</b>	F <sub>pv</sub> (From Tables) <b>1.0350</b>	Gravity <b>.620</b>	F <sub>g</sub> = <b>.9837</b>

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

$$Q = 12.365(460)(.9795)(.9837)(1.0350) = \underline{\quad 5672 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{7284601}{6691701} \right)^n = 5672(1.0886)^{.75} = 5672(1.065)$$

$$Aof = \underline{\quad 6045 \quad} \text{ MCF/D}$$



Note: The well unloaded medium to heavy fog of distillate and water for approximately 8 minutes.

TESTED BY D. Norton

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

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