

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 1, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Canyon Largo Unit #203</u>	
Location <u>1480/S, 1740/W, Sec. 10, T25N, 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>2868'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>--</u>
Pay Zone: From <u>2748</u>	To <u>2822</u>	Total Depth: <u>PBTD</u> <u>2868'</u> <u>2858'</u>	Shut In <u>4-16-74</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>646</u>	+ 12 = PSIA	Days Shut-In <u>14</u>	Shut-In Pressure, Tubing, PSIG <u>No Tubing</u>	+ 12 = PSIA	<u>--</u>
Flowing Pressure: P, PSIG <u>161</u>	+ 12 = PSIA	Working Pressure: P _w , PSIG <u>Calculated</u>	+ 12 = PSIA	<u>215</u>	
Temperature: T = <u>61</u> °F	F _t = <u>.9990</u>	n = <u>.85</u>	F _{pv} (From Tables) <u>1.020</u>	Gravity <u>.700</u>	F _g = <u>.9258</u>

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

$$Q = 12.365(173)(.9990)(.9258)(1.020) = \underline{\hspace{2cm}} 2018 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{432964}{386739} \right)^n = 2018(1.1195)^{.85} = 2018(1.1007)$$

$$Aof = \underline{\hspace{2cm}} 2221 \text{ MCF/D}$$

Note: The well produced a light mist of water.

TESTED BY Fothergill

WITNESSED BY _____

Loren W Fothergill
Loren W. Fothergill
Well Test Engineer