

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE October 26, 1973

Operator <b>El Paso Natural Gas Company</b>		Lease <b>Vaughn #25 (PC)</b>	
Location <b>1180/N, 1180/E, Sec. 28, T26N, R6W</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Pictured Cliffs</b>		Pool <b>So. Blanco</b>	
Casing: Diameter <b>2.875</b>	Set At: Feet <b>3046'</b>	Tubing: Diameter <b>No Tubing</b>	Set At: Feet
Pay Zone: From <b>2448</b>	To <b>2964'</b>	Total Depth: <b>3945</b>	Shut In <b>10-8-73</b>
Stimulation Method <b>Sandwater Frac</b>		Flow Through Casing <b>X</b>	Flow Through Tubing

Choke Size, Inches <b>.750</b>		Choke Constant: C <b>12.365</b>		Tubingless Completion	
Shut-In Pressure, Casing, PSIG <b>940</b>	+ 12 = PSIA <b>952</b>	Days Shut-In <b>17</b>	Shut-In Pressure, Tubing PSIG <b>No Tubing</b>	+ 12 = PSIA	
Flowing Pressure: P PSIG <b>81</b>	+ 12 = PSIA <b>93</b>		Working Pressure: P <sub>w</sub> PSIG <b>Calculated</b>	+ 12 = PSIA <b>116</b>	
Temperature: T = <b>58°F</b>	n = <b>.85</b>		F <sub>pv</sub> (From Tables) <b>1.009</b>	Gravity <b>.670</b>	F <sub>g</sub> = <b>.9463</b>

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

$$Q = (12.365) (93) (1.002) (.9463) (1.009) = \underline{1100} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{906304}{892848} \right)^n = 1100 (1.0151)^{.85} = 1100 (1.0128)$$

$$Aof = \underline{1114} \text{ MCF/D}$$

Note: Well produced dry gas.



TESTED BY \_\_\_\_\_

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

*William D. Welch*  
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William D. Welch  
Well Test Engineer