

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE April 8, 1974

Operator <b>El Paso Natural Gas Company</b>		Lease <b>Murphy "E" #3</b>	
Location <b>990/N, 830/E, Sec. 33, T30N, R11W</b>		County <b>San Juan</b>	State <b>New Mexico</b>
Formation <b>Pictured Cliffs</b>		Pool <b>Aztec</b>	
Casing: Diameter <b>2.875</b>	Set At: Feet <b>2409'</b>	Tubing: Diameter <b>No Tubing</b>	Set At: Feet <b>--</b>
Pay Zone: From <b>2280'</b>	To <b>2310'</b>	Total Depth: <b>PBTD</b> <b>2413 2409</b>	Shut In <b>4-1-74</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>		Tubingless Completion	
Shut-In Pressure, Casing, PSIG <b>382</b>	+ 12 = PSIA <b>394</b>	Days Shut-In <b>7</b>	Shut-In Pressure, Tubing PSIG <b>No Tubing</b>	+ 12 = PSIA <b>--</b>	
Flowing Pressure: P PSIG <b>120</b>	+ 12 = PSIA <b>132</b>		Working Pressure: P <sub>w</sub> PSIG <b>Calculated</b>	+ 12 = PSIA <b>150</b>	
Temperature: T = <b>63 °F</b>	n = <b>.85</b>		F <sub>pv</sub> (From Tables) <b>1.012</b>	Gravity <b>.635</b>	F <sub>g</sub> = <b>.9721</b>

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

$$Q = 12.365(132)(.9971)(.9721)(1.012) = \underline{\quad 1601 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{155236}{129955} \right)^n = 1601 (1.1945)^{.85} = 1601(1.1631)$$

$$Aof = \underline{\quad 1862 \quad} \text{ MCF/D}$$

Note: The well produced a very light mist of oil.

TESTED BY Rhames

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

Loren W. Fothergill  
Loren W. Fothergill  
Well Test Engineer

