

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE March 26, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Smyers Com A #2</u>	
Location <u>1160/N, 1480/W, Sec. 2, T31N, R11W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs <i>Egt</i></u>		Pool <u>Blanco</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>2860'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet
Pay Zone: From <u>2710</u>	To <u>2767</u>	Total Depth: <u>PBTD</u> <u>2870 2860</u>	Shut In <u>3-19-74</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>938</u>	+ 12 = PSIA <u>950</u>	Days Shut-In <u>7</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA	
Flowing Pressure: P PSIG <u>125</u>	+ 12 = PSIA <u>137</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>170</u>	
Temperature: T = <u>63</u> °F	F _t = <u>.9971</u>	n = <u>.85</u>	F _{pv} (From Tables) <u>1.013</u>	Gravity <u>.665</u>	F _g = <u>.9498</u>

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

$$Q = 12.365(137)(.9971)(.9498)(1.013) = \underline{1625} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{902500}{873600} \right)^n = 1625 (1.0331)^{.85} = 1625(1.0281)$$

$$Aof = \underline{1671} \text{ MCF/D}$$

Note: Well produced a dry gas.

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

