

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE March 26, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Thurston #2</u>	
Location <u>1180/N, 1180 E, Sec. 31, T31N, R11W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs <i>Ext.</i></u>		Pool <u>Aztec</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>2406'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet
Pay Zone: From <u>2314</u>	To <u>2330</u>	Total Depth: <u>PBTD</u> <u>2415 2395</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>514</u>	+ 12 = PSIA <u>526</u>	Days Shut-In <u>7</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA	
Flowing Pressure: P PSIG <u>38</u>	+ 12 = PSIA <u>50</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>60</u>	
Temperature: T = <u>61 °F</u> F _t = <u>.9990</u>	n = <u>.85</u>		F _{pv} (From Tables) <u>1.004</u>	Gravity <u>.655</u> F _g = <u>.9571</u>	

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

$$Q = 12.365 (50) (.9990) (.9571) (1.004) = \underline{\quad 593 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{276676}{273076} \right)^n = 593 (1.0132)^{.85} = 593 (1.0112)$$

$$Aof = \underline{\quad 600 \quad} \text{ MCF/D}$$

Note: Well produced a dry gas.

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

