

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 5, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Calloway #3</u>	
Location <u>920/S, 1460/E, Sec. 34, T31N, R11W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs</u>		Pool <u>Aztec</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>2421'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>--</u>
Pay Zone: From <u>2244</u>	To <u>2280</u>	Total Depth: <u>PBTD</u> <u>2421 2411</u>	Shut In <u>3-29-74</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>518</u>	+ 12 = PSIA <u>530</u>	Days Shut-In <u>7</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA <u>--</u>	
Flowing Pressure: P PSIG <u>13</u>	+ 12 = PSIA <u>25</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>30</u>	
Temperature: T = <u>64</u> °F	F _t = <u>.9962</u>	n = <u>.85</u>	F _{pv} (From Tables) <u>1.003</u>	Gravity <u>.635</u>	F _g = <u>.9721</u>

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

$$Q = 12.365(25)(.9962)(.9721)(1.003) = \underline{\quad 300 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{280900}{280000} \right)^n = 300(1.0032)^{.85} = 300 (1.0027)$$

$$Aof = \underline{\quad 301 \quad} \text{ MCF/D}$$

Note: The well produced a dry flow.

TESTED BY Rhames

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

