

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 27, 1973

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Lindrith Unit # 74</u>	
Location <u>1700/N, 890/E Sec. 20, T-24N, R-2W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs</u>		Pool <u>So. Blanco</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>3236'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet
Pay Zone: From <u>3090'</u>	To <u>3142'</u>	Total Depth: <u>3236'</u>	Shut In <u>8-20-73</u>
Stimulation Method <u>Sand Water Frac</u>		Flow Through Casing <u>X</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>891</u>	+ 12 = PSIA <u>903</u>	Days Shut-In <u>7</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA	
Flowing Pressure: P PSIG <u>48</u>	+ 12 = PSIA <u>60</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>76</u>	
Temperature: T = <u>59 °F</u>	n = <u>.85</u>		F _{pv} (From Tables) <u>1.004</u>	Gravity <u>.665</u>	F _g = <u>.9498</u>

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

$$Q = (12.365) (60) (1.001) (.9498) (1.004) = \underline{708} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{815409}{809633} \right)^n = 708 (1.0071)^{.85} = 708 (1.0061)$$

$$Aof = \underline{712} \text{ MCF/D}$$

Note: Well produced a very light fog of water through-out the test.

TESTED BY Broughton

WITNESSED BY _____

William D. Welch
Well Test Engineer

