

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 20, 1975

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Lindrith Unit #83</u>	
Location <u>990/N, 950/W, Sec. 13, T24N, R3W</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>3242'</u>	Tubing: Diameter <u>No tubing</u>	Set At: Feet <u>--</u>
Pay Zone: From <u>3117</u>	To <u>3182'</u>	Total Depth: <u>PBTD</u> <u>3242' 3232'</u>	Shut In <u>8-12-75</u>
Stimulation Method <u>Sandwater Frac</u>		Flow Through Casing <u>XX</u>	Flow Through Tubing

Choke Size, Inches <u>0.750</u>		Choke Constant: C <u>12.365</u>		Tubingless Completion	
Shut-In Pressure, Casing, PSIG <u>1003</u>	+ 12 = PSIA <u>1015</u>	Days Shut-In <u>8</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA <u>--</u>	
Flowing Pressure: P PSIG <u>25</u>	+ 12 = PSIA <u>37</u>		Working Pressure: Pw PSIG <u>Calculated</u>	+ 12 = PSIA <u>47</u>	
Temperature: T = <u>58</u> °F	n = <u>0.85</u>		Fpv (From Tables) <u>1.004</u>	Gravity <u>.665</u>	Fg = <u>.9498</u>
	Ft = <u>1.002</u>				

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

$$Q = (12.365)(37)(1.002)(.9498)(1.004)$$

$$= \underline{437} \text{ MCF/D}$$

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

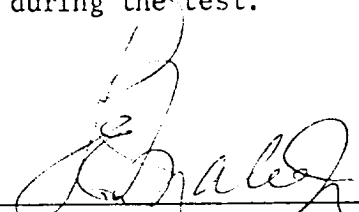
$$Aof = Q \left(\frac{1030225}{1028016} \right)^n = (437)(1.0021)^{.85} = (437)(1.0018)$$

$$Aof = \underline{438} \text{ MCF/D}$$

TESTED BY Johnson

WITNESSED BY _____

Note: The well blew a light fog of water throughout the test. 65.47 MCF of gas was blown to the atmosphere during the test.


Well Test Engineer
