

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE December 10, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Lindrith Unit #58</u>	
Location <u>1150/S, 990/W, Sec. 20, T24N, R2W</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>3160'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>--</u>
Pay Zone: From <u>3070'</u>	To <u>3094'</u>	Total Depth: <u>PBTD</u> <u>3160' 3150'</u>	Shut In <u>11-7-74</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>989</u>	+ 12 = PSIA <u>1001</u>	Days Shut-In <u>33</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA <u>--</u>	
Flowing Pressure: P PSIG <u>43</u>	+ 12 = PSIA <u>55</u>		Working Pressure: Pw PSIG <u>Calculated</u>	+ 12 = PSIA <u>70</u>	
Temperature: <u>T = 50 °F</u>	n = <u>Ft = 1.010 .85</u>		Fpv (From Tables) <u>1.004</u>	Gravity <u>.655</u>	<u>Fg = 0.9498</u>

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

$$Q = 12.365(55)(1.010)(0.9498)(1.004) = \underline{655} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{1002001}{997101} \right)^n = 655(1.0049)^{.85} = 655(1.0042)$$

$$Aof = \underline{658} \text{ MCF/D}$$

Note: The well blew clear gas during entire test.

TESTED BY Jesse B. Goodwin

WITNESSED BY \_\_\_\_\_

Loren W. Fothergill  
Loren W. Fothergill  
Well Test Engineer

