

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 #82</u>	
Location <u>815'/N, 1050'/E, 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>3316'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet
Pay Zone: From <u>3241'</u>	To <u>3268'</u>	Total Depth: <u>PBTD</u> <u>3316'</u> <u>3305'</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>835</u>	+ 12 = PSIA <u>847</u>	Days Shut-In <u>8</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA	
Flowing Pressure: P PSIG <u>54</u>	+ 12 = PSIA <u>66</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>84</u>	
Temperature: T = <u>59</u> °F	n = <u>0.85</u>		Fpv (From Tables) <u>1.009</u>	Gravity <u>.650</u>	F _g = <u>.9608</u>

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

$$Q = (12.365)(66)(1.001)(.9608)(1.009) = \underline{792} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{717409}{710353} \right)^n = (792)(1.0099)^{.85} = (792)(1.0089)$$

$$Aof = \underline{799} \text{ MCF/D}$$

Note: The well blew 112.50 MCF of dry gas to the atmosphere during test.

TESTED BY Johnson

WITNESSED BY _____

[Signature]
Well Test Engineer

