

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 22, 1975

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Scott #9</u>	
Location <u>830/N, 1500/W, Sec. 17, T31N, R10W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs</u>		Pool <u>Blanco</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>2968'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>--</u>
Pay Zone: From <u>2762</u>	To <u>2818'</u>	Total Depth: <u>PBTD</u> <u>2968' 2957'</u>	Shut In <u>10-8-75</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>892</u>	+ 12 = PSIA <u>904</u>	Days Shut-In <u>13</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA <u>--</u>	
Flowing Pressure: P PSIG <u>108</u>	+ 12 = PSIA <u>120</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>149</u>	
Temperature: <u>T = 61 °F</u>	F _t = <u>.9990</u>	n = <u>.85</u>	F _{pv} (From Tables) <u>1.012</u>	Gravity <u>.635</u>	F _g = <u>.9721</u>

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

$$Q = 12.365(120)(.9990)(.9721)(1.012) = \underline{1458} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{817216}{795015} \right)^n = (1458)(1.028)^{.85} (1458)(1.023)$$

$$Aof = \underline{1492} \text{ MCF/D}$$

Note: Dry flow throughout test. Gas
 vented to atmosphere = 193 MCF.

TESTED BY Frank Johnson

WITNESSED BY _____

C.R. Higgins
 Well Test Engineer

