

009

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 12/28/72

Operator <u>EL PASO NATURAL GAS COMPANY</u>		Lease <u>Elliott "A" #2</u>	
Location <u>990/S, 800/W, Sec. 19, T31N, R11W</u>		County <u>San Juan</u>	State <u>NM</u>
Formation <u>Pictured Cliffs</u>		Pool <u>Aztec</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>2665</u>	Tubing: Diameter <u>No tubing</u>	Set At: Feet
Pay Zone: From <u>2472</u>	To <u>2508</u>	Total Depth: <u>2665</u>	Shut In <u>12/20/72</u>
Stimulation Method <u>SWF</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>611</u>	+ 12 = PSIA <u>623</u>	Days Shut-In <u>8</u>	Shut-In Pressure, Tubing PSIG <u>No tubing</u>	+ 12 = PSIA	
Flowing Pressure: P PSIG <u>115</u>	+ 12 = PSIA <u>127</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>155</u>	
Temperature: T = <u>64</u> °F	F _t = <u>.9962</u>	n = <u>.85</u>	F _{pv} (From Tables) <u>1.011</u>	Gravity <u>.635</u>	F _g = <u>.9721</u>

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

$$Q = (12.365)(127)(.9962)(.9721)(1.011) = \underline{1537} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{388129}{364104} \right)^n = (1537)(1.0660)^{.85} = (1537)(1.0558)$$

$$Aof = \underline{1623} \text{ MCF/D}$$

NOTE: Well produced a fine spray of water and distillate throughout test.

TESTED BY J. A. Jones

WITNESSED BY _____

J. A. Jones
J. A. Jones
Well Test Engineer

