

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 26, 1973

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Grambling "A" No. 9</u>	
Location <u>1070'N, 1030'E, Section 28, T28N, R8W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs</u>		Pool <u>South Blanco</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>2707</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet
Pay Zone: From <u>2566</u>	To <u>2628</u>	Total Depth: <u>2707</u>	Shut In <u>4-16-73</u>
Stimulation Method <u>SWF</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>940</u>	+ 12 = PSIA <u>952</u>	Days Shut-In <u>10</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA
Flowing Pressure: P PSIG <u>105</u>	+ 12 = PSIA <u>117</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>144</u>
Temperature: T = <u>61</u> °F	n = <u>.85</u>		F _{pv} (From Tables) <u>1.010</u>	Gravity <u>.645</u> F _g = <u>.9645</u>

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

$$Q = (12.365)(117)(.9990)(.9645)(1.010) = \underline{1408} \text{ MCF/D}$$

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

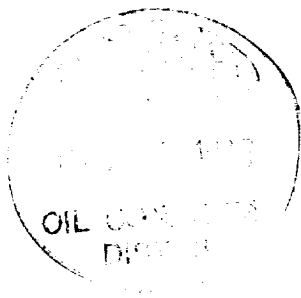
NOTE: The well produced dry gas

$$Aof = Q \left(\frac{906304}{885568} \right)^n = 1408 (1.0234)^{.85} = 1408 (1.0199)$$

$$Aof = \underline{1437} \text{ MCF/D}$$

TESTED BY D. Norton

WITNESSED BY _____



William D. Welch
William D. Welch, Well Test Engineer