

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE May 10, 1973

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Roelofs No. 5</u>	
Location <u>850'S, 1800'E, Section 15, T29N, R8W</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>3503</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet
Pay Zone: From <u>3418</u>	To <u>3436</u>	Total Depth: <u>3503</u>	Shut In <u>5-2-73</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>1032</u>	+ 12 = PSIA <u>1044</u>	Days Shut-In <u>8</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA	
Flowing Pressure: P PSIG <u>102</u>	+ 12 = PSIA <u>114</u>		Working Pressure: P <sub>w</sub> PSIG <u>Calculated</u>	+ 12 = PSIA <u>147</u>	
Temperature: T = <u>59</u> °F	n = <u>0.85</u>		F <sub>pv</sub> (From Tables) <u>1.010</u>	Gravity <u>.645</u>	F <sub>g</sub> = <u>.9645</u>

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

$$Q = (12.365) (114) (1.0010) (.9645) (1.010) = \underline{1374} \text{ MCF/D}$$

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

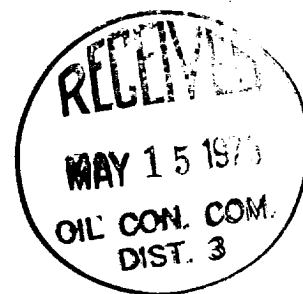
NOTE: Well produced very light fog throughout test

$$Aof = Q \left( \frac{1089936}{1068327} \right)^n = (1374) (1.0202)^{.85} = (1374) (1.0172)$$

$$Aof = \underline{1398} \text{ MCF/D}$$

TESTED BY Bobby Broughton

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



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