

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 25, 1973

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Sunray II # 5</u>	
Location <u>825/S, 1500/A, Sec 11, T-30N, R-10W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs Fm.</u>		Pool <u>Blanco</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>3431</u>	Tubing: Diameter <u>No tubing</u>	Set At: Feet <u></u>
Pay Zone: From <u>3322</u>	To <u>3342</u>	Total Depth: <u>3431</u>	Shot In: <u>6-11-73</u>
Stimulation Method <u>S.V.E.</u>		Flow Through Casing <u>XX</u>	Flow Through Tubing <u></u>

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.965</u>		Tubingless Coefficient <u></u>	
Shut-In Pressure, Casing, PSIG <u>1087</u>	+ 12 = PSIA <u>1099</u>	Days Shut-In <u>14</u>	Shut-In Pressure, Tubing, PSIG <u>No tubing</u>	+ 12 = PSIA <u></u>	
Flowing Pressure: P, PSIG <u>152</u>	+ 12 = PSIA <u>164</u>		Working Pressure: P _w , PSIG <u>Calculated</u>	+ 12 = PSIA <u>185</u>	
Temperature: T = <u>64</u> °F	n = <u>.85</u>		F _{pv} (From Tables) <u>1.013</u>	Gravity <u>.635</u>	F _g <u>1.021</u>

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = (12.965)(14)(.9962)(.9721)(1.013) = \underline{1747} \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n \quad \text{NOTE: Well produced dry gas.}$$

$$Aof = 1747 \left(\frac{127801}{1273976} \right)^{.85} = 1747(1.0292) = 1747(1.0247)$$

$$Aof = \underline{1790} \text{ MCF/D}$$

TESTED BY Carl Thomas

WITNESSED BY _____

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

