

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 6-28-73

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 28-6 Unit 98 Y</u>	
Location <u>1150/N, 800/E Sec. 3, T-27N, R6W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Basin</u>		Pool <u>Dakota</u>	
Casing: Diameter <u>4 1/2</u>	Set At: Feet <u>7553</u>	Tubing: Diameter <u>1 1/2</u>	Set At: Feet <u>7526</u>
Pay Zone: From <u>7321</u>	To <u>7549</u>	Total Depth: <u>7553</u>	Shut In <u>6-9-73</u>
Stimulation Method <u>SNT</u>		Flow Through Casing <u>X</u>	Flow Through Tubing

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>			
Shut-In Pressure, Casing, PSIG <u>2648</u>	+ 12 = PSIA <u>2660</u>	Days Shut-In <u>19</u>	Shut-In Pressure, Tubing PSIG <u>2391</u>	+ 12 = PSIA <u>2401</u>	
Flowing Pressure: P PSIG <u>444</u>	+ 12 = PSIA <u>456</u>		Working Pressure: P _w PSIG <u>768</u>	+ 12 = PSIA <u>780</u>	
Temperature: T = <u>78</u> °F	F _t = <u>.9831</u>	n = <u>.75</u>	F _{pv} (From Tables) <u>1.037</u>	Gravity <u>.620</u>	F _g = <u>.9837</u>

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

$$Q = (12.365)(456)(.9831)(.9837)(1.037) = \underline{5655} \text{ MCF/D}$$

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

NOTE: Light mist of dist. thru test.

$$Aof = Q \left(\frac{7075600}{6467200} \right)^n = 5655(1.0941)^{.75} = 5655(1.0698)$$

$$Aof = \underline{6049} \text{ MCF/D}$$

TESTED BY Rhames

WITNESSED BY _____

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