

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 17, 1973

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 27-4 Unit #64</u>	
Location <u>1700/N, 790/W, Sec. 19, T27N, R4W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs</u>		Pool <u>Tapacito</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>3647'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet
Pay Zone: From <u>3494</u>	To <u>3544'</u>	Total Depth: <u>3647</u>	Shut In <u>9-18-73</u>
Stimulation Method <u>Sandwater Frac</u>		Flow Through Casing <u>X</u>	Flow Through Tubing

MR Choke Size, Inches <u>4"</u>	Orifice <u>2.500</u>	Orifice Choke Constant: C <u>32.64</u>	Well tested thru <u>48/64</u> choke	
Shut-In Pressure, Casing, PSIG <u>1062</u>	+ 12 = PSIA <u>1074</u>	Days Shut-In- <u>29</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA
Flowing Pressure: P PSIG <u>WH 102 MR 37</u>	+ 12 = PSIA <u>WH 114 MR 49</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>151</u>
Temperature: <u>T = 70 °F</u>	n = <u>1.85</u>		F _{pv} (From Tables) <u>1.004</u>	Gravity <u>.680</u> F _g = <u>.9393</u>

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

$$Q = \text{Calculated from meter readings} = \underline{\quad 1406 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1153476}{1130675} \right)^n = 1406 (1.0202)^{.85} = 1406 (1.0171)$$

$$Aof = \underline{\quad 1430 \quad} \text{ MCF/D}$$

Note: Well produced 2 bbl. of liquid with a trace of oil.

TESTED BY B.J.B. & D. N.

WITNESSED BY _____

William D. Welch
William D. Welch
Well Test Engineer

