

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE October 24, 1973

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 27-5 Unit #162</u>	
Location <u>1560/S, 850/E, Sec. 27, T27N, R5W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs</u>		Pool <u>Tapacito</u>	
Casing: Diameter <u>2 7/8</u>	Set At: Feet <u>3432'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet
Pay Zone: From <u>3292</u>	To <u>3368</u>	Total Depth: <u>3432</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>	Tubingless Completion	
Shut-In Pressure, Casing, PSIG <u>884</u>	+ 12 = PSIA <u>896</u>	Days Shut-In <u>36</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA
Flowing Pressure: P PSIG <u>WH 41 MR 11</u>	+ 12 = PSIA <u>WH 53 MR 23</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>64</u>
Temperature: T = <u>60°F</u>	F _t = <u>1.000</u>	n = <u>.85</u>	F _{pv} (From Tables) <u>1.004</u>	Gravity <u>.655</u> F _g = <u>.9571</u>

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

$$Q = \text{Calculated from meter readings} = \underline{\hspace{2cm}} \underline{531} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{802816}{798720} \right)^n = 531 (1.0051)^{.85} = 531 (1.0044)$$

$$Aof = \underline{\hspace{2cm}} \underline{533} \text{ MCF/D}$$

Note: Well produced a trace of water.

TESTED BY B.J.B.

WITNESSED BY _____

William D. Welch
William D. Welch
Well Test Engineer

