

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE Sept. 24, 1979

Operator <u>El Paso Exploration Company</u>		Lease <u>Jicarilla 123C #27</u>	
Location <u>NW 6-25-4</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Dakota</u>		Pool <u>Basin</u>	
Casing: Diameter <u>4.500</u>	Set At: Feet <u>7712</u>	Tubing: Diameter <u>2 3/8</u>	Set At: Feet <u>7597</u>
Pay Zone: From <u>7422</u>	To <u>7596</u>	Total Depth: <u>7712</u>	Shut In <u>9-14-79</u>
Stimulation Method <u>Sand Water Frac</u>		Flow Through Casing	Flow Through Tubing

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>			
Shut-In Pressure, Casing, <u>1832</u> PSIG	+ 12 = PSIA <u>1844</u>	Days Shut-In <u>10</u>	Shut-In Pressure, Tubing <u>1832</u> PSIG	+ 12 = PSIA <u>1844</u>	
Flowing Pressure: P <u>137</u> PSIG	+ 12 = PSIA <u>149</u>		Working Pressure: P _w <u>1422</u> PSIG	+ 12 = PSIA <u>1434</u>	
Temperature: T = <u>60</u> °F	F _t = <u>1.000</u>	n = <u>.75</u>	F _{pv} (From Tables) <u>1.013</u>	Gravity <u>.650</u>	F _g = <u>.9608</u>

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

$$Q = (12.365)(149)(1.000)(.9608)(1.013) = \underline{1793} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3400336}{1343980} \right)^{.75} = (2.5300)^{.75} (1793) = (2.0061)(1793)$$

NOTE: Well Blew A Very Light Fog of Distillate - For 1 Hour During The Test and Vented 19 MCF to The Atmosphere

$$Aof = \underline{3597} \text{ MCF/D}$$

TESTED BY L. Nations

WITNESSED BY _____

C. R. Wagner
Well Test Engineer