

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE January 2, 1980

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Case #6A (MV)</u>	
Location <u>SE 5-31-11</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Mesa Verde</u>		Pool <u>Blanco</u>	
Casing: Diameter <u>4.500</u>	Set At: Feet <u>5469</u>	Tubing: Diameter <u>2 3/8</u>	Set At: Feet <u>5396</u>
Pay Zone: From <u>5099</u>	To <u>5421</u>	Total Depth: <u>5469</u>	Shut In <u>12-13-79</u>
Stimulation Method <u>Sand Water Frac</u>		Flow Through Casing	Flow Through Tubing <u>XXX</u>

Choke Size, Inches <u>.750</u>		Choke Constant: C	
Shut-In Pressure, Casing, <u>---</u> PSIG	+ 12 = PSIA <u>---</u>	Days Shut-In <u>20</u>	Shut-In Pressure, Tubing <u>502</u> PSIG
			+ 12 = PSIA <u>514</u>
Flowing Pressure: P <u>218</u> PSIG	+ 12 = PSIA <u>230</u>	Working Pressure: P _w <u>Calc.</u> PSIG	+ 12 = PSIA <u>462</u>
Temperature: <u>T = 46 °F</u>	n = <u>.75</u>	F _{pv} (From Tables) <u>1.025</u>	Gravity <u>.650</u>
	F _t = <u>1.014</u>		F _g = <u>9608</u>

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

$$Q = (12.365) (230) (1.014) (.9608) (1.025) = \underline{2840} \text{ MCF/D}$$

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

$$Aof = \left(\frac{264196}{50752} \right)^n = (5.2056)^{.75} (2840) = (3.4463) (2840)$$

NOTE: Well Blew Light Fog of Water Throughout Test and Vented 269 MCF To The Atmosphere During Test.

$$Aof = \underline{9788} \text{ MCF/D}$$

TESTED BY C. Rhames

WITNESSED BY _____

C.R. Wagner
Well Test Engineer