

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 9-14-70

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 30-6 Unit No. 90 (CMTW)</u>	
Location <u>1650 S. 990 W., S 36, T30N, R6W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Mesa Verde</u>		Pool <u>Placero</u>	
Casing: Diameter <u>4.500</u>	Set At: Feet <u>6137</u>	Tubing: Diameter <u>2.375</u>	Set At: Feet <u>5993</u>
Pay Zone: From <u>5372</u>	To <u>6006</u>	Total Depth: <u>6137</u>	Shut In <u>9-5-70</u>
Stimulation Method <u>S W F</u>		Flow Through Casing	Flow Through Tubing <u>XX</u>

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>			
Shut-In Pressure, Casing, PSIG <u>840</u>	+ 12 = PSIA <u>852</u>	Days Shut-In <u>9</u>	Shut-In Pressure, Tubing PSIG <u>695</u>	+ 12 = PSIA <u>707</u>	
Flowing Pressure: P PSIG <u>248</u>	+ 12 = PSIA <u>260</u>		Working Pressure: Pw PSIG <u>710</u>	+ 12 = PSIA <u>722</u>	
Temperature: T = <u>72 °F</u>	Ft = <u>.9887</u>	n = <u>.75</u>	Fpv (From Tables) <u>1.024</u>	Gravity <u>.668</u>	Fg = <u>.9477</u>

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

$$Q = 12.365 \times 260 \times .9887 \times .9477 \times 1.024 = \underline{3085} \text{ MCF/D}$$

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

Note: blew light fog of water and dist.
for 3 hours.

$$Aof = \left(\frac{725904}{204620} \right)^n = (3.5475)^{.75} (3085) = 2.5849 \times 3085$$

$$Aof = \underline{7975} \text{ MCF/D}$$

TESTED BY Jesse B Goodwin

WITNESSED BY _____

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