

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 30, 1979

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Hughes A 5A (MV)</u>	
Location <u>SE 28-28-8</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>5630</u>	Tubing: Diameter <u>2 3/8</u>	Set At: Feet <u>5530</u>
Pay Zone: From <u>4574</u>	To <u>5560</u>	Total Depth: <u>5630</u>	Shut In <u>4-23-79</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, PSIG <u>---</u>	+ 12 = PSIA <u>---</u>	Days Shut-In <u>7</u>	Shut-In Pressure, Tubing PSIG <u>898</u>	+ 12 = PSIA <u>910</u>
Flowing Pressure: P PSIG <u>132</u>	+ 12 = PSIA <u>144</u>		Working Pressure: P _w PSIG <u>Calc.</u>	+ 12 = PSIA <u>286</u>
Temperature: T = <u>61</u> °F <u>Ft = 9000</u>	n = <u>.75</u>		F _{pv} (From Tables) <u>1.013</u>	Gravity <u>.650</u> <u>F_g = .9608</u>

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

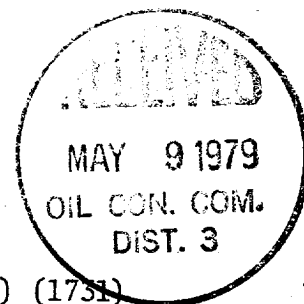
$$Q = 12.365 \times 144 \times .9990 \times .9608 \times 1.013 = \underline{1731} \text{ MCF/D}$$

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

$$Aof = \left(\frac{828100}{746304} \right)^{.75} Q =$$

$$Aof = \underline{1871} \text{ MCF/D}$$

$$(1.1096)^{.75} (1731) = (1.0811) (1731)$$



NOTE: Well blew a very light fog of water throughout and vented 165 MCF to the Atmosphere.

TESTED BY N. Wagoner

WITNESSED BY _____

C.R. Wagoner
Well Test Engineer