

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 23, 1967

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Durfano Unit No. 16</u>	
Location <u>S. 21-N, 1650-W, T-24-N, R-10-W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Dolomite</u>		Pool <u>Basin</u>	
Casing: Diameter <u>4.500</u>	Set At: Feet <u>6761</u>	Tubing: Diameter <u>3.375</u>	Set At: Feet <u>6575</u>
Pay Zone: From <u>3620</u>	To <u>6726</u>	Total Depth: <u>6761</u>	Shut In <u>6-1-67</u>
Stimulation Method <u>Perm Water Frac</u>		Flow Through Casing	Flow Through Tubing <u>X</u>

Choke Size, Inches <u>1.500 Plate; 4" MR</u>		Choke Constant: C <u>Tested thru 3/4" variable choke</u>	
Shut-In Pressure, Casing, PSIG <u>1921</u>	+ 12 = PSIA <u>1933</u>	Days Shut-In	Shut-In Pressure, Tubing PSIG <u>1924</u>
Flowing Pressure: P PSIG <u>meter 136 wellhead 310</u>	+ 12 = PSIA <u>meter 148 wellhead 322</u>	Working Pressure: P _w PSIG <u>805</u>	+ 12 = PSIA <u>817</u>
Temperature: <u>T = 67 °F</u>	n = <u>.75</u>	Fpv (From Tables)	Gravity <u>.700 Fg = 1.1952</u>

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter} = \underline{3626} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3748006}{3080607} \right)^n = (3628)(1.2166)^{.75} = (3628)(1.1584)$$

NOTE: This well produced 22.9 bbls. of 48.3 gravity oil.

$$Aof = \underline{4203} \text{ MCF/D}$$

TESTED BY R. F. HendrickCHECKED
WITNESSED BY H. L. KendrickCALCULATED BY A. J. Isolt

 H. L. Kendrick