

OPEN FLOW TEST DATA

DATE February 19, 1961

Operator <u>Consolidated Oil & Gas, Inc.</u>		Lease <u>NCRA No. 1-22</u>	
Location <u>990 FNL, 990 FWL, 22-26N-7W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Dakota</u>		Pool <u>Basin</u>	
Casing: Diameter <u>7 5/8 - 5 1/2 - 4</u>	Set At: Feet <u>6798</u>	Tubing: Diameter <u>1 1/2 EUE</u>	Set At: Feet <u>6560</u>
Pay Zone: From <u>6577</u>	To <u>6714</u>	Total Depth: <u>6766 PB</u>	
Stimulation Method <u>Sand-water frac</u>		Flow Through Casing	Flow Through Tubing <u>x</u>

Choke Size, Inches <u>0.75</u>		Choke Constant: C <u>14,1605</u>			
Shut-In Pressure, Casing, PSIG <u>1732</u>	+ 12 = PSIA <u>1744</u>	Days Shut-In <u>7</u>	Shut-In Pressure, Tubing PSIG <u>1862</u>	+ 12 = PSIA <u>1874</u>	
Flowing Pressure: P PSIG <u>82</u>	- 12 = PSIA <u>94</u>		Working Pressure: P _w PSIG <u>662</u>	+ 12 = PSIA <u>674</u>	
Temperature: T °F <u>57</u>	n = <u>0.75</u>		Fpv (From Tables) <u>1.00</u>	Gravity <u>0.70</u>	

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

$$Q = 14,1605 \times 94 \times 1.0029 \times .9258 \times 1.00 = \underline{1230} \text{ MCF/D}$$

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

$$Aof = \left(\frac{(1874)^2}{(1874)^2 - (674)^2} \right)^n = 1.018^n$$

$$Aof = \underline{1248} \text{ MCF/D}$$

TESTED BY Case

WITNESSED BY _____

[Signature]