

OPEN FLOW TEST DATA

DATE February 8, 1965

Operator Consolidated Oil & Gas Inc.		Lease Lundean 1-3	
Location Sec. 3 Twn. 25 North, R-10 West, NMPM.		County San Juan	State New Mexico
Formation Basin Dakota		Pool Basin Dakota	
Casing: Diameter 4 1/2" 10.5# 11.6#	Set At: Feet 6588	Tubing: Diameter 1 1/2"	Set At: Feet 6505
Pay Zone: From 6526	To 6556	Total Depth: 6600'	
Stimulation Method Sand & Water Frac.		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 3/4		Choke Constant: C 12,365			
Shut-In Pressure, Casing, PSIG 1973	+ 12 = PSIA 1985	Days Shut-In 8 Days	Shut-In Pressure, Tubing PSIG 1960	+ 12 = PSIA 1972	
Flowing Pressure: P PSIG 260	+ 12 = PSIA 272		Working Pressure: P _w PSIG 780	+ 12 = PSIA 792	
Temperature: T °F 71	n = .75		F _{pv} (From Tables) 1.030	Gravity .700 est.	

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

$$Q = 12,365 \times 272 \times .9896 \times .9258 \times 1.030 = \underline{3,173} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3,940,225}{3,312,961} \right)^n = 1.189^{.75} = 1.1386$$

$$Aof = \underline{3,613} \text{ MCF/D}$$



TESTED BY A.A. Prater

WITNESSED BY Hermon Mc Anally

Clyde Phillips
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