

OPEN FLOW TEST DATA

DATE June 30, 1957

Operator COLORADO WESTERN EXPLORATION, INC.		Lease JAEQUEZ #1	
Location 1650' FWL, 1650' PSL, Sec. 2-31N-13W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco Mesa Verde	
Casing: Diameter 5-1/2"	Set At: Feet 4730	Tubing: Diameter 2-3/8" KUE	Set At: Feet 4607
Pay Zone: From 4418	To 4677	Total Depth: 4732	
Stimulation Method Sand-water frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750	Choke Constant: C 14.1605			
Shut-in Pressure, Casing, PSIG 1037	+ 12 = PSIA 1049	Days Shut-In 11	Shut-in Pressure, Tubing PSIG 1020	+ 12 = PSIA 1032
Flowing Pressure: P PSIG 110	+ 12 = PSIA 122		Working Pressure: P _w PSIG 244	+ 12 = PSIA 256
Temperature: T °F 76	n = 0.75		F _{pv} (From Tables) 1.012	Gravity Est. 0.670

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

$$Q = (14.1605)(122)(0.9850)(0.9463)(1.012) \underline{1.630} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,100,401}{1,034,865} \right)^n = (1.063)^{0.75} (1,630) = (1.047)(1630)$$

$$Aof = \underline{1,707} \text{ MCF/D}$$

TESTED BY Virgil L. StoabsWITNESSED BY Fred Hilton
