

5000 ft. depth
OPEN FLOW TEST DATA

DATE June 30, 1957

Operator COLORADO WESTERN EXPLORATION, INC.		Lease MONTOYA #1	
Location 1660' FNL 940' FEL, Sec. 35-32N-13W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco Mesa Verde	
Casing: Diameter 7"	Set At: Feet 4809	Tubing: Diameter 2-7/8" EUE	Set At: Feet 4776
Pay Zone: From 4542	To 4767	Total Depth: 6822	
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 1087	- 12 = PSIA 1099	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 1082	- 12 = PSIA 1094	
Flowing Pressure: P PSIG 306	- 12 = PSIA 318		Working Pressure: P _w PSIG 501	- 12 = PSIA 513	
Temperature: T °F 76	n = 0.75		F _{pv} (From Tables) 1.031	Gravity Est. 0.670	

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

$$Q = (14.1605)(318)(0.9850)(0.9461)(1.031) \underline{4.327} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,207,801}{944,632} \right)^n = (1.279)^{0.75} (4327) = (1.2025)(4327)$$

$$Aof = \underline{5,203} \text{ MCF/D}$$

TESTED BY Virgil L. StoabsWITNESSED BY Fred Hilton

Virgil L. Stoabs