

# OPEN FLOW TEST DATA

COMPANY DIST. ONLY

DATE June 3, 1975

Operator <b>Koch Exploration Company</b>		Lease <b>LAMB No. 3 A</b>	
Location <b>11003, 1030E, Sec. 21, T-31-N, R-10-W</b>		County <b>San Juan</b>	State <b>NM</b>
Formation <b>Mesa Verde</b>		Pool <b>Blanco</b>	
Casing: Diameter <b>4.500</b>	Set At: Feet <b>5590</b>	Tubing: Diameter <b>2.375</b>	Set At: Feet <b>5511</b>
Pay Zone: From <b>4472</b>	To <b>5494</b>	Total Depth: <b>5590</b>	Shut In <b>5-23-75</b>
Stimulation Method <b>Sand Water Frac</b>		Flow Through Casing	Flow Through Tubing <b>XX</b>

Choke Size, Inches <b>0.750</b>	Choke Constant: C <b>12.365</b>		
Shut-In Pressure, Casing, PSIG <b>665</b>	+ 12 = PSIA <b>677</b>	Days Shut-In <b>11</b>	Shut-In Pressure, Tubing PSIG <b>591</b>
Flowing Pressure: P PSIG <b>243</b>	+ 12 = PSIA <b>255</b>		Working Pressure: Pw PSIG <b>494</b>
Temperature: T = <b>51</b> °F	n = <b>.75</b>		Fpv (From Tables) <b>1.029</b>
	Ft = <b>1.0088</b>		Gravity <b>0.670</b> Fg = <b>0.9463</b>

GORGE VOLUME = Q = C x P<sub>i</sub> x F<sub>i</sub> x F<sub>g</sub> x F<sub>pv</sub>

Q = (12.365) (255) (1.0088) (0.9463) (1.029) = 3097 MCF/D

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

Aof = Q  $\left( \frac{458329}{202293} \right)^n = (3097) (2.2657)^{.75} = (3097) (1.8167)$



Aof = 5719 MCF/D Note: The well produced a light fog of water throughout the test.

TESTED BY Jess B. Goodwin

DESIGNED BY \_\_\_\_\_

*H. E. McAnally*  
Well Test Engineer