## Mesa Petroleum Corp.

## OPEN FLOW TEST DATA

DATE \_\_April 3, 1978

Operator  Mesa Petroleum Corp.		State #45			
Location SW 32-30-14		County San Juan	State New Mexico		
Formation Pictured Cliffs		Pool Blanco	in Manuals		
Casing: Diameter 3.5"	Set At: Feet 1134	Tubing: Diameter 1 1/4	Set At: Feet 895 <sup>1</sup>		
Pay Zone: From	То	Total Depth:	Shut In		
911	919	1134	3-27-78		
Stimulation Method		Flow Through Casing	Flow Through Tubing		
Sandwater Frac			XXX		

Choke Size, Inches		Choke Constant: C					
.750		12.365				_	
Shut-In Pressure, Casing,	PSIG	+ 12 = PSIA	Days Shut-In	Shut-In Pressure, Tubing	PSIG	+ 12 = PSIA	
16	0	172			160	172	
Flowing Pressure: P	PSIG	+ 12 = PSIA		Working Pressure: Pw	PSIG	+ 12 = PSIA	
2" blow nipple=2.8" water					59	71	
Temperature:		n =		Fpv (From Tables)		Gravity	
T= 67 °F Ft=.9	933	.85		1.004		.670	$F_g = .9849$

CHOKE VOLUME = Q = C x Pt x Ft x Fg x Fpv

Q = Calculated from pitot tables

OPEN FLOW = Aof = Q 
$$\begin{pmatrix} & & & \\ & \frac{P_c}{P_c} & \\ & P_c & P_w \end{pmatrix}$$

Aof = Q 
$$\left(\begin{array}{c} 29584 \\ 24543 \end{array}\right)^n = (1.2054)(197) = {}^{85} = (1.1721)(197)$$

WITNESSED BY C. R. Wagner-EPNG

Note: Well unloaded slug of water & then blew heavy fog of water rest of test.
"Installed 2" blow nipple downstream of the 3/4" choke, because flowing pressure was less than 13 psig, causing non-critical flow conditions. Used the NMOCC manual for pitot tube testing procedures to calculate the test.

C.R. Wagner