

MESA PETROLEUM COMPANY
OPEN FLOW TEST DATA

DATE August 1, 1978

Operator Mesa Petroleum Corp.		Lease State Com W #19-A	
Location SW 2-30-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5591'	Tubing: Diameter 2 3/8	Set At: Feet 5455'
Pay Zone: From 5052	To 5591'	Total Depth: 5591'	Shut In 7-19-78
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 557	+ 12 = PSIA 569	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 555	+ 12 = PSIA 567	
Flowing Pressure: P PSIG 178	+ 12 = PSIA 190		Working Pressure: P _w PSIG 428	+ 12 = PSIA 440	
Temperature: T = 78 °F	F _t = .9831	n = .75	F _{pv} (From Tables) 1.016	Gravity .650	F _g = .9608

CHOKE VOLUME = Q = C × P_i × F_t × F_g × F_{pv}

Q = 12.365(190)(.9831)(.9608)(1.016) = 2255 MCF/D

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

Aof = Q $\left(\frac{323761}{130161} \right)^n = (2.4874)^{.75} = (2255) = (1.9807)(2255)$

Aof = 4466 MCF/D

TESTED BY D. Green

WITNESSED BY C. R. Wagner- EPNG

C. R. Wagner
Well Test Engineer