

MESA PETROLEUM COMPANY
OPEN FLOW TEST DATA

DATE May 17, 1978

Operator Mesa Petroleum Corp.		Lease State Com #42	
Location NE 32-31-09		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 3.500	Set At: Feet 3353'	Tubing: Diameter 1 1/4"	Set At: Feet 3135'
Pay Zone: From 3155	To 3177'	Total Depth: 3353'	Shut In 5-10-78
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 858	+ 12 = PSIA 870	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 855	+ 12 = PSIA 867	
Flowing Pressure: P PSIG 127	+ 12 = PSIA 139		Working Pressure: P _w PSIG 506	+ 12 = PSIA 518	
Temperature: T = 57 °F	F _t = 1.003	n = .85	F _p (From Tables) 1.013	Gravity .670	F _g = .9463

CHOKE VOLUME = Q = C × P_t × F_t × F_g × F_p

Q = 12.3650 (139) (1.003) (.9463) (1.013) = 1653 MCF/D

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

Aof = Q $\left(\frac{756900}{488576} \right)^n = (1.5492)^{.85} (1653) = (1.4507) (1653)$

Aof = 2398 MCF/D

TESTED BY Dave Green (Mesa Pet. Co.)

WITNESSED BY C.R. Wagner (EPNG Co.)

C.R. Wagner
Well Test Engineer

