

MESA PETROLEUM COMPANY
OPEN FLOW TEST DATA

DATE June 28, 1978

Operator Mesa Petroleum Corp.		Lease State Com #43	
Location SW 6-27-8 N 36-29-8		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 3.500	Set At: Feet 3026'	Tubing: Diameter 1 1/4"	Set At: Feet 2908'
Pay Zone: From 2914'	To 2955'	Total Depth: 3026'	Shut In 6-21-78
Stimulation Method Sandwater Frac		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 872	+ 12 = PSIA 884	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 872	+ 12 = PSIA 884	
Flowing Pressure: P PSIG 78	+ 12 = PSIA 90		Working Pressure: P _w PSIG 127	+ 12 = PSIA 139	
Temperature: T = 64 °F	F _t = .9962	n = .85	F _{pv} (From Tables) 1.009	Gravity .670	F _g = .9463

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

Q = 12.365(90) (.9962) (.9463) (1.009) = 1059 MCF/D

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

Aof = Q $\left(\frac{781456}{762135} \right)^n = (1.0254)^{.85} = (1059) = (1.0215) (1059)$

Aof = 1082 MCF/D

TESTED BY Jack Dunning

WITNESSED BY C. R. Wagner

C. R. Wagner
Well Test Engineer

