

MESA PETROLEUM COMPANY
OPEN FLOW TEST DATA

DATE May 30, 1978

Operator Mesa Petroleum Corp.		Lease State #46	
Location NE 16-29-08		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 3.500	Set At: Feet 3108'	Tubing: Diameter 1 1/4	Set At: Feet 3044'
Pay Zone: From 3050	To 3084'	Total Depth: 3108'	Shut In 5-23-78
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1025	+ 12 = PSIA 1037	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1024	+ 12 = PSIA 1036	
Flowing Pressure: P PSIG 138	+ 12 = PSIA 150		Working Pressure: P _w PSIG 592	+ 12 = PSIA 604	
Temperature: T = 48 °F	n = .85		F _{pv} (From Tables) 1.016	Gravity .670	F _g = .9463

$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = 12.365 (150) (1.012) (.9463) (1.016) = \underline{1805} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1075369}{710553} \right)^n = (1.5134)^{.85} = (1805) = (1.4222) (1805)$$

$$Aof = \underline{2567} \text{ MCF/D}$$

TESTED BY D. Green- Mesa Pet. Corp.

WITNESSED BY C.R. Wagner- EPNG Co.

C.R. Wagner
Well Test Engineer

