

OPEN FLOW TEST DATA

Date: 9/4/56

Operator: Magnum Petroleum Lease: Merilla 9-1

Location: W 1/4 35-37N-3W County: McCurtain State: OK

Formation: Missouri Shale Pool: Merilla

Casing: _____" Set @ _____' Tubing: _____" Set @ _____'

Pay Zone: _____' To: _____' Total Depth: _____'

Choke Size: 750" Choke Constant = C = 14.1603

Stimulation Method: _____ Flow Through: Casing _____ Tubing g

Shut-In Pressure Casing: 1034 psig / 12 = 1034 psia (Shut-in 7 days)

Shut-In Pressure Tubing: 1034 psig / 12 = 1034 psia

Flowing Pressure: P : 213 psig / 12 = 225 psia

Working Pressure: P_w : 400 psig / 12 = 412 psia

Temperature: T : 53 °F / 460 = 512 ° Absolute

F_{pv} (from tables) : 1.026 Gravity 660 (est) n .85

$$\text{Choke Volume} = Q = C \times P_c \times F_t \times F_g \times F_{pv}$$

$$= \frac{14.1603 \times 225 \times 1.0078 \times .9535}{1.026} = \underline{314.1} \text{ MCF/D}$$

$$\text{Open Flow} = Aof = C$$

$$Aof = \left[\frac{P_c^2}{P_c^2 - F_w^2} \right]^n = \left[\frac{1034^2}{1034^2 - 412^2} \right]^n = \frac{(1077.444)}{(702.900)} = (1.5329)^{.85}$$

$$Aof = \underline{4509} \text{ MCF/D}$$

Tested By: H. J. McCarthy - Geolotric, Inc

Witnessed By: _____



H. J. McCarthy

AZTEC DISTRICT OFFICE

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