

OPEN FLOW TEST DATA

Date: 1/27/57

Operator: McC Drilling Co

Lease: 245 1/2 Howard

Location: 24 1/2 Sec 26-27N-27W

County: San Juan State: NM

Formation: Pictured Cliffs

Pool: 30 Sluice

Casing: 2 1/2 " Set @ 2305

Tubing: 1 " Set @ 2930

Pay Zone: To:

Total Depth: 2245

Choke Size: .750

Choke Constant = C = 14,1405

Stimulation Method: Free Flow Through: Casing X Tubing

Shut-In Pressure Casing: 830 psig / 12 = 842 psia (Shut-in 7 days)

Shut-In Pressure Tubing: 832 psig / 12 = 843 psia

Flowing Pressure: P : 323 psig / 12 = 335 psia

Working Pressure: P_w : 335 psig / 12 = 345 psia

Temperature: T : 92 °F / 460 = 552 ° Absolute

F_{pv} (from tables) : 1.033 Gravity .440 (est) n .85

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

$$= \frac{14,1405 \times 335 \times 1.0010 \times .9400}{1.033} = \underline{4719} \text{ MCF/D}$$

Open Flow = Aof = Q

$$Aof = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$Aof = \left[\frac{842^2}{842^2 - 335^2} \right]^{.85} = \frac{(720,448)}{(391,125)}^{.85} = (1.8112)^{.85}$$

$$Aof = \underline{5243} \text{ MCF/D}$$

Tested By: Geological, Inc

Witnessed By: W. C. Russell



W. J. McConathy
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OIL CONSERVATION COMMISSION

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