

OPEN FLOW TEST DATA

Date: 5/23/57

Operator: R&G Drilling Co

Lease: R&G Warren #38

Location: N. 23-27-8.1

County: Rio Arriba State: NM

Formation: Pictured Cliffs

Pool: So Blanco

Casing: _____ " Set @ _____'

Tubing: No tbg " Set @ _____'

Pay Zone: _____' To: _____'

Total Depth: _____'

Choke Size: .750 "

Choke Constant = C = 14.1605

Stimulation Method: Frac

Flow Through: Casing X Tubing _____

Shut-In Pressure Casing: 850 psig / 12 = 862 psia (Shut-in 7 days)

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

Flowing Pressure: P : 315 psig / 12 = 327 psia

Working Pressure: P_w : 315 psig / 12 = 327 psia

Temperature: T : 69 °F / 460 = 529 ° Absolute

F_{pv} (from tables) : 1.030 Gravity .640(est) n .85

Choke Volume = Q = C x P_t x F_t x F_g x F_{pv}

$$Q = \frac{14.1605 \times 325 \times .9915 \times}{.9632 \times 1.030} = \underline{4578} \text{ MCF/D}$$

Open Flow = Aof = Q

$$Aof = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \left[\frac{862^2}{862^2 - 327^2} \right]^n = \frac{(743.044)^{.85}}{(636.115)^{.85}} = (1.1681)^{.85}$$

Aof = 5232 MCF/D

Tested By: W. J. McConathy

Witnessed By: _____

Geolectric, Inc - Agent

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