

OPEN FLOW TEST DATA

Date: June 2, 1956

Operator: J. Glenn Turner

Lease: Huerfanito # 47-27

Location: 1345'N, 1575'E, Sec. 27-27-9

County: San Juan State: N.M.

Formation: Pictured Cliff

Pool: Ballard

Casing: 5.5 " Set @ 2212 '

Tubing: 1 " Set @ 2283 '

Pay Zone: 2208 ' To: 2297 '

Total Depth: 2297 '

Choke Size: 0.750 "

Choke Constant = C = 14.1605

Stimulation Method: Sand Oil Frac.

Flow Through: Casing X Tubing

Shut-In Pressure Casing: 658 psig / 12 = 670 psia (Shut-in 18 days)

Shut-In Pressure Tubing: 658 psig / 12 = 670 psia

Flowing Pressure: P : 58 psig / 12 = 70 psia

Working Pressure: P_w : 59 psig / 12 = 71 psia

Temperature: T : 70 °F / 460 = 530 ° Absolute

F_{pv} (from tables) : 1.007 Gravity 0.645 n 0.850

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

$$Q = 14.1605 \times 70 \times 0.9905 \times 0.9645 \times \frac{1}{1.007} = 954 \text{ MCF/D}$$

Open Flow = Aof = Q

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

Aof = 954

$$\left[\frac{448,900}{443,859} \right]^n = 963$$

Aof =

963

MCF/D

Tested By: Tom Grant

Witnessed By: Virgil Stoabs

cc: Benson-Montin-Greer (4)



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