

# OPEN FLOW TEST DATA

Date: June 21, 1956

Operator: J. Glenn Turner

Lease: Huerfanito Unit # 52-36

Location: 990'S, 1650'E, Sec. 36-27-9

County: San Juan State: N.M.

Formation: Pictured Cliff

Pool: Wildcat

Casing: 5 1/2 " Set @ 1992 '

Tubing: 1 " Set @ 2053 '

Pay Zone: 1988 ' To: 2082 '

Total Depth: 2082 '

Choke Size: 0.75 "

Choke Constant = C = 14.1605

Stimulation Method: Sand Oil Frac. Flow Through: Casing x Tubing     

Shut-In Pressure Casing: 654 psig / 12 = 666 psia (Shut-in 7 days

Shut-In Pressure Tubing: 653 psig / 12 = 665 psia

Flowing Pressure: P : 42 psig / 12 = 54 psia

Working Pressure: P<sub>w</sub> : 42 psig / 12 = 54 psia

Temperature: T : 55 °F / 460 = 515 ° Absolute

F<sub>pv</sub> (from tables) : 1.004 Gravity .650 n .85

Blew tubing for 5 minutes. No liquid. Opened at 10:35. Shut-in at 1:35. Well making water.

Choke Volume = Q = C x P<sub>t</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>pv</sub>

$$Q = 14.1605 \times 54 \times 1.0048 \times .9608 \times \frac{1.004}{1.004} = 741 \text{ MCF/D}$$

Open Flow = Aof = C

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

Aof = 741

$$\left[ \frac{443,556}{440,640} \right]^n$$

$$= 741 \times 1.0066^{.85} = 741 \times 1.0056$$

Aof =

745

MCF/D

Tested By: L. D. Galloway

Witnessed By: Virgil Stoabs

After 3 hours, well blowing slugs of emulsion. Pressure on choke varying from 42 to 46 lbs.

cc: Benson-Montin-Greer (4)

L. D. Galloway



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