

OPEN FLOW TEST DATA

Hardner Pet.

Date: August 3, 1956

Operator: Clark & Cowden Prod Co

Lease: Federal #1

Location: 1170' NL 1140' AL Sec 17-T24N-R1W

County: Big Horn State: N.M.

Formation: Pictured Cliffs

Pool: Wildcat

Casing: 8 1/2" - 114' " Set @ 3116'

Tubing: 2" " Set @ 3010'

Pay Zone: ' To: '

Total Depth: 3126'

Choke Size: .750 " Choke Constant = C = 12.3450

Stimulation Method: Flow Through: Casing Tubing 2

Shut-In Pressure Casing: 918 psig / 12 = 920 psia (Shut-in days)

Shut-In Pressure Tubing: 918 psig / 12 = 920 psia

Flowing Pressure: P : 255 psig / 12 = 265 psia

Working Pressure: P_w : 277 psig / 12 = 272 psia

Temperature: T : 36 °F / 460 = 496 ° Absolute

F_{pv} (from tables) : 1.036 Gravity .680 (est) n .85

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

$$= \frac{12.3450 \times 255 \times 1.0239 \times .9393 \times 1.036}{1.036} = 3265$$

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

$$Aof = 3265$$

$$Aof =$$

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

$$\left[\frac{795^2}{795^2 - 272^2} \right]^n$$

$$= \left(\frac{864.9}{792.459} \right)^{.85} = (1.0728)^{.85}$$

$$3265 \times 1.0786$$

$$3522$$

$$\text{MCF/D}$$

Tested By:

H. J. McConathy

Witnessed By:

J. E. Farmer

Build-up to
470 psig 10 min
after shut-in



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