

OPEN FLOW TEST DATA

Date: February 20, 1956

Operator: El Paso Natural Gas Company

Lease: Newberry No. 2

Location: 990'N, 990'E, Sec. 8, T31N, R12E

County: San Juan State: N.M.

Formation: Mesa Verde

Pool: Blanco

Casing: 5 1/2" liner 4460 - 5072
7" Set @ 4575

Tubing: 2" Set @ 5012

Pay Zone: 4754 To: 4808

Total Depth: 5075

Choke Size: 3/4"

Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac.

Flow Through: Casing _____ Tubing A

Shut-In Pressure Casing: 1000 psig / 12 = 1012 psia (Shut-in _____ days)

Shut-In Pressure Tubing: 1000 psig / 12 = 1012 psia

Flowing Pressure: P : 388 psig / 12 = 400 psia

Working Pressure: P_w : 851 psig / 12 = 863 psia

Temperature: T : 68 °F / 460 = 528 ° Absolute

F_{pv} (from tables) : 1.038 Gravity .65 est. n .75

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

$$Q = 14.1605 \times 400 \times .9924 \times .9608 \times \frac{1}{1.038} = 5606 \text{ MCF/D}$$

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

$$Aof = 5606$$

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

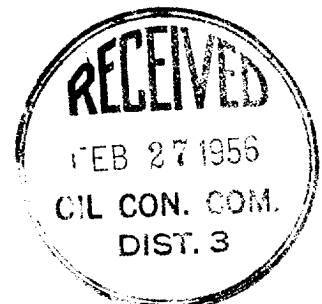
$$\left[\frac{1,024,144}{279,375} \right]^n$$

$$= 5606(3.666)^{.75} = 5606 \times 2.05$$

$$Aof = 14,856 \text{ MCF/D}$$

Tested By: D. L. Mitchell

Witnessed By: _____



L. D. Galloway

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