

OPEN FLOW TEST DATA

Date: February 28, 1956

Operator: Caswell Silver

Lease: Jicarilla Apache # 67-1

Location: 990'S, 990'E, Sec. 20, T25N, R5W

County: Rio Arriba State: N.M.

Formation: Pictured Cliff

Pool: Wildcat

Casing: 5 1/2 " Set 2770 ' Perforations

Tubing: 2 " Set 2750 ' ,

Pay Zone: 2684 ' To: 2728 ' ,

Total Depth: 2780 ' ,

Choke Size: 3/4 " ,

Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac.

Flow Through: Casing _____ Tubing X

Shut-In Pressure Casing: 863 psig / 12 = 875 psia (Shut-in 52 days)

Shut-In Pressure Tubing: 863 psig / 12 = 875 psia

Flowing Pressure: P : 280 psig / 12 = 292 psia

Working Pressure: P_w : 483 psig / 12 = 495 psia

Temperature: T : 65 °F / 460 = 525 ° Absolute

F_{pv} (from tables) : 1.028 Gravity .650 est. n .85

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

$$= 14.1605 \times 292 \times .9952 \times .9608 \times \frac{1}{1.028} = 4064 \text{ MCF/D}$$

Open Flow = Aof = Q

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

Aof = 4064

$$\left[\frac{765,625}{520,600} \right]^n$$

$$= 4064(1.471)^{.85} = 4064 \times 1.389$$

Aof =

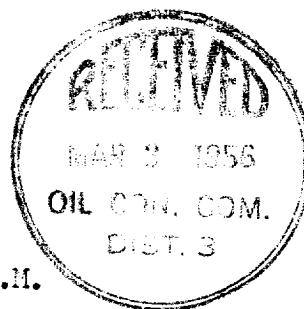
5,645

MCF/D

Tested By: D. W. Mitchell

Witnessed By: _____

cc: (2) Caswell Silver, 323 Simms Building, Albuquerque, N.M.



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