

OPEN FLOW TEST DATA

Date: July 16, 1956

Operator: El Paso Natural Gas Company

Lease: Lindrith Unit # 7

Location: 1650'S, 1090'W, Sec. 21-24-2

County: Rio Arriba State: N.M.

Formation: Pictured Cliff

Pool: Wildcat

Casing: 5 $\frac{1}{2}$ " Set: 3180 '

Tubing: 1 $\frac{1}{4}$ " Set: 3108 '

Pay Zone: 3104 ' To: 3143 '

Total Depth: 3180 - 3150 '

Choke Size: 3/4 "

Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac.

Flow Through: Casing X Tubing

Shut-In Pressure Casing: 921 psig / 12 = 933 psia (Shut-in 8 days)

Shut-In Pressure Tubing: 921 psig / 12 = 933 psia

Flowing Pressure: P : 64 psig / 12 = 76 psia

Working Pressure: P_w : 112 psig / 12 = 124 psia

Temperature: T : 67 °F / 460 = 527 ° Absolute

F_{pv} (from tables) : 1.009 Gravity 0.65 est. n 0.85

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

$$= 14.1605 \times 76 \times .9933 \times .9608 \times \frac{1.009}{1.009} = 1036 \text{ MCF/D}$$

$$\text{Open Flow} = A_{of} = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$A_{of} = 1036 \left[\frac{870,489}{855,113} \right]^n = (1.0179)^{.85} Q = 1.0152 (Q)$$

$$A_{of} = 1,052 \text{ MCF/D}$$

Tested By: D. C. Adams

Witnessed By: Dick Ullrich



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