

OPEN FLOW TEST DATA

Date: February 18, 1956

Operator: Benson-Montin Lease: N.C.R.A. State # 2

Location: 1450'N, 890'W, Sec. 16, T24N, R6W County: Rio Arriba State: N.M.

Formation: Pictured Cliff Pool: Wildcat

Casing: 5 1/2 " Set @ 2267 ' Tubing: 1 " Set @ 2339 '

Pay Zone: 2267 ' To: 2366 ' Total Depth: 2366 '

Choke Size: 3/4 " Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac. Flow Through: Casing X Tubing

Shut-In Pressure Casing: 701 psig / 12 = 713 psia (Shut-in 72 days)

Shut-In Pressure Tubing: 701 psig / 12 = 713 psia

Flowing Pressure: P : 100 psig / 12 = 112 psia

Working Pressure: P_w : 103 psig / 12 = 115 psia

Temperature: T : 51 °F / 460 = 511 ° Absolute

F_{pv} (from tables) : 1.011 Gravity .65 Est. n .85

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

$$Q = 14.1605 \times 112 \times 1.0088 \times .9608 \times 1.011 = 1,554 \text{ MCF/D}$$

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

$$Aof = 1554$$

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

$$\left[\frac{508,369}{495,144} \right]^n$$

$$Aof =$$

$$1,589$$

$$\text{MCF/D}$$

$$= 1554(1.0267)^{.85} = 1554 \times 1.0226$$

Tested By: D. W. Mitchell

Witnessed By: Virgil Stoabs



L. D. Galloway

OIL CONSERVATION COMMISSION		
AZEC DISTRICT OFFICE		
No. 0000000000	2	
CONSERVATION		
DATE		
TIME		
PLACE		
REMARKS		
1	1	✓