

# OPEN FLOW TEST DATA

Date: 6-16-1956

Operator: BENSON-MONTIN-GREER

Lease: NCRA State #4

Location: 1290 FSL  
1090 FSL SEC 16 24N 6W

County: Rio Arriba State: N.M.

Formation: PICTURED CLIFF

Pool: WILDCAT

Casing: 5 1/2 " Set @ 2290 '

Tubing: 1 " Set @ 2339 '

Pay Zone: 2290 ' To: 2362 '

Total Depth: 2362 '

Choke Size: 0.750 "

Choke Constant = C = 14,1605

Stimulation Method: SAND OIL FRAC Flow Through: Casing ☒ Tubing ☐

Shut-In Pressure Casing: 701 psig  $\pm 12$  = 713 psia (Shut-in 147 days)

Shut-In Pressure Tubing: 701 psig  $\pm 12$  = 713 psia

Flowing Pressure: P : 525 psig  $\pm 12$  = 537 psia

Working Pressure: P<sub>w</sub> : 528 psig  $\pm 12$  = 540 psia

Temperature: T : 64 °F  $\pm 460$  = 524 ° Absolute

F<sub>pv</sub> (from tables) : 1.058 Gravity 0.650 Est. n 0.85

Choke Volume = Q = C x P<sub>t</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>pv</sub>

$$Q = (14,1605)(537)(.9962)(1.0)(1.058) = \underline{8015} \text{ MCF/D}$$

Open Flow = Aof = Q

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

Aof =

$$\left[ \frac{508,369}{216,769} \right]^n = (2.063)(8015)$$

Aof =

$$\underline{16,535} \text{ MCF/D}$$

CORRECT AOF ESTIMATED @ 4.000 MCF/D

Tested By: VIRGIL L. STODAS  
BENSON-MONTIN-GREER

Witnessed By: L. D. GALLAGHER  
EL PASO NATURAL GAS CO.



NOTE: DURING THE 3 HOUR FLOW PERIOD THE CHOKER NIPPLE ICED OVER AND A SLEEVE OF ICE FORMED INSIDE THE NIPPLE. THIS

Virgil L. Stodas

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