

OPEN FLOW TEST DATA

Date: April 30, 1956

Operator: El Paso Natural Gas Company Lease: Heaton # 4

Location: 1650'N, 1042'E, Sec. 29-31-11 County: San Juan State: N.M.

Formation: Mesa Verde Pool: Blanco Mesa Verde

Casing: 5 1/2 " Set @ 4594 - 4975 ' Tubing: 2 " Set @ 4876 '
7 " Set @ 4665 '
Pay Zone: 4800 ' To: 4980 ' Total Depth: 4980 '
Choke Size: 3/4 " Choke Constant = C = 14.1605

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

Shut-In Pressure Casing: 1063 psig / 12 = 1075 psia (Shut-in 13 days)

Shut-In Pressure Tubing: 1062 psig / 12 = 1074 psia

Flowing Pressure: P : 382 psig / 12 = 394 psia

Working Pressure: P_w : 816 psig / 12 = 828 psia

Temperature: T : 72 °F / 460 = 532 ° Absolute

F_{pv} (from tables) : 1.040 Gravity 0.675 est n .75

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

$$= 1.040 \times 394 \times 14.1605 \times .9887 \times .9811 = 5628 \text{ MCF/D}$$

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

$$= Q (2.4586)^{.75} = Q(1.962)$$

$$Aof = 11,042 \text{ MCF/D}$$

Tested By: D. C. Adams

Witnessed By:



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