

OPEN FLOW TEST DATA

Date: April 19, 1956

Operator: El Paso Natural Gas Company

Lease: Jicarilla # 1-C

Location: 1800'S, 1450'W, Sec. 21-25-4

County: Rio Arriba State: N.M.

Formation: Pictured Cliff

Pool: Wildcat

Casing: 7 " Set @ 3450 '

Tubing: 1 1/2 " Set @ 3391 '

Pay Zone: 3397 ' To: 3426 '

Total Depth: 3440 '

Choke Size: 0.750 "

Choke Constant = C = 14.1605

Stimulation Method: Water Frac.

Flow Through: Casing X Tubing

Shut-In Pressure Casing: 979 psig / 12 = 991 psia (Shut-in 7 days

Shut-In Pressure Tubing: 979 psig / 12 = 991 psia

Flowing Pressure: P : 373 psig / 12 = 385 psia

Working Pressure: P_w : 385 psig / 12 = 397 psia

Temperature: T : 57 °F / 460 = 517 ° Absolute

F_{pv} (from tables) : 1.049 Gravity .705 n .85

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

$$Q = 14.1605 \times 385 \times 1.0029 \times .9225 \times \frac{1}{1.049} = 5291 \text{ MCF/D}$$

Open Flow = Aof = Q

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

Aof = 5291

$$\left[\frac{982,081}{824,472} \right]^n$$

$$= 1.1912^{.85} = 1.1602$$

Aof =

6139 MCF/D

Tested By: Tom Grant and Kenneth McBride

Witnessed By:

By:

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