

OPEN FLOW TEST DATA

(Old well worked over)

Date: May 22, 1956

Operator: El Paso Natural Gas Company

Lease: Swires #1

Location: 990N. 990W. 15-30-11

County: San Juan State: N.M.

Formation: Pictured Cliff

Pool: Aztec Pictured Cliff

Casing: 5.5 " Set @ 2035 to 2191 '

Tubing: 1 " Set @ 2168 '

Pay Zone: 2169 ' To: 2184 '

Total Depth: 2191 '

Choke Size: 0.750 "

Choke Constant = C = 14.1605

Stimulation Method: Water frac Flow Through: Casing y Tubing

Shut-In Pressure Casing: 662 psig / 12 = 674 psia (Shut-in 9 days)

Shut-In Pressure Tubing: 662 psig / 12 = 674 psia

Flowing Pressure: P : 37 psig / 12 = 49 psia

Working Pressure: P_w : 37 psig / 12 = 49 psia

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

F_{pv} (from tables) : 1.000 Gravity 0.645 n 0.850

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

$$Q = 14.1605 \times 49 \times .9887 \times .9645 \times 1.000 = \underline{662} \text{ MCF/D}$$

Open Flow = Aof = Q

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

Aof =

$$\left[\frac{454,276}{451,875} \right]^n$$

$$= 1.0053^{.85} = 1.0045 \times 662$$

Aof =

665 MCF/D

Tested By: Tom Grant

Witnessed By:



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REPLY ON

INSTRUCTIONS		DATE
1. APPROVED	1	
2. APPROVED	1	
3. APPROVED	1	
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