

OPEN FLOW TEST DATA

Date: OCTOBER 15, 1963

Operator: SWAN - ALAN

Lease: J. L. FELDMAN #1

Location: N 1/4 Sec 8, T3N-2W

County: R.A. State: ILL.

Formation: PICTURED G. W.F.

Pool: UNDERGASSED

Casing: 4 1/2 " Set 0

Tubing: 1 1/2 " Set 0

Pay Zone: To:

Total Depth:

Choke Size: 3/4 IN.

Choke Constant = C = 12.365

Stimulation Method:

Flow Through: Casing X Tubing

Shut-in Pressure Casing: 916 psig / 12 = 928 psia (Shut-in 2 days)

Shut-in Pressure Tubing: 914 psig / 12 = 926 psia

Flowing Pressure: P : 115 psig / 12 = 897 psia

Working Pressure: P_w : psig / 12 = psia

Temperature: T : 43 °F / 460 = 503 °Absolute

F_{pv} (from tables) : 1.012 Gravity 0.820 Say n 25

$$\text{Choke Volume} = Q = C \times P_c^2 \times F_t \times F_p \times F_{pv}$$

$$12.365 \times 127 \times 1.0168 \times .9837 \times 1.012 \times F_{pv}$$

$$Q = \underline{1289} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^{1/n} = 1.0191 = 1.0161$$

$$Aof = \left[\frac{861,184}{845,085} \right]^{1/n}$$

$$Aof = \underline{1615} \text{ MCF/D}$$

Tested By:

Witnessed By:



GEOELECTRIC INC

(From tests)

Temperature	Flowing Pressure	Flowing Temperature	Inlet-in Pressure	Inlet-out Pressure
70° F.	100 lb.	100° F.	100 lb.	100 lb.
80° F.	100 lb.	100° F.	100 lb.	100 lb.
90° F.	100 lb.	100° F.	100 lb.	100 lb.
100° F.	100 lb.	100° F.	100 lb.	100 lb.
110° F.	100 lb.	100° F.	100 lb.	100 lb.
120° F.	100 lb.	100° F.	100 lb.	100 lb.
130° F.	100 lb.	100° F.	100 lb.	100 lb.
140° F.	100 lb.	100° F.	100 lb.	100 lb.
150° F.	100 lb.	100° F.	100 lb.	100 lb.
160° F.	100 lb.	100° F.	100 lb.	100 lb.
170° F.	100 lb.	100° F.	100 lb.	100 lb.
180° F.	100 lb.	100° F.	100 lb.	100 lb.
190° F.	100 lb.	100° F.	100 lb.	100 lb.
200° F.	100 lb.	100° F.	100 lb.	100 lb.

None Volume 1

Q102

100-443889-1

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7C beamed.

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D. J. H. ✓
L. J. H.