

OPEN FLOW TEST DATA

DATE: FEB. 25, 1960

OPERATOR: CABOT CARBON CO.

LEASE: HUMBLE FEDERAL A-1

LOCATION: SW/SW 29 - 26N - 2W

COUNTY: R A STATE: N.M.

FORMATION: _____

POOLS: _____

CASINGS: 4 1/2 SET @ 4108

TUBING: 1 1/4 SET @ 4010

PAY ZONE: 3978 To: 4060

TOTAL DEPTH: 4075

CHOKE SIZE: 3/4" T C

CHOKE CONSTANT-C- 12,365

STIMULATION METHOD: _____

FLOW: CASING _____ TUBING X

SHUT - IN PRESSURE CASING: 1025 PSIG / 12 = 1037 PSIA (SHUT-IN 8 DAYS)

SHUT - IN PRESSURE TUBING: 1025 PSIG / 12 = 1037 PSIA

FLOWING PRESSURE: P: 203 PSIG / 12 = 215 PSIA

WORKING PRESSURE: P_w: 919 PSIG / 12 = 931 PSIA

TEMPERATURE: T: 42 F / 460 = 502 ° ABSOLUTE

F_{PV} (FROM TABLES) : 1.024 GRAVITY .670 N 85

$$\text{CHOKE VOLUME} = Q = C \times P_T \times F_T \times F_G \times F_{PV}$$

$$12.365 \times 215 \times 1.0178 \times .9463 \times 1.024$$

$$= \underline{2622} \text{ MCF/D}$$

$$\text{OPEN FLOW - AOF} = Q \frac{P^2}{P_0^2 - P_w^2}$$

$$\frac{1037}{931}$$

$$\text{AOF} = \frac{1,075,369}{208,608} = 4.0307$$

$$\text{AOF} = \underline{10,568} \text{ MCF/D}$$

TESTED BY: D. W. STILES

WITNESSED BY: BILL PADEN



GEOLECTRIC, INC.

B. H. Hays
AGENT