OPEN FLOW TEST DATA

Date: Sept 18, 1958

Operator: Monsanto Chemical Co

Lease: State J # 1

Location: 16-26N-11W

County: San Juan State: N M

Formation: Dakota

Pool: Dakota WC

Casing: ______" Set @ ______'

Tubing: 2 " Set @ 6160 '

Pay Zone: 6090 ' To: 6164 '

Total Depth: 6405 '

Choke Size: 3/4 "

Choke Constant = C = 14.1605

Stimulation Method: SOF

Flow Through: Casing ______ Tubing X

Shut-In Pressure Casing: ______ psig + 12 = ______ psia (Shut-in 7 days)

Shut-In Pressure Tubing: 2003 psig + 12 = 2015 psia

Flowing Pressure: P : 256 psig + 12 = 268 psia

Working Pressure: P_w : ______ psig + 12 = 609 psia (Calculated)

Temperature: T : 82 °F + 460 = 542 ° Absolute

F_{pv} (from tables) : 1.027 Gravity .670 Est n .75

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

Q = 14.1605 x 268 x .9795 x .9463 x 1.027 = 3613 MCF/D

$$\text{Open Flow} = \text{Aof} = Q\ 3613 \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$\text{Aof} = 3613 \left[\frac{4{,}060{,}225}{3{,}689{,}536} \right]^n = (1.1005)^{.75} = 1.0745$$

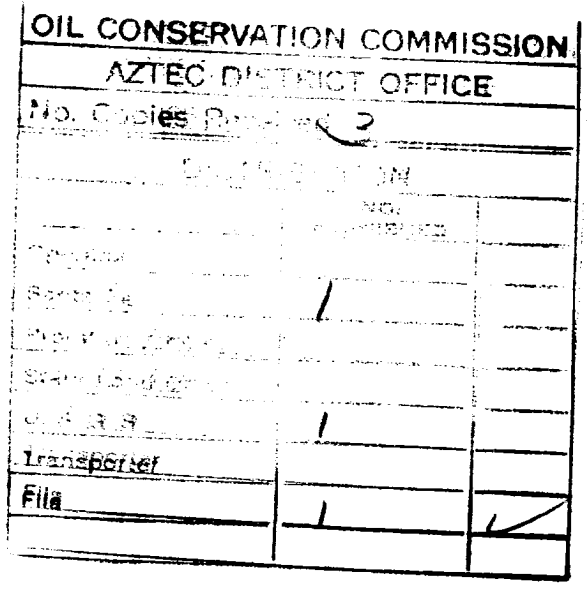
Aof = 3882 MCF/D

Tested By: GeoLectric, Inc.

Witnessed By: ______

RECEIVED SEPT 19 1958 OIL CON. COM. DIST. 3

[signature]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