

OPEN FLOW TEST DATA

Date: Dec. 5, 1962

Operator: TIDEWATER OIL CO

Lease: N M FED DU 13 W #1

Location: 13-29N-11W

County: SAN JUAN State: N. M.

Formation: DAKOTA

Pool: BASIN DAKOTA

Casing: 4 1/2 " Set @ 6596 PB 6557 ' Tubing: 2 " Set @ 6248

Pay Zone: 6308 6405 ' To: 6312 6409 ' Total Depth: 6557 PB
6369 6481 ' 6394 6487

Choke Size: 3/4" THC " Choke Constant = C = 12.365

Stimulation Method: _____ Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 2070 psig / 12 = 2082 psia (Shut-in 7 days)

Shut-in Pressure Tubing: 2070 psig / 12 = 2082 psia

Flowing Pressure: P : 562 psig / 12 = 574 psia

Working Pressure: P_w : 1290 psig / 12 = 1302 psia

Temperature: T : 70 °F / 460 = 530 °Absolute

F_{pv} (from tables) : 1.057 Gravity .650 Est n 75

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

$$Q = \frac{12.365 \times 574 \times .9905 \times .9608 \times 1.057}{n} = \frac{7140}{n} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \frac{\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n}{\left[\frac{4,334,724}{2,369,520} \right]^n} = \frac{1.6422}{1.4506}$$

$$Aof = \frac{10,357}{\text{MCF/D}}$$

Tested By: D W STILES

Witnessed By: _____

GEOELECTRIC INC.

B. V. Regal

