

OPEN FLOW TEST DATA

Date: MAY 29, 1961

Operator: WESTERN NATURAL GAS CO. Lease: OSWALD # 1 (NW)

Location: M 14 - 27 - 8 County: SAN JUAN State: NEW MEXICO

Formation: VEGA VERDE Pool: BLANCO VEGA VERDE

Casing: 4 1/2" Set @ Tubing: 2" Set @ 4225

Pay Zone: 4450 To: 4475 Total Depth: 4775

Choke Size: 3/4" T.C. Choke Constant = C = 12.365

Stimulation Method: G.G.F. Flow Through: Casing Tubing X

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

Shut-in Pressure Tubing: 1001 psig / 12 = 1013 psia

Flowing Pressure: P_f: 66 psig / 12 = 78 psia

Working Pressure: P_w: psig / 12 = CALCULATED psia

Temperature: T: 71 °F / 460 = 531 °Absolute

F_{pv} (from tables): 1.007 Gravity .650 (E) n .750

$$Q = \frac{C \times P_t \times F_t \times F_g \times F_{pv}}{12.365 \times 71 \times .9896 \times .9608 \times 1.007} = \underline{923} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \frac{\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n}{\frac{1,026,169}{1,026,169 - 19,715}} = 1.0196 = 1.0146 \times 923$$

Aof = 936 MCF/D

Tested By: R. B. SMITH

Witnessed By: PAUL VARNER

JUN 25 1961
OIL CORP.
LIST
GEOLECTRIC, INC.

B. H. Meyer