DUAL COMPLETION

# OPEN FLOW TEST DATA

DATE April 18, 1957

| | |
|---|---|
| Operator: El Paso Natural Gas Company | Lease: McCulley # 2 (P) |
| Location: 1850'S, 1090'W, Sec. 14-28-9 | County: San Juan; State: New Mexico |
| Formation: Pictured Cliff | Pool: Wildcat |
| Casing Diameter: 7 5/8; Set At Feet: 2417 | Tubing Diameter: 1 1/4; Set At Feet: 2273 |
| Perforations: 2242; To: 2302 | Packer Seat Feet: 2786 (Packer) |
| Stimulation Method: Sand Water Frac | Flow Through Casing: X; Flow Through Tubing: |

| | | | |
|---|---|---|---|
| Choke Size, Inches: 0.750 | Choke Constant: 12.365 | | |
| Shut-in Pressure Casing: 792 (P.C.) PSIG + 12 = PSIA: 804 | Days Shut-in: 10 | Shut-in Pressure Tubing: 794 (P.C.) PSIG + 12 = PSIA: 806 | |
| Flowing Pressure: P: 372 PSIG + 12 = PSIA: 384 | | Working Pressure: Pw: 382 PSIG + 12 = PSIA: 394 | |
| Temperature: T: 67 | F.G.T. Factor: 0.850 | Gravity Factor: 1.037 | Gravity: 650 |

Initial SIPC - M.V. - 1044 . Final SIP - M.V. - 1047 psig

CHOKE VOLUME: Q = C x $P_t$ x $F_t$ x $F_g$ x $F_{pv}$

Q = 12.365 x 384 x .9933 x .9608 x 1.037 = 4699 MCFPD

OPEN FLOW = Aof = Q $\left(\frac{P_c^2}{P_c^2 - P_w^2}\right)^n$

Aof = 4699 $\left(\frac{649,636}{494,400}\right)^n$ = 4699 $(1.3139)^n$ (4699) = (1.2612) (4699)

Aof = 5926 MCFPD

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OIL CON. COM.
DIST. 3

Tom Grant

WITNESSED BY

cc: E. J. Coel, Jr. (6)

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