OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

Form C-122
Revised 10-1-78

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: ☐ Initial ☐ Annual ☐ Special — Test Date: 7-7-81

| | | | |
|---|---|---|---|
| Company: Supron Energy Corporation | Connection | | |
| Pool: Ballard | Formation: Pictured Cliffs | | Unit |
| Completion Date: 4/30/81 | Total Depth: 3180 | Plug Back TD: 3149 | Elevation: 6886 G |
| Farm or Lease Name: Newsom A | | | |
| Csg. Size: 2.875 / Wt.: 6.40 / d: 2.441 / Set At: 3166 | Perforations: From 2826 To 2858 | | Well No.: 24 |
| Tbg. Size: None / Wt. / d / Set At | Perforations: From To | | Unit: I / Sec.: 4 / Twp.: 26N / Rge.: 8W |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single | Packer Set At | | County: San Juan |
| Producing Thru: Casing | Reservoir Temp. °F | Mean Annual Temp. °F | Baro. Press. – $P_a$ | State: New Mexico |

| L | H | Gg | % $CO_2$ | % $N_2$ | % $H_2S$ | Prover | Meter Run | Taps |
|---|---|---|---|---|---|---|---|---|
| | | est. .650 | | | | | | |

| | FLOW DATA | | | | TUBING DATA | | CASING DATA | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Prover Line Size | X Orifice Size | Press. p.s.i.g. | Diff. $h_w$ | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F | Duration of Flow |
| SI | | | | | | None | | 743 | | 7 days |
| 1. | | .750 | 16 | | 52 | - | | 16 | 52 | 3 Hrs. |
| 2. | | | | | | | | | | |
| 3. | | | | | | | | | | |
| 4. | | | | | | | | | | |
| 5. | | | | | | | | | | |

## RATE OF FLOW CALCULATIONS

| NO. | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure $P_m$ | Flow Temp. Factor Ft. | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
|---|---|---|---|---|---|---|---|
| 1 | 12.3650 | | 28 | 1.0078 | .9608 | 1.0000 | 335 |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

| NO. | $P_r$ | Temp. °R | $T_r$ | Z |
|---|---|---|---|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

JUL 6 1981
OIL CON. COM.
DIST. 3

$P_c$ 755 $P_c^2$ 570025

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 30 | 1216 | 568809 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0021$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0018$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 336$

Absolute Open Flow 336 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n .85

Remarks: dry

| Approved By Division | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | CRW | AR Kendrick | |