# OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

## MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

| | | | |
|---|---|---|---|
| Type Test: [X] Initial [ ] Annual [ ] Special | | | Test Date: 1-18-80 |
| Company: SUPRON ENERGY CORPORATION | Connection: Gas Company of New Mexico | | |
| Pool: South Blanco | Formation: Pictured Cliffs | | Unit |
| Completion Date: 1-3-80 | Total Depth: 6058 | Plug Back TD: 6027 | Elevation: 7135 |
| Farm or Lease Name: Jicarilla "B" | | | |
| Csg. Size: 5.500 / Wt.: 15.50 / d: 4.950 / Set At: 6058 | Perforations: From 3712 To 3742 | | Well No.: 13 |
| Tbg. Size: 2.0625 / Wt.: 3.25 / d: 1.750 / Set At: 3787 | Perforations: From 3779 To 3787 | | Unit: M / Sec.: 36 / Twp.: 26-N / Rge.: 4-W |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual - Gas - Gas | | Packer Set At: 5626 | County: Rio Arriba |
| Producing Thru: Tubing | Reservoir Temp. °F: | Mean Annual Temp. °F: | Baro. Press. – $P_a$: 12 / State: New Mexico |

| L | H | Gg | % $CO_2$ | % $N_2$ | % $H_2S$ | Prover | Meter Run | Taps |
|---|---|---|---|---|---|---|---|---|
| 3767 | | 0.620 | | | | | | |

| | 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 | 2" | 3/4" | | | | 590 | | 584 | | 14 days |
| 1. | | | | | | 8 | 52° | 60 | | 3 hours |
| 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 | | 20 | 1.0078 | 0.9837 | 1.000 | 245 |
| 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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

$P_c$ 602 $P_c^2$ 362,404

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 72 | 5184 | 357,220 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0145$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0122$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 248$

Absolute Open Flow 248 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n 0.85

Remarks: _____

| Approved By Division | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | Jerry Lowrey | Kenneth E. Roddy | |