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

Form C-122
Revised 10-1

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special — Test Date: 5-16-81

Company: SUPRON ENERGY CORPORATION — Connection: Southern Union Gathering Company — Unit:

Pool: Bloomfield Ext. — Formation: Chacra

| Completion Date | Total Depth | Plug Back TD | Elevation | Farm or Lease Name |
|---|---|---|---|---|
| 5-6-81 | 6685 | 6668 | 5813 | Zachry |

| Csg. Size | Wt. | d | Set At | Perforations | | Well No. |
|---|---|---|---|---|---|---|
| 4.500 | 10.50 | 4.052 | 6685 | From 3023 | To 3152 | 17-E |

| Tbg. Size | Wt. | d | Set At | Perforations | | Unit | Sec. | Twp. | Rge. |
|---|---|---|---|---|---|---|---|---|---|
| NO TUBING | | | | From | To | O | 35 | 29N | 10W |

Type Well – Single – Bradenhead – G.C. or G.O. Multiple: Dual - Gas - Gas — Packer Set At: 6402 — County: San Juan

| Producing Thru | Reservoir Temp. °F | Mean Annual Temp. °F | Baro. Press. – $P_a$ | State |
|---|---|---|---|---|
| Casing | | | 12 | New Mexico |

| L | H | Gg | % $N_2$ | % $H_2S$ | Prover | Meter Run | Taps |
|---|---|---|---|---|---|---|---|
| 3013 | | 0.650 | | | | | |

## FLOW DATA

| NO. | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. $h_w$ | Temp. °F |
|---|---|---|---|---|---|---|
| SI | 2" | | 3/4" | | | |
| 1. | | | | | | |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |
| 5. | | | | | | |

## TUBING DATA

| Press. p.s.i.g. | Temp. °F |
|---|---|
| | |
| | |
| | |
| | |
| | |

## CASING DATA

| Press. p.s.i.g. | Temp. °F | Duration of Flow |
|---|---|---|
| 960 | | 7 days |
| 150 | 63° | 3 hours |
| | | |
| | | |
| | | |
| | | |

## 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 | | 162 | 0.9971 | 0.9608 | 1.015 | 1948 |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

| NO. | $P_t$ | Temp. °R | $T_t$ | Z |
|---|---|---|---|---|
| 1 | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |

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

$P_t$ 972 $P_t^2$ 944,784

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_t^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | | 33,768 | 911,016 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.0371$

(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2}\right]^n = 1.0277$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2}\right]^n = 2002$

Absolute Open Flow 2002 Mcfd @ 15.025 — Angle of Slope ← — Slope, n 0.75

Remarks:

Conducted By: — Calculated By: — Checked By:

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JUN 5 1981
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DIST. 3