# 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: 1/3/87 | |
| Company: Robert L. Bayless | | Connection: none | | | |
| Pool: Wildcat | | Formation: Pictured Cliffs | | | Unit |
| Completion Date: 12/24/86 | Total Depth: 3960 | | Plug Back TD: 3891 | Elevation: 7008 GL | Farm or Lease Name: Jicarilla |
| Csg. Size: 4-1/2 / Wt.: 11.6 / d: 4.000 / Set At: 3946 | | | Perforations: From 3635 To 3699 | | Well No.: 458 #2 |
| Tbg. Size: 1-1/2 / Wt.: 2.9 / d: 1.610 / Set At: 3652 | | | Perforations: From To | | Unit: O / Sec.: 7 / Twp.: 30N / Rge.: 3W |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas - Single | | | Packer Set At: none | | County: Rio Arriba |
| Producing Thru: tubing | Reservoir Temp. °F | Mean Annual Temp. °F | Baro. Press. – $P_a$: est. 12.0 | | State: New Mexico |

| L | H | Gg | % $CO_2$ | % $N_2$ | % $H_2S$ | Prover | Meter Run | Taps |
|---|---|---|---|---|---|---|---|---|
| | | est. .65 | | | | | | |

| | 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 | 10 days | | | | 1011 | | 1013 | | |
| 1. | 2" x .750 | | | | 252 | 60° | 802 | | 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 | | 264 | 1.0000 | .9608 | 1.027 | 3221 |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

| NO. | $P_t$ | Temp. °R | $T_f$ | 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 _____ XXXXXXXXX
Critical Pressure _____ P.S.I.A.
Critical Temperature _____ R _____ R

JAN 06 1987
OIL CON. DIV.
DIST. 3

$P_c$ 1025 $P_c^2$ 1,050,625

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 814 | 662,596 | 388,029 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.7076$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.3318$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7511$

Absolute Open Flow 7511 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

| Approved By Division | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | | | |