STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

# OIL CONSERVATION DIVISION

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: 7-24-81 | |
| Company: Caulkins Oil Company | | Connection: | | |
| Pool: Basin Dakota | | Formation: Dakota | | Unit: |
| Completion Date: 7-17-81 | Total Depth: 7500' | Plug Back TD: 7500' | Elevation: 6676' Gr. | Farm or Lease Name: Sanchez |
| Csg. Size: 5 1/2" / Wt.: 17# / 15.5# / d: 4.950 / 4.892 / Set At: 7500 | | Perforations: From 7282 To 7496 | | Well No.: 1 E |
| Tbg. Size: 2 1/16" / Wt.: 3.25# / d: 1.751 / Set At: 7421 | | Perforations: From 7421 To | | Unit: K / Sec.: 24 / Twp.: 26N / Rge.: 6W |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas - Gas Multiple | | Packer Set At: 5615 | | County: Rio Arriba |
| Producing Thru: Tubing | 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 |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| | 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 | | | | | 2163 | | PKR | | 7 Days |
| 1. | 3/4" choke | | | | 86 | | PKR | | 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 | 14.1605 | | 98 | 1.000 | 1.000 | 1.000 | 1388 |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

| NO. | $P_t$ | 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 _____ XXXXXXXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

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DIST. 3

$P_c$ 2175 $P_c^2$ 4,730,625

| NO | $P_t$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | 9,604 | 430 | 184,588 | 4,546,037 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.041$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0303$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1430$

Absolute Open Flow 1,430 Mcfd @ 15.025 Angle of Slope θ 75 Slope, n _____

Remarks: _____

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