# 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: 10-22-79 | |
| Company: Caulkins Oil Company | | | Connection: | | |
| Pool: Blanco-Mesa Verde | | | Formation: Mesa Verde | | Unit: |
| Completion Date: 10-15-79 | Total Depth: 7320 | | Plug Back TD: 7320 | Elevation: 6499 Gr. | Farm or Lease Name: Breech |
| Csg. Size: 7" / Wt.: 23 &26# / d: 6.366 / Set At: 7320 | | | Perforations: From 5022 To 5142 | | Well No.: 224-A |
| Tbg. Size: 1 1/4 / Wt.: 2.3# / d: 1.380 / Set At: 5090 | | | Perforations: From 5090 To | | Unit: D / Sec.: 13 / Twp.: 26N / Rge.: 7W |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual G-G Commingle and Dakota | | | Packer Set At: 5180 | | 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 | | | | | 1024 | | 994 | | 7 Days |
| 1. | | | | | 124 | | 716 | | 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 | 14.1605 | | 136 | 1.000 | 1.000 | 1.000 | 1,926 |
| 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 XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

$P_c$ 1036 $P_c^2$ 1,073,296

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 728 | 529,984 | 543,312 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.075$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.066$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3,209$

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OIL CON. COM.
DIST. 3

Absolute Open Flow 3,209 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: As recommended in letter dated 10-23-79. 54% Chacra 1724 MCFPD
46% Mesa Verde 1485 MCFPD

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