NEW MEXICO OIL CONSERVATION COMMISSION

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 4-1-65

| | | | | | |
|---|---|---|---|---|---|
| Type Test: [x] Initial [ ] Annual [ ] Special | | | | Test Date: 10-17-74 | |
| Company: Caulkins Oil Company | | Connection: | | | |
| Pool: South Blanco | | Formation: Pictured Cliffs | | Unit: | |
| Completion Date: 10-10-74 | Total Depth: 4000' | Plug Back TD: 4000' | Elevation: 6698 DF | Farm or Lease Name: Breech D | |
| Csg. Size: 4 1/2" / Wt.: 12.6# / d: 3.833 / Set At: 4000' | | Perforations: From 3008 To 3032 | | Well No.: 385 | |
| Tbg. Size: 1" / Wt.: 1.7# / d: 1.049 / Set At: 2950 | | Perforations: From None To | | Unit: M / Sec.: 22 / Twp.: 26N / Rge.: 6W | |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G.G. multiple | | Packer Set At: 3820 | | 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: Pipe | | | |

## FLOW DATA

| NO. | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. $h_w$ | Temp. °F | TUBING DATA Press. p.s.i.g. | TUBING DATA Temp. °F | CASING DATA Press. p.s.i.g. | CASING DATA Temp. °F | Duration of Flow |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SI | 7 Days | | | | | | 901 | | 915 | | |
| 1. | 3/4" | | | | | | 52 | | 515 | | 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 | | 64 | 1.000 | 1.000 | 1.000 | 906 |
| 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 _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

$P_c$ _____ $P_c^2$ _____

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 527 | 277,729 | 581,600 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.48$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.3954$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,264$

Absolute Open Flow 1,264 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n 85

Remarks: _____

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

OIL CON. COM. DIST. 3