NEW MEXICO OIL CONSERVATION COMMSSION

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

| | | | | | |
|---|---|---|---|---|---|
| Type Test: [X] Initial [ ] Annual [ ] Special | | | | Test Date: 9-16-69 | |
| Company: Caulkins Oil Company | | | Connection: | | |
| Pool: Basin Dakota | | | Formation: Dakota | | Unit: Basin |
| Completion Date: 8-24-69 | Total Depth: 7350 | | Plug Back TD: 7320 | Elevation: 6412 DF | Farm or Lease Name: Breech "B" |
| Csg. Size: 4 1/2" / Wt.: 10.5 11.6 / d: 4.000 / Set At: 7350 | | | Perforations: From 7032 To 7244 | | Well No.: 172 |
| Tbg. Size: 2 3/8" / Wt.: 4.7 / d: 1.995 / Set At: 7050 | | | Perforations: From 7050 To | | Unit: I / Sec.: 7 / Twp.: 26N / Rge.: 6W |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single Gas | | | Packer Set At: None | | County: Rio Arriba |
| Producing Thru: Tubing | Reservoir Temp. °F: 184 @ 7050 | | 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 | | | | 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 | 14 days | | | | 2378 | | 2383 | | |
| 1. | | | | | 345 | 60 | 925 | 60 | 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 | | 357 | 1.000 | 1.000 | 1.028 | 5197 |
| 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 | | 937 | 877,969 | 4,858,056 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.18$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1321$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5884$

Absolute Open Flow 5884 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n 75

Remarks: _____

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