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 [X] Special | | | | Test Date: 7-12-77 | |
| Company: Tenneco Oil Company | | | Connection | | |
| Pool: Blanco | | | Formation: Mesa Verde | | Unit |
| Completion Date: 7-1-77 | Total Depth: 5013' | | Plug Back TD: 4955' | Elevation: 5747' | Farm or Lease Name: Archuleta |
| Csg. Size: 4-1/2" / Wt.: 10.5# / d: / Set At: 5000' | | | Perforations: From 4941' To 4577' | | Well No.: 1-A |
| Tbg. Size: 2-3/8" / Wt.: 4.7# / d: / Set At: 4830' | | | Perforations: From To | | Unit: F, Sec.: 19, Twp.: 30N, Rge.: 8W |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single | | | Packer Set At: None set | | County: San Juan |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | | .680 | | | | | | |

| | 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 | | | | | 611 | | 834 | | |
| 1. | 2"x6x.75 | 285 | - | - | 285 | 60° | 759 | - | 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 | 11 | | 297 | 1 | 1.213 | 1.0336 | 4096 |
| 2. | | | | | | | |
| 3 | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

| NO. | $P_t$ | Temp. °R | $T_r$ | Z |
|---|---|---|---|---|
| 1 | 0.440 | 520 | 1.35 | .936 |
| 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

$P_c$ 846 $P_c^2$ 715716

| NO | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|
| 1 | 771 | 594441 | 121275 |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.9016$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.7864$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 15509$

Absolute Open Flow 15509 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n _____

Remarks: _____

| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | | J. D. Hicks | |