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: 2-7-77 | |
| Company: Tenneco Oil Company | | | Connection: | | |
| Pool: Blanco | | | Formation: Mesa Verde | | Unit: |
| Completion Date: 1/28/77 | Total Depth: 4,950' | | Plug Back TD: 4,890' | Elevation: 5,599' | Farm or Lease Name: Florance |
| Csg. Size: 4½" / Wt.: 10.5# / d: / Set At: 4935' | | | Perforations: From 4,288' To 4,313' | | Well No.: 41-A |
| Tbg. Size: 2-3/8" / Wt.: 4.7# / d: / Set At: 4512' | | | Perforations: From 3,634' To 4,130' | | Unit: J / Sec.: 21 / Twp.: 29N / Rge.: 9W |
| 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 | | | | | 387 | | 663 | | |
| 1. | 2x6x.750 | 129 | | 50 | 129 | 50 | 482 | | 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 | | 141 | 1.010 | 1.213 | 1.0164 | 1931 |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

| NO. | $P_r$ | Temp. °R | $T_r$ | Z |
|---|---|---|---|---|
| 1. | .29 | 517 | 1.39 | .962 |
| 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

$P_c$ 675 $P_c^2$ 455625

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 494 | 244036 | 211589 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.1533$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.7776$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3433$

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OIL CON. COM.
DIST. 3

Absolute Open Flow 3433 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

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