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: 12-29-78 | |
| Company: AMOCO PRODUCTION COMPANY | Connection: | | | |
| Pool: EAST BLANCO | Formation: PICTURED CLIFF | | | Unit: |
| Completion Date: 12-10-78 | Total Depth: 3943 | Plug Back TD: 3902 | Elevation: 6833 GL | Farm or Lease Name: SAN JUAN 29-4 |
| Csg. Size: 4.500 / Wt.: 10.5 / d: 4.052 / Set At: 3943 | | Perforations: From 3552 To 3820 | | Well No.: 22 |
| Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 3826 | | Perforations: From Open To Ended | | Unit: N / Sec.: 9 / Twp.: 29 / Rge.: 4 |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single | | Packer Set At: None | | 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 |
|---|---|---|---|---|---|---|---|---|
| | | 0.65 | | | | | | |

## FLOW DATA / TUBING DATA / CASING DATA

| NO. | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. $h_w$ | Temp. °F | Tubing Press. p.s.i.g. | Tubing Temp. °F | Casing Press. p.s.i.g. | Casing Temp. °F | Duration of Flow |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SI | 12 Days | | | | | | 1063 | | 1175 | | |
| 1. | 2.375 | | .750 | | | | 98 | | 363 | | 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 | 12.365 | | 110 | 1.000 | .9608 | 1.010 | 1320 |
| 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 _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

$P_c$ 1187 $P_c^2$ 1408969

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 375 | 140625 | 1268344 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1109$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0935$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1443$

Absolute Open Flow 1443 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | R.A. Conners | R. A. Conners | J. L. Krupka |