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: 10-4-76 | |
| Company: Northwest Pipeline Corp. | | | Connection: New Completion | | |
| Pool: Blanco | | | Formation: Mesa Verde | | Unit: San Juan 29-6 |
| Completion Date: 9-23-76 | Total Depth: 5715 | | Plug Back TD: 5630 | Elevation: 6423 GR | Farm or Lease Name: San Juan 29-6 Unit |
| Csg. Size: 7.000 / 4.500 | Wt.: 20# / 10.5# | d: 6.456 / 4.052 | Set At: 3657 / 3459-5674 | Perforations: From 5068 To 5618' | Well No.: 4A |
| Tbg. Size: 2.375 | Wt.: 4.7 | d: 1.995 | Set At: 5600 | Perforations: From To | Unit: E; Sec.: 17; Twp.: 29; Rge.: 6 |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas - slingle | | | Packer Set At: none | | County: Rio Arriba |
| Producing Thru: Tubing | Reservoir Temp. °F: @ | | Mean Annual Temp. °F | Baro. Press. – $P_a$: 12.0 | State: New Mexico |

| L | H | Gg | % $CO_2$ | % $N_2$ | % $H_2S$ | Prover | Meter Run | Taps |
|---|---|---|---|---|---|---|---|---|
| . | | .683 | | | | orifice meter | 4" | flange |

| | FLOW DATA | | | | TUBING DATA | | CASING DATA | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Prover Line Size x Orifice Size | Meter PSIG | Meter Diff. | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F | Duration of Flow |
| SI | | | | | 794 | | 886 | | SIP |
| 1. | 4" x 2.500 | 186 | 9.7 | 55° | 486 | | 724 | | 3 hours |
| 2. | | | | | | | | | |
| 3. | | | | | | | | | |
| 4. | | | | | | | | | |
| 5. | | | | | | | | | |

## RATE OF FLOW CALCULATIONS

| NO. | Coefficient (24 Hour) | Meter Static | Meter Diff. | Flow Temp. Factor Ft. | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
|---|---|---|---|---|---|---|---|
| 1 | 103.21 | 4.5 | 9.7 | 1.006 | 1.210 | 1.021 | 5599 |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

| NO. | $P_t$ | Temp. °R | $T_t$ | 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

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$P_c$ 898 $P_c^2$ 806404

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 736 | 541696 | 264708 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.0464$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.3059$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 12,911$

Absolute Open Flow 12,911 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Variable choke set at 48/64. Produced a trace of condensate.

| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | Fred Hamrick | Fred Hamrick js | |