# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

| | | | | | |
|---|---|---|---|---|---|
| Type Test: [X] Initial [ ] Annual [ ] Special | | | | Test Date: 11/20/75 | |
| Company: Northwest Pipeline Corporation | | Connection: New Completion | | | |
| Pool: Blanco | | Formation: Mesa Verde | | Unit: San Juan 30-5 | |
| Completion Date: 11/13/75 | Total Depth: 6297 | Plug Back TD: 6259 | Elevation: 6826 | Farm or Lease Name: San Juan 30-5 Unit | |
| Csg. Size: 4.500 / Wt.: 10.5 / d: 4.052 / Set At: 6293 | | Perforations: From 5852 To 6142 | | Well No.: 2R | |
| Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 6092 | | Perforations: From To | | Unit: H / Sec.: 20 / Twp.: 30 / Rge.: 5 | |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas – Single | | Packer Set At: None | | County: Rio Arriba | |
| Producing Thru: Tubing | Reservoir Temp. °F: θ | Mean Annual Temp. °F: | Baro. Press. – $P_a$: 12.0 | State: New Mexico | |
| L | H | Gg: .598 | % $CO_2$ | % $N_2$ | % $H_2S$ |
| Prover: 3/4 Positive Choke | Meter Run | Taps | | | |

| 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 | | | | | 1118 | | 1126 | | SIP |
| 1. | 2 X .750 | 165 | | 56° | 165 | | 574 | | 3 hr |
| 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 | | 177 | 1.004 | 1.002 | 1.013 | 2230 |
| 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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

$P_c$ 1138 $P_c^2$ 1295044

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 586 | 343396 | 951648 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3608$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2600$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2810$

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Absolute Open Flow 2810 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Well produced light mist of water through out test.

| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | Bill Beevers | Bobby Broughton | BGB |