# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

| | | | |
|---|---|---|---|
| Type Test: [X] Initial [ ] Annual [ ] Special | | Test Date: 12-8-75 | |
| Company: Northwest Pipeline Corp. | Connection: New Completion | | |
| Pool: Blanco | Formation: Mesa Verde | | Unit: San Juan 30-5 |
| Completion Date: 12-1-75 | Total Depth: 6174' | Plug Back TD: 6128' | Elevation: 6723 GR |
| Farm or Lease Name: San Juan 30-5 Unit | | | |
| Csg. Size: 4.500 | Wt.: 10.5 | d: 4.052 | Set At: 6161' |
| Perforations: From 5626' To 6074' | | | Well No.: 54 |
| Tbg. Size: 2.375 | Wt.: 4.7 | d: 1.995 | Set At: 6013' |
| Perforations: From To | | | Unit: L Sec.: 28 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: @ | Mean Annual Temp. °F: | Baro. Press. – $P_a$: 12.0 |
| State: New Mexico | | | |

| L | H | Gg | % $CO_2$ | % $N_2$ | % $H_2S$ | Prover: 3/4 positive choke | Meter Run | Taps |
|---|---|---|---|---|---|---|---|---|
| | | .595 | | | | | | |

| FLOW DATA | | | | | TUBING DATA | | CASING DATA | | Duration of Flow |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Prover Line Size | X Orifice Size | p.s.i.g. | Diff. | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F | |
| SI | SIP | | | | | 324 | | 1114 | | 7 day SIP |
| 1. | 2 | x .750 | 157 | | 59 | | | 510 | | 3 hours |
| 2. | | | | | | | | | | |
| 3. | | | | | | | | | | |
| 4. | | | | | | | | | | |
| 5. | | | | | | | | | | |

RATE OF FLOW CALCULATIONS

| NO. | Coefficient (24 Hour) | | Pressure | Flow Temp. Factor Ft. | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
|---|---|---|---|---|---|---|---|
| 1 | 12.365 | | 169 | 1.001 | 1.004 | 1.013 | 2127 |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

| NO. | $P_t$ | Temp. °R | $T_r$ | Z |
|---|---|---|---|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |

RECEIVED DEC 17 1975 OIL CON. COM. DIST. 3

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

$P_c$ 1126 $P_c^2$ 126876

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 522 | 272484 | 995392 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1267876}{995392}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1990$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2550$

Absolute Open Flow 2550 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Tubing blew dead within 3 minutes. Made solid stream of water for six minutes then cleared to medium mist for remainder of test.

| Approved By Commission: | Conducted By: Larry G. Moore | Calculated By: R.E. Fielder | Checked By: REF js |
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