

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

|                                                                                                                           |            |                             |                   |                                                 |                    |
|---------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------|-------------------|-------------------------------------------------|--------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |            |                             |                   | Test Date<br>1-23-86                            |                    |
| Company<br>Robert L. Bayless                                                                                              |            |                             |                   | Connection<br>Northwest Pipeline Corp.          |                    |
| Pool<br>Rusty Chacra                                                                                                      |            |                             |                   | Formation<br>Chacra                             |                    |
| Completion Date<br>1-16-86                                                                                                |            | Total Depth<br>1950 RKB     |                   | Plug back TD<br>1918 RKB                        |                    |
|                                                                                                                           |            |                             |                   | Elevation<br>7032' GL                           |                    |
| Farm or Lease Name<br>Natani                                                                                              |            |                             |                   | Well No.<br>#34                                 |                    |
| Csq. Size<br>2.875                                                                                                        | Wt.<br>6.5 | d<br>2.441                  | Set At<br>1958    | Perforations:<br>From 1709 To 1818              |                    |
| Trq. Size<br>None                                                                                                         | Wt.        | d                           | Set At            | Perforations:<br>From To                        |                    |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |            |                             |                   | Packer Set At<br>None                           |                    |
| Producing Thru<br>Casing                                                                                                  |            |                             |                   | Baro. Press. - P <sub>a</sub><br>12 psia - est. |                    |
| Reservoir Temp. °F<br>A                                                                                                   |            |                             |                   | Mean Annual Temp. °F                            |                    |
| County<br>Sandoval                                                                                                        |            |                             |                   | State<br>New Mexico                             |                    |
| L                                                                                                                         | H          | G <sub>g</sub><br>.65 (est) | % CO <sub>2</sub> | % N <sub>2</sub>                                | % H <sub>2</sub> S |
| Prover                                                                                                                    |            | Meter Run                   |                   | Taps                                            |                    |

  

| FLOW DATA |                  |   |              |                 |                      |          | TUBING DATA     |          | CASING DATA     |          | Duration of Flow |
|-----------|------------------|---|--------------|-----------------|----------------------|----------|-----------------|----------|-----------------|----------|------------------|
| NO.       | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. h <sub>w</sub> | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F |                  |
| SI        | 7 days           |   |              |                 |                      |          |                 |          | 260             |          |                  |
| 1.        | 2" X .750        |   |              |                 |                      |          |                 |          | 76              | 40° F    | 3 hrs            |
| 2.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |
| 3.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |
| 4.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |
| 5.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |

  

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                       |                               |                                         |                      |
|---------------------------|-----------------------|------------------|-------------------------|-----------------------|-------------------------------|-----------------------------------------|----------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor Ft. | Gravity Factor F <sub>g</sub> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1                         | 12.3650               |                  | 88                      | 1.0198                | .9608                         | 1.010                                   | 1077                 |
| 2.                        |                       |                  |                         |                       |                               |                                         |                      |
| 3.                        |                       |                  |                         |                       |                               |                                         |                      |
| 4.                        |                       |                  |                         |                       |                               |                                         |                      |
| 5.                        |                       |                  |                         |                       |                               |                                         |                      |

  

| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z | Gas Liquid Hydrocarbon Ratio Mcf/bbl. | A.P.I. Gravity of Liquid Hydrocarbons Deg. | Specific Gravity Separator Gas | Specific Gravity Flowing Fluid | Critical Pressure P.S.I.A. | Critical Temperature R |
|-----|----------------|----------|----------------|---|---------------------------------------|--------------------------------------------|--------------------------------|--------------------------------|----------------------------|------------------------|
| 1   |                |          |                |   |                                       |                                            |                                |                                |                            |                        |
| 2.  |                |          |                |   |                                       |                                            |                                |                                |                            |                        |
| 3.  |                |          |                |   |                                       |                                            |                                |                                |                            |                        |
| 4.  |                |          |                |   |                                       |                                            |                                |                                |                            |                        |
| 5.  |                |          |                |   |                                       |                                            |                                |                                |                            |                        |

  

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|                                                               |  |  |  |                                                             |  |  |  |
|---------------------------------------------------------------|--|--|--|-------------------------------------------------------------|--|--|--|
| $(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.1660$                    |  |  |  | $(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1221$ |  |  |  |
| $AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1208$ |  |  |  |                                                             |  |  |  |

  

|                                        |                        |              |
|----------------------------------------|------------------------|--------------|
| Absolute Open Flow _____ Mcfd @ 15.025 | Angle of Slope @ _____ | Slope, n .75 |
|----------------------------------------|------------------------|--------------|

  

Remarks: \_\_\_\_\_

  

|                      |                             |                                |             |
|----------------------|-----------------------------|--------------------------------|-------------|
| Approved By Division | Conducted By:<br>David Ball | Calculated By:<br>Kevin McGord | Checked By: |
|----------------------|-----------------------------|--------------------------------|-------------|