

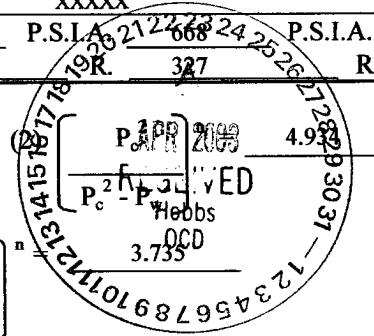
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See Rule 401 & Rule 1122

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-122  
Revised October, 1999

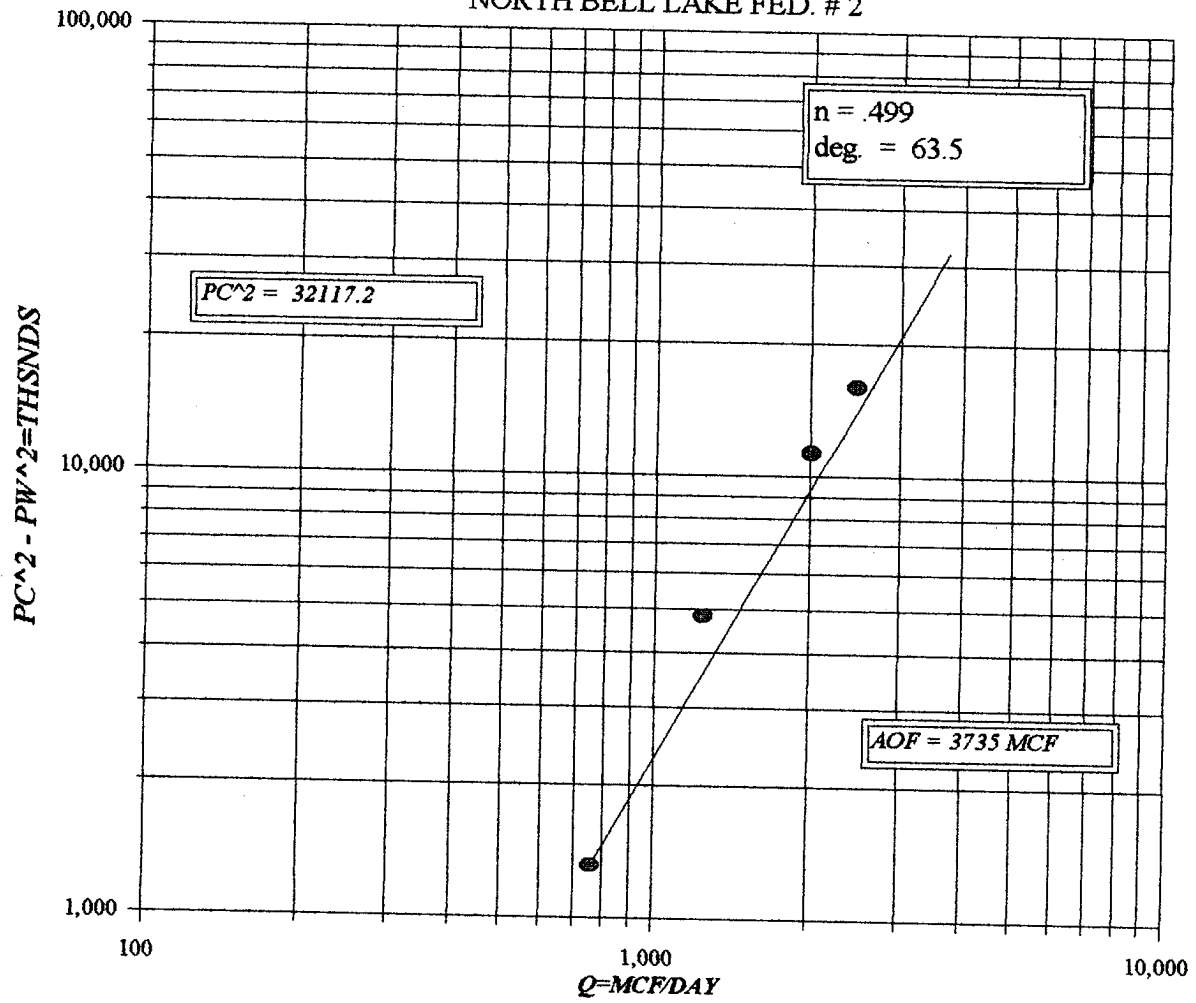
### MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

|                                                                                                                           |                             |                                          |                                   |                                                           |                                                               |                                          |                                                  |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------|-----------------------------------|-----------------------------------------------------------|---------------------------------------------------------------|------------------------------------------|--------------------------------------------------|
| Operator<br><b>AMERADA HESS CORP.</b>                                                                                     |                             |                                          |                                   | Lease or Unit Name<br><b>NORTH BELL LAKE FED</b>          |                                                               |                                          |                                                  |
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                             |                                          |                                   |                                                           |                                                               | Test Date<br><b>3/29/03</b>              | Well No.<br><b>2</b>                             |
| Completion Date<br><b>2/14/03</b>                                                                                         |                             | Total Depth<br><b>17710</b>              |                                   | Plug Back TD<br><b>13486</b>                              |                                                               | Elevation<br><b>3443GL</b>               | Unit Ltr - Sec - TWP - Rge<br><b>N-5-23S-34E</b> |
| Csg. Size<br><b>5 1/2</b>                                                                                                 | Wt.<br><b>23</b>            | d<br><b>4.67</b>                         | Set At<br><b>15454</b>            | Perforations:<br>From: <b>12637</b> To: <b>13004</b>      |                                                               |                                          | County<br><b>LEA</b>                             |
| Tbg. Size<br><b>2 7/8</b>                                                                                                 | Wt.<br><b>6.5</b>           | d<br><b>2.323</b>                        | Set At<br><b>12483</b>            | Perforations:<br>From:                      To:           |                                                               |                                          | Pool<br><b>Gramma Ridge Marrow Gas</b>           |
| Type Well-Single-Bradenhead-G.G. or G.O. Multiple<br><b>SINGLE</b>                                                        |                             |                                          |                                   | Packer Set At<br><b>12483</b>                             |                                                               | Formation<br><b>Marrow</b>               |                                                  |
| Producing Thru<br>Tubing                                                                                                  |                             | Reservoir Temp. °F<br><b>199</b>         | Mean Annual Temp. °F<br><b>60</b> | Baro. Press. - P <sub>a</sub><br><b>13.2</b>              |                                                               |                                          | Connection<br><b>SALES</b>                       |
| L<br><b>12567</b>                                                                                                         | H<br><b>12567</b>           | Gg<br><b>0.65</b>                        | %CO <sub>2</sub><br><b>0.229</b>  | %N <sub>2</sub><br><b>0.83</b>                            | %H <sub>2</sub> S<br><b>N/A</b>                               | Prover<br><b>N/A</b>                     | Meter Run<br><b>3.068</b>                        |
|                                                                                                                           |                             |                                          |                                   |                                                           |                                                               | Taps<br><b>FLG</b>                       |                                                  |
| FLOW DATA                                                                                                                 |                             |                                          |                                   | TUBING DATA                                               |                                                               | CASING DATA                              |                                                  |
| No.                                                                                                                       | Prover<br>Line<br>Size      | Orifice<br>x<br>Size                     | Press<br>p.s.i.g.                 | Diff.<br>h <sub>w</sub>                                   | Temp.<br>°F                                                   | Press<br>p.s.i.g.                        | Temp.<br>°F                                      |
| SI                                                                                                                        |                             |                                          |                                   |                                                           |                                                               |                                          |                                                  |
| 1                                                                                                                         | 3.068 X 2.000               |                                          | 176                               | 4.7                                                       | 118                                                           | 5536                                     | N/A                                              |
| 2                                                                                                                         | 3.068 X 2.000               |                                          | 191                               | 11.3                                                      | 94                                                            | 5209                                     |                                                  |
| 3                                                                                                                         | 3.068 X 2.000               |                                          | 203                               | 27.8                                                      | 87                                                            | 4544                                     |                                                  |
| 4                                                                                                                         | 3.068 X 2.000               |                                          | 228                               | 35.5                                                      | 76                                                            | 3999                                     |                                                  |
| 5                                                                                                                         |                             |                                          |                                   |                                                           |                                                               |                                          |                                                  |
| RATE OF FLOW CALCULATIONS                                                                                                 |                             |                                          |                                   |                                                           |                                                               |                                          |                                                  |
| No.                                                                                                                       | COEFFICIENT<br>(24 Hour)    | $\sqrt{h_w P_m}$                         | Pressure<br>P <sub>m</sub>        | Flow Temp.<br>Factor Ft.                                  | Gravity Factor<br>F <sub>g</sub>                              | Super Compress<br>Factor F <sub>pv</sub> | Rate of Flow<br>Q. Mcfd                          |
| 1                                                                                                                         |                             |                                          |                                   |                                                           |                                                               |                                          | 760                                              |
| 2                                                                                                                         |                             |                                          |                                   |                                                           |                                                               |                                          | 1239                                             |
| 3                                                                                                                         | TOTAL                       | FLOW                                     | METER                             |                                                           |                                                               |                                          | 2055                                             |
| 4                                                                                                                         |                             |                                          |                                   |                                                           |                                                               |                                          | 2507                                             |
| 5                                                                                                                         |                             |                                          |                                   |                                                           |                                                               |                                          |                                                  |
| No.                                                                                                                       | P <sub>r</sub>              | Temp. °R                                 | T <sub>r</sub>                    | Z                                                         | Gas Liquid Hydrocarbon Ratio<br><b>17.086</b> Mcf bbl.        |                                          |                                                  |
| 1                                                                                                                         |                             |                                          |                                   |                                                           | A.P. I. Gravity of Liquid Hydrocarbons<br><b>49 @ 60</b> Deg. |                                          |                                                  |
| 2                                                                                                                         |                             |                                          |                                   |                                                           | Specific Gravity Separator Gas<br><b>0.65</b> XXXXXXXX        |                                          |                                                  |
| 3                                                                                                                         | TOTAL                       | FLOW                                     | METER                             |                                                           | Specific Gravity Flowing Fluid<br><b>N/A</b> XXXXXX           |                                          |                                                  |
| 4                                                                                                                         |                             |                                          |                                   |                                                           | Critical Pressure<br><b>673</b> P.S.I.A. <b>2122</b> P.S.I.A. |                                          |                                                  |
| 5                                                                                                                         |                             |                                          |                                   |                                                           | Critical Temperature<br><b>371</b> °R. <b>327</b> °R          |                                          |                                                  |
| P <sub>c</sub> <b>5667.2</b> P <sub>c2</sub> <b>32117.1</b>                                                               |                             |                                          |                                   |                                                           |                                                               |                                          |                                                  |
| No.                                                                                                                       | P <sub>t</sub> <sup>2</sup> | P <sub>w</sub>                           | P <sub>w</sub> <sup>2</sup>       | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $P_c^2 = \frac{24.503}{P_c^2 - P_w^2}$                    |                                          |                                                  |
| 1                                                                                                                         |                             | 5550.4                                   | 30806.4                           | 1310.7                                                    | 4.93                                                          |                                          |                                                  |
| 2                                                                                                                         |                             | 5225.4                                   | 27304.3                           | 4812.8                                                    |                                                               |                                          |                                                  |
| 3                                                                                                                         |                             | 4565.7                                   | 20846                             | 11271.2                                                   |                                                               |                                          |                                                  |
| 4                                                                                                                         |                             | 4025.3                                   | 16203.4                           | 15913.8                                                   |                                                               |                                          |                                                  |
| 5                                                                                                                         |                             |                                          |                                   |                                                           |                                                               |                                          |                                                  |
| Absolute Open Flow<br><b>3,735</b>                                                                                        |                             |                                          |                                   | Mcf/d @ 15.025                                            | Angle of Slope (°)                                            | <b>63.5</b>                              | Slope n: <b>0.499</b>                            |
| Remarks:<br><b>* WELL MADE 16 BBLS OF 49 API GRAVITY CONDENSATE DURING TEST.</b>                                          |                             |                                          |                                   |                                                           |                                                               |                                          |                                                  |
| Approved By Division:<br><i>Paul S. Rantz</i>                                                                             |                             | Conducted By:<br><b>PRO WELL TESTING</b> |                                   | Calculated By:<br><b>MERV BUECKER</b>                     |                                                               | Checked By:<br><b>MB</b>                 |                                                  |



# HESS

NORTH BELL LAKE FED. # 2



COMPANY : HESS  
 UNIT :  
 L : 12567  
 %CO2 :  
 d : 2.441  
 LEASE : N. BELL LAKE FED, WELL NO. : 2  
 SECTION : 0  
 H : 12567  
 %N2 :  
 Fr : 0.010763  
 TOWNSHIP : 0  
 L/H : 1  
 G/GMIX : 0.828  
 H2S :  
 GH : 10405.5  
 DATE : 3-29-03  
 RANGE : 0

Pc = 5667.2  
 Pc2 = 32117.2 \*  
 Pt2 = \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 Pw = 5550.4 \*  
 5225.4 \*  
 4565.7 \*  
 4025.3 \*

VOL 1 : 758 PSIA 1 : 5549.2  
 VOL 2 : 1246 PSIA 2 : 5222.2  
 VOL 3 : 2018 PSIA 3 : 4557.2  
 VOL 4 : 2463 PSIA 4 : 4012.2  
 RESV.TEMP 179.7  
 SHUT-IN PR= 5667.2

PCR : 665  
 TCR : 431

Pc2-Pw2= 1310.7 Pw2 = 30806.4 \*  
 4812.8 27304.3 \*  
~~\*\*\*\*\*~~ 20846.0 \*  
~~11271.2~~ 16203.4 \*  
~~\*\*\*\*\*~~  
 15913.8

n = 0.499

Pc2/(Pc2-Pw2) = 24.503  
 6.673  
 2.849  
 2.018

[Pc2/Pc2-Pw2]n = 4.934  
 2.578  
 1.686  
 1.420

AOF= Q 3.735  
 3.213  
 3.403  
 3.497

| LINE         | RATE 1   |          | RATE 2   |          | RATE 3   |          | RATE 4   |           |
|--------------|----------|----------|----------|----------|----------|----------|----------|-----------|
|              | 1ST      | 2ND      | 1ST      | 2ND      | 1ST      | 2ND      | 1ST      | 2ND       |
| 1 QM         | 0.758    | 0.758    | 1.246    | 1.246    | 2.018    | 2.018    | 2.463    | 2.463     |
| 2 TW         | 534      | 534      | 534      | 534      | 534      | 534      | 534      | 534       |
| 3 Ts         | 639.7    | 639.7    | 639.7    | 639.7    | 639.7    | 639.7    | 639.7    | 639.7     |
| 4 T          | 586.9    | 586.9    | 586.9    | 586.9    | 586.9    | 586.9    | 586.9    | 586.9     |
| PR (est)     | 8.34     |          | 7.85     |          | 6.85     |          | 6.03     |           |
| 5 Z(est)     | 0.981    | 1.114    | 0.942    | 1.073    | 0.864    | 0.990    | 0.803    | 0.921     |
| 6 TZ         | 575.4    | 653.8    | 552.7    | 630.0    | 507.2    | 581.2    | 471.2    | 540.8     |
| 7 GH/TZ      | 18.083   | 15.915   | 18.826   | 16.518   | 20.517   | 17.905   | 22.084   | 19.242    |
| 8 eS         | 1.970    | 1.816    | 2.026    | 1.858    | 2.158    | 1.957    | 2.289    | 2.058     |
| 9 l-e-S      | 0.492    | 0.449    | 0.506    | 0.462    | 0.537    | 0.489    | 0.563    | 0.514     |
| 10 Pt        | 5549.2   | 5549.2   | 5222.2   | 5222.2   | 4557.2   | 4557.2   | 4012.2   | 4012.2    |
| 11 Pt2 /1000 | 30793.6  | 30793.6  | 27271.4  | 27271.4  | 20768.1  | 20768.1  | 16097.7  | 16097.7   |
| 12 Fr        | 0.010763 | 0.010763 | 0.010763 | 0.010763 | 0.010763 | 0.010763 | 0.010763 | 0.010763  |
| 13 Fc=FrTZ   | 6.193    | 7.037    | 5.949    | 6.780    | 5.459    | 6.255    | 5.071    | 5.820     |
| 14 FcQm      | 4.69     | 5.33     | 7.41     | 8.45     | 11.02    | 12.62    | 12.49    | 14.34     |
| 15 L/H(FcQm) | 22.0     | 28.5     | 54.9     | 71.4     | 121.3    | 159.3    | 156.0    | 205.5     |
| 16 Fw        | 10.85250 | 12.78724 | 27.82124 | 32.95622 | 65.12717 | 77.91660 | 87.86294 | 105.63571 |
| 17 Pw2       | 30804.5  | 30806.4  | 27299.2  | 27304.3  | 20833.2  | 20846.0  | 16185.6  | 16203.4   |
| 18 Ps2       | 60690.2  | 55955.3  | 55304.3  | 50726.9  | 44966.5  | 40796.4  | 37049.5  | 33340.9   |
| 19 Ps        | 7790.4   | 7480.3   | 7436.7   | 7122.3   | 6705.7   | 6387.2   | 6086.8   | 5774.2    |
| 20 P         | 6669.8   | 6514.8   | 6329.4   | 6172.2   | 5631.5   | 5472.2   | 5049.5   | 4893.2    |
| 21 Pr        | 10.03    | 9.80     | 9.52     | 9.28     | 8.47     | 8.23     | 7.59     | 7.36      |
| 22 Tr        | 1.36     | 1.36     | 1.36     | 1.36     | 1.36     | 1.36     | 1.36     | 1.36      |
| 23 Z         | 1.114    | 1.096    | 1.073    | 1.055    | 0.990    | 0.971    | 0.921    | 0.903     |

FORM C122-D

# GOR/GMIX NEW MEXICO

\*\*\*\*\*

|                          |   |       |
|--------------------------|---|-------|
| VOLUME OF FIRST RATE     | = | 760.0 |
| DURATION OF FLOW IN MIN. | = | 60.0  |

|                          |   |         |
|--------------------------|---|---------|
| VOLUME OF SECOND RATE    | = | 1,239.0 |
| DURATION OF FLOW IN MIN. | = | 60.0    |

|                          |   |         |
|--------------------------|---|---------|
| VOLUME OF THIRD RATE     | = | 2,055.0 |
| DURATION OF FLOW IN MIN. | = | 60.0    |

|                          |   |         |
|--------------------------|---|---------|
| VOLUME OF FOURTH RATE    | = | 2,507.0 |
| DURATION OF FLOW IN MIN. | = | 60.0    |

|                          |   |     |
|--------------------------|---|-----|
| VOLUME OF FIFTH RATE     | = | .   |
| DURATION OF FLOW IN MIN. | = | 1.0 |

|                          |   |     |
|--------------------------|---|-----|
| VOLUME OF SIXTH RATE     | = | .   |
| DURATION OF FLOW IN MIN. | = | 1.0 |

=====

## NEW MEXICO G.O.R./G. MIX

=====

|                       |   |      |
|-----------------------|---|------|
| NO. OF BBLS PRODUCED  | = | 16.0 |
| API GRAVITY @ 60 DEG. | = | 49.0 |

|                         |   |        |
|-------------------------|---|--------|
| SPECIFIC GRAVITY OF GAS | = | 0.6500 |
|-------------------------|---|--------|

XXXXXXXXXXXXXXXXXXXXXXXXXXXXX X XXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

|                           |   |            |
|---------------------------|---|------------|
| <b>TOTAL GAS PRODUCED</b> | = | <b>273</b> |
|---------------------------|---|------------|

|               |   |               |
|---------------|---|---------------|
| <b>G.O.R.</b> | = | <b>17.086</b> |
|---------------|---|---------------|

|              |   |              |
|--------------|---|--------------|
| <b>G.MIX</b> | = | <b>0.826</b> |
|--------------|---|--------------|