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appropriate district office.  
See Rule 401 & Rule 1122

State of New Mexico  
Energy Minerals and Natural Resources

Form C-122  
Revised October, 1999

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

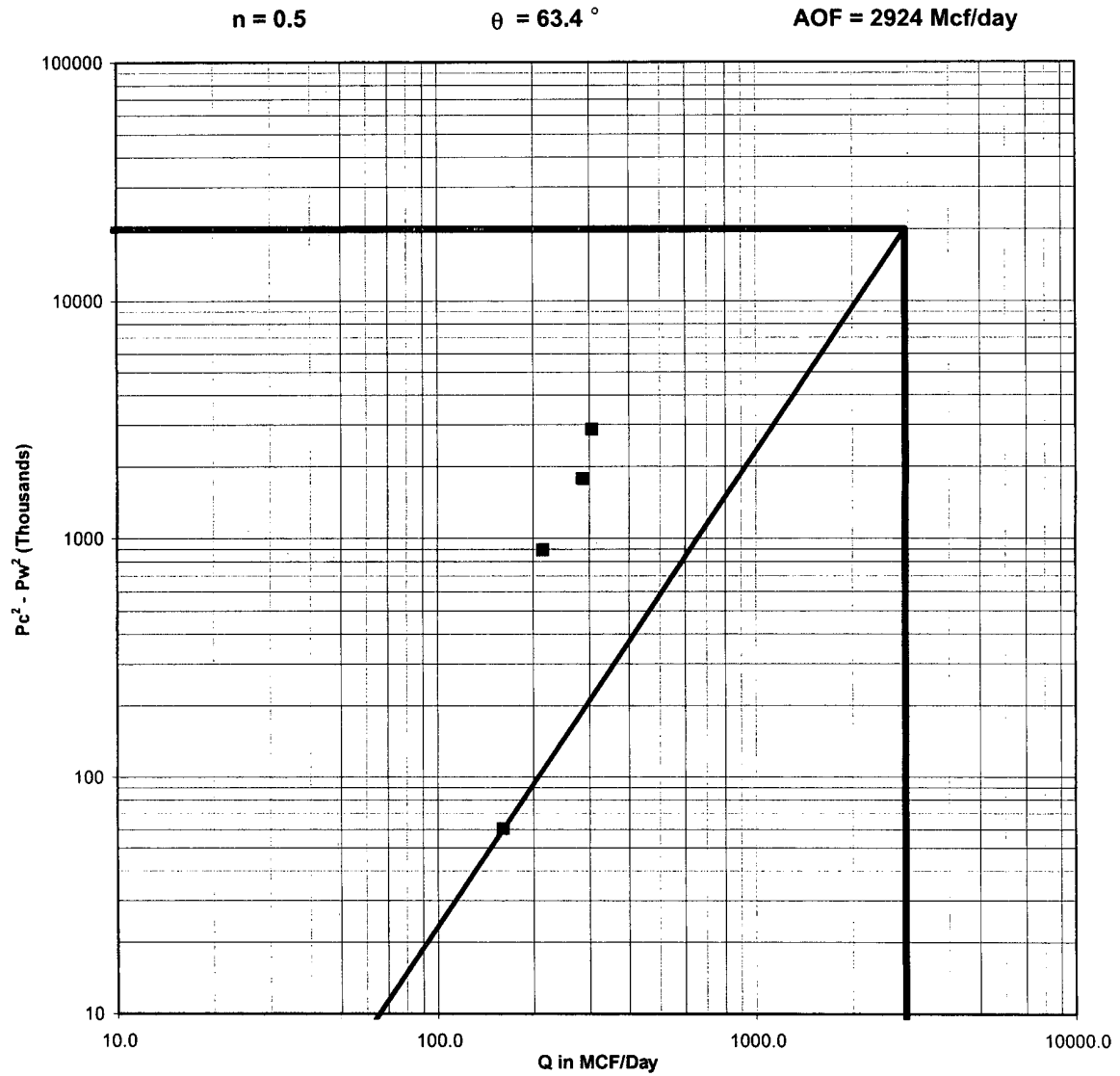
30-025-30046

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

|                                                                                                                                                                       |                             |                                     |                             |                                                           |                                                                                       |                                         |                      |                                         |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------|-----------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------|----------------------|-----------------------------------------|----------|
| Operator <b>CW Trainer</b>                                                                                                                                            |                             |                                     |                             |                                                           | Lease or Unit Name<br><b>GRAMA RIDGE #1</b>                                           |                                         |                      |                                         |          |
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special                                                |                             |                                     |                             |                                                           | Test Date<br><b>08/06/2005</b>                                                        |                                         |                      |                                         |          |
| Completion Date<br><b>8-6-2005</b>                                                                                                                                    |                             |                                     |                             |                                                           | Total Depth<br><b>13570'</b>                                                          |                                         |                      |                                         |          |
| Plug Back TD<br><b>13430'</b>                                                                                                                                         |                             |                                     |                             |                                                           | Elevation<br><b>3595' KB</b>                                                          |                                         |                      |                                         |          |
| Unit Ltr. - Sec. - TWP - Rgc.<br><b>H 8 - 223 - 34E</b>                                                                                                               |                             |                                     |                             |                                                           | County<br><b>LEA</b>                                                                  |                                         |                      |                                         |          |
| Csg. Size<br><b>7"</b>                                                                                                                                                |                             | Wt.<br><b>472 lb/ft</b>             |                             | Set At<br><b>11550'</b>                                   |                                                                                       | Perforations: <b>12848 - 12859</b>      |                      | From: <b>12888</b> To: <b>12890 1/2</b> |          |
| Thg. Size<br><b>2 3/8"</b>                                                                                                                                            |                             | Wt.<br><b>4.7#</b>                  |                             | Set At<br><b>13410'</b>                                   |                                                                                       | Perforations: <b>None</b>               |                      | From: <b>None</b> To: <b>None</b>       |          |
| Type Well <input checked="" type="checkbox"/> Single <input type="checkbox"/> Bradenhead - G.G. or G.O. Multiple                                                      |                             |                                     |                             |                                                           | Packer Set At<br><b>none</b>                                                          |                                         |                      |                                         |          |
| Producing Thru                                                                                                                                                        |                             |                                     |                             |                                                           | Reservoir Temp. °F<br><b>185</b>                                                      |                                         |                      |                                         |          |
| Mean Annual Temp. °F<br><b>60</b>                                                                                                                                     |                             |                                     |                             |                                                           | Baro. Press - P <sub>a</sub><br><b>13.2</b>                                           |                                         |                      |                                         |          |
| Prover                                                                                                                                                                |                             |                                     |                             |                                                           | Meter Run                                                                             |                                         |                      |                                         |          |
| Taps                                                                                                                                                                  |                             |                                     |                             |                                                           | Formation<br><b>Morrow</b>                                                            |                                         |                      |                                         |          |
| FLOW DATA                                                                                                                                                             |                             |                                     |                             |                                                           | TUBING DATA                                                                           |                                         |                      |                                         |          |
| Casing Data                                                                                                                                                           |                             |                                     |                             |                                                           | Duration Of Flow                                                                      |                                         |                      |                                         |          |
| No.                                                                                                                                                                   | Prover Line Size            | 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                                                                                                                                                                    |                             |                                     |                             |                                                           |                                                                                       | 795.0                                   |                      |                                         |          |
| 1.                                                                                                                                                                    | Choke                       | 6/64"                               | 765.0                       |                                                           | 89                                                                                    | 765.0                                   | 94                   |                                         | 1        |
| 2.                                                                                                                                                                    |                             | 8/64"                               | 653.0                       |                                                           | 90                                                                                    | 653.0                                   | 94                   |                                         | 1        |
| 3.                                                                                                                                                                    |                             | 10/64"                              | 545.0                       |                                                           | 88                                                                                    | 545.0                                   | 94                   |                                         | 1        |
| 4.                                                                                                                                                                    |                             | 12/64"                              | 403.0                       |                                                           | 89                                                                                    | 403.0                                   | 94                   |                                         | 1        |
| 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.                                                                                                                                                                    | 0.1659                      |                                     | 778.2                       | 0.9735                                                    | 1.200                                                                                 | 1.067                                   | 161                  |                                         |          |
| 2.                                                                                                                                                                    | 0.2618                      |                                     | 666.2                       | 0.9726                                                    | 1.200                                                                                 | 1.057                                   | 215                  |                                         |          |
| 3.                                                                                                                                                                    | 0.4173                      |                                     | 558.2                       | 0.9744                                                    | 1.200                                                                                 | 1.049                                   | 286                  |                                         |          |
| 4.                                                                                                                                                                    | 0.6101                      |                                     | 416.2                       | 0.9732                                                    | 1.200                                                                                 | 1.035                                   | 307                  |                                         |          |
| 5.                                                                                                                                                                    |                             |                                     |                             |                                                           |                                                                                       |                                         |                      |                                         |          |
| No.                                                                                                                                                                   | P <sub>i</sub>              | Temp. °R                            | T <sub>r</sub>              | Z                                                         | Gas Liquid Hydrocarbon Ratio N/A Mcf/bbl                                              |                                         |                      |                                         |          |
| 1.                                                                                                                                                                    | 7.66                        | 549                                 | 1.45                        | 0.959                                                     | A. P. I. Gravity of Liquid Hydrocarbons N/A Deg.                                      |                                         |                      |                                         |          |
| 2.                                                                                                                                                                    | 7.51                        | 550                                 | 1.45                        | 0.949                                                     | Specific Gravity Separator Gas 0.694 XXXXXXXX                                         |                                         |                      |                                         |          |
| 3.                                                                                                                                                                    | 7.35                        | 548                                 | 1.45                        | 0.937                                                     | Specific Gravity Flowing Fluid XXXXXX                                                 |                                         |                      |                                         |          |
| 4.                                                                                                                                                                    | 7.15                        | 549                                 | 1.45                        | 0.923                                                     | Critical Pressure 668 P.S.I.A. P.S.I.A.                                               |                                         |                      |                                         |          |
| 5.                                                                                                                                                                    |                             |                                     |                             |                                                           | Critical Temperature 412 R. R.                                                        |                                         |                      |                                         |          |
| P <sub>c</sub> 4463.8                                                                                                                                                 |                             | P <sub>c</sub> <sup>2</sup> 19925.5 |                             |                                                           |                                                                                       |                                         |                      |                                         |          |
| No.                                                                                                                                                                   | P <sub>i</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 <sub>c</sub> = 330.4 (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 18.18$ |                                         |                      |                                         |          |
| 1.                                                                                                                                                                    | 605.6                       |                                     | 19865.2                     | 60.3                                                      | AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,924$                        |                                         |                      |                                         |          |
| 2.                                                                                                                                                                    | 443.8                       |                                     | 19032.7                     | 892.8                                                     |                                                                                       |                                         |                      |                                         |          |
| 3.                                                                                                                                                                    | 311.6                       |                                     | 18150.2                     | 1775.3                                                    |                                                                                       |                                         |                      |                                         |          |
| 4.                                                                                                                                                                    | 173.2                       |                                     | 17068.3                     | 2857.2                                                    |                                                                                       |                                         |                      |                                         |          |
| 5.                                                                                                                                                                    |                             |                                     |                             |                                                           |                                                                                       |                                         |                      |                                         |          |
| Absolute Open Flow 2,924 Mcfd @ 15.025                                                                                                                                |                             |                                     |                             |                                                           | Angle of Slope θ: 63.4 Slope, n: 0.500                                                |                                         |                      |                                         |          |
| Remarks: The choke coefficient for the 6/64" size was taken from data published by the Bureau of Mines Monograph 7 and corrected to New Mexico's standard conditions. |                             |                                     |                             |                                                           |                                                                                       |                                         |                      |                                         |          |
| Approved By Division                                                                                                                                                  |                             |                                     |                             |                                                           | Conducted By:                                                                         |                                         |                      |                                         |          |
| Calculated By:                                                                                                                                                        |                             |                                     |                             |                                                           | Checked By:                                                                           |                                         |                      |                                         |          |

# GAS WELL BACK-PRESSURE CURVE

CW TRAINER  
GRAMA RIDGE #1  
LEA COUNTY, NM  
8/6/2005



# MITCHELL ANALYTICAL LABORATORY

2638 Faudree  
Odessa, Texas 79765-8538  
(432) 561-5579

## Gas Analysis

|              |                                      |                  |               |
|--------------|--------------------------------------|------------------|---------------|
| Company:     | <b>ARC Pressure Data, Inc. (211)</b> |                  |               |
| Producer:    | CW Trainer                           | Sample Pressure: | 250           |
| Lease:       | Gamma Ridge #1                       | Sample Temp:     | 90.6          |
| Station #:   |                                      | Date Sampled:    | 08/06/2005    |
| Date Run:    | 08/08/2005                           | Sampled by:      | Manny Salazar |
| Lab Ref #:   | 05-AUG-25550                         | Field Gravity:   |               |
| Analyzed by: | DANIEL                               | Field H2S:       | 0             |
|              |                                      | Pump Status:     |               |

No Pressure

Physical Constants per GPA 2145-03  
All values calculated @ 60.0 Deg. F.

|             | Mole % | 14.65 psia<br>GPM<br>(Ideal) | 14.73 psia<br>GPM<br>(Ideal) | 14.65 psia<br>BTU<br>(Ideal Dry) |
|-------------|--------|------------------------------|------------------------------|----------------------------------|
| Nitrogen    | 6.608  | 0.722                        | 0.724                        | 0.0                              |
| CO2         | 0.017  | 0.003                        | 0.003                        | 0.0                              |
| Methane     | 80.753 | 13.615                       | 13.652                       | 813.0                            |
| Ethane      | 6.176  | 1.642                        | 1.647                        | 109.0                            |
| Propane     | 3.417  | 0.935                        | 0.937                        | 85.7                             |
| N-Butane    | 1.309  | 0.410                        | 0.411                        | 42.6                             |
| Iso-Butane  | 0.565  | 0.184                        | 0.184                        | 18.3                             |
| N-Pentane   | 0.424  | 0.153                        | 0.153                        | 16.9                             |
| Iso-Pentane | 0.360  | 0.131                        | 0.131                        | 14.4                             |
| Hexanes +   | 0.371  | 0.157                        | 0.158                        | 17.6                             |

|               |                |               |               |                |
|---------------|----------------|---------------|---------------|----------------|
| <b>TOTALS</b> | <b>100.000</b> | <b>17.951</b> | <b>18.000</b> | <b>1,117.5</b> |
|---------------|----------------|---------------|---------------|----------------|

GROSS HEATING VALUE @ 14.65 psia

Dry Wet

|            |        |                          |
|------------|--------|--------------------------|
| 1121       | 1102   | BTU/Real Cu.Ft.          |
| 0.6953     | 0.6943 | Specific Gravity (Real)  |
| 1118       | 1099   | BTU/Ideal Cu.Ft.         |
| 0.6936     | 0.6923 | Specific Gravity (Ideal) |
| Z Factor : | .9971  |                          |

GASOLINE CONTENT (GPM/Real)

|                         |        |
|-------------------------|--------|
| Ethane and Heavier .... | 3.6224 |
| Propane and Heavier ..  | 1.9755 |
| Butane and Heavier .... | 1.0378 |
| Pentane and Heavier ... | 0.4421 |

ARC Pressure Data, Inc. (211)



## OPERATIONS LOG

COMPANY: CW TRAINER  
LEASE: GRAMA RIDGE # 1  
FIELD (FORMATION): ()  
COUNTY: LEA  
STATE: NM

TEST TYPE: FOUR POINT

ENGINEER: CW TRAINER  
FIELD REP:  
JOB RUN BY: MARK MILLER  
DATA PREPARED BY: JOSE ALMENGOR  
INSTRUMENT: PPH-011

| DATE | TIME | DWG | OPERATIONS LOG - JOB NUMBER: 67975 |
|------|------|-----|------------------------------------|
|------|------|-----|------------------------------------|

|                    |     |  |                                                               |
|--------------------|-----|--|---------------------------------------------------------------|
| 8/6/05 08:00:00 AM |     |  | ARRIVED ON LOCATION / UNABLE TO SHOOT FLUID LEVEL             |
| 8/6/05 12:01:00 PM |     |  | STARTED GAUGE PPH-011 FOR TEST                                |
| 8/6/05 12:15:00 PM | 46  |  | OPENED WELL TO LUBRICATOR / BEGAN STATIC GRADIENT STOPS       |
| 8/6/05 01:34:33 PM |     |  | ON BOTTOM WITH GAUGES @ 12780' MPP                            |
| 8/6/05 01:48:33 PM |     |  | REACHED TOTAL DEPTH @ 13410' GL / PULLED GAUGES TO 12780' MPP |
| 8/6/05 02:03:03 PM | 793 |  | BEGAN 4-PT - 1ST RATE @ 8/64 INCH CHOKE                       |
| 8/6/05 02:15:00 PM | 789 |  | 1ST RATE                                                      |
| 8/6/05 02:30:00 PM | 779 |  | 1ST RATE                                                      |
| 8/6/05 02:45:00 PM | 770 |  | 1ST RATE                                                      |
| 8/6/05 03:01:03 PM | 763 |  | END 1ST RATE - STARTED 2ND RATE @ 8/64                        |
| 8/6/05 03:15:00 PM | 729 |  | 2ND RATE                                                      |
| 8/6/05 03:30:00 PM | 716 |  | 2ND RATE                                                      |
| 8/6/05 03:45:00 PM | 678 |  | 2ND RATE                                                      |
| 8/6/05 03:59:03 PM | 651 |  | END 2ND RATE - STARTED 3RD RATE @ 10/64                       |
| 8/6/05 04:15:00 PM | 622 |  | 3RD RATE                                                      |
| 8/6/05 04:30:00 PM | 596 |  | 3RD RATE                                                      |
| 8/6/05 04:45:00 PM | 569 |  | 3RD RATE                                                      |

| DATE   | TIME        | DWG | OPERATIONS LOG - JOB NUMBER: 67975         |
|--------|-------------|-----|--------------------------------------------|
| 8/6/05 | 04:58:33 PM | 543 | END OF 3RD RATE - STARTED 4TH RATE @ 12/64 |
| 8/6/05 | 05:15:00 PM | 506 | 4TH RATE                                   |
| 8/6/05 | 05:30:00 PM | 469 | 4TH RATE                                   |
| 8/6/05 | 05:45:00 PM | 433 | 4TH RATE                                   |
| 8/6/05 | 05:58:33 PM | 401 | END OF 4TH RATE / END OF TESTING           |



# WELL GRADIENT SHEET

COMPANY CWTRAINER

LEASE GRAMA RIDGE

WELL NO. 1

FIELD \_\_\_\_\_

COUNTY LEA

STATE NM

FORMATION \_\_\_\_\_

SHUT IN DATE & TIME \_\_\_\_\_

HOURS SHUT IN \_\_\_\_\_

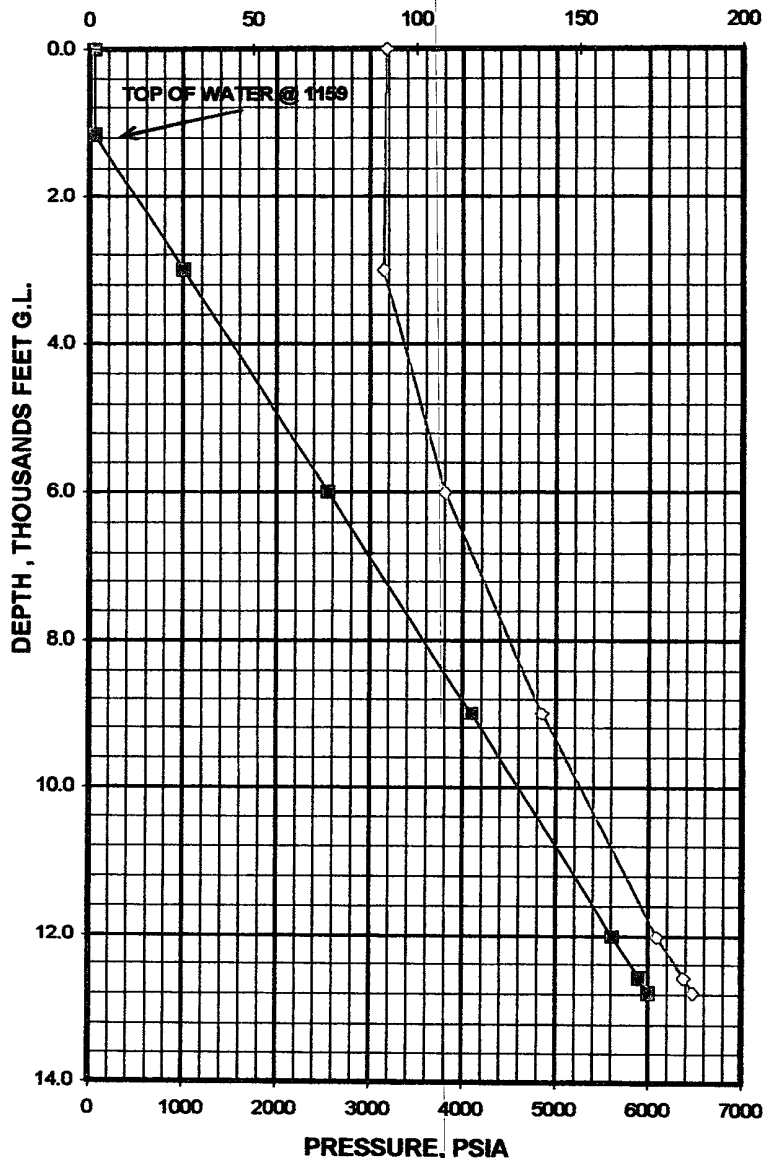
TEST DATE 8/6/2005

TIME 13:35

WELL STATUS STATIC

JOB NUMBER 67975

TEMPERATURE, °F



| MEAS. DEPTH<br>FEET G.L. | TRUE DEPTH<br>FEET G.L. | TEMP.<br>°F | PRESSURE<br>PSIA | GRADIENT<br>PSI/FT |
|--------------------------|-------------------------|-------------|------------------|--------------------|
| 0                        | 0                       | 90.9        | 58.21            |                    |
| 3000                     | 3000                    | 90.0        | 1008.69          | 0.3168             |
| 6000                     | 6000                    | 108.9       | 2557.19          | 0.5162             |
| 9000                     | 9000                    | 138.7       | 4092.14          | 0.5116             |
| 12000                    | 12000                   | 174.1       | 5613.08          | 0.5070             |
| 12580                    | 12580                   | 182.2       | 5902.90          | 0.4997             |
| 12780                    | 12780 MPP               | 185.0       | 6003.03          | 0.5007             |

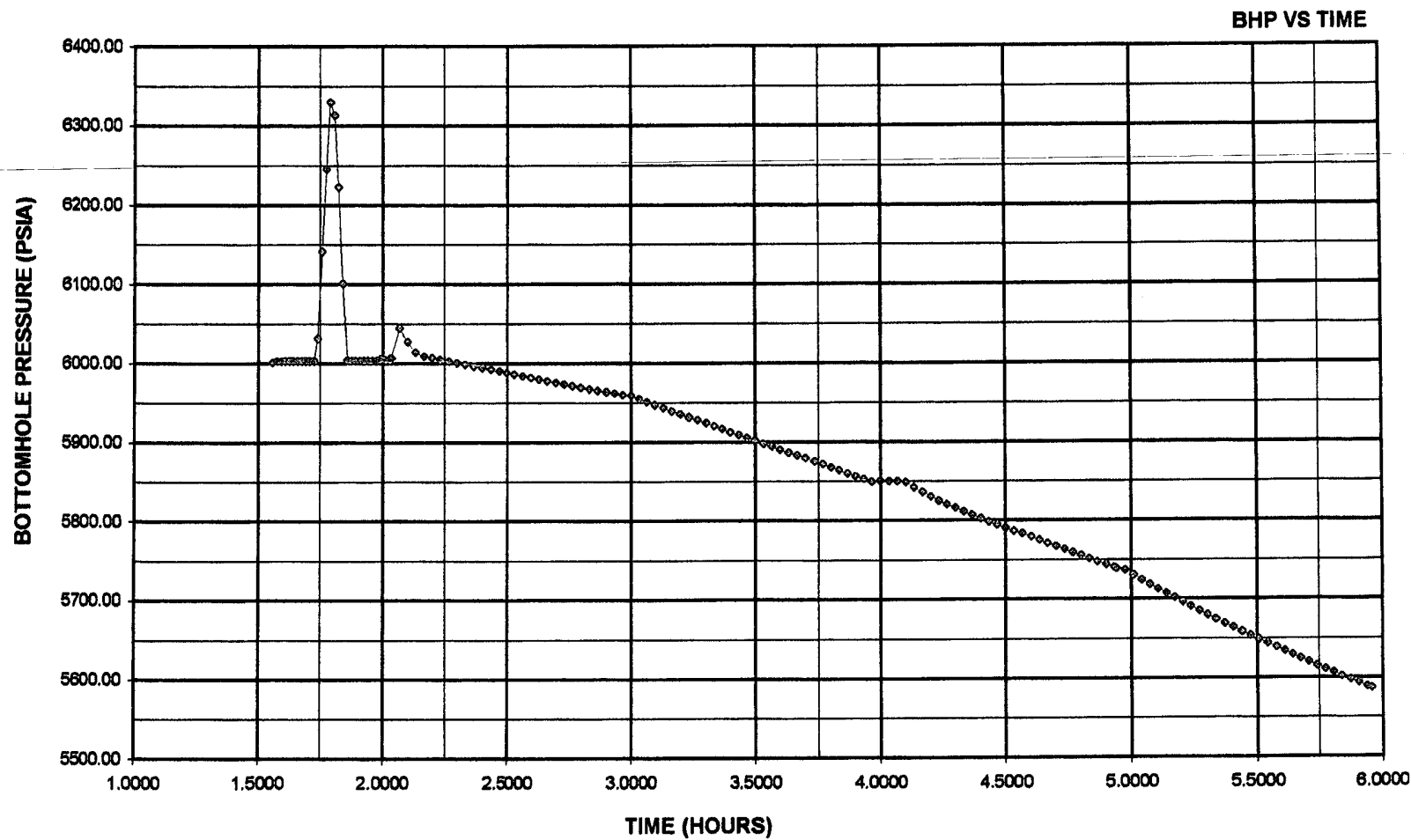
|                             |             |
|-----------------------------|-------------|
| Elev. K.B. -                | G.L. -      |
| Pressure Datum              |             |
| Tubing 2.375                | Depth 13540 |
| S.N.                        | Depth       |
| Casing 9.625                | Depth 5261  |
| Perforations 12660-12900    |             |
| Total Depth 13570           |             |
| Casing Pressure             |             |
| Tubing Pressure 46          |             |
| Instrument No. PPH-011      |             |
| Run By MARK MILLER          |             |
| Calculated By JOSE ALMENGOR |             |



COMPANY: CW TRAINER  
LEASE: GRAMA RIDGE  
WELL NUMBER: 1

FIELD:  
COUNTY: LEA  
STATE: NM

JOB # 67975  
TEST DATE: 8/6/2005 - 8/6/2005





### OPERATIONS LOG

COMPANY: CW TRAINER  
LEASE: GRAMA RIDGE # 1  
FIELD (FORMATION): ()  
COUNTY: LEA  
STATE: NM

TEST TYPE: FOUR POINT

ENGINEER: CW TRAINER  
FIELD REP:  
JOB RUN BY: MARK MILLER  
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INSTRUMENT: PPH-011

| DATE   | TIME        | DWG | OPERATIONS LOG - JOB NUMBER: 67975                            |
|--------|-------------|-----|---------------------------------------------------------------|
| 8/6/05 | 08:00:00 AM |     | ARRIVED ON LOCATION / UNABLE TO SHOOT FLUID LEVEL             |
| 8/6/05 | 12:01:00 PM |     | STARTED GAUGE PPH-011 FOR TEST                                |
| 8/6/05 | 12:15:00 PM | 46  | OPENED WELL TO LUBRICATOR / BEGAN STATIC GRADIENT STOPS       |
| 8/6/05 | 01:34:33 PM |     | ON BOTTOM WITH GAUGES @ 12780' MPP                            |
| 8/6/05 | 01:48:33 PM |     | REACHED TOTAL DEPTH @ 13410' GL / PULLED GAUGES TO 12780' MPP |
| 8/6/05 | 02:03:03 PM | 793 | BEGAN 4-PT - 1ST RATE @ 8/64 INCH CHOKE                       |
| 8/6/05 | 02:15:00 PM | 789 | 1ST RATE                                                      |
| 8/6/05 | 02:30:00 PM | 779 | 1ST RATE                                                      |
| 8/6/05 | 02:45:00 PM | 770 | 1ST RATE                                                      |
| 8/6/05 | 03:01:03 PM | 763 | END 1ST RATE - STARTED 2ND RATE @ 8/64                        |
| 8/6/05 | 03:15:00 PM | 729 | 2ND RATE                                                      |
| 8/6/05 | 03:30:00 PM | 716 | 2ND RATE                                                      |
| 8/6/05 | 03:45:00 PM | 678 | 2ND RATE                                                      |
| 8/6/05 | 03:59:03 PM | 651 | END 2ND RATE - STARTED 3RD RATE @ 10/64                       |
| 8/6/05 | 04:15:00 PM | 622 | 3RD RATE                                                      |
| 8/6/05 | 04:30:00 PM | 596 | 3RD RATE                                                      |
| 8/6/05 | 04:45:00 PM | 569 | 3RD RATE                                                      |

| REAL TIME | DELTA<br>TIME,<br>HOURS | BOTTOMHOLE<br>PRESSURE,<br>PSIA | REMARKS - JOB NUMBER: 67975 |
|-----------|-------------------------|---------------------------------|-----------------------------|
|-----------|-------------------------|---------------------------------|-----------------------------|

|                    |        |         |                                         |
|--------------------|--------|---------|-----------------------------------------|
| 8/6/05 01:59:33 PM | 1.9758 | 6003.81 |                                         |
| 8/6/05 02:00:33 PM | 1.9925 | 6006.01 |                                         |
| 8/6/05 02:01:33 PM | 2.0092 | 6004.64 |                                         |
| 8/6/05 02:02:33 PM | 2.0258 | 6004.59 |                                         |
| 8/6/05 02:03:03 PM |        |         | BEGAN 4-PT - 1ST RATE @ 8/64 INCH CHOKE |
| 8/6/05 02:03:03 PM | 2.0342 | 6006.98 |                                         |
| 8/6/05 02:05:03 PM | 2.0675 | 6044.58 |                                         |
| 8/6/05 02:07:03 PM | 2.1008 | 6026.89 |                                         |
| 8/6/05 02:09:03 PM | 2.1342 | 6013.74 |                                         |
| 8/6/05 02:11:03 PM | 2.1675 | 6008.93 |                                         |
| 8/6/05 02:13:03 PM | 2.2008 | 6006.99 |                                         |
| 8/6/05 02:15:03 PM | 2.2342 | 6004.84 |                                         |
| 8/6/05 02:17:03 PM | 2.2675 | 6002.73 |                                         |
| 8/6/05 02:19:03 PM | 2.3008 | 6000.69 |                                         |
| 8/6/05 02:21:03 PM | 2.3342 | 5998.58 |                                         |
| 8/6/05 02:23:03 PM | 2.3675 | 5996.42 |                                         |
| 8/6/05 02:25:03 PM | 2.4008 | 5994.33 |                                         |
| 8/6/05 02:27:03 PM | 2.4342 | 5992.13 |                                         |
| 8/6/05 02:29:03 PM | 2.4675 | 5990.03 |                                         |
| 8/6/05 02:31:03 PM | 2.5008 | 5988.03 |                                         |
| 8/6/05 02:33:03 PM | 2.5342 | 5985.87 |                                         |
| 8/6/05 02:35:03 PM | 2.5675 | 5983.87 |                                         |
| 8/6/05 02:37:03 PM | 2.6008 | 5981.70 |                                         |
| 8/6/05 02:39:03 PM | 2.6342 | 5979.69 |                                         |
| 8/6/05 02:41:03 PM | 2.6675 | 5977.49 |                                         |
| 8/6/05 02:43:03 PM | 2.7008 | 5975.51 |                                         |
| 8/6/05 02:45:03 PM | 2.7342 | 5973.35 |                                         |
| 8/6/05 02:47:03 PM | 2.7675 | 5971.42 |                                         |
| 8/6/05 02:49:03 PM | 2.8008 | 5969.31 |                                         |
| 8/6/05 02:51:03 PM | 2.8342 | 5967.39 |                                         |
| 8/6/05 02:53:03 PM | 2.8675 | 5965.43 |                                         |
| 8/6/05 02:55:03 PM | 2.9008 | 5963.37 |                                         |
| 8/6/05 02:57:03 PM | 2.9342 | 5961.54 |                                         |
| 8/6/05 02:59:03 PM | 2.9675 | 5959.71 |                                         |
| 8/6/05 03:01:03 PM |        |         | END 1ST RATE - STARTED 2ND RATE @ 8/64  |
| 8/6/05 03:01:03 PM | 3.0008 | 5959.30 |                                         |
| 8/6/05 03:03:03 PM | 3.0342 | 5954.85 |                                         |
| 8/6/05 03:05:03 PM | 3.0675 | 5950.80 |                                         |
| 8/6/05 03:07:03 PM | 3.1008 | 5946.72 |                                         |
| 8/6/05 03:09:03 PM | 3.1342 | 5942.81 |                                         |
| 8/6/05 03:11:03 PM | 3.1675 | 5938.92 |                                         |
| 8/6/05 03:13:03 PM | 3.2008 | 5935.16 |                                         |
| 8/6/05 03:15:03 PM | 3.2342 | 5931.26 |                                         |
| 8/6/05 03:17:03 PM | 3.2675 | 5927.56 |                                         |
| 8/6/05 03:19:03 PM | 3.3008 | 5923.68 |                                         |
| 8/6/05 03:21:03 PM | 3.3342 | 5920.01 |                                         |
| 8/6/05 03:23:03 PM | 3.3675 | 5916.14 |                                         |

| REAL TIME | DELTA<br>TIME,<br>HOURS | BOTTOMHOLE<br>PRESSURE,<br>PSIA | REMARKS - JOB NUMBER: 67975 |
|-----------|-------------------------|---------------------------------|-----------------------------|
|-----------|-------------------------|---------------------------------|-----------------------------|

|                    |        |         |
|--------------------|--------|---------|
| 8/6/05 03:25:03 PM | 3.4008 | 5912.41 |
| 8/6/05 03:27:03 PM | 3.4342 | 5908.69 |
| 8/6/05 03:29:03 PM | 3.4675 | 5905.00 |
| 8/6/05 03:31:03 PM | 3.5008 | 5901.38 |
| 8/6/05 03:33:03 PM | 3.5342 | 5897.53 |
| 8/6/05 03:35:03 PM | 3.5675 | 5893.84 |
| 8/6/05 03:37:03 PM | 3.6008 | 5890.13 |
| 8/6/05 03:39:03 PM | 3.6342 | 5886.55 |
| 8/6/05 03:41:03 PM | 3.6675 | 5882.80 |
| 8/6/05 03:43:03 PM | 3.7008 | 5879.19 |
| 8/6/05 03:45:03 PM | 3.7342 | 5875.45 |
| 8/6/05 03:47:03 PM | 3.7675 | 5871.58 |
| 8/6/05 03:49:03 PM | 3.8008 | 5867.79 |
| 8/6/05 03:51:03 PM | 3.8342 | 5864.20 |
| 8/6/05 03:53:03 PM | 3.8675 | 5860.33 |
| 8/6/05 03:55:03 PM | 3.9008 | 5856.70 |
| 8/6/05 03:57:03 PM | 3.9342 | 5852.92 |
| 8/6/05 03:59:03 PM |        |         |
| 8/6/05 03:59:03 PM | 3.9675 | 5849.54 |
| 8/6/05 04:01:03 PM | 4.0008 | 5849.96 |
| 8/6/05 04:03:03 PM | 4.0342 | 5850.15 |
| 8/6/05 04:05:03 PM | 4.0675 | 5850.20 |
| 8/6/05 04:07:03 PM | 4.1008 | 5849.19 |
| 8/6/05 04:09:03 PM | 4.1342 | 5842.13 |
| 8/6/05 04:11:03 PM | 4.1675 | 5835.89 |
| 8/6/05 04:13:03 PM | 4.2008 | 5830.08 |
| 8/6/05 04:15:03 PM | 4.2342 | 5825.01 |
| 8/6/05 04:17:03 PM | 4.2675 | 5820.61 |
| 8/6/05 04:19:03 PM | 4.3008 | 5816.03 |
| 8/6/05 04:21:03 PM | 4.3342 | 5811.41 |
| 8/6/05 04:23:03 PM | 4.3675 | 5807.07 |
| 8/6/05 04:25:03 PM | 4.4008 | 5802.60 |
| 8/6/05 04:27:03 PM | 4.4342 | 5798.33 |
| 8/6/05 04:29:03 PM | 4.4675 | 5794.30 |
| 8/6/05 04:31:03 PM | 4.5008 | 5790.20 |
| 8/6/05 04:33:03 PM | 4.5342 | 5786.68 |
| 8/6/05 04:35:03 PM | 4.5675 | 5783.37 |
| 8/6/05 04:37:03 PM | 4.6008 | 5779.31 |
| 8/6/05 04:39:03 PM | 4.6342 | 5775.38 |
| 8/6/05 04:41:03 PM | 4.6675 | 5771.23 |
| 8/6/05 04:43:03 PM | 4.7008 | 5767.36 |
| 8/6/05 04:45:03 PM | 4.7342 | 5763.24 |
| 8/6/05 04:47:03 PM | 4.7675 | 5759.42 |
| 8/6/05 04:49:03 PM | 4.8008 | 5755.52 |
| 8/6/05 04:51:03 PM | 4.8342 | 5751.61 |
| 8/6/05 04:53:03 PM | 4.8675 | 5747.64 |
| 8/6/05 04:55:03 PM | 4.9008 | 5743.86 |

END 2ND RATE - STARTED 3RD RATE @ 10/64

| REAL TIME | DELTA<br>TIME,<br>HOURS | BOTTOMHOLE<br>PRESSURE,<br>PSIA | REMARKS - JOB NUMBER: 67975 |
|-----------|-------------------------|---------------------------------|-----------------------------|
|-----------|-------------------------|---------------------------------|-----------------------------|

|                    |        |         |                                            |
|--------------------|--------|---------|--------------------------------------------|
| 8/6/05 04:57:03 PM | 4.9342 | 5740.05 |                                            |
| 8/6/05 04:57:33 PM | 4.9425 | 5739.13 |                                            |
| 8/6/05 04:58:33 PM |        |         | END OF 3RD RATE - STARTED 4TH RATE @ 12/64 |
| 8/6/05 04:59:33 PM | 4.9758 | 5736.67 |                                            |
| 8/6/05 05:01:33 PM | 5.0092 | 5730.41 |                                            |
| 8/6/05 05:03:33 PM | 5.0425 | 5724.37 |                                            |
| 8/6/05 05:05:33 PM | 5.0758 | 5718.37 |                                            |
| 8/6/05 05:07:33 PM | 5.1092 | 5712.67 |                                            |
| 8/6/05 05:09:33 PM | 5.1425 | 5706.88 |                                            |
| 8/6/05 05:11:33 PM | 5.1758 | 5701.21 |                                            |
| 8/6/05 05:13:33 PM | 5.2092 | 5695.75 |                                            |
| 8/6/05 05:15:33 PM | 5.2425 | 5690.10 |                                            |
| 8/6/05 05:17:33 PM | 5.2758 | 5684.73 |                                            |
| 8/6/05 05:19:33 PM | 5.3092 | 5679.44 |                                            |
| 8/6/05 05:21:33 PM | 5.3425 | 5674.15 |                                            |
| 8/6/05 05:23:33 PM | 5.3758 | 5668.75 |                                            |
| 8/6/05 05:25:33 PM | 5.4092 | 5663.73 |                                            |
| 8/6/05 05:27:33 PM | 5.4425 | 5658.59 |                                            |
| 8/6/05 05:29:33 PM | 5.4758 | 5653.54 |                                            |
| 8/6/05 05:31:33 PM | 5.5092 | 5648.52 |                                            |
| 8/6/05 05:33:33 PM | 5.5425 | 5643.45 |                                            |
| 8/6/05 05:35:33 PM | 5.5758 | 5638.67 |                                            |
| 8/6/05 05:37:33 PM | 5.6092 | 5633.75 |                                            |
| 8/6/05 05:39:33 PM | 5.6425 | 5629.03 |                                            |
| 8/6/05 05:41:33 PM | 5.6758 | 5624.30 |                                            |
| 8/6/05 05:43:33 PM | 5.7092 | 5619.81 |                                            |
| 8/6/05 05:45:33 PM | 5.7425 | 5615.09 |                                            |
| 8/6/05 05:47:33 PM | 5.7758 | 5610.75 |                                            |
| 8/6/05 05:49:33 PM | 5.8092 | 5606.32 |                                            |
| 8/6/05 05:51:33 PM | 5.8425 | 5601.77 |                                            |
| 8/6/05 05:53:33 PM | 5.8758 | 5597.53 |                                            |
| 8/6/05 05:55:33 PM | 5.9092 | 5593.19 |                                            |
| 8/6/05 05:57:33 PM | 5.9425 | 5588.90 |                                            |
| 8/6/05 05:58:33 PM |        |         | END OF 4TH RATE / END OF TESTING           |
| 8/6/05 05:58:33 PM | 5.9592 | 5586.81 |                                            |

## WELL TEST RESULTS

**Company: CW TRAINER**

**County:** LEA

**Lease: GRAMA RIDGE**

**State:** NEW MEXICO

Well #: 1

**Job #: 67975**

**Dates:** 8/6/2005

**Operator:** MARK MILLER

[illegible]



## WELL TEST DATA

Company: CW TRAINER  
 Lease: GRAMA RIDGE  
 Well #: 1

Field: \_\_\_\_\_  
 County: LEA  
 State: NEW MEXICO

Job #: 67975  
 Operator(s): MARK MILLER  
 Date(s): 8/8/2005

| METER INFORMATION |           |             |             |            |
|-------------------|-----------|-------------|-------------|------------|
| Type              | Line Size | Pres. Range | Diff. Range | Conn. Type |
| POSITIVE CHOKE    |           |             |             |            |

| FLUID PROPERTIES |             |               |
|------------------|-------------|---------------|
| Gas Gravity      | Oil Gravity | Water Gravity |
| 0.694            |             |               |

| OIL TANK  |                 | WATER TANK |                  |
|-----------|-----------------|------------|------------------|
| Size, bbl | Factor bbl/inch | Size, bbl  | Factor, bbl/inch |
|           |                 |            |                  |

| SAMPLES RETRIEVED |     |       |
|-------------------|-----|-------|
| Gas               | Oil | Water |
| X                 |     |       |

| RECORDED TIMES |       |                 |            | METER DATA         |                |             |                      |                                |                |                 |                |                 |                  | WELL HEAD DATA  |                |              |           |              |           | LIQUID VOLUMES |                           |
|----------------|-------|-----------------|------------|--------------------|----------------|-------------|----------------------|--------------------------------|----------------|-----------------|----------------|-----------------|------------------|-----------------|----------------|--------------|-----------|--------------|-----------|----------------|---------------------------|
| Date           | Time  | Total Time, Hrs | Start Rate | Rate Duration, Hrs | Choke Size, in | Choke Coef. | Choke Pressure, psia | Diff., inches H <sub>2</sub> O | Flow Temp., °F | F <sub>IT</sub> | F <sub>g</sub> | F <sub>pv</sub> | Flow Rate, MCF/D | EPM Flow, MCF/D | Choke Size, in | Tubing, psia | Temp., °F | Casing, psia | Temp., °F | Oil, Barrels   | H <sub>2</sub> O, Barrels |
| 8/8/2005       | 14:00 | 0.000           |            | 0.000              |                |             | 808.2                |                                |                |                 |                |                 | 0.0              |                 |                |              |           |              |           |                |                           |
| 8/8/2005       | 14:15 | 0.250           |            | 0.250              | 8/84           | 0.1659      | 804.2                |                                | 91.00          | 0.9715          | 1.2001         | 1.0684          | 166.2            |                 |                |              |           |              |           |                |                           |
| 8/8/2005       | 14:30 | 0.500           |            | 0.500              | 8/84           | 0.1659      | 794.2                |                                | 89.50          | 0.9728          | 1.2001         | 1.0878          | 164.3            |                 |                |              |           |              |           |                |                           |
| 8/8/2005       | 14:45 | 0.750           |            | 0.750              | 8/84           | 0.1659      | 785.2                |                                | 89.80          | 0.9725          | 1.2001         | 1.0872          | 162.3            |                 |                |              |           |              |           |                |                           |
| 8/8/2005       | 15:00 | 1.000           | x          | 1.000              | 8/84           | 0.1659      | 778.2                |                                | 89.70          | 0.9735          | 1.2001         | 1.0888          | 160.9            |                 |                |              |           |              |           |                |                           |
| 8/8/2005       | 15:15 | 1.250           |            | 0.250              | 8/84           | 0.2818      | 744.2                |                                | 89.50          | 0.9719          | 1.2001         | 1.0830          | 241.6            |                 |                |              |           |              |           |                |                           |
| 8/8/2005       | 15:30 | 1.500           |            | 0.500              | 8/84           | 0.2818      | 731.2                |                                | 89.50          | 0.9728          | 1.2001         | 1.0824          | 237.4            |                 |                |              |           |              |           |                |                           |
| 8/8/2005       | 15:45 | 1.750           |            | 0.750              | 8/84           | 0.2818      | 693.2                |                                | 89.50          | 0.9728          | 1.2001         | 1.0594          | 224.5            |                 |                |              |           |              |           |                |                           |
| 8/8/2005       | 16:00 | 2.000           | x          | 1.000              | 8/84           | 0.2818      | 686.2                |                                | 89.70          | 0.9728          | 1.2001         | 1.0570          | 215.2            |                 |                |              |           |              |           |                |                           |
| 8/8/2005       | 16:15 | 2.250           |            | 0.250              | 10/84          | 0.4173      | 637.2                |                                | 89.50          | 0.9728          | 1.2001         | 1.0841          | 327.2            |                 |                |              |           |              |           |                |                           |
| 8/8/2005       | 16:30 | 2.500           |            | 0.500              | 10/84          | 0.4173      | 611.2                |                                | 88.30          | 0.9739          | 1.2001         | 1.0535          | 314.0            |                 |                |              |           |              |           |                |                           |
| 8/8/2005       | 16:45 | 2.750           |            | 0.750              | 10/84          | 0.4173      | 584.2                |                                | 89.00          | 0.9723          | 1.2001         | 1.0500          | 298.7            |                 |                |              |           |              |           |                |                           |
| 8/8/2005       | 17:00 | 3.000           | x          | 1.000              | 10/84          | 0.4173      | 556.2                |                                | 87.70          | 0.9744          | 1.2001         | 1.0489          | 285.7            |                 |                |              |           |              |           |                |                           |
| 8/8/2005       | 17:15 | 3.250           |            | 0.250              | 12/84          | 0.6101      | 521.2                |                                | 89.20          | 0.9731          | 1.2001         | 1.0443          | 387.8            |                 |                |              |           |              |           |                |                           |
| 8/8/2005       | 17:30 | 3.500           |            | 0.500              | 12/84          | 0.6101      | 484.2                |                                | 88.20          | 0.9739          | 1.2001         | 1.0420          | 359.8            |                 |                |              |           |              |           |                |                           |
| 8/8/2005       | 17:45 | 3.750           |            | 0.750              | 12/84          | 0.6101      | 448.2                |                                | 88.80          | 0.9733          | 1.2001         | 1.0381          | 331.6            |                 |                |              |           |              |           |                |                           |
| 8/8/2005       | 18:00 | 4.000           |            | 1.000              | 12/84          | 0.6101      | 416.2                |                                | 89.00          | 0.9732          | 1.2001         | 1.0353          | 307.0            |                 |                |              |           |              |           |                |                           |
|                |       |                 |            |                    |                |             |                      |                                |                |                 |                |                 |                  |                 |                |              |           |              |           |                |                           |
|                |       |                 |            |                    |                |             |                      |                                |                |                 |                |                 |                  |                 |                |              |           |              |           |                |                           |
|                |       |                 |            |                    |                |             |                      |                                |                |                 |                |                 |                  |                 |                |              |           |              |           |                |                           |
|                |       |                 |            |                    |                |             |                      |                                |                |                 |                |                 |                  |                 |                |              |           |              |           |                |                           |