

|                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                       |                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Submit To Appropriate District Office<br>State Lease - 6 copies<br>Fee Lease - 5 copies<br><b>District I</b><br>1625 N. French Dr., Hobbs, NM 88240<br><b>District II</b><br>1301 W. Grand Avenue, Artesia, NM 88210<br><b>District III</b><br>1000 Rio Brazos Rd., Aztec, NM 87410<br><b>District IV</b><br>1220 S. St. Francis Dr., Santa Fe, NM 87505 | <b>State of New Mexico</b><br><b>Energy, Minerals and Natural Resources</b><br><br><b>Oil Conservation Division</b><br><b>1220 South St. Francis Dr.</b><br><b>Santa Fe, NM 87505</b> | <b>Form C-105</b><br>Revised June 10, 2003<br><br><b>WELL API NO.</b><br>30-015-33985<br><br><b>5. Indicate Type of Lease</b><br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/><br><br><b>State Oil &amp; Gas Lease No.</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| WELL COMPLETION OR RECOMPLETION REPORT AND LOG                                                                                                                                                                                                                                                                                                                                                                               |                                                      |                                                     |                                                                            |                                               |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------|--|
| <b>1a. Type of Well:</b><br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____<br><br><b>b. Type of Completion:</b><br>NEW <input checked="" type="checkbox"/> WORK <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG <input type="checkbox"/> DIFF. <input type="checkbox"/><br>WELL OVER BACK RESVR. <input type="checkbox"/> OTHER _____ |                                                      |                                                     | <b>7. Lease Name or Unit Agreement Name</b><br><br>New Mexico DD State Com |                                               |  |
| <b>2. Name of Operator</b><br><br>Gruy Petroleum Management Co.                                                                                                                                                                                                                                                                                                                                                              |                                                      |                                                     | <b>8. Well No.</b><br><br>003                                              |                                               |  |
| <b>3. Address of Operator</b><br><br>PO Box 140907, Irving, TX 75014-0907                                                                                                                                                                                                                                                                                                                                                    |                                                      |                                                     | <b>9. Pool name or Wildcat</b><br><br>White City; Penn (Gas)               |                                               |  |
| <b>4. Well Location</b><br>SHL: Unit Letter <u>D</u> : <u>295</u> Feet From The <u>North</u> Line and <u>750</u> Feet From The <u>West</u> Line<br>BHL: Unit Letter <u>D</u> : <u>994</u> Feet From The <u>North</u> Line and <u>996</u> Feet From The <u>West</u> Line<br>Section <u>32</u> Township <u>24S</u> Range <u>26E</u> NMPM County <u>Eddy</u>                                                                    |                                                      |                                                     |                                                                            |                                               |  |
| <b>10. Date Spudded</b><br>12-07-05                                                                                                                                                                                                                                                                                                                                                                                          | <b>11. Date T.D. Reached</b><br>01-15-06             | <b>12. Date Compl. (Ready to Prod.)</b><br>03-30-06 | <b>13. Elevations (DF&amp; RKB, RT, GR, etc.)</b><br>3468' GR              | <b>14. Elev. Casinghead</b>                   |  |
| <b>15. Total Depth</b><br>MD 11734'<br>TVD 11687'                                                                                                                                                                                                                                                                                                                                                                            | <b>16. Plug Back T.D.</b><br>MD 11618'<br>TVD 11572' | <b>17. If Multiple Compl. How Many Zones?</b>       | <b>18. Intervals Drilled By</b><br><br>Rotary Tools<br><br>Rotary          | <b>Cable Tools</b>                            |  |
| <b>19. Producing Interval(s), of this completion - Top, Bottom, Name</b><br>White City; Penn (Gas) 10868' - 11284'                                                                                                                                                                                                                                                                                                           |                                                      |                                                     |                                                                            | <b>20. Was Directional Survey Made</b><br>Yes |  |
| <b>21. Type Electric and Other Logs Run</b><br>Neutron, Laterolog, Cement Bond                                                                                                                                                                                                                                                                                                                                               |                                                      |                                                     | <b>22. Was Well Cored</b><br>No                                            |                                               |  |

| 23. CASING RECORD (Report all strings set in well) |                |           |           |                                    |               |
|----------------------------------------------------|----------------|-----------|-----------|------------------------------------|---------------|
| CASING SIZE                                        | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD                   | AMOUNT PULLED |
| 13-3/8" H-40                                       | 48#            | 222'      | 17-1/2"   | 650 sx PremPlus circ 50 sx         |               |
| 9-5/8" J-55                                        | 40#            | 1680'     | 12-1/4"   | 1775 sx IntC/PremPlus circ 200 sx  |               |
| 5-1/2" P-110                                       | 17#            | 11734'    | 8-3/4"    | 2520 sx IntH/SupH/IntC/SupH TOC 0' |               |

| 24. LINER RECORD |     |        |              |        | 25. TUBING RECORD |           |            |
|------------------|-----|--------|--------------|--------|-------------------|-----------|------------|
| SIZE             | TOP | BOTTOM | SACKS CEMENT | SCREEN | SIZE              | DEPTH SET | PACKER SET |
|                  |     |        |              |        | 2-7/8"            | 10811'    | 10811'     |

| <b>26. Perforation record (interval, size, and number)</b><br><br>11118' - 11130' 6 SPF, 11172' - 11190' 3 SPF, 11265' - 11284' 6 SPF<br>165 holes<br>11006' - 11038' 6 SPF 102 holes<br>10868' - 10950' 6 SPF 234 holes | <b>27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.</b><br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td>11118' - 11284'</td> <td>57794 gal foam 45# gel 85:15 7% KCL, CO2, Methanol &amp; 100000# Versaprop</td> </tr> <tr> <td>11006' - 11038'</td> <td>120 RCNBS</td> </tr> <tr> <td>11006' - 11038'</td> <td>31999 gal foam 45# gel 85:15 7% KCL, CO2, Methanol &amp; 52000# Versaprop</td> </tr> </table> | DEPTH INTERVAL | AMOUNT AND KIND MATERIAL USED | 11118' - 11284' | 57794 gal foam 45# gel 85:15 7% KCL, CO2, Methanol & 100000# Versaprop | 11006' - 11038' | 120 RCNBS | 11006' - 11038' | 31999 gal foam 45# gel 85:15 7% KCL, CO2, Methanol & 52000# Versaprop |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------|-----------------|------------------------------------------------------------------------|-----------------|-----------|-----------------|-----------------------------------------------------------------------|
| DEPTH INTERVAL                                                                                                                                                                                                           | AMOUNT AND KIND MATERIAL USED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                               |                 |                                                                        |                 |           |                 |                                                                       |
| 11118' - 11284'                                                                                                                                                                                                          | 57794 gal foam 45# gel 85:15 7% KCL, CO2, Methanol & 100000# Versaprop                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                               |                 |                                                                        |                 |           |                 |                                                                       |
| 11006' - 11038'                                                                                                                                                                                                          | 120 RCNBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                               |                 |                                                                        |                 |           |                 |                                                                       |
| 11006' - 11038'                                                                                                                                                                                                          | 31999 gal foam 45# gel 85:15 7% KCL, CO2, Methanol & 52000# Versaprop                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                               |                 |                                                                        |                 |           |                 |                                                                       |

| 28. PRODUCTION                           |                             |                                                                                       |                               |                          |                                                    |                                    |                        |
|------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|-------------------------------|--------------------------|----------------------------------------------------|------------------------------------|------------------------|
| <b>Date First Production</b><br>03-30-06 |                             | <b>Production Method (Flowing, gas lift, pumping - Size and type pump)</b><br>Flowing |                               |                          | <b>Well Status (Prod. or Shut-in)</b><br>Producing |                                    |                        |
| <b>Date of Test</b><br>04-06-06          | <b>Hours Tested</b><br>24   | <b>Choke Size</b><br>18/64                                                            | <b>Prod'n For Test Period</b> | <b>Oil - Bbl</b><br>0    | <b>Gas - MCF</b><br>6034                           | <b>Water - Bbl.</b><br>16          | <b>Gas - Oil Ratio</b> |
| <b>Flow Tubing Press.</b><br>2750        | <b>Casing Pressure</b><br>0 | <b>Calculated 24-Hour Rate</b>                                                        | <b>Oil - Bbl.</b><br>0        | <b>Gas - MCF</b><br>6034 | <b>Water - Bbl.</b><br>16                          | <b>Oil Gravity - API - (Corr.)</b> |                        |

|                                                                               |                          |
|-------------------------------------------------------------------------------|--------------------------|
| <b>29. Disposition of Gas (Sold, used for fuel, vented, etc.)</b><br><br>Sold | <b>Test Witnessed By</b> |
|-------------------------------------------------------------------------------|--------------------------|

|                                                             |
|-------------------------------------------------------------|
| <b>30. List Attachments</b><br><br>Deviation Summary, C-102 |
|-------------------------------------------------------------|

|                                                                                                                                               |                                     |                       |                     |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------|---------------------|--|--|
| <b>31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief</b> |                                     |                       |                     |  |  |
| Signature <u>Natalie Krueger</u>                                                                                                              | Printed Name <u>Natalie Krueger</u> | Title <u>Reg Tech</u> | Date <u>4/18/06</u> |  |  |
| E-mail Address <u>nkrueger@cimarex.com</u>                                                                                                    |                                     |                       |                     |  |  |

## INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

| Southeastern New Mexico       |                             | Northwestern New Mexico |                  |
|-------------------------------|-----------------------------|-------------------------|------------------|
| T. Anhy                       | T. Canyon                   | T. Ojo Alamo            | T. Penn. "B"     |
| T. Salt                       | T. Strawn 9895, 9658        | T. Kirtland-Fruitland   | T. Penn. "C"     |
| B. Salt                       | T. Atoka 10119, 10081       | T. Pictured Cliffs      | T. Penn. "D"     |
| T. Yates                      | T. Miss                     | T. Cliff House          | T. Leadville     |
| T. 7 Rivers                   | T. Devonian                 | T. Menefee              | T. Madison       |
| T. Queen                      | T. Silurian                 | T. Point Lookout        | T. Elbert        |
| T. Grayburg                   | T. Montoya                  | T. Mancos               | T. McCracken     |
| T. San Andres                 | T. Simpson                  | T. Gallup               | T. Ignacio Otzte |
| T. Glorieta                   | T. McKee                    | Base Greenhorn          | T. Granite       |
| T. Paddock                    | T. Ellenburger              | T. Dakota               | T.               |
| T. Blinebry                   | T. Gr. Wash                 | T. Morrison             | T.               |
| T. Tubb                       | T. Delaware Sand 1676, 1676 | T. Todilto              | T.               |
| T. Drinkard                   | T. Bone Spring 5340, 5334   | T. Entrada              | T.               |
| T. Abo                        | T. Morrow 10681, 10640      | T. Wingate              | T.               |
| T. Wolfcamp 8362, 8338        | T.                          | T. Chinle               | T.               |
| T. Penn                       | T.                          | T. Permian              | T.               |
| T. Cisco (Bough C) 9667, 9632 | T.                          | T. Penn "A"             | T.               |

## OIL OR GAS SANDS OR ZONES

No. 1, from .....to.....  
No. 2, from.....to.....  
No. 3, from.....to.....  
No. 4, from.....to.....

## IMPORTANT WATER SANDS

**Include data on rate of water inflow and elevation to which water rose in hole.**

No. 1, from.....to.....feet.....  
 No. 2, from.....to.....feet.....  
 No. 3, from.....to.....feet.....

## LITHOLOGY RECORD (Attach additional sheet if necessary)

| From | To | Thickness<br>In Feet | Lithology |
|------|----|----------------------|-----------|
|      |    |                      |           |

| From | To | Thickness<br>In Feet | Lithology |
|------|----|----------------------|-----------|
|      |    |                      |           |

OPERATOR Magnum Hunter Resources dba Gruy Petroleum Management  
WELL/LEASE New Mexico DD St. Com. 3  
COUNTY Eddy, NM

075-0040

STATE OF NEW MEXICO  
DEVIATION REPORT

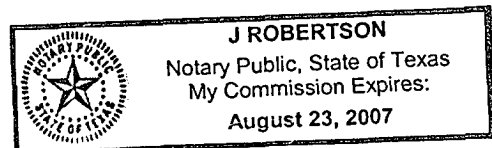
|       |       |
|-------|-------|
| 164   | 4 3/4 |
| 170   | 4     |
| 311   | 4 1/4 |
| 387   | 3/4   |
| 556   | 2     |
| 645   | 1     |
| 737   | 1     |
| 951   | 1     |
| 1,111 | 1     |
| 1,301 | 2     |
| 1,400 | 2     |
| 1,640 | 1 3/4 |
| 1,936 | 1     |
| 2,242 | 1     |
| 2,503 | 1     |
| 2,821 | 2     |
| 3,074 | 2     |
| 3,327 | 1     |
| 3,634 | 1     |
| 3,929 | 1     |
| 4,178 | 1     |
| 4,526 | 1     |
| 4,700 | 1     |

BY: Steve Moore

STATE OF TEXAS  
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on January 26, 2006, by Steve Moore on behalf of Patterson - UTI Drilling Company, LP, LLLP.

J Robertson  
Notary Public for Midland County, Texas  
My Commission Expires: 8/23/07



DISTRICT I  
1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

DISTRICT II  
1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

OIL CONSERVATION DIVISION  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102  
Revised JUNE 10, 2003  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

|                            |                                                    |                                     |
|----------------------------|----------------------------------------------------|-------------------------------------|
| API Number<br>30-015-33985 | Pool Code                                          | Pool Name<br>White City; Penn (Gas) |
| Property Code              | Property Name<br>NM DD STATE COM                   | Well Number<br>3                    |
| OGRID No.<br>162683        | Operator Name<br>GRUY PETROLEUM MANAGEMENT COMPANY | Elevation<br>3468'                  |

Surface Location

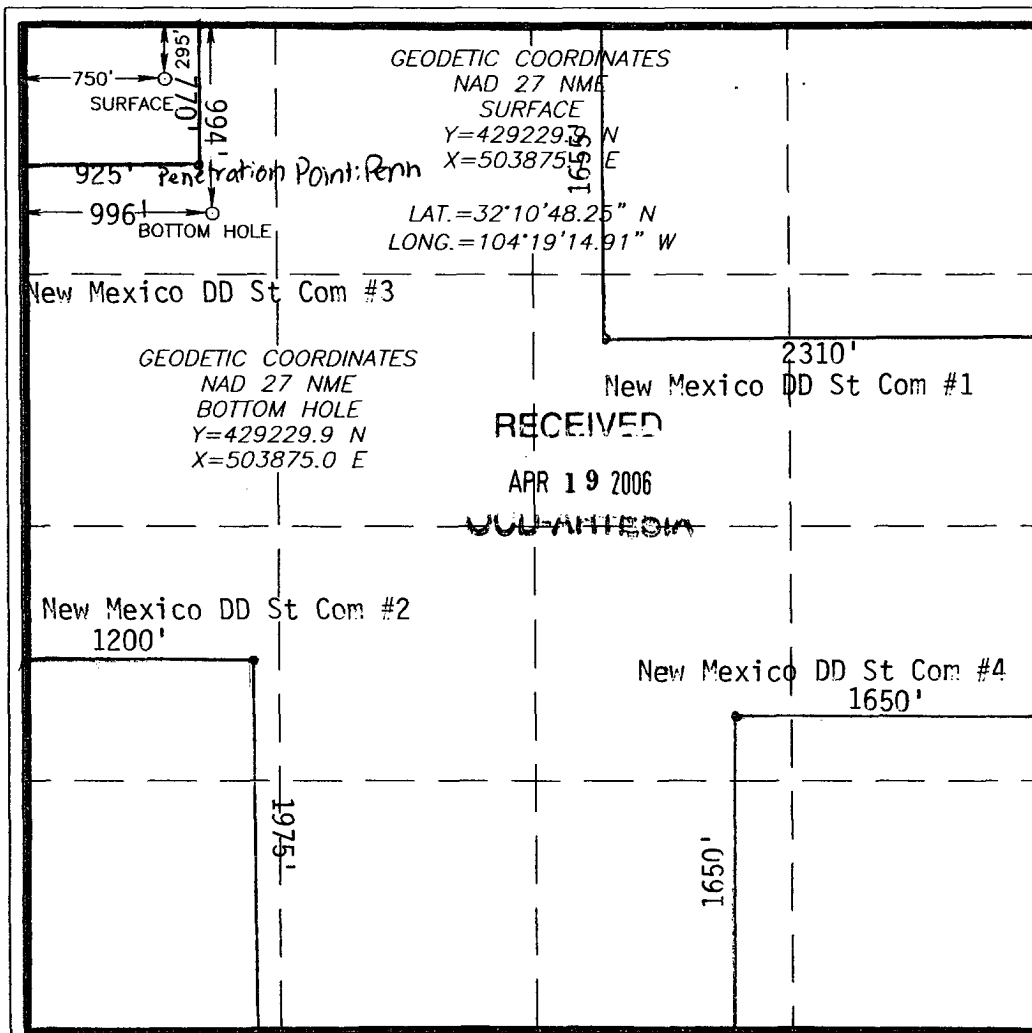
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| D             | 32      | 24-S     | 26-E  |         | 295           | NORTH            | 750           | WEST           | EDDY   |

Bottom Hole Location If Different From Surface

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| D             | 32      | 24-S     | 26-E  |         | 994           | NORTH            | 996           | WEST           | EDDY   |

|                        |                      |                           |           |
|------------------------|----------------------|---------------------------|-----------|
| Dedicated Acres<br>640 | Joint or Infill<br>Y | Consolidation Code<br>Com | Order No. |
|------------------------|----------------------|---------------------------|-----------|

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify the the information  
contained herein is true and complete to the  
best of my knowledge and belief.

*Zeno Farris*

Signature

Zeno Farris

Printed Name

Mgr Operations Admin

Title

April 18, 2006

Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown  
on this plat was plotted from field notes of  
actual surveys made by me or under my  
supervision, and that the same is true and  
correct to the best of my belief.

FEBRUARY 18, 2005

Date Surveyed

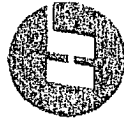
DEL

Signature & Seal of  
Professional Surveyor

*GARY EIDSON*  
05.11.0268

Certificate No. GARY EIDSON

12641



**Gruy Petroleum Management Co.**  
**New Mexico**  
**Eddy County**  
**Sec.32-T24S-R26E**  
**NM DD State Com #3 - MWD Survey**

# **Haliburton Sperry-Drilling Survey Report**

**14 January, 2006**

Surface Coordinates: 429229.90 N, 503875.10 E (32° 10' 48.2498" N, 104° 19' 14.9097" W)  
Grid Coordinate System: NAD27 New Mexico State Planes, Eastern Zone

Surface Coordinates relative to Center of County: 116382.86 S, 3875.10 E (Grid)  
Surface Coordinates relative to Structure: 295.00 S, 750.00 E (Grid)  
Kelly Bushing Elevation: 3488.00ft above Mean Sea Level  
Kelly Bushing Elevation: 3488.00ft above Structure

Survey Ref: svy9617

**HALIBURTON**

**Sperry Drilling Services**

## Survey Report for Sec.32-T24S-R26E - NM DD State Com #3

| Measured<br>Depth<br>(ft) | Incl. | Grid<br>Azim. | Sub-Sea<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Local Coordinates<br>Northings<br>(ft) | Eastings<br>(ft) | Global Coordinates<br>Northings<br>(ft) | Eastings<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Vertical<br>Section | Comment |
|---------------------------|-------|---------------|--------------------------|---------------------------|----------------------------------------|------------------|-----------------------------------------|------------------|-----------------------------|---------------------|---------|
| 0.00                      | 0.000 | 0.000         | -3488.00                 | 0.00                      | 0.00 N                                 | 0.00 E           | 429229.90 N                             | 503875.10 E      |                             | 0.00                |         |
| 100.00                    | 0.670 | 356.750       | -3388.00                 | 100.00                    | 0.58 N                                 | 0.03 W           | 429230.48 N                             | 503875.07 E      | 0.67                        | -0.56               |         |
| 200.00                    | 0.520 | 275.280       | -3288.01                 | 199.99                    | 1.21 N                                 | 0.52 W           | 429231.11 N                             | 503874.58 E      | 0.78                        | -1.31               |         |
| 300.00                    | 0.320 | 215.340       | -3188.01                 | 299.99                    | 1.02 N                                 | 1.13 W           | 429230.92 N                             | 503873.97 E      | 0.45                        | -1.33               |         |
| 400.00                    | 0.490 | 73.910        | -3088.01                 | 399.99                    | 0.91 N                                 | 0.88 W           | 429230.81 N                             | 503874.22 E      | 0.77                        | -1.15               |         |
| 500.00                    | 0.470 | 35.930        | -2988.01                 | 499.99                    | 1.36 N                                 | 0.23 W           | 429231.26 N                             | 503874.87 E      | 0.31                        | -1.37               |         |
| 600.00                    | 0.420 | 57.420        | -2888.02                 | 599.98                    | 1.89 N                                 | 0.32 E           | 429231.79 N                             | 503875.42 E      | 0.17                        | -1.69               |         |
| 700.00                    | 0.610 | 107.800       | -2788.02                 | 699.98                    | 1.93 N                                 | 1.13 E           | 429231.83 N                             | 503876.23 E      | 0.47                        | -1.46               |         |
| 800.00                    | 0.660 | 120.020       | -2688.03                 | 799.97                    | 1.48 N                                 | 2.14 E           | 429231.38 N                             | 503877.24 E      | 0.14                        | -0.71               |         |
| 900.00                    | 0.650 | 94.230        | -2588.03                 | 899.97                    | 1.15 N                                 | 3.20 E           | 429231.05 N                             | 503878.30 E      | 0.29                        | -0.05               |         |
| 944.82                    | 0.650 | 94.060        | -2543.21                 | 944.79                    | 1.11 N                                 | 3.71 E           | 429231.01 N                             | 503878.81 E      | 0.00                        | 0.14                |         |
| 1040.34                   | 0.300 | 69.600        | -2447.70                 | 1040.30                   | 1.16 N                                 | 4.49 E           | 429231.06 N                             | 503879.59 E      | 0.42                        | 0.35                |         |
| 1135.86                   | 0.330 | 80.850        | -2352.18                 | 1135.82                   | 1.29 N                                 | 4.99 E           | 429231.19 N                             | 503880.09 E      | 0.07                        | 0.39                |         |
| 1231.38                   | 0.320 | 85.230        | -2256.66                 | 1231.34                   | 1.36 N                                 | 5.53 E           | 429231.26 N                             | 503880.63 E      | 0.03                        | 0.50                |         |
| 1326.90                   | 0.320 | 85.630        | -2161.14                 | 1326.86                   | 1.40 N                                 | 6.06 E           | 429231.30 N                             | 503881.16 E      | 0.00                        | 0.63                |         |
| 1422.42                   | 0.320 | 85.830        | -2065.62                 | 1422.38                   | 1.44 N                                 | 6.59 E           | 429231.34 N                             | 503881.69 E      | 0.00                        | 0.76                |         |
| 1517.94                   | 0.320 | 85.690        | -1970.11                 | 1517.89                   | 1.48 N                                 | 7.13 E           | 429231.38 N                             | 503882.23 E      | 0.00                        | 0.90                |         |
| 1613.46                   | 0.820 | 10.050        | -1874.59                 | 1613.41                   | 2.17 N                                 | 7.51 E           | 429232.07 N                             | 503882.61 E      | 0.84                        | 0.36                |         |
| 1708.98                   | 1.730 | 23.550        | -1779.09                 | 1708.91                   | 4.17 N                                 | 8.21 E           | 429234.07 N                             | 503883.31 E      | 1.00                        | -1.30               |         |
| 1804.50                   | 1.980 | 26.410        | -1683.62                 | 1804.38                   | 6.97 N                                 | 9.52 E           | 429236.87 N                             | 503884.62 E      | 0.28                        | -3.53               |         |
| 1900.02                   | 3.410 | 14.880        | -1588.21                 | 1899.79                   | 11.19 N                                | 10.98 E          | 429241.09 N                             | 503886.08 E      | 1.59                        | -7.05               |         |
| 1995.54                   | 2.340 | 8.560         | -1492.81                 | 1995.19                   | 15.86 N                                | 12.00 E          | 429245.76 N                             | 503887.10 E      | 1.17                        | -11.15              |         |
| 2091.06                   | 1.920 | 0.630         | -1397.36                 | 2090.64                   | 19.39 N                                | 12.31 E          | 429249.29 N                             | 503887.41 E      | 0.54                        | -14.39              |         |
| 2186.58                   | 1.600 | 2.830         | -1301.88                 | 2186.12                   | 22.32 N                                | 12.39 E          | 429252.22 N                             | 503887.49 E      | 0.34                        | -17.14              |         |
| 2282.10                   | 1.580 | 2.090         | -1206.40                 | 2281.60                   | 24.97 N                                | 12.50 E          | 429254.87 N                             | 503887.60 E      | 0.03                        | -19.61              |         |
| 2377.62                   | 1.510 | 356.420       | -1110.92                 | 2377.08                   | 27.54 N                                | 12.47 E          | 429257.44 N                             | 503887.57 E      | 0.18                        | -22.05              |         |
| 2473.14                   | 1.400 | 342.800       | -1015.43                 | 2472.57                   | 29.91 N                                | 12.05 E          | 429259.81 N                             | 503887.15 E      | 0.38                        | -24.44              |         |
| 2568.66                   | 1.280 | 14.370        | -919.93                  | 2568.07                   | 32.06 N                                | 11.97 E          | 429261.96 N                             | 503887.07 E      | 0.77                        | -26.49              |         |
| 2664.18                   | 1.260 | 344.070       | -824.43                  | 2663.57                   | 34.11 N                                | 11.95 E          | 429264.01 N                             | 503887.05 E      | 0.70                        | -28.44              |         |
| 2759.70                   | 1.040 | 341.420       | -728.93                  | 2759.07                   | 35.94 N                                | 11.38 E          | 429265.84 N                             | 503886.48 E      | 0.24                        | -30.35              |         |

### Gyro Survey

# Survey Report for Sec.32-T24S-R26E - NM DD State Com #3

| Measured<br>Depth<br>(ft) | Incl. | Grid<br>Azim. | Sub-Sea<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Local Coordinates<br>Northings<br>(ft) | Eastings<br>(ft) | Global Coordinates<br>Northings<br>(ft) | Eastings<br>(ft) | Dogleg<br>Rate<br>("'/100ft) | Vertical<br>Section | Comment   |
|---------------------------|-------|---------------|--------------------------|---------------------------|----------------------------------------|------------------|-----------------------------------------|------------------|------------------------------|---------------------|-----------|
| 2855.22                   | 1.040 | 344.190       | -633.43                  | 2854.57                   | 37.59 N                                | 10.87 E          | 429267.49 N                             | 503885.97 E      | 0.05                         | -32.09              |           |
| 2950.74                   | 0.950 | 341.400       | -537.92                  | 2950.08                   | 39.18 N                                | 10.38 E          | 429269.08 N                             | 503885.48 E      | 0.11                         | -33.74              |           |
| 3046.26                   | 0.870 | 336.920       | -442.41                  | 3045.59                   | 40.60 N                                | 9.84 E           | 429270.50 N                             | 503884.94 E      | 0.11                         | -35.26              |           |
| 3141.78                   | 0.900 | 332.450       | -346.91                  | 3141.09                   | 41.93 N                                | 9.21 E           | 429271.83 N                             | 503884.31 E      | 0.08                         | -36.72              |           |
| 3237.30                   | 0.910 | 331.590       | -251.40                  | 3236.60                   | 43.26 N                                | 8.51 E           | 429273.16 N                             | 503883.61 E      | 0.02                         | -38.21              |           |
| 3332.82                   | 0.960 | 332.080       | -155.89                  | 3332.11                   | 44.63 N                                | 7.77 E           | 429274.53 N                             | 503882.87 E      | 0.05                         | -39.75              |           |
| 3428.34                   | 0.900 | 333.800       | -60.38                   | 3427.62                   | 46.01 N                                | 7.06 E           | 429275.91 N                             | 503882.16 E      | 0.07                         | -41.28              |           |
| 3523.86                   | 0.890 | 329.490       | 35.12                    | 3523.12                   | 47.33 N                                | 6.36 E           | 429277.23 N                             | 503881.46 E      | 0.07                         | -42.75              |           |
| 3619.38                   | 0.730 | 322.890       | 130.64                   | 3618.64                   | 48.45 N                                | 5.61 E           | 429278.35 N                             | 503880.71 E      | 0.19                         | -44.06              |           |
| 3714.90                   | 0.640 | 319.230       | 226.15                   | 3714.15                   | 49.34 N                                | 4.90 E           | 429279.24 N                             | 503880.00 E      | 0.10                         | -45.13              |           |
| 3810.42                   | 0.610 | 314.490       | 321.66                   | 3809.66                   | 50.10 N                                | 4.19 E           | 429280.00 N                             | 503879.29 E      | 0.06                         | -46.08              |           |
| 3905.94                   | 0.560 | 312.470       | 417.18                   | 3905.18                   | 50.77 N                                | 3.48 E           | 429280.67 N                             | 503878.58 E      | 0.06                         | -46.94              |           |
| 4001.46                   | 0.470 | 297.090       | 512.69                   | 4000.69                   | 51.27 N                                | 2.79 E           | 429281.17 N                             | 503877.89 E      | 0.17                         | -47.63              |           |
| 4096.98                   | 0.470 | 297.050       | 608.21                   | 4096.21                   | 51.62 N                                | 2.09 E           | 429281.52 N                             | 503877.19 E      | 0.00                         | -48.20              |           |
| 4192.50                   | 0.470 | 296.520       | 703.73                   | 4191.73                   | 51.98 N                                | 1.39 E           | 429281.88 N                             | 503876.49 E      | 0.00                         | -48.76              |           |
| 4288.02                   | 0.390 | 254.960       | 799.25                   | 4287.25                   | 52.07 N                                | 0.72 E           | 429281.97 N                             | 503875.82 E      | 0.33                         | -49.06              |           |
| 4383.54                   | 0.330 | 241.430       | 894.76                   | 4382.76                   | 51.85 N                                | 0.17 E           | 429281.75 N                             | 503875.27 E      | 0.11                         | -49.03              |           |
| 4479.06                   | 0.360 | 219.480       | 990.28                   | 4478.28                   | 51.49 N                                | 0.26 W           | 429281.39 N                             | 503874.84 E      | 0.14                         | -48.83              |           |
| 4574.58                   | 0.600 | 123.590       | 1085.80                  | 4573.80                   | 50.98 N                                | 0.04 W           | 429280.88 N                             | 503875.06 E      | 0.76                         | -48.27              |           |
| 4652.90                   | 0.960 | 132.880       | 1164.11                  | 4652.11                   | 50.31 N                                | 0.78 E           | 429280.21 N                             | 503875.88 E      | 0.49                         | -47.37              | last gyro |

## MWD Survey

|         |       |         |         |         |         |         |             |             |      |        |  |
|---------|-------|---------|---------|---------|---------|---------|-------------|-------------|------|--------|--|
| 4699.00 | 2.200 | 156.590 | 1210.19 | 4698.19 | 49.23 N | 1.42 E  | 429279.13 N | 503876.52 E | 2.99 | -46.15 |  |
| 4762.00 | 3.080 | 153.950 | 1273.13 | 4761.13 | 46.60 N | 2.64 E  | 429276.50 N | 503877.74 E | 1.41 | -43.26 |  |
| 4825.00 | 4.390 | 159.570 | 1335.99 | 4823.99 | 42.82 N | 4.23 E  | 429272.72 N | 503879.33 E | 2.16 | -39.17 |  |
| 4888.00 | 6.150 | 162.040 | 1398.72 | 4886.72 | 37.35 N | 6.11 E  | 429267.25 N | 503881.21 E | 2.82 | -33.39 |  |
| 4983.00 | 7.210 | 161.510 | 1493.08 | 4981.08 | 26.86 N | 9.57 E  | 429256.76 N | 503884.67 E | 1.12 | -22.34 |  |
| 5078.00 | 8.260 | 162.910 | 1587.21 | 5075.21 | 14.68 N | 13.47 E | 429244.58 N | 503888.57 E | 1.12 | -9.56  |  |
| 5174.00 | 8.610 | 159.400 | 1682.17 | 5170.17 | 1.36 N  | 18.02 E | 429231.26 N | 503893.12 E | 0.65 | 4.52   |  |
| 5269.00 | 9.230 | 155.360 | 1776.02 | 5264.02 | 12.22 S | 23.70 E | 429217.68 N | 503898.80 E | 0.93 | 19.21  |  |
| 5364.00 | 8.000 | 157.460 | 1869.95 | 5357.95 | 25.25 S | 29.41 E | 429204.65 N | 503904.51 E | 1.34 | 33.38  |  |
| 5427.00 | 7.120 | 156.760 | 1932.40 | 5420.40 | 32.89 S | 32.63 E | 429197.01 N | 503907.73 E | 1.40 | 41.65  |  |

## Survey Report for Sec.32-T24S-R26E - NM DD State Com #3

| Measured<br>Depth<br>(ft) | Incl. | Grid<br>Azim. | Sub-Sea<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Local Coordinates<br>Northings<br>(ft) | Eastings<br>(ft) | Global Coordinates<br>Northings<br>(ft) | Eastings<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Vertical<br>Section | Comment |
|---------------------------|-------|---------------|--------------------------|---------------------------|----------------------------------------|------------------|-----------------------------------------|------------------|-----------------------------|---------------------|---------|
| 5490.00                   | 6.420 | 151.840       | 1994.96                  | 5482.96                   | 39.58 S                                | 35.83 E          | 429190.32 N                             | 503910.93 E      | 1.44                        | 49.02               |         |
| 5554.00                   | 6.500 | 149.730       | 2058.56                  | 5546.56                   | 45.87 S                                | 39.35 E          | 429184.03 N                             | 503914.45 E      | 0.39                        | 56.10               |         |
| 5617.00                   | 5.710 | 156.060       | 2121.20                  | 5609.20                   | 51.81 S                                | 42.42 E          | 429178.09 N                             | 503917.52 E      | 1.65                        | 62.72               |         |
| 5713.00                   | 5.620 | 158.520       | 2216.73                  | 5704.73                   | 60.55 S                                | 46.08 E          | 429169.35 N                             | 503921.18 E      | 0.27                        | 72.17               |         |
| 5809.00                   | 5.620 | 160.630       | 2312.27                  | 5800.27                   | 69.36 S                                | 49.36 E          | 429160.54 N                             | 503924.46 E      | 0.22                        | 81.56               |         |
| 5904.00                   | 5.540 | 160.100       | 2406.82                  | 5894.82                   | 78.06 S                                | 52.46 E          | 429151.84 N                             | 503927.56 E      | 0.10                        | 90.80               |         |
| 5998.00                   | 5.980 | 157.820       | 2500.35                  | 5988.35                   | 86.86 S                                | 55.85 E          | 429143.04 N                             | 503930.95 E      | 0.53                        | 100.23              |         |
| 6094.00                   | 6.860 | 155.710       | 2595.74                  | 6083.74                   | 96.72 S                                | 60.10 E          | 429133.18 N                             | 503935.20 E      | 0.95                        | 110.92              |         |
| 6189.00                   | 5.360 | 163.440       | 2690.20                  | 6178.20                   | 106.14 S                               | 63.70 E          | 429123.76 N                             | 503938.80 E      | 1.80                        | 121.01              |         |
| 6284.00                   | 5.800 | 162.750       | 2784.75                  | 6272.75                   | 114.98 S                               | 66.39 E          | 429114.92 N                             | 503941.49 E      | 0.47                        | 130.24              |         |
| 6379.00                   | 6.430 | 161.980       | 2879.21                  | 6367.21                   | 124.62 S                               | 69.46 E          | 429105.28 N                             | 503944.56 E      | 0.67                        | 140.36              |         |
| 6474.00                   | 5.380 | 163.470       | 2973.71                  | 6461.71                   | 133.95 S                               | 72.37 E          | 429095.95 N                             | 503947.47 E      | 1.12                        | 150.13              |         |
| 6571.00                   | 5.310 | 164.970       | 3070.28                  | 6558.28                   | 142.64 S                               | 74.83 E          | 429087.26 N                             | 503949.93 E      | 0.16                        | 159.15              |         |
| 6665.00                   | 5.830 | 165.690       | 3163.84                  | 6651.84                   | 151.47 S                               | 77.14 E          | 429078.43 N                             | 503952.24 E      | 0.56                        | 168.25              |         |
| 6760.00                   | 5.680 | 168.600       | 3258.36                  | 6746.36                   | 160.75 S                               | 79.26 E          | 429069.15 N                             | 503954.36 E      | 0.35                        | 177.72              |         |
| 6855.00                   | 6.240 | 160.170       | 3352.85                  | 6840.85                   | 170.22 S                               | 81.94 E          | 429059.68 N                             | 503957.04 E      | 1.09                        | 187.54              |         |
| 6949.00                   | 6.260 | 155.150       | 3446.29                  | 6934.29                   | 179.68 S                               | 85.82 E          | 429050.22 N                             | 503960.92 E      | 0.58                        | 197.75              |         |
| 7044.00                   | 6.240 | 168.190       | 3540.73                  | 7028.73                   | 189.43 S                               | 89.06 E          | 429040.47 N                             | 503964.16 E      | 1.49                        | 208.02              |         |
| 7139.00                   | 5.890 | 173.290       | 3635.20                  | 7123.20                   | 199.32 S                               | 90.68 E          | 429030.58 N                             | 503965.78 E      | 0.68                        | 217.92              |         |
| 7234.00                   | 6.330 | 168.710       | 3729.66                  | 7217.66                   | 209.30 S                               | 92.28 E          | 429020.60 N                             | 503967.38 E      | 0.69                        | 227.87              |         |
| 7329.00                   | 5.800 | 172.760       | 3824.13                  | 7312.13                   | 219.20 S                               | 93.91 E          | 429010.70 N                             | 503969.01 E      | 0.72                        | 237.77              |         |
| 7424.00                   | 5.890 | 166.490       | 3918.64                  | 7406.64                   | 228.70 S                               | 95.65 E          | 429001.20 N                             | 503970.75 E      | 0.68                        | 247.33              |         |
| 7519.00                   | 7.030 | 157.110       | 4013.03                  | 7501.03                   | 238.80 S                               | 99.05 E          | 428991.10 N                             | 503974.15 E      | 1.63                        | 257.98              |         |
| 7614.00                   | 7.650 | 155.530       | 4107.25                  | 7595.25                   | 249.91 S                               | 103.93 E         | 428979.99 N                             | 503979.03 E      | 0.69                        | 270.07              |         |
| 7708.00                   | 7.120 | 153.250       | 4200.47                  | 7688.47                   | 260.80 S                               | 109.15 E         | 428969.10 N                             | 503984.25 E      | 0.64                        | 282.07              |         |
| 7803.00                   | 6.770 | 156.940       | 4294.78                  | 7782.78                   | 271.21 S                               | 113.99 E         | 428958.69 N                             | 503989.09 E      | 0.60                        | 293.48              |         |
| 7898.00                   | 6.150 | 165.370       | 4389.18                  | 7877.18                   | 281.29 S                               | 117.47 E         | 428948.61 N                             | 503992.57 E      | 1.19                        | 304.14              |         |
| 7993.00                   | 5.890 | 165.370       | 4483.65                  | 7971.65                   | 290.93 S                               | 119.99 E         | 428938.97 N                             | 503995.09 E      | 0.27                        | 314.08              |         |
| 8088.00                   | 7.030 | 170.120       | 4578.05                  | 8066.05                   | 301.37 S                               | 122.21 E         | 428928.53 N                             | 503997.31 E      | 1.32                        | 324.68              |         |
| 8182.00                   | 7.210 | 171.180       | 4671.32                  | 8159.32                   | 312.87 S                               | 124.11 E         | 428917.03 N                             | 503999.21 E      | 0.24                        | 336.17              |         |
| 8277.00                   | 7.120 | 176.450       | 4765.58                  | 8253.58                   | 324.64 S                               | 125.38 E         | 428905.26 N                             | 504000.48 E      | 0.70                        | 347.73              |         |
| 8372.00                   | 8.000 | 166.610       | 4859.76                  | 8347.76                   | 336.95 S                               | 127.28 E         | 428892.95 N                             | 504002.38 E      | 1.64                        | 359.99              |         |
| 8467.00                   | 8.000 | 168.010       | 4953.84                  | 8441.84                   | 349.84 S                               | 130.18 E         | 428880.06 N                             | 504005.28 E      | 0.21                        | 373.13              |         |
| 8562.00                   | 8.260 | 170.120       | 5047.88                  | 8535.88                   | 363.03 S                               | 132.73 E         | 428866.87 N                             | 504007.83 E      | 0.42                        | 386.44              |         |
| 8653.00                   | 8.170 | 163.970       | 5137.95                  | 8625.95                   | 375.69 S                               | 135.64 E         | 428854.21 N                             | 504010.74 E      | 0.97                        | 399.36              |         |



## Survey Report for Sec.32-T24S-R26E - NM DD State Com #3

| Measured<br>Depth<br>(ft) | Incl. | Grid<br>Azim. | Sub-Sea<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Local Coordinates |                  | Global Coordinates |                  | Dogleg<br>Rate<br>(°/100ft) | Vertical<br>Section | Comment               |
|---------------------------|-------|---------------|--------------------------|---------------------------|-------------------|------------------|--------------------|------------------|-----------------------------|---------------------|-----------------------|
|                           |       |               |                          |                           | Northings<br>(ft) | Eastings<br>(ft) | Northings<br>(ft)  | Eastings<br>(ft) |                             |                     |                       |
| 8748.00                   | 6.420 | 155.530       | 5232.18                  | 8720.18                   | 387.01 S          | 139.70 E         | 428842.89 N        | 504014.80 E      | 2.16                        | 411.38              |                       |
| 8841.00                   | 5.620 | 157.640       | 5324.67                  | 8812.67                   | 395.96 S          | 143.59 E         | 428833.94 N        | 504018.69 E      | 0.89                        | 421.10              |                       |
| 8934.00                   | 7.030 | 156.760       | 5417.10                  | 8905.10                   | 405.40 S          | 147.56 E         | 428824.50 N        | 504022.66 E      | 1.52                        | 431.32              |                       |
| 9028.00                   | 7.210 | 153.950       | 5510.37                  | 8998.37                   | 415.98 S          | 152.42 E         | 428813.92 N        | 504027.52 E      | 0.42                        | 442.91              |                       |
| 9123.00                   | 6.150 | 164.500       | 5604.73                  | 9092.73                   | 426.24 S          | 156.40 E         | 428803.66 N        | 504031.50 E      | 1.70                        | 453.90              |                       |
| 9218.00                   | 7.730 | 166.080       | 5699.03                  | 9187.03                   | 437.35 S          | 159.30 E         | 428792.55 N        | 504034.40 E      | 1.68                        | 465.35              |                       |
| 9312.00                   | 7.470 | 165.730       | 5792.21                  | 9280.21                   | 449.41 S          | 162.33 E         | 428780.49 N        | 504037.43 E      | 0.28                        | 477.74              |                       |
| 9406.00                   | 7.380 | 168.360       | 5885.42                  | 9373.42                   | 461.24 S          | 165.05 E         | 428768.66 N        | 504040.15 E      | 0.37                        | 489.82              |                       |
| 9501.00                   | 8.000 | 161.510       | 5979.56                  | 9467.56                   | 473.49 S          | 168.38 E         | 428756.41 N        | 504043.48 E      | 1.16                        | 502.49              |                       |
| 9595.00                   | 8.260 | 165.020       | 6072.62                  | 9560.62                   | 486.21 S          | 172.20 E         | 428743.69 N        | 504047.30 E      | 0.60                        | 515.77              |                       |
| 9690.00                   | 7.210 | 164.850       | 6166.75                  | 9654.75                   | 498.56 S          | 175.52 E         | 428731.34 N        | 504050.62 E      | 1.11                        | 528.52              |                       |
| 9785.00                   | 7.210 | 163.790       | 6261.00                  | 9749.00                   | 510.04 S          | 178.74 E         | 428719.66 N        | 504053.84 E      | 0.14                        | 540.43              |                       |
| 9880.00                   | 6.860 | 167.130       | 6355.29                  | 9843.29                   | 521.29 S          | 181.67 E         | 428708.61 N        | 504056.77 E      | 0.57                        | 552.03              |                       |
| 9975.00                   | 6.770 | 165.370       | 6449.62                  | 9937.62                   | 532.24 S          | 184.35 E         | 428697.66 N        | 504059.45 E      | 0.24                        | 563.26              |                       |
| 10070.00                  | 6.420 | 165.200       | 6543.99                  | 10031.99                  | 542.80 S          | 187.12 E         | 428687.10 N        | 504062.22 E      | 0.37                        | 574.14              |                       |
| 10118.00                  | 6.720 | 163.780       | 6591.67                  | 10079.67                  | 548.09 S          | 188.59 E         | 428681.81 N        | 504063.69 E      | 0.71                        | 579.62              |                       |
| 10213.00                  | 6.110 | 161.920       | 6686.08                  | 10174.08                  | 558.23 S          | 191.71 E         | 428671.67 N        | 504066.81 E      | 0.68                        | 590.23              |                       |
| 10308.00                  | 5.850 | 162.570       | 6780.56                  | 10268.56                  | 567.66 S          | 194.73 E         | 428662.24 N        | 504069.83 E      | 0.28                        | 600.13              |                       |
| 10404.00                  | 5.650 | 165.030       | 6876.08                  | 10364.08                  | 576.89 S          | 197.42 E         | 428653.01 N        | 504072.52 E      | 0.33                        | 609.73              |                       |
| 10499.00                  | 5.530 | 167.330       | 6970.63                  | 10458.63                  | 585.87 S          | 199.63 E         | 428644.03 N        | 504074.73 E      | 0.27                        | 618.95              |                       |
| 10595.00                  | 5.310 | 167.120       | 7066.20                  | 10554.20                  | 594.72 S          | 201.63 E         | 428635.18 N        | 504076.73 E      | 0.23                        | 627.97              |                       |
| 10691.00                  | 5.060 | 171.950       | 7161.80                  | 10649.80                  | 603.24 S          | 203.22 E         | 428626.66 N        | 504078.32 E      | 0.52                        | 636.54              |                       |
| 10786.00                  | 5.380 | 168.720       | 7256.41                  | 10744.41                  | 611.75 S          | 204.67 E         | 428618.15 N        | 504079.77 E      | 0.46                        | 645.08              |                       |
| 10882.00                  | 5.800 | 160.900       | 7351.96                  | 10839.96                  | 620.75 S          | 207.14 E         | 428609.15 N        | 504082.24 E      | 0.91                        | 654.39              |                       |
| 10978.00                  | 6.590 | 157.640       | 7447.39                  | 10935.39                  | 630.43 S          | 210.83 E         | 428599.47 N        | 504085.93 E      | 0.90                        | 664.74              |                       |
| 11072.00                  | 6.590 | 152.720       | 7540.77                  | 11028.77                  | 640.21 S          | 215.35 E         | 428589.69 N        | 504090.45 E      | 0.60                        | 675.46              |                       |
| 11166.00                  | 6.570 | 153.830       | 7634.15                  | 11122.15                  | 649.83 S          | 220.19 E         | 428580.07 N        | 504095.29 E      | 0.14                        | 686.12              |                       |
| 11260.00                  | 6.680 | 152.830       | 7727.53                  | 11215.53                  | 659.52 S          | 225.06 E         | 428570.38 N        | 504100.16 E      | 0.17                        | 696.87              |                       |
| 11355.00                  | 5.980 | 152.540       | 7821.95                  | 11309.95                  | 668.83 S          | 229.87 E         | 428561.07 N        | 504104.97 E      | 0.74                        | 707.22              |                       |
| 11450.00                  | 5.010 | 149.380       | 7916.51                  | 11404.51                  | 676.79 S          | 234.26 E         | 428553.11 N        | 504109.36 E      | 1.07                        | 716.18              |                       |
| 11544.00                  | 5.190 | 150.080       | 8010.14                  | 11498.14                  | 684.01 S          | 238.47 E         | 428545.89 N        | 504113.57 E      | 0.20                        | 724.37              |                       |
| 11638.00                  | 5.190 | 153.070       | 8103.75                  | 11591.75                  | 691.48 S          | 242.52 E         | 428538.42 N        | 504117.62 E      | 0.29                        | 732.75              |                       |
| 11674.00                  | 4.750 | 152.020       | 8139.62                  | 11627.62                  | 694.25 S          | 243.96 E         | 428535.65 N        | 504119.06 E      | 1.25                        | 735.83              | last MWD survey       |
| 11734.00                  | 4.750 | 152.020       | 8199.41                  | 11687.41                  | 698.64 S          | 246.29 E         | 428531.26 N        | 504121.39 E      | 0.00                        | 740.74              | projection to end run |

All data is in Feet (US) unless otherwise stated. Directions and coordinates are relative to Grid North.

## Survey Report for Sec.32-T24S-R26E - NM DD State Com #3

Vertical depths are relative to RKB(3468' +20'KB). Northings and Eastings are relative to Wellhead.  
Global Northings and Eastings are relative to NAD27 New Mexico State Planes, Eastern Zone.

The Dogleg Severity is in Degrees per 100 feet.  
Vertical Section is from Wellhead and calculated along an Azimuth of 161.200° (Grid).

Based upon Minimum Curvature type calculations, at a Measured Depth of 11734.00ft.,  
The Bottom Hole Displacement is 740.78ft., in the Direction of 160.581° (Grid).

### Comments

| Measured<br>Depth<br>(ft) | Station Coordinates |                   | Comment                        |
|---------------------------|---------------------|-------------------|--------------------------------|
|                           | TVD<br>(ft)         | Northings<br>(ft) | Eastings<br>(ft)               |
| 4652.90                   | 4652.11             | 50.31 N           | 0.78 E last gyro               |
| 11674.00                  | 11627.62            | 694.25 S          | 243.96 E last MWD survey       |
| 11734.00                  | 11687.41            | 698.64 S          | 246.29 E projection to end run |

## North Reference Sheet for Sec.32-T24S-R26E - NM DD State Com #3

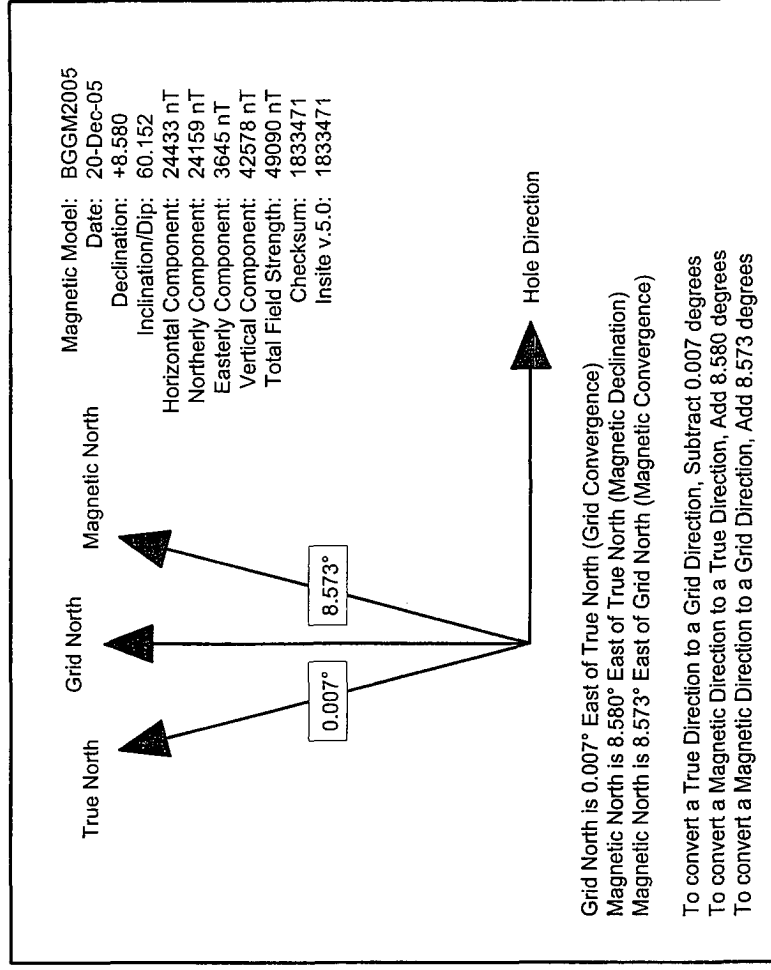
Coordinate System is NAD27 New Mexico State Planes, Eastern Zone, US Foot  
Source: Snyder, J.P., 1987, Map Projections - A Working Manual

Datum is North American Datum of 1927 (US48, AK, HI, and Canada)

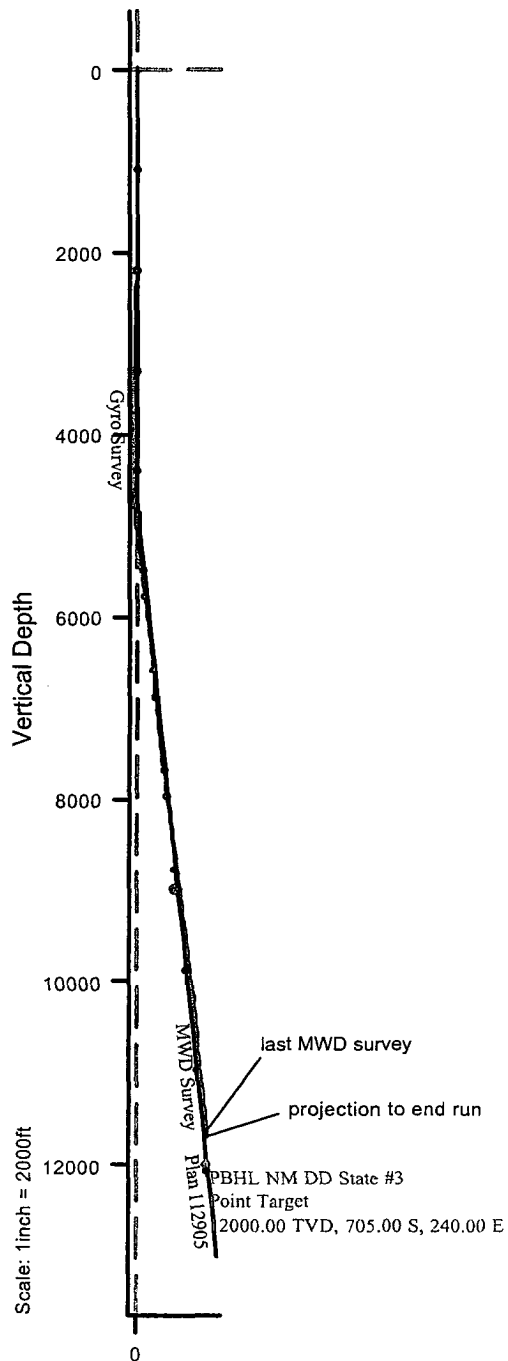
Spheroid is Clarke - 1866  
Equatorial Radius: 6378206.400m.  
Polar Radius: 6356583.800m.  
Inverse Flattening: 294.978698213901

Projection method is Transverse Mercator or Gauss Kruger Projection  
Central Meridian is -104.333°  
Longitude Origin: 0.000°  
Latitude Origin: 31.000°  
False Easting: 152400.00m  
False Northing: 0.00m  
Scale Reduction: 0.99990909

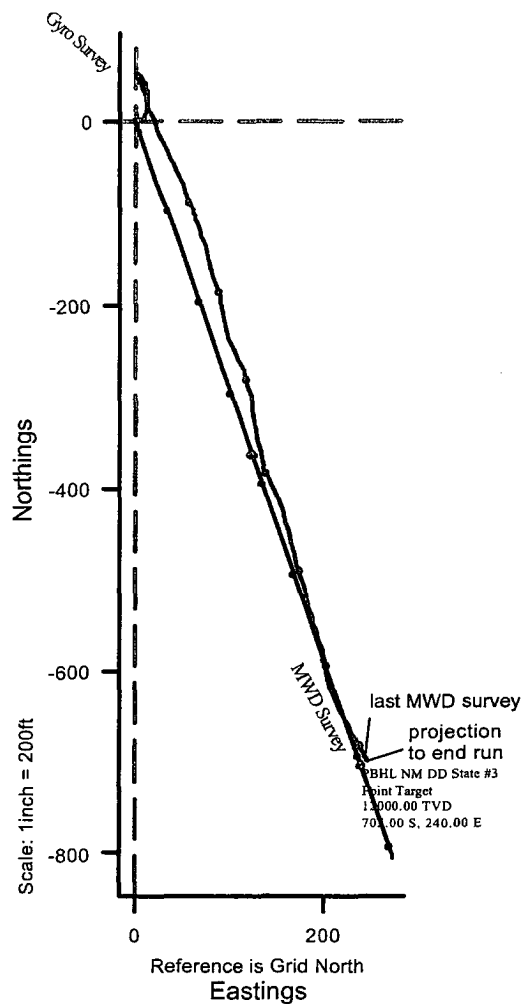
Grid Coordinates of Well: 429229.90 N, 503875.10 E  
Geographical Coordinates of Well: 32° 10' 48.2498" N, 104° 19' 14.9097" W  
Surface Elevation of Well: 3488.00ft  
Grid Convergence at Surface is +0.007°  
Magnetic Convergence at Surface is -8.573° (20 December, 2005)



New Mexico  
Eddy County  
Sec.32-T24S-R26E  
NM DD State Com #3



Section Azimuth: 161.200° (Grid North)  
Vertical Section



Prepared by:  
Dennis Cook

Date/Time:  
14 January, 2006 - 8:29

Checked:

Approved: