

# WELL LOGS

K Z

|             |              |           |                   |
|-------------|--------------|-----------|-------------------|
| API number: | 30-025-38299 |           |                   |
| OGRID:      |              | Operator: | CIMAREX ENERGY CO |
|             |              | Property: | PYRAMID # 1       |

|         |        |   |      |     |     |     |     |
|---------|--------|---|------|-----|-----|-----|-----|
| surface | ULSTR: | L | 31   | T   | 14S | R   | 38E |
|         |        |   | 2210 | FSL | 430 | FWL |     |

|        |        |   |     |     |     |     |     |
|--------|--------|---|-----|-----|-----|-----|-----|
| BH Loc | ULSTR: | M | 31  | T   | 14S | R   | 38E |
|        |        |   | 376 | FSL | 650 | FWL |     |

|               |      |     |      |     |       |
|---------------|------|-----|------|-----|-------|
| Ground Level: | 3791 | DF: | 3813 | KB: | 3814  |
| Datum:        | KB   |     |      | TD: | 11159 |

Land: STATE

Completion Date: (1) 11/27/2007

Date Logs Received: 10/20/2008

Date Logs Due in: (2) 12/17/2007

\*\*\*LATE\*\*\*

|               |    |  |  |           |  |
|---------------|----|--|--|-----------|--|
| Confidential: | NO |  |  | Date out: |  |
|---------------|----|--|--|-----------|--|

Confidential period: 90 Days for State & Fee, 1 Year for federal

Date Due In (1) is equal to Completion Date (1) + 20 days

| Logs        | Depth interval |      |                                        |
|-------------|----------------|------|----------------------------------------|
| TD LD CN/GR | 200            | 9781 | Three Detector Litho-Density           |
| HRLA        | 4740           | 9744 | High Resolution Laterolog              |
| BHC         | 4740           | 9798 | Borehole Compensated Sonic             |
|             | 4740           | 9731 | Hostile Natural Gamma Ray Spectroscopy |
| RCBL        | 2601           | 9620 | Radial Cement Bond Log                 |
|             |                |      |                                        |
|             |                |      |                                        |

K Z

## OCD TOPS

|            |      |           |  |  |
|------------|------|-----------|--|--|
| Rustler    | 2201 | Strawn    |  |  |
| Tansill    |      | Atoka     |  |  |
| Yates      | 3217 | Morrow    |  |  |
| 7 rvrs     | 3363 |           |  |  |
|            |      | Austin    |  |  |
|            |      | Chester   |  |  |
| Queen      | 4021 | Miss Lime |  |  |
| Penrose    |      |           |  |  |
| Grayburg   |      |           |  |  |
| San Andres | 4537 |           |  |  |
| Glorieta   | 6786 |           |  |  |
| Paddock    |      |           |  |  |
| Blinbry    |      |           |  |  |
| Tubb       | 7434 |           |  |  |
| Drinkard   | 7675 |           |  |  |
| Abo        | 8043 |           |  |  |
| Wolfcamp   | 9397 |           |  |  |
|            |      |           |  |  |
|            |      |           |  |  |

## Results of Directional Survey

|             |                     |           |                          |            |
|-------------|---------------------|-----------|--------------------------|------------|
| API number: | <b>30-025-38299</b> |           |                          |            |
| OGRID:      |                     | Operator: | <b>CIMAREX ENERGY CO</b> |            |
|             |                     | Property: | <b>PYRAMID</b>           | <b># 1</b> |

|         |        |          |             |            |              |            |              |
|---------|--------|----------|-------------|------------|--------------|------------|--------------|
| surface | ULSTR: | <b>L</b> | <b>31</b>   |            | <b>T 14S</b> |            | <b>R 38E</b> |
|         |        |          | <b>2210</b> | <b>FSL</b> |              | <b>430</b> | <b>FWL</b>   |

|        |        |          |            |            |              |            |              |
|--------|--------|----------|------------|------------|--------------|------------|--------------|
| BH Loc | ULSTR: | <b>M</b> | <b>31</b>  |            | <b>T 14S</b> |            | <b>R 38E</b> |
|        |        |          | <b>376</b> | <b>FSL</b> |              | <b>650</b> | <b>FWL</b>   |

|              |              |          |         |         |
|--------------|--------------|----------|---------|---------|
|              | MD           | N/S      | E/W     | VD      |
|              | 9509         | -257.77  | -105.49 | 9366.57 |
| TOP PERFS/OH | <b>9516</b>  | -270.43  | -101.48 | 9367.49 |
|              | 9519         | -275.86  | -99.76  | 9367.89 |
|              | 11087        | -1762.23 | 219.09  | 9395.26 |
| BOT PERFS/OH | <b>11108</b> | -1783.20 | 219.46  | 9396.30 |
|              | 11119        | -1794.18 | 219.65  | 9396.85 |

|              |              |          |        |         |
|--------------|--------------|----------|--------|---------|
| NEXT TO LAST | 11087        | -1762.23 | 219.09 | 9395.26 |
| LAST READING | 11119        | -1794.18 | 219.65 | 9396.85 |
| TD           | <b>11159</b> | -1834.12 | 220.35 | 9398.84 |

|                  |      |    |     |    |
|------------------|------|----|-----|----|
| Surface Location | 2210 | FS | 430 | FW |
| Projected BHL    | 376  | FS | 650 | FW |
| Location of      |      |    |     |    |
| Top Perfs/OH     | 1940 | FS | 329 | FW |
| Bottom Perfs/OH  | 427  | FS | 649 | FW |

### SUMMARY of Subsurface Locations

|                  |              |      |    |     |    |             |
|------------------|--------------|------|----|-----|----|-------------|
| Surface Location | L-31-14S-38E | 2210 | FS | 430 | FW | Vert. Depth |
|                  |              |      |    |     |    |             |
| Top Perfs/OH     | L-31-14S-38E | 1940 | FS | 329 | FW | 9367.49     |
| Bottom Perfs/OH  | M-31-14S-38E | 427  | FS | 649 | FW | 9396.30     |
|                  |              |      |    |     |    |             |
| Projected TD     | M-31-14S-38E | 376  | FS | 650 | FW | 9398.84     |

OPERATOR  
WELL/LEASE  
COUNTY

CIMAREX ENERGY COMPANY  
PYRAMID #1H  
LEA

075-0054

STATE OF NEW MEXICO  
DEVIATION REPORT

|       |      |
|-------|------|
| 236   | 1.00 |
| 550   | 2.25 |
| 946   | 3.50 |
| 978   | 4.00 |
| 1,010 | 4.60 |
| 1,137 | 5.20 |
| 1,200 | 4.10 |
| 1,434 | 2.00 |
| 1,712 | 1.00 |
| 1,965 | 1.00 |
| 2,070 | 1.00 |
| 2,194 | 1.00 |
| 2,511 | 1.00 |
| 2,797 | 1.00 |
| 3,028 | 1.00 |
| 3,280 | 1.00 |
| 3,357 | 1.00 |
| 4,010 | 1.00 |
| 4,454 | 1.00 |
| 4,999 | 1.00 |
| 5,139 | 1.00 |
| 5,674 | 0.75 |
| 5,961 | 1.25 |
| 6,499 | 1.00 |
| 7,007 | 0.75 |
| 7,515 | 1.00 |
| 7,820 | 1.00 |
| 8,241 | 1.00 |
| 8,600 | 1.00 |
| 9,035 | 1.50 |
| 9,400 | 1.50 |
| 9,800 | 1.00 |

SUR @ L-31-14s-38e, 2210/S & 430/W  
BHL @ M-31-14s-38e, 376/S & 650/W  
API #30-025-38299

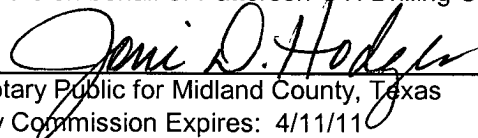
STATE OF TEXAS

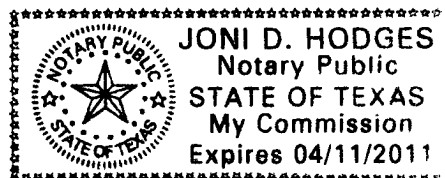
COUNTY OF MIDLAND

BY: 

The foregoing instrument was acknowledged before me on  
Moore on behalf of Patterson-UTI Drilling Company LLC.

August 27, 2007, by Steve

  
Notary Public for Midland County, Texas  
My Commission Expires: 4/11/11



SUR @ L-31-14s-38e, 2210/S & 430/W  
BHL @ M-31-14s-38e, 376/S & 650/W  
API #30-025-38299

## **Cimarex Energy Co., Inc.**

Lea County (NAD 83)

Pyramid #1H

Pyramid #1H

Lateral #1

Survey: MWD Survey #1

## **Standard Survey Report**

03 November, 2007



# Black Viper Energy

## Survey Report



|                  |                          |                                     |                                    |
|------------------|--------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>  | Cimarex Energy Co., Inc. | <b>Local Co-ordinate Reference:</b> | Site Pyramid #1H                   |
| <b>Project:</b>  | Lea County (NAD 83)      | <b>TVD Reference:</b>               | WELL @ 0.00ft (Original Well Elev) |
| <b>Site:</b>     | Pyramid #1H              | <b>MD Reference:</b>                | WELL @ 0.00ft (Original Well Elev) |
| <b>Well:</b>     | Pyramid #1H              | <b>North Reference:</b>             | Grid                               |
| <b>Wellbore:</b> | Lateral #1               | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Design:</b>   | Lateral #1               | <b>Database:</b>                    | EDM 2003.14 Server Db              |

|             |                           |                     |                |
|-------------|---------------------------|---------------------|----------------|
| Project     |                           | Lea County (NAD 83) |                |
| Map System: | US State Plane 1983       | System Datum:       | Mean Sea Level |
| Geo Datum:  | North American Datum 1983 |                     |                |
| Map Zone:   | New Mexico Eastern Zone   |                     |                |

|                       |         |              |               |                   |                  |
|-----------------------|---------|--------------|---------------|-------------------|------------------|
| Site                  |         | Pyramid #1H  |               |                   |                  |
| Site Position:        |         | Northing:    | 751,310.16 ft | Latitude:         | 33° 3' 34.793 N  |
| From:                 | Map     | Easting:     | 905,834.58 ft | Longitude:        | 103° 8' 37.125 W |
| Position Uncertainty: | 0.00 ft | Slot Radius: | "             | Grid Convergence: | 0 65 °           |

|                      |             |         |                     |               |               |                  |
|----------------------|-------------|---------|---------------------|---------------|---------------|------------------|
| Well                 | Pyramid #1H |         |                     |               |               |                  |
| Well Position        | +N/-S       | 0 00 ft | Northing:           | 751,310.16 ft | Latitude:     | 33° 3' 34.793 N  |
|                      | +E/-W       | 0 00 ft | Easting:            | 905,834.58 ft | Longitude:    | 103° 8' 37.125 W |
| Position Uncertainty |             | 0 00 ft | Wellhead Elevation: | ft            | Ground Level: | 0 00 ft          |

|           |            |             |                    |                  |                        |
|-----------|------------|-------------|--------------------|------------------|------------------------|
| Wellbore  |            | Lateral #1  |                    |                  |                        |
| Magnetics | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|           | IGRF200510 | 1/23/2007   | 7.97               | 61.16            | 49,658                 |

|                   |                  |        |        |                        |
|-------------------|------------------|--------|--------|------------------------|
| Design:           | Lateral #1       |        |        |                        |
| Audit Notes:      |                  |        |        |                        |
| Version:          | 1.0              | Phase: | ACTUAL | Tie On Depth: 9,100 00 |
| Vertical Section: | Depth From (TVD) | +N/-S  | +E/-W  | Direction              |
|                   | (ft)             | (ft)   | (ft)   | (°)                    |
|                   | 0.00             | 0.00   | 0 00   | 180.00                 |

| Survey Program |           | Date                       | 11/3/2007  |                                  |  |
|----------------|-----------|----------------------------|------------|----------------------------------|--|
| From           | To        | Survey (Wellbore)          | Tool Name  | Description                      |  |
| (ft)           | (ft)      |                            |            |                                  |  |
| 100.00         | 9,100.00  | Gyro Survey #1 (OH)        | NS-GYRO-MS | North sensing gyrocompassing m/s |  |
| 9,100 00       | 11,119 00 | MWD Survey #1 (Lateral #1) | MWD        | MWD - Standard                   |  |

|                         |                    |                |                 |              |              |                 |               |              |             |
|-------------------------|--------------------|----------------|-----------------|--------------|--------------|-----------------|---------------|--------------|-------------|
| <b>Survey</b>           |                    |                |                 |              |              |                 |               |              |             |
| <b>Measured</b>         | <b>Inclination</b> | <b>Azimuth</b> | <b>Vertical</b> | <b>+N/-S</b> | <b>+E/-W</b> | <b>Vertical</b> | <b>Dogleg</b> | <b>Build</b> | <b>Turn</b> |
| <b>Depth</b>            | <b>(°)</b>         | <b>(°)</b>     | <b>Depth</b>    | <b>(ft)</b>  | <b>(ft)</b>  | <b>Section</b>  | <b>Rate</b>   | <b>Rate</b>  | <b>Rate</b> |
| (ft)                    |                    |                | (ft)            |              |              | (ft)            | (°/100ft)     | (°/100ft)    | (°/100ft)   |
| 9,100 00                | 0 62               | 275 48         | 9,097 46        | -37.19       | -94 89       | 37.19           | 0 00          | 0.00         | 0.00        |
| 9,173.00                | 7.70               | 236.70         | 9,170 22        | -39 84       | -99.38       | 39 84           | 9.90          | 9 70         | -53.13      |
| <b>First MWD Survey</b> |                    |                |                 |              |              |                 |               |              |             |
| 9,183.00                | 9.70               | 240 60         | 9,180 11        | -40.62       | -100 67      | 40.62           | 20 84         | 20.00        | 39.00       |
| 9,194.00                | 10.80              | 235.00         | 9,190 93        | -41 67       | -102.32      | 41 67           | 13 48         | 10 00        | -50.91      |
| 9,201 00                | 12 00              | 228 50         | 9,197.80        | -42 52       | -103 41      | 42 52           | 25 09         | 17 14        | -92 86      |
| 9,211.00                | 13.40              | 220.70         | 9,207.55        | -44 09       | -104 94      | 44.09           | 22 11         | 14.00        | -78 00      |
| 9,223.00                | 15.70              | 214.80         | 9,219 17        | -46.48       | -106 77      | 46.48           | 22 78         | 19 17        | -49 17      |
| 9,233.00                | 20.30              | 211.20         | 9,228 67        | -49.08       | -108 45      | 49.08           | 47 31         | 46 00        | -36 00      |
| 9,243 00                | 25 50              | 208.70         | 9,237.88        | -52 45       | -110.38      | 52.45           | 52.89         | 52.00        | -25 00      |
| 9,255.00                | 31.60              | 206.50         | 9,248 42        | -57.53       | -113 03      | 57.53           | 51.58         | 50 83        | -18.33      |
| 9,265.00                | 37.50              | 203 80         | 9,256.65        | -62 67       | -115.42      | 62 67           | 60.94         | 59.00        | -27 00      |

# Black Viper Energy

## Survey Report



|           |                          |                              |                                    |
|-----------|--------------------------|------------------------------|------------------------------------|
| Company:  | Cimarex Energy Co., Inc. | Local Co-ordinate Reference: | Site Pyramid #1H                   |
| Project:  | Lea County (NAD 83)      | TVD Reference:               | WELL @ 0.00ft (Original Well Elev) |
| Site:     | Pyramid #1H              | MD Reference:                | WELL @ 0.00ft (Original Well Elev) |
| Well:     | Pyramid #1H              | North Reference:             | Grid                               |
| Wellbore: | Lateral #1               | Survey Calculation Method:   | Minimum Curvature                  |
| Design:   | Lateral #1               | Database:                    | EDM 2003.14 Server Db              |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                     |  |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |  |
| 9,275.00            | 42.00           | 200.90      | 9,264.34            | -68.58     | -117.85    | 68.58                 | 48.66                 | 45.00                | -29.00              |  |
| 9,287.00            | 45.10           | 198.20      | 9,273.04            | -76.37     | -120.61    | 76.37                 | 30.12                 | 25.83                | -22.50              |  |
| 9,297.00            | 47.70           | 195.50      | 9,279.93            | -83.30     | -122.70    | 83.30                 | 32.53                 | 26.00                | -27.00              |  |
| 9,307.00            | 49.70           | 193.60      | 9,286.53            | -90.57     | -124.59    | 90.57                 | 24.57                 | 20.00                | -19.00              |  |
| 9,318.00            | 52.20           | 191.60      | 9,293.46            | -98.91     | -126.45    | 98.91                 | 26.75                 | 22.73                | -18.18              |  |
| 9,328.00            | 54.50           | 190.30      | 9,299.43            | -106.79    | -127.97    | 106.79                | 25.25                 | 23.00                | -13.00              |  |
| 9,338.00            | 56.70           | 189.30      | 9,305.08            | -114.92    | -129.38    | 114.92                | 23.50                 | 22.00                | -10.00              |  |
| 9,350.00            | 58.80           | 187.60      | 9,311.49            | -124.96    | -130.87    | 124.96                | 21.21                 | 17.50                | -14.17              |  |
| 9,360.00            | 60.70           | 185.70      | 9,316.52            | -133.53    | -131.86    | 133.53                | 25.11                 | 19.00                | -19.00              |  |
| 9,370.00            | 62.60           | 184.40      | 9,321.27            | -142.30    | -132.64    | 142.30                | 22.18                 | 19.00                | -13.00              |  |
| 9,382.00            | 64.50           | 182.60      | 9,326.62            | -153.02    | -133.29    | 153.02                | 20.76                 | 15.83                | -15.00              |  |
| 9,392.00            | 65.90           | 180.40      | 9,330.81            | -162.10    | -133.53    | 162.10                | 24.39                 | 14.00                | -22.00              |  |
| 9,402.00            | 67.30           | 178.50      | 9,334.78            | -171.27    | -133.44    | 171.27                | 22.36                 | 14.00                | -19.00              |  |
| 9,414.00            | 68.70           | 176.30      | 9,339.28            | -182.39    | -132.93    | 182.39                | 20.62                 | 11.67                | -18.33              |  |
| 9,424.00            | 69.60           | 173.80      | 9,342.84            | -191.70    | -132.13    | 191.70                | 25.04                 | 9.00                 | -25.00              |  |
| 9,434.00            | 70.00           | 171.40      | 9,346.29            | -201.00    | -130.92    | 201.00                | 22.88                 | 4.00                 | -24.00              |  |
| 9,445.00            | 70.10           | 168.40      | 9,350.05            | -211.18    | -129.11    | 211.18                | 25.65                 | 0.91                 | -27.27              |  |
| 9,455.00            | 70.90           | 165.30      | 9,353.38            | -220.36    | -126.96    | 220.36                | 30.30                 | 8.00                 | -31.00              |  |
| 9,465.00            | 72.50           | 161.60      | 9,356.53            | -229.46    | -124.26    | 229.46                | 38.60                 | 16.00                | -37.00              |  |
| 9,477.00            | 75.00           | 157.70      | 9,359.88            | -240.25    | -120.25    | 240.25                | 37.51                 | 20.83                | -32.50              |  |
| 9,487.00            | 76.90           | 154.30      | 9,362.31            | -249.11    | -116.30    | 249.11                | 38.06                 | 19.00                | -34.00              |  |
| 9,497.00            | 78.50           | 149.90      | 9,364.44            | -257.75    | -111.73    | 257.75                | 45.87                 | 16.00                | -44.00              |  |
| 9,509.00            | 81.10           | 146.30      | 9,366.57            | -267.77    | -105.49    | 267.77                | 36.62                 | 21.67                | -30.00              |  |
| 9,519.00            | 83.70           | 143.10      | 9,367.89            | -275.86    | -99.76     | 275.86                | 41.01                 | 26.00                | -32.00              |  |
| 9,541.00            | 87.00           | 139.40      | 9,369.68            | -292.95    | -86.04     | 292.95                | 22.49                 | 15.00                | -16.82              |  |
| 9,572.00            | 88.10           | 137.10      | 9,371.00            | -316.05    | -65.42     | 316.05                | 8.22                  | 3.55                 | -7.42               |  |
| 9,604.00            | 87.70           | 137.60      | 9,372.17            | -339.58    | -43.75     | 339.58                | 2.00                  | -1.25                | 1.56                |  |
| 9,636.00            | 90.70           | 137.70      | 9,372.62            | -363.22    | -22.20     | 363.22                | 9.38                  | 9.38                 | 0.31                |  |
| 9,667.00            | 93.10           | 139.20      | 9,371.59            | -386.40    | -1.65      | 386.40                | 9.13                  | 7.74                 | 4.84                |  |
| 9,698.00            | 93.40           | 143.80      | 9,369.83            | -410.62    | 17.61      | 410.62                | 14.85                 | 0.97                 | 14.84               |  |
| 9,729.00            | 93.20           | 148.60      | 9,368.05            | -436.33    | 34.82      | 436.33                | 15.47                 | -0.65                | 15.48               |  |
| 9,761.00            | 92.60           | 149.40      | 9,366.43            | -463.72    | 51.28      | 463.72                | 3.12                  | -1.88                | 2.50                |  |
| 9,793.00            | 91.00           | 151.00      | 9,365.42            | -491.48    | 67.18      | 491.48                | 7.07                  | -5.00                | 5.00                |  |
| 9,825.00            | 91.30           | 153.50      | 9,364.78            | -519.79    | 82.07      | 519.79                | 7.87                  | 0.94                 | 7.81                |  |
| 9,856.00            | 90.90           | 155.80      | 9,364.19            | -547.80    | 95.34      | 547.80                | 7.53                  | -1.29                | 7.42                |  |
| 9,887.00            | 88.80           | 157.50      | 9,364.27            | -576.25    | 107.63     | 576.25                | 8.72                  | -6.77                | 5.48                |  |
| 9,919.00            | 87.60           | 161.60      | 9,365.27            | -606.22    | 118.80     | 606.22                | 13.34                 | -3.75                | 12.81               |  |
| 9,950.00            | 86.40           | 161.90      | 9,366.90            | -635.62    | 128.49     | 635.62                | 3.99                  | -3.87                | 0.97                |  |
| 9,983.00            | 87.30           | 162.90      | 9,368.71            | -667.02    | 138.46     | 667.02                | 4.07                  | 2.73                 | 3.03                |  |
| 10,014.00           | 89.00           | 164.20      | 9,369.71            | -696.74    | 147.23     | 696.74                | 6.90                  | 5.48                 | 4.19                |  |
| 10,045.00           | 88.60           | 164.40      | 9,370.36            | -726.57    | 155.62     | 726.57                | 1.44                  | -1.29                | 0.65                |  |
| 10,077.00           | 88.20           | 164.80      | 9,371.25            | -757.41    | 164.11     | 757.41                | 1.77                  | -1.25                | 1.25                |  |
| 10,109.00           | 88.50           | 166.90      | 9,372.17            | -788.43    | 171.93     | 788.43                | 6.63                  | 0.94                 | 6.56                |  |
| 10,140.00           | 88.20           | 167.00      | 9,373.07            | -818.61    | 178.93     | 818.61                | 1.02                  | -0.97                | 0.32                |  |
| 10,172.00           | 87.90           | 168.60      | 9,374.16            | -849.87    | 185.68     | 849.87                | 5.08                  | -0.94                | 5.00                |  |
| 10,204.00           | 88.60           | 170.30      | 9,375.13            | -881.31    | 191.54     | 881.31                | 5.74                  | 2.19                 | 5.31                |  |
| 10,235.00           | 88.70           | 170.40      | 9,375.86            | -911.87    | 196.74     | 911.87                | 0.46                  | 0.32                 | 0.32                |  |
| 10,267.00           | 89.30           | 171.40      | 9,376.42            | -943.46    | 201.80     | 943.46                | 3.64                  | 1.88                 | 3.13                |  |
| 10,299.00           | 89.20           | 173.90      | 9,376.84            | -975.19    | 205.89     | 975.19                | 7.82                  | -0.31                | 7.81                |  |
| 10,331.00           | 88.80           | 173.90      | 9,377.40            | -1,007.00  | 209.29     | 1,007.00              | 1.25                  | -1.25                | 0.00                |  |
| 10,362.00           | 88.00           | 175.70      | 9,378.27            | -1,037.86  | 212.10     | 1,037.86              | 6.35                  | -2.58                | 5.81                |  |
| 10,394.00           | 87.80           | 175.80      | 9,379.44            | -1,069.75  | 214.47     | 1,069.75              | 0.70                  | -0.63                | 0.31                |  |
| 10,426.00           | 87.40           | 175.90      | 9,380.78            | -1,101.64  | 216.78     | 1,101.64              | 1.29                  | -1.25                | 0.31                |  |
| 10,458.00           | 87.30           | 177.40      | 9,382.26            | -1,133.55  | 218.65     | 1,133.55              | 4.69                  | -0.31                | 4.69                |  |

# Black Viper Energy

## Survey Report



|                  |                         |                                     |                                    |
|------------------|-------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>  | Cimarex Energy Co. Inc. | <b>Local Co-ordinate Reference:</b> | Site Pyramid #1H                   |
| <b>Project:</b>  | Lea County (NAD 83)     | <b>TVD Reference:</b>               | WELL @ 0.00ft (Original Well Elev) |
| <b>Site:</b>     | Pyramid #1H             | <b>MD Reference:</b>                | WELL @ 0.00ft (Original Well Elev) |
| <b>Well:</b>     | Pyramid #1H             | <b>North Reference:</b>             | Gnd                                |
| <b>Wellbore:</b> | Lateral #1              | <b>Survey/Calculation Method:</b>   | Minimum Curvature                  |
| <b>Design:</b>   | Lateral #1              | <b>Database:</b>                    | EDM 2003.14 Server Db              |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 10,489.00           | 87.00           | 177.00      | 9,383.80            | -1,164.48  | 220.16     | 1,164.48              | 1.61                  | -0.97                | -1.29               |
| 10,521.00           | 87.30           | 179.00      | 9,385.39            | -1,196.42  | 221.28     | 1,196.42              | 6.31                  | 0.94                 | 6.25                |
| 10,552.00           | 88.10           | 180.00      | 9,386.63            | -1,227.39  | 221.55     | 1,227.39              | 4.13                  | 2.58                 | 3.23                |
| 10,584.00           | 87.70           | 180.00      | 9,387.81            | -1,259.37  | 221.55     | 1,259.37              | 1.25                  | -1.25                | 0.00                |
| 10,615.00           | 87.80           | 180.10      | 9,389.02            | -1,290.34  | 221.52     | 1,290.34              | 0.46                  | 0.32                 | 0.32                |
| 10,647.00           | 89.30           | 180.30      | 9,389.83            | -1,322.33  | 221.41     | 1,322.33              | 4.73                  | 4.69                 | 0.63                |
| 10,679.00           | 88.70           | 180.30      | 9,390.39            | -1,354.33  | 221.24     | 1,354.33              | 1.88                  | -1.88                | 0.00                |
| 10,710.00           | 89.30           | 180.10      | 9,390.93            | -1,385.32  | 221.13     | 1,385.32              | 2.04                  | 1.94                 | -0.65               |
| 10,742.00           | 89.50           | 180.90      | 9,391.27            | -1,417.32  | 220.85     | 1,417.32              | 2.58                  | 0.63                 | 2.50                |
| 10,772.00           | 89.90           | 181.10      | 9,391.43            | -1,447.31  | 220.33     | 1,447.31              | 1.49                  | 1.33                 | 0.67                |
| 10,804.00           | 90.20           | 181.30      | 9,391.40            | -1,479.31  | 219.66     | 1,479.31              | 1.13                  | 0.94                 | 0.63                |
| 10,835.00           | 90.50           | 181.20      | 9,391.21            | -1,510.30  | 218.98     | 1,510.30              | 1.02                  | 0.97                 | -0.32               |
| 10,867.00           | 89.70           | 180.90      | 9,391.15            | -1,542.29  | 218.40     | 1,542.29              | 2.67                  | -2.50                | -0.94               |
| 10,898.00           | 90.30           | 180.30      | 9,391.15            | -1,573.29  | 218.07     | 1,573.29              | 2.74                  | 1.94                 | -1.94               |
| 10,929.00           | 89.50           | 179.90      | 9,391.21            | -1,604.29  | 218.02     | 1,604.29              | 2.89                  | -2.58                | -1.29               |
| 10,961.00           | 88.80           | 179.90      | 9,391.68            | -1,636.29  | 218.07     | 1,636.29              | 2.19                  | -2.19                | 0.00                |
| 10,992.00           | 88.80           | 179.70      | 9,392.33            | -1,667.28  | 218.18     | 1,667.28              | 0.65                  | 0.00                 | -0.65               |
| 11,024.00           | 88.50           | 179.40      | 9,393.08            | -1,699.27  | 218.43     | 1,699.27              | 1.33                  | -0.94                | -0.94               |
| 11,055.00           | 88.10           | 179.50      | 9,394.00            | -1,730.26  | 218.73     | 1,730.26              | 1.33                  | -1.29                | 0.32                |
| 11,087.00           | 87.40           | 179.20      | 9,395.26            | -1,762.23  | 219.09     | 1,762.23              | 2.38                  | -2.19                | -0.94               |
| Last MWD Survey     |                 |             |                     |            |            |                       |                       |                      |                     |
| 11,119.00           | 86.90           | 178.80      | 9,396.85            | -1,794.18  | 219.65     | 1,794.18              | 2.00                  | -1.56                | -1.25               |
| Proj. To Bit        |                 |             |                     |            |            |                       |                       |                      |                     |
| 11,125.09           | 90.00           | 177.04      | 9,382.00            | -1,880.00  | 0.00       | 1,880.00              | 58.55                 | 50.89                | -28.96              |
| PBHL#1[P#1]         |                 |             |                     |            |            |                       |                       |                      |                     |

| Targets                                                                         |               |              |          |            |            |               |              |                 |                  |
|---------------------------------------------------------------------------------|---------------|--------------|----------|------------|------------|---------------|--------------|-----------------|------------------|
| Target Name                                                                     | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude        | Longitude        |
| - hit/miss target                                                               |               |              |          |            |            |               |              |                 |                  |
| - Shape                                                                         |               |              |          |            |            |               |              |                 |                  |
| T/ Wolfcamp (Pyramid #                                                          |               |              | 9,367.00 | -281.08    | -94.80     | 751,029.08    | 905,739.78   | 33° 3' 32.023 N | 103° 8' 38.276 W |
| - survey misses by 1.78ft at 9526.09ft MD (9368.60 TVD, -281.45 N, -95.47 E)    |               |              |          |            |            |               |              |                 |                  |
| - Point                                                                         |               |              |          |            |            |               |              |                 |                  |
| PBHL#1[P#1]                                                                     |               | 0.00         | 9,382.00 | -1,880.00  | 0.00       | 749,430.16    | 905,834.58   | 33° 3' 16.195 N | 103° 8' 37.375 W |
| - survey hits target                                                            |               |              |          |            |            |               |              |                 |                  |
| - Point                                                                         |               |              |          |            |            |               |              |                 |                  |
| SSL                                                                             | 0.00          | 0.00         | 9,400.00 | -890.00    | 0.00       | 750,420.16    | 905,834.58   | 33° 3' 25.989 N | 103° 8' 37.244 W |
| - survey misses by 191.69ft at 10178.24ft MD (9374.38 TVD, -855.99 N, 186.90 E) |               |              |          |            |            |               |              |                 |                  |
| - Point                                                                         |               |              |          |            |            |               |              |                 |                  |

| Survey Annotations  |                     |                   |            |                  |
|---------------------|---------------------|-------------------|------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment          |
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                  |
| 9,173.00            | 9,170.22            | -39.84            | -99.38     | First MWD Survey |
| 11,087.00           | 9,395.26            | -1,762.23         | 219.09     | Last MWD Survey  |
| 11,119.00           | 9,396.85            | -1,794.18         | 219.65     | Proj. To Bit     |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

Pyramid #1H Lateral Final Report 11-03-07.txt  
Cimarex Energy Co., Inc.  
Pyramid #1H - MWD Survey #1

Lea County (NAD 83)  
Pyramid #1H

| Measured<br>Dogleg<br>Depth<br>Rate<br>(ft)<br>(°/100ft) | Incl.  | Azim.   | Vertical<br>Depth<br>(ft) | Northings<br>(ft) | Eastings<br>(ft) | Vertical<br>Section<br>(ft) |
|----------------------------------------------------------|--------|---------|---------------------------|-------------------|------------------|-----------------------------|
| 9100.00                                                  | 0.619  | 275.482 | 9097.46                   | 37.19 S           | 94.89 W          | 37.19                       |
| 0.00                                                     |        |         |                           |                   |                  |                             |
| 9173.00                                                  | 7.700  | 236.700 | 9170.22                   | 39.84 S           | 99.38 W          | 39.84                       |
| 9.90                                                     |        |         |                           |                   |                  |                             |
| 9183.00                                                  | 9.700  | 240.600 | 9180.11                   | 40.62 S           | 100.67 W         | 40.62                       |
| 20.84                                                    |        |         |                           |                   |                  |                             |
| 9194.00                                                  | 10.800 | 235.000 | 9190.93                   | 41.67 S           | 102.32 W         | 41.67                       |
| 13.48                                                    |        |         |                           |                   |                  |                             |
| 9201.00                                                  | 12.000 | 228.500 | 9197.80                   | 42.52 S           | 103.41 W         | 42.52                       |
| 25.09                                                    |        |         |                           |                   |                  |                             |
| 9211.00                                                  | 13.400 | 220.700 | 9207.55                   | 44.09 S           | 104.94 W         | 44.09                       |
| 22.11                                                    |        |         |                           |                   |                  |                             |
| 9223.00                                                  | 15.700 | 214.800 | 9219.17                   | 46.48 S           | 106.77 W         | 46.48                       |
| 22.78                                                    |        |         |                           |                   |                  |                             |
| 9233.00                                                  | 20.300 | 211.200 | 9228.67                   | 49.08 S           | 108.45 W         | 49.08                       |
| 47.31                                                    |        |         |                           |                   |                  |                             |
| 9243.00                                                  | 25.500 | 208.700 | 9237.88                   | 52.45 S           | 110.38 W         | 52.45                       |
| 52.89                                                    |        |         |                           |                   |                  |                             |
| 9255.00                                                  | 31.600 | 206.500 | 9248.42                   | 57.53 S           | 113.03 W         | 57.53                       |
| 51.58                                                    |        |         |                           |                   |                  |                             |
| 9265.00                                                  | 37.500 | 203.800 | 9256.65                   | 62.67 S           | 115.42 W         | 62.67                       |
| 60.94                                                    |        |         |                           |                   |                  |                             |
| 9275.00                                                  | 42.000 | 200.900 | 9264.34                   | 68.58 S           | 117.85 W         | 68.58                       |
| 48.66                                                    |        |         |                           |                   |                  |                             |
| 9287.00                                                  | 45.100 | 198.200 | 9273.04                   | 76.37 S           | 120.61 W         | 76.37                       |
| 30.12                                                    |        |         |                           |                   |                  |                             |
| 9297.00                                                  | 47.700 | 195.500 | 9279.93                   | 83.30 S           | 122.70 W         | 83.30                       |
| 32.53                                                    |        |         |                           |                   |                  |                             |
| 9307.00                                                  | 49.700 | 193.600 | 9286.53                   | 90.57 S           | 124.59 W         | 90.57                       |
| 24.57                                                    |        |         |                           |                   |                  |                             |
| 9318.00                                                  | 52.200 | 191.600 | 9293.46                   | 98.91 S           | 126.45 W         | 98.91                       |
| 26.75                                                    |        |         |                           |                   |                  |                             |
| 9328.00                                                  | 54.500 | 190.300 | 9299.43                   | 106.79 S          | 127.97 W         | 106.79                      |
| 25.25                                                    |        |         |                           |                   |                  |                             |
| 9338.00                                                  | 56.700 | 189.300 | 9305.08                   | 114.92 S          | 129.38 W         | 114.92                      |
| 23.50                                                    |        |         |                           |                   |                  |                             |
| 9350.00                                                  | 58.800 | 187.600 | 9311.49                   | 124.96 S          | 130.87 W         | 124.96                      |
| 21.21                                                    |        |         |                           |                   |                  |                             |
| 9360.00                                                  | 60.700 | 185.700 | 9316.52                   | 133.53 S          | 131.86 W         | 133.53                      |
| 25.11                                                    |        |         |                           |                   |                  |                             |
| 9370.00                                                  | 62.600 | 184.400 | 9321.27                   | 142.30 S          | 132.64 W         | 142.30                      |
| 22.18                                                    |        |         |                           |                   |                  |                             |
| 9382.00                                                  | 64.500 | 182.600 | 9326.62                   | 153.02 S          | 133.29 W         | 153.02                      |
| 20.76                                                    |        |         |                           |                   |                  |                             |
| 9392.00                                                  | 65.900 | 180.400 | 9330.81                   | 162.10 S          | 133.53 W         | 162.10                      |
| 24.39                                                    |        |         |                           |                   |                  |                             |
| 9402.00                                                  | 67.300 | 178.500 | 9334.78                   | 171.27 S          | 133.44 W         | 171.27                      |
| 22.36                                                    |        |         |                           |                   |                  |                             |
| 9414.00                                                  | 68.700 | 176.300 | 9339.28                   | 182.39 S          | 132.93 W         | 182.39                      |
| 20.62                                                    |        |         |                           |                   |                  |                             |



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|          |        |         |         |          |          |        |
|----------|--------|---------|---------|----------|----------|--------|
| 9424.00  | 69.600 | 173.800 | 9342.84 | 191.70 S | 132.13 W | 191.70 |
| 25.04    |        |         |         |          |          |        |
| 9434.00  | 70.000 | 171.400 | 9346.29 | 201.00 S | 130.92 W | 201.00 |
| 22.88    |        |         |         |          |          |        |
| 9445.00  | 70.100 | 168.400 | 9350.05 | 211.18 S | 129.11 W | 211.18 |
| 25.65    |        |         |         |          |          |        |
| 9455.00  | 70.900 | 165.300 | 9353.38 | 220.36 S | 126.96 W | 220.36 |
| 30.30    |        |         |         |          |          |        |
| 9465.00  | 72.500 | 161.600 | 9356.53 | 229.46 S | 124.26 W | 229.46 |
| 38.60    |        |         |         |          |          |        |
| 9477.00  | 75.000 | 157.700 | 9359.88 | 240.25 S | 120.25 W | 240.25 |
| 37.51    |        |         |         |          |          |        |
| 9487.00  | 76.900 | 154.300 | 9362.31 | 249.11 S | 116.30 W | 249.11 |
| 38.06    |        |         |         |          |          |        |
| 9497.00  | 78.500 | 149.900 | 9364.44 | 257.75 S | 111.73 W | 257.75 |
| 45.87    |        |         |         |          |          |        |
| 9509.00  | 81.100 | 146.300 | 9366.57 | 267.77 S | 105.49 W | 267.77 |
| 36.62    |        |         |         |          |          |        |
| 9519.00  | 83.700 | 143.100 | 9367.89 | 275.86 S | 99.76 W  | 275.86 |
| 41.01    |        |         |         |          |          |        |
| 9541.00  | 87.000 | 139.400 | 9369.68 | 292.95 S | 86.04 W  | 292.95 |
| 22.49    |        |         |         |          |          |        |
| 9572.00  | 88.100 | 137.100 | 9371.00 | 316.05 S | 65.42 W  | 316.05 |
| 8.22     |        |         |         |          |          |        |
| 9604.00  | 87.700 | 137.600 | 9372.17 | 339.58 S | 43.75 W  | 339.58 |
| 2.00     |        |         |         |          |          |        |
| 9636.00  | 90.700 | 137.700 | 9372.62 | 363.22 S | 22.20 W  | 363.22 |
| 9.38     |        |         |         |          |          |        |
| 9667.00  | 93.100 | 139.200 | 9371.59 | 386.40 S | 1.65 W   | 386.40 |
| 9.13     |        |         |         |          |          |        |
| 9698.00  | 93.400 | 143.800 | 9369.83 | 410.62 S | 17.61 E  | 410.62 |
| 14.85    |        |         |         |          |          |        |
| 9729.00  | 93.200 | 148.600 | 9368.05 | 436.33 S | 34.82 E  | 436.33 |
| 15.47    |        |         |         |          |          |        |
| 9761.00  | 92.600 | 149.400 | 9366.43 | 463.72 S | 51.28 E  | 463.72 |
| 3.12     |        |         |         |          |          |        |
| 9793.00  | 91.000 | 151.000 | 9365.42 | 491.48 S | 67.18 E  | 491.48 |
| 7.07     |        |         |         |          |          |        |
| 9825.00  | 91.300 | 153.500 | 9364.78 | 519.79 S | 82.07 E  | 519.79 |
| 7.87     |        |         |         |          |          |        |
| 9856.00  | 90.900 | 155.800 | 9364.19 | 547.80 S | 95.34 E  | 547.80 |
| 7.53     |        |         |         |          |          |        |
| 9887.00  | 88.800 | 157.500 | 9364.27 | 576.25 S | 107.63 E | 576.25 |
| 8.72     |        |         |         |          |          |        |
| 9919.00  | 87.600 | 161.600 | 9365.27 | 606.22 S | 118.80 E | 606.22 |
| 13.34    |        |         |         |          |          |        |
| 9950.00  | 86.400 | 161.900 | 9366.90 | 635.62 S | 128.49 E | 635.62 |
| 3.99     |        |         |         |          |          |        |
| 9983.00  | 87.300 | 162.900 | 9368.71 | 667.02 S | 138.46 E | 667.02 |
| 4.07     |        |         |         |          |          |        |
| 10014.00 | 89.000 | 164.200 | 9369.71 | 696.74 S | 147.23 E | 696.74 |
| 6.90     |        |         |         |          |          |        |
| 10045.00 | 88.600 | 164.400 | 9370.36 | 726.57 S | 155.62 E | 726.57 |
| 1.44     |        |         |         |          |          |        |
| 10077.00 | 88.200 | 164.800 | 9371.25 | 757.41 S | 164.11 E | 757.41 |
| 1.77     |        |         |         |          |          |        |
| 10109.00 | 88.500 | 166.900 | 9372.17 | 788.43 S | 171.93 E | 788.43 |
| 6.63     |        |         |         |          |          |        |
| 10140.00 | 88.200 | 167.000 | 9373.07 | 818.61 S | 178.93 E | 818.61 |
| 1.02     |        |         |         |          |          |        |
| 10172.00 | 87.900 | 168.600 | 9374.16 | 849.87 S | 185.68 E | 849.87 |
| 5.08     |        |         |         |          |          |        |
| 10204.00 | 88.600 | 170.300 | 9375.13 | 881.31 S | 191.54 E | 881.31 |

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|          |        |         |         |           |          |         |
|----------|--------|---------|---------|-----------|----------|---------|
| 5.74     |        |         |         |           |          |         |
| 10235.00 | 88.700 | 170.400 | 9375.86 | 911.87 S  | 196.74 E | 911.87  |
| 0.46     |        |         |         |           |          |         |
| 10267.00 | 89.300 | 171.400 | 9376.42 | 943.46 S  | 201.80 E | 943.46  |
| 3.64     |        |         |         |           |          |         |
| 10299.00 | 89.200 | 173.900 | 9376.84 | 975.19 S  | 205.89 E | 975.19  |
| 7.82     |        |         |         |           |          |         |
| 10331.00 | 88.800 | 173.900 | 9377.40 | 1007.00 S | 209.29 E | 1007.00 |
| 1.25     |        |         |         |           |          |         |
| 10362.00 | 88.000 | 175.700 | 9378.27 | 1037.86 S | 212.10 E | 1037.86 |
| 6.35     |        |         |         |           |          |         |
| 10394.00 | 87.800 | 175.800 | 9379.44 | 1069.75 S | 214.47 E | 1069.75 |
| 0.70     |        |         |         |           |          |         |
| 10426.00 | 87.400 | 175.900 | 9380.78 | 1101.64 S | 216.78 E | 1101.64 |
| 1.29     |        |         |         |           |          |         |
| 10458.00 | 87.300 | 177.400 | 9382.26 | 1133.55 S | 218.65 E | 1133.55 |
| 4.69     |        |         |         |           |          |         |
| 10489.00 | 87.000 | 177.000 | 9383.80 | 1164.48 S | 220.16 E | 1164.48 |
| 1.61     |        |         |         |           |          |         |
| 10521.00 | 87.300 | 179.000 | 9385.39 | 1196.42 S | 221.28 E | 1196.42 |
| 6.31     |        |         |         |           |          |         |
| 10552.00 | 88.100 | 180.000 | 9386.63 | 1227.39 S | 221.55 E | 1227.39 |
| 4.13     |        |         |         |           |          |         |
| 10584.00 | 87.700 | 180.000 | 9387.81 | 1259.37 S | 221.55 E | 1259.37 |
| 1.25     |        |         |         |           |          |         |
| 10615.00 | 87.800 | 180.100 | 9389.02 | 1290.34 S | 221.52 E | 1290.34 |
| 0.46     |        |         |         |           |          |         |
| 10647.00 | 89.300 | 180.300 | 9389.83 | 1322.33 S | 221.41 E | 1322.33 |
| 4.73     |        |         |         |           |          |         |
| 10679.00 | 88.700 | 180.300 | 9390.39 | 1354.33 S | 221.24 E | 1354.33 |
| 1.88     |        |         |         |           |          |         |
| 10710.00 | 89.300 | 180.100 | 9390.93 | 1385.32 S | 221.13 E | 1385.32 |
| 2.04     |        |         |         |           |          |         |
| 10742.00 | 89.500 | 180.900 | 9391.27 | 1417.32 S | 220.85 E | 1417.32 |
| 2.58     |        |         |         |           |          |         |
| 10772.00 | 89.900 | 181.100 | 9391.43 | 1447.31 S | 220.33 E | 1447.31 |
| 1.49     |        |         |         |           |          |         |
| 10804.00 | 90.200 | 181.300 | 9391.40 | 1479.31 S | 219.66 E | 1479.31 |
| 1.13     |        |         |         |           |          |         |
| 10835.00 | 90.500 | 181.200 | 9391.21 | 1510.30 S | 218.98 E | 1510.30 |
| 1.02     |        |         |         |           |          |         |
| 10867.00 | 89.700 | 180.900 | 9391.15 | 1542.29 S | 218.40 E | 1542.29 |
| 2.67     |        |         |         |           |          |         |
| 10898.00 | 90.300 | 180.300 | 9391.15 | 1573.29 S | 218.07 E | 1573.29 |
| 2.74     |        |         |         |           |          |         |
| 10929.00 | 89.500 | 179.900 | 9391.21 | 1604.29 S | 218.02 E | 1604.29 |
| 2.89     |        |         |         |           |          |         |
| 10961.00 | 88.800 | 179.900 | 9391.68 | 1636.29 S | 218.07 E | 1636.29 |
| 2.19     |        |         |         |           |          |         |
| 10992.00 | 88.800 | 179.700 | 9392.33 | 1667.28 S | 218.18 E | 1667.28 |
| 0.65     |        |         |         |           |          |         |
| 11024.00 | 88.500 | 179.400 | 9393.08 | 1699.27 S | 218.43 E | 1699.27 |
| 1.33     |        |         |         |           |          |         |
| 11055.00 | 88.100 | 179.500 | 9394.00 | 1730.26 S | 218.73 E | 1730.26 |
| 1.33     |        |         |         |           |          |         |
| 11087.00 | 87.400 | 179.200 | 9395.26 | 1762.23 S | 219.09 E | 1762.23 |
| 2.38     |        |         |         |           |          |         |
| 11119.00 | 86.900 | 178.800 | 9396.85 | 1794.18 S | 219.65 E | 1794.18 |
| 2.00     |        |         |         |           |          |         |

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.

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Vertical depths are relative to WELL. Northings and Eastings are relative to well.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Slot and calculated along an Azimuth of 180.000° (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.

Central meridian is -104.333°.

Grid Convergence at Surface is 0.649°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 11119.00ft., the Bottom Hole Displacement is 1807.58ft., in the Direction of 180.000° (Grid).