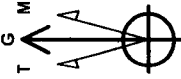


# Rockcliff Energy

Project: Eddy County, NM  
 Site: Toro Pad  
 Well: Toro 23 #431H  
 Wellbore: OH  
 Design: OH

Azimuths to Grid North  
 True North: -0.14°  
 Magnetic North: 7.21°  
 Magnetic Field  
 Strength: 48183.0nT  
 Dip Angle: 60.15°  
 Date: 12/23/2016  
 Model: HDGM



PROJECT DETAILS: Eddy County, NM  
 Geodetic System: US State Plane 1927 (Exact solution)  
 Datum: NAD 1927 (NADCON CONUS)  
 Ellipsoid: Clarke 1866  
 Zone: New Mexico East 3001  
 Datum: RKB @ 3021.00usft

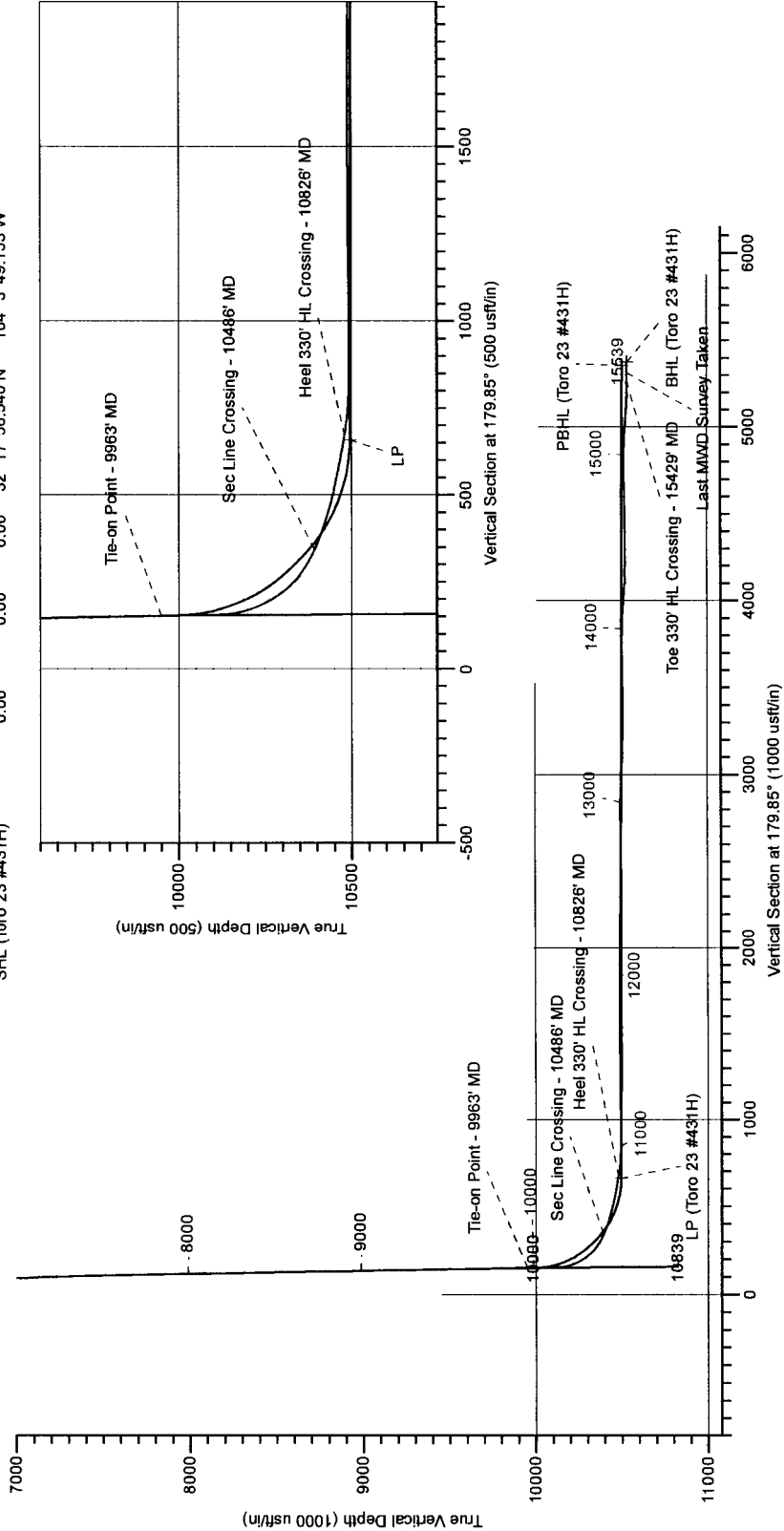
30-015-44089

## ACTUAL ANNOTATIONS

| TVD      | MD       | Inc   | Azi    | +N/-S    | +E/-W   | VSect   | Departure | Annotation              |
|----------|----------|-------|--------|----------|---------|---------|-----------|-------------------------|
| 9949.76  | 9963.00  | 2.12  | 231.95 | -153.38  | -334.77 | 152.50  | 448.89    | Tie-on Point - 9963' MD |
| 10392.98 | 10486.00 | 66.11 | 173.79 | -344.67  | -310.16 | 343.86  | 647.65    | Sec Line Crossing       |
| 10479.09 | 10826.40 | 81.18 | 180.56 | -672.47  | -299.26 | 671.68  | 976.10    | Heel 330' HL Crossing   |
| 10536.29 | 15429.00 | 89.26 | 176.27 | -5267.56 | -275.89 | 5266.82 | 5576.07   | Toe 330' HL Crossing    |
| 10536.87 | 15478.00 | 89.38 | 177.10 | -5316.47 | -273.06 | 5315.74 | 5625.07   | Last MWD Survey Taken   |
| 10537.53 | 15539.00 | 89.38 | 177.10 | -5377.39 | -269.97 | 5376.66 | 5688.06   | Projection              |

## ACTUAL TARGET DETAILS

| Name                 | TVD      | +N/-S    | +E/-W   | Latitude         | Longitude        |
|----------------------|----------|----------|---------|------------------|------------------|
| BHL (Toro 23 #431H)  | 10537.53 | -5377.39 | -269.97 | 32° 17' 3.331 N  | 104° 3' 52.455 W |
| LP (Toro 23 #431H)   | 10494.72 | -659.19  | -389.26 | 32° 17' 50.026 N | 104° 3' 53.474 W |
| PBHL (Toro 23 #431H) | 10507.02 | -5358.00 | -357.03 | 32° 17' 3.523 N  | 104° 3' 53.469 W |
| SHL (Toro 23 #431H)  | 0.00     | 0.00     | 0.00    | 32° 17' 56.540 N | 104° 3' 49.153 W |



NM OIL CONSERVATION  
 ARTESIA DISTRICT

DEC 27 2017

RECEIVED

Design: OH (Toro 23 #431H/OH)  
 Created By: RDW  
 Date: 18.42, June 12 2017  
 Approved: \_\_\_\_\_  
 Date: \_\_\_\_\_

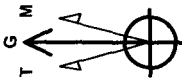
LEAM DRILLING SERVICES  
 2010 East Davis, Conroe, Texas 77301  
 Phone: 936/756-7577, Fax: 936/756-7595



# Rockcliff Energy

Project: Eddy County, NM  
 Site: Toro Pad  
 Well: Toro 23 #431H  
 Wellbore: OH  
 Design: OH

Azimuths to Grid North  
 True North: -0.14°  
 Magnetic North: 7.21°  
 Magnetic Field  
 Strength: 48783.0nT  
 Dip Angle: 60.15°  
 Date: 12/23/2016  
 Model: HDGM



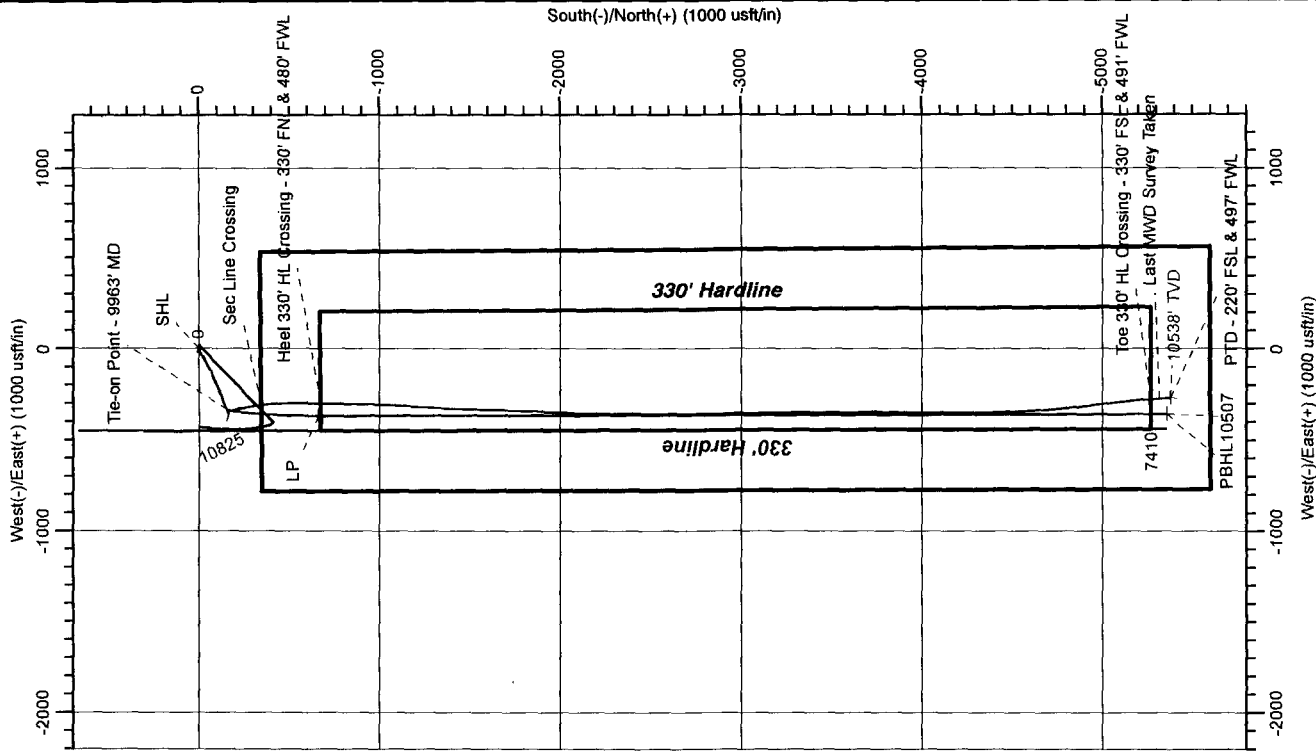
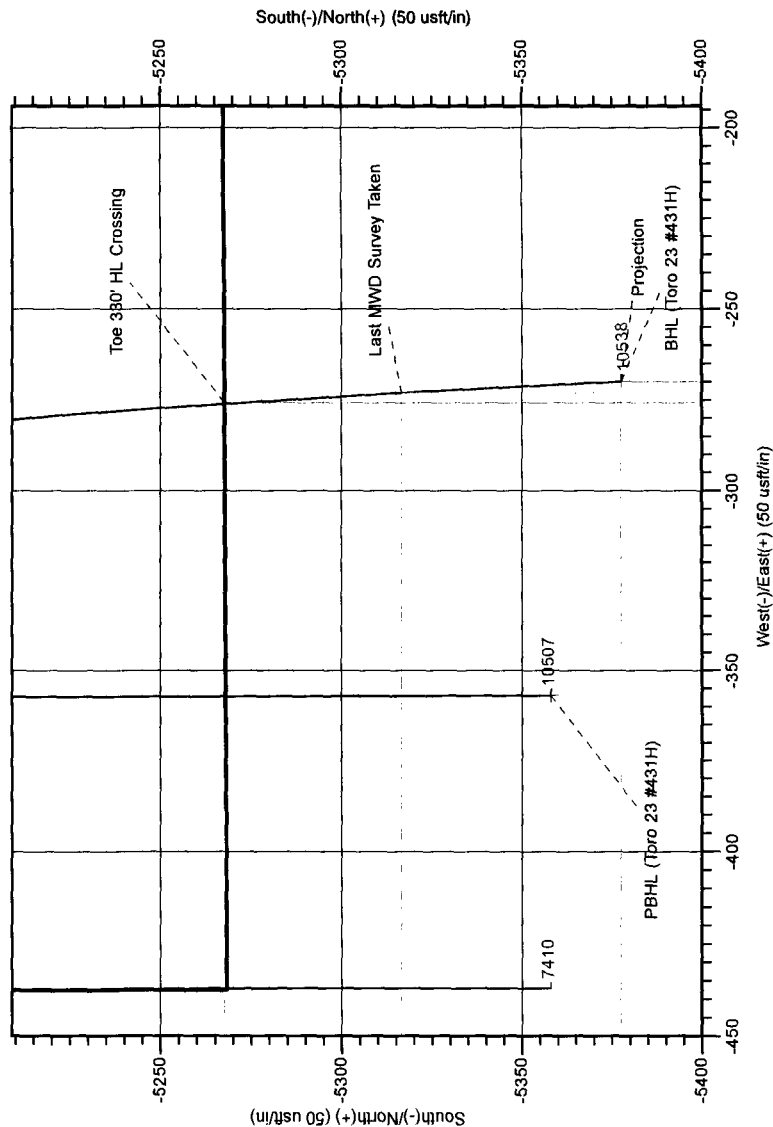
PROJECT DETAILS: Eddy County, NM  
 Geodetic System: US State Plane 1927 (Exact solution)  
 Datum: NAD 1927 (NADCON CONUS)  
 Ellipsoid: Clarke 1866  
 Zone: New Mexico East 3001  
 Datum: RKB @ 3021.00usft

## ACTUAL TARGET DETAILS

| Name                 | TVD      | +N/-S    | +E/-W   | Northing  | Eastings  | Latitude         | Longitude        |
|----------------------|----------|----------|---------|-----------|-----------|------------------|------------------|
| BHL (Toro 23 #431H)  | 10537.53 | -5377.39 | -269.97 | 467234.61 | 583057.03 | 32° 17' 3.331 N  | 104° 3' 52.455 W |
| LP (Toro 23 #431H)   | 10494.72 | -659.19  | -369.26 | 471952.81 | 582957.74 | 32° 17' 50.026 N | 104° 3' 53.474 W |
| PBHL (Toro 23 #431H) | 10507.02 | -5388.00 | -357.03 | 467254.00 | 582969.97 | 32° 17' 3.525 N  | 104° 3' 53.469 W |
| SHL (Toro 23 #431H)  | 0.00     | 0.00     | 0.00    | 472612.00 | 583327.00 | 32° 17' 58.540 N | 104° 3' 49.153 W |

## ACTUAL ANNOTATIONS

| TVD      | MD       | Inc   | Azi    | +N/-S    | +E/-W   | V-Sect  | Departure | Annotation              |
|----------|----------|-------|--------|----------|---------|---------|-----------|-------------------------|
| 9949.76  | 9963.00  | 2.12  | 231.95 | -153.38  | -334.77 | 152.50  | 448.89    | Tie-on Point - 9963' MD |
| 10392.98 | 10486.00 | 66.11 | 173.79 | -344.67  | -310.16 | 343.86  | 647.65    | Sec Line Crossing       |
| 10479.09 | 10826.40 | 81.18 | 180.56 | -672.47  | -299.26 | 671.68  | 976.10    | Heel 330' HL Crossing   |
| 10536.29 | 15429.00 | 89.26 | 176.27 | -5267.56 | -275.89 | 5266.82 | 5576.07   | Toe 330' HL Crossing    |
| 10536.87 | 15478.00 | 89.38 | 177.10 | -5316.47 | -273.06 | 5315.74 | 5625.07   | Last MWD Survey Taken   |
| 10537.53 | 15539.00 | 89.38 | 177.10 | -5377.39 | -269.97 | 5376.66 | 5686.06   | Projection              |



LEAM DRILLING SERVICES  
 2010 East Davis, Conroe, Texas 77301  
 Phone: 936/756-7577, Fax: 936/756-7595

Design: OH (Toro 23 #431H/OH)  
 Created By: RDW  
 Date: 1851, June 12 2017  
 Approved: \_\_\_\_\_  
 Date: \_\_\_\_\_

# **Rockcliff Energy**

**Eddy County, NM**

**Toro Pad**

**Toro 23 #431H**

**OH**

**Design: OH**

## **Standard Survey Report**

**12 June, 2017**

# LEAM Drilling Systems LLC

## Survey Report

|                  |                  |                                     |                          |
|------------------|------------------|-------------------------------------|--------------------------|
| <b>Company:</b>  | Rockcliff Energy | <b>Local Co-ordinate Reference:</b> | Well Toro 23 #431H       |
| <b>Project:</b>  | Eddy County, NM  | <b>TVD Reference:</b>               | RKB @ 3021.00usft        |
| <b>Site:</b>     | Toro Pad         | <b>MD Reference:</b>                | RKB @ 3021.00usft        |
| <b>Well:</b>     | Toro 23 #431H    | <b>North Reference:</b>             | Grid                     |
| <b>Wellbore:</b> | OH               | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Design:</b>   | OH               | <b>Database:</b>                    | EDM 5000.1 Multi User Db |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project:</b>    | Eddy County, NM                      |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico East 3001                 |                      |                |

|                              |           |                          |                  |
|------------------------------|-----------|--------------------------|------------------|
| <b>Site:</b>                 | Toro Pad  |                          |                  |
| <b>Site Position:</b>        |           | <b>Northing:</b>         | 472,609.00 usft  |
| <b>From:</b>                 | Map       | <b>Easting:</b>          | 582,897.00 usft  |
| <b>Position Uncertainty:</b> | 1.00 usft | <b>Slot Radius:</b>      | 13-3/16 "        |
|                              |           | <b>Latitude:</b>         | 32° 17' 56.521 N |
|                              |           | <b>Longitude:</b>        | 104° 3' 54.163 W |
|                              |           | <b>Grid Convergence:</b> | 0.14 °           |

|                             |               |                            |                                  |
|-----------------------------|---------------|----------------------------|----------------------------------|
| <b>Well:</b>                | Toro 23 #431H |                            |                                  |
| <b>Well Position</b>        | +N/-S         | 0.00 usft                  | <b>Northing:</b> 472,612.00 usft |
|                             | +E/-W         | 0.00 usft                  | <b>Easting:</b> 583,327.00 usft  |
| <b>Position Uncertainty</b> | 1.00 usft     | <b>Wellhead Elevation:</b> | 0.00 usft                        |
|                             |               | <b>Latitude:</b>           | 32° 17' 56.540 N                 |
|                             |               | <b>Longitude:</b>          | 104° 3' 49.153 W                 |
|                             |               | <b>Ground Level:</b>       | 2,996.00 usft                    |

|                  |    |  |  |
|------------------|----|--|--|
| <b>Wellbore:</b> | OH |  |  |
|------------------|----|--|--|

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (G) |
|-----------|------------|-------------|-----------------|---------------|--------------------|
|           | HDGM       | 12/23/2016  | 7.35            | 60.15         | 48,183             |

|                |    |  |  |
|----------------|----|--|--|
| <b>Design:</b> | OH |  |  |
|----------------|----|--|--|

|                     |     |               |        |                               |
|---------------------|-----|---------------|--------|-------------------------------|
| <b>Audit Notes:</b> |     |               |        |                               |
| <b>Version:</b>     | 1.0 | <b>Phase:</b> | ACTUAL | <b>Tie On Depth:</b> 9,963.00 |

| Vertical Section: | Depth From (TVD)<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Direction<br>(°) |
|-------------------|----------------------------|---------------|---------------|------------------|
|                   | 0.00                       | 0.00          | 0.00          | 179.85           |

| Survey Program |              | Date: 6/12/2017        |               |                |  |
|----------------|--------------|------------------------|---------------|----------------|--|
| From<br>(usft) | To<br>(usft) | Survey (Wellbore)      | Tool Name     | Description    |  |
| 142.00         | 9,963.00     | Survey #1 (Pilot Hole) | MWD-ISCWSA    | MWD - Standard |  |
| 10,068.00      | 15,478.00    | Survey #1 (OH)         | LEAM MWD+HDGM | MWD+HDGM       |  |
| 15,539.00      | 15,539.00    | Survey #2 (OH)         | Project       | Projection     |  |

| Survey                      |                    |                |                             |               |               |                               |                               |                              |                             |
|-----------------------------|--------------------|----------------|-----------------------------|---------------|---------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
| 0.00                        | 0.00               | 0.00           | 0.00                        | 0.00          | 0.00          | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 142.00                      | 0.96               | 319.83         | 141.99                      | 0.91          | -0.77         | -0.91                         | 0.68                          | 0.68                         | 0.00                        |
| 294.00                      | 1.35               | 324.77         | 293.96                      | 3.34          | -2.62         | -3.35                         | 0.26                          | 0.26                         | 3.25                        |
| 438.00                      | 1.07               | 309.74         | 437.93                      | 5.59          | -4.63         | -5.60                         | 0.29                          | -0.19                        | -10.44                      |
| 618.00                      | 1.16               | 284.76         | 617.90                      | 7.13          | -7.69         | -7.15                         | 0.27                          | 0.05                         | -13.88                      |
| 799.00                      | 1.27               | 275.91         | 798.86                      | 7.80          | -11.46        | -7.83                         | 0.12                          | 0.06                         | -4.89                       |
| 983.00                      | 0.94               | 271.35         | 982.82                      | 8.05          | -14.99        | -8.09                         | 0.19                          | -0.18                        | -2.48                       |
| 1,138.00                    | 0.79               | 274.09         | 1,137.80                    | 8.15          | -17.33        | -8.20                         | 0.10                          | -0.10                        | 1.77                        |
| 1,319.00                    | 0.70               | 260.54         | 1,318.79                    | 8.06          | -19.66        | -8.11                         | 0.11                          | -0.05                        | -7.49                       |

# LEAM Drilling Systems LLC

## Survey Report

|           |                  |                             |                          |
|-----------|------------------|-----------------------------|--------------------------|
| Company:  | Rockcliff Energy | Local Coordinate Reference: | Well Toro 23 #431H       |
| Project:  | Eddy County, NM  | TVD Reference:              | RKB @ 3021.00usft        |
| Site:     | Toro Pad         | MD Reference:               | RKB @ 3021.00usft        |
| Well:     | Toro 23 #431H    | North Reference:            | Grid                     |
| Wellbore: | OH               | Survey Calculation Method:  | Minimum Curvature        |
| Design:   | OH               | Database:                   | EDM 5000.1 Multi User Db |

| Survey                |                 |             |                       |            |            |                         |                        |                       |                      |
|-----------------------|-----------------|-------------|-----------------------|------------|------------|-------------------------|------------------------|-----------------------|----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | N-S (usft) | E-W (usft) | Vertical Section (usft) | Dogleg Rate (/100usft) | Bulld Rate (/100usft) | Turn Rate (/100usft) |
| 1,501.00              | 0.59            | 246.78      | 1,500.78              | 7.51       | -21.62     | -7.57                   | 0.10                   | -0.06                 | -7.56                |
| 1,682.00              | 0.30            | 199.64      | 1,681.77              | 6.69       | -22.64     | -6.75                   | 0.25                   | -0.16                 | -26.04               |
| 1,864.00              | 1.13            | 120.69      | 1,863.76              | 5.33       | -21.25     | -5.39                   | 0.61                   | 0.46                  | -43.38               |
| 2,045.00              | 1.63            | 112.52      | 2,044.71              | 3.43       | -17.34     | -3.48                   | 0.30                   | 0.28                  | -4.51                |
| 2,227.00              | 2.73            | 123.88      | 2,226.57              | 0.03       | -11.35     | -0.06                   | 0.65                   | 0.60                  | 6.24                 |
| 2,408.00              | 0.90            | 82.71       | 2,407.48              | -2.20      | -6.36      | 2.18                    | 1.18                   | -1.01                 | -22.75               |
| 2,560.00              | 1.07            | 84.42       | 2,559.46              | -1.91      | -3.77      | 1.90                    | 0.11                   | 0.11                  | 1.13                 |
| 2,680.00              | 1.21            | 89.04       | 2,679.43              | -1.78      | -1.38      | 1.77                    | 0.14                   | 0.12                  | 3.85                 |
| 2,861.00              | 1.28            | 90.58       | 2,860.39              | -1.77      | 2.55       | 1.77                    | 0.04                   | 0.04                  | 0.85                 |
| 2,952.00              | 1.42            | 340.48      | 2,951.38              | -0.71      | 3.19       | 0.72                    | 2.43                   | 0.15                  | -120.99              |
| 3,043.00              | 2.71            | 295.52      | 3,042.32              | 1.28       | 0.87       | -1.27                   | 2.17                   | 1.42                  | -49.41               |
| 3,133.00              | 3.69            | 265.15      | 3,132.19              | 1.95       | -3.94      | -1.96                   | 2.14                   | 1.09                  | -33.74               |
| 3,224.00              | 4.82            | 244.27      | 3,222.94              | 0.04       | -10.30     | -0.07                   | 2.09                   | 1.24                  | -22.95               |
| 3,315.00              | 5.08            | 243.28      | 3,313.60              | -3.43      | -17.34     | 3.39                    | 0.30                   | 0.29                  | -1.09                |
| 3,496.00              | 3.92            | 245.86      | 3,494.04              | -9.56      | -30.15     | 9.49                    | 0.65                   | -0.64                 | 1.43                 |
| 3,677.00              | 4.33            | 231.80      | 3,674.57              | -16.32     | -41.16     | 16.21                   | 0.60                   | 0.23                  | -7.77                |
| 3,859.00              | 3.61            | 224.86      | 3,856.14              | -24.63     | -50.60     | 24.50                   | 0.47                   | -0.40                 | -3.81                |
| 4,041.00              | 3.82            | 246.30      | 4,037.76              | -31.13     | -60.20     | 30.97                   | 0.77                   | 0.12                  | 11.78                |
| 4,222.00              | 4.03            | 243.76      | 4,218.34              | -36.36     | -71.42     | 36.18                   | 0.15                   | 0.12                  | -1.40                |
| 4,404.00              | 4.32            | 244.80      | 4,399.86              | -42.11     | -83.36     | 41.89                   | 0.16                   | 0.16                  | 0.57                 |
| 4,585.00              | 3.62            | 236.76      | 4,580.42              | -48.15     | -94.31     | 47.90                   | 0.49                   | -0.39                 | -4.44                |
| 4,767.00              | 3.18            | 244.43      | 4,762.10              | -53.47     | -103.67    | 53.20                   | 0.35                   | -0.24                 | 4.21                 |
| 4,949.00              | 2.95            | 239.52      | 4,943.84              | -58.03     | -112.26    | 57.73                   | 0.19                   | -0.13                 | -2.70                |
| 5,130.00              | 2.07            | 228.35      | 5,124.67              | -62.56     | -118.71    | 62.25                   | 0.55                   | -0.49                 | -6.17                |
| 5,313.00              | 0.68            | 102.22      | 5,307.63              | -64.99     | -120.12    | 64.68                   | 1.38                   | -0.76                 | -68.92               |
| 5,495.00              | 0.84            | 115.32      | 5,489.62              | -65.79     | -117.86    | 65.48                   | 0.13                   | 0.09                  | 7.20                 |
| 5,677.00              | 0.95            | 113.72      | 5,671.59              | -66.97     | -115.27    | 66.66                   | 0.06                   | 0.06                  | -0.88                |
| 5,858.00              | 0.80            | 316.34      | 5,852.59              | -66.66     | -114.77    | 66.36                   | 0.95                   | -0.08                 | -86.95               |
| 5,949.00              | 1.93            | 275.31      | 5,943.56              | -66.05     | -116.74    | 65.75                   | 1.57                   | 1.24                  | -45.09               |
| 6,040.00              | 3.70            | 259.77      | 6,034.45              | -66.43     | -121.15    | 66.12                   | 2.10                   | 1.95                  | -17.08               |
| 6,131.00              | 4.01            | 257.88      | 6,125.24              | -67.62     | -127.15    | 67.29                   | 0.37                   | 0.34                  | -2.08                |
| 6,221.00              | 4.02            | 254.60      | 6,215.02              | -69.12     | -133.27    | 68.77                   | 0.26                   | 0.01                  | -3.64                |
| 6,403.00              | 3.18            | 244.91      | 6,396.66              | -72.96     | -143.99    | 72.58                   | 0.57                   | -0.46                 | -5.32                |
| 6,585.00              | 3.39            | 248.40      | 6,578.36              | -77.08     | -153.57    | 76.68                   | 0.16                   | 0.12                  | 1.92                 |
| 6,766.00              | 7.08            | 251.22      | 6,758.58              | -82.64     | -169.11    | 82.20                   | 2.04                   | 2.04                  | 1.56                 |
| 6,949.00              | 6.41            | 242.46      | 6,940.31              | -91.00     | -188.85    | 90.50                   | 0.67                   | -0.37                 | -4.79                |
| 7,131.00              | 4.18            | 240.01      | 7,121.53              | -99.01     | -203.60    | 98.48                   | 1.23                   | -1.23                 | -1.35                |
| 7,312.00              | 3.44            | 248.89      | 7,302.13              | -104.26    | -214.38    | 103.70                  | 0.52                   | -0.41                 | 4.91                 |
| 7,494.00              | 3.33            | 245.80      | 7,483.81              | -108.40    | -224.30    | 107.81                  | 0.12                   | -0.06                 | -1.70                |
| 7,676.00              | 2.79            | 243.19      | 7,665.55              | -112.56    | -233.07    | 111.95                  | 0.31                   | -0.30                 | -1.43                |
| 7,859.00              | 2.92            | 252.83      | 7,848.32              | -115.95    | -241.50    | 115.31                  | 0.27                   | 0.07                  | 5.27                 |
| 8,041.00              | 3.05            | 239.42      | 8,030.08              | -119.78    | -250.10    | 119.12                  | 0.39                   | 0.07                  | -7.37                |
| 8,223.00              | 1.66            | 244.60      | 8,211.92              | -123.37    | -256.65    | 122.70                  | 0.77                   | -0.76                 | 2.85                 |

# LEAM Drilling Systems LLC

## Survey Report

|                  |                  |                                    |                          |
|------------------|------------------|------------------------------------|--------------------------|
| <b>Company:</b>  | Rockcliff Energy | <b>Local Coordinate Reference:</b> | Well Toro 23 #431H       |
| <b>Project:</b>  | Eddy County, NM  | <b>TVD Reference:</b>              | RKB @ 3021.00usft        |
| <b>Site:</b>     | Toro Pad         | <b>MD Reference:</b>               | RKB @ 3021.00usft        |
| <b>Well:</b>     | Toro 23 #431H    | <b>North Reference:</b>            | Grid                     |
| <b>Wellbore:</b> | OH               | <b>Survey Calculation Method:</b>  | Minimum Curvature        |
| <b>Design:</b>   | OH               | <b>Database:</b>                   | EDM 5000.1 Multi User Db |

| Survey                      |                    |                |                             |               |               |                               |                               |                              |                             |
|-----------------------------|--------------------|----------------|-----------------------------|---------------|---------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | N-S<br>(usft) | E-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
| 8,405.00                    | 2.56               | 253.19         | 8,393.80                    | -125.68       | -262.92       | 124.99                        | 0.52                          | 0.49                         | 4.72                        |
| 8,587.00                    | 4.12               | 258.15         | 8,575.48                    | -128.20       | -273.21       | 127.48                        | 0.87                          | 0.86                         | 2.73                        |
| 8,768.00                    | 3.83               | 247.84         | 8,756.05                    | -131.81       | -285.17       | 131.06                        | 0.43                          | -0.16                        | -5.70                       |
| 8,949.00                    | 3.26               | 243.19         | 8,936.70                    | -136.41       | -295.36       | 135.64                        | 0.35                          | -0.31                        | -2.57                       |
| 9,131.00                    | 2.86               | 255.21         | 9,118.44                    | -139.91       | -304.37       | 139.11                        | 0.41                          | -0.22                        | 6.60                        |
| 9,312.00                    | 2.61               | 256.17         | 9,299.24                    | -142.04       | -312.74       | 141.23                        | 0.14                          | -0.14                        | 0.53                        |
| 9,494.00                    | 2.21               | 244.90         | 9,481.08                    | -144.52       | -319.94       | 143.69                        | 0.34                          | -0.22                        | -6.19                       |
| 9,675.00                    | 2.05               | 241.39         | 9,661.95                    | -147.55       | -325.94       | 146.70                        | 0.11                          | -0.09                        | -1.94                       |
| 9,856.00                    | 2.14               | 235.39         | 9,842.83                    | -151.02       | -331.57       | 150.16                        | 0.13                          | 0.05                         | -3.31                       |
| 9,963.00                    | 2.12               | 231.95         | 9,949.76                    | -153.38       | -334.77       | 152.50                        | 0.12                          | -0.02                        | -3.21                       |
| Tie-on Point - 9963' MD     |                    |                |                             |               |               |                               |                               |                              |                             |
| 10,068.00                   | 2.38               | 260.59         | 10,054.68                   | -154.93       | -338.45       | 154.05                        | 1.09                          | 0.25                         | 27.28                       |
| 10,123.00                   | 2.47               | 237.47         | 10,109.63                   | -155.76       | -340.58       | 154.86                        | 1.77                          | 0.16                         | -42.04                      |
| 10,150.00                   | 4.77               | 200.42         | 10,136.58                   | -157.12       | -341.46       | 156.23                        | 11.74                         | 8.52                         | -137.22                     |
| 10,165.00                   | 7.04               | 184.91         | 10,151.50                   | -158.62       | -341.76       | 157.73                        | 18.37                         | 15.13                        | -103.40                     |
| 10,214.00                   | 17.84              | 170.79         | 10,199.29                   | -169.06       | -340.81       | 168.16                        | 22.74                         | 22.04                        | -28.82                      |
| 10,259.00                   | 26.81              | 167.42         | 10,240.87                   | -185.80       | -337.49       | 184.92                        | 20.13                         | 19.93                        | -7.49                       |
| 10,305.00                   | 33.42              | 165.23         | 10,280.64                   | -208.20       | -331.99       | 207.33                        | 14.56                         | 14.37                        | -4.76                       |
| 10,350.00                   | 41.36              | 167.30         | 10,316.37                   | -234.73       | -325.55       | 233.88                        | 17.86                         | 17.64                        | 4.60                        |
| 10,395.00                   | 51.99              | 171.95         | 10,347.21                   | -266.89       | -319.78       | 266.05                        | 24.78                         | 23.62                        | 10.33                       |
| 10,441.00                   | 60.46              | 172.97         | 10,372.76                   | -304.76       | -314.79       | 303.94                        | 18.50                         | 18.41                        | 2.22                        |
| 10,486.00                   | 66.11              | 173.79         | 10,392.98                   | -344.67       | -310.16       | 343.86                        | 12.66                         | 12.56                        | 1.82                        |
| Sec Line Crossing           |                    |                |                             |               |               |                               |                               |                              |                             |
| 10,531.00                   | 70.19              | 174.15         | 10,409.73                   | -386.20       | -305.78       | 385.40                        | 9.10                          | 9.07                         | 0.80                        |
| 10,577.00                   | 71.78              | 173.94         | 10,424.71                   | -429.45       | -301.27       | 428.66                        | 3.48                          | 3.46                         | -0.46                       |
| 10,622.00                   | 74.00              | 178.18         | 10,437.96                   | -472.35       | -298.32       | 471.56                        | 10.27                         | 4.93                         | 9.42                        |
| 10,667.00                   | 77.69              | 180.74         | 10,448.96                   | -515.97       | -297.92       | 515.19                        | 9.88                          | 8.20                         | 5.69                        |
| 10,713.00                   | 78.44              | 180.47         | 10,458.48                   | -560.97       | -298.39       | 560.19                        | 1.73                          | 1.63                         | -0.59                       |
| 10,758.00                   | 78.96              | 180.37         | 10,467.29                   | -605.10       | -298.72       | 604.31                        | 1.18                          | 1.16                         | -0.22                       |
| 10,826.40                   | 81.18              | 180.56         | 10,479.09                   | -672.47       | -299.26       | 671.68                        | 3.25                          | 3.24                         | 0.28                        |
| Heel 330' HL Crossing       |                    |                |                             |               |               |                               |                               |                              |                             |
| 10,849.00                   | 81.91              | 180.62         | 10,482.41                   | -694.82       | -299.49       | 694.03                        | 3.25                          | 3.24                         | 0.27                        |
| 10,939.00                   | 87.48              | 181.20         | 10,490.73                   | -784.39       | -300.92       | 783.60                        | 6.22                          | 6.19                         | 0.64                        |
| 11,030.00                   | 89.22              | 181.17         | 10,493.35                   | -875.33       | -302.80       | 874.53                        | 1.91                          | 1.91                         | -0.03                       |
| 11,121.00                   | 90.90              | 181.35         | 10,493.26                   | -966.30       | -304.80       | 965.50                        | 1.86                          | 1.85                         | 0.20                        |
| 11,212.00                   | 91.01              | 182.80         | 10,491.74                   | -1,057.23     | -308.09       | 1,056.41                      | 1.60                          | 0.12                         | 1.59                        |
| 11,302.00                   | 90.34              | 184.79         | 10,490.68                   | -1,147.02     | -314.05       | 1,146.19                      | 2.33                          | -0.74                        | 2.21                        |
| 11,393.00                   | 89.33              | 182.95         | 10,490.94                   | -1,237.80     | -320.19       | 1,236.96                      | 2.31                          | -1.11                        | -2.02                       |
| 11,484.00                   | 91.57              | 183.05         | 10,490.23                   | -1,328.67     | -324.95       | 1,327.81                      | 2.46                          | 2.46                         | 0.11                        |
| 11,574.00                   | 90.45              | 182.11         | 10,488.64                   | -1,418.56     | -329.00       | 1,417.70                      | 1.62                          | -1.24                        | -1.04                       |
| 11,665.00                   | 90.06              | 181.90         | 10,488.23                   | -1,509.51     | -332.19       | 1,508.63                      | 0.49                          | -0.43                        | -0.23                       |
| 11,756.00                   | 89.72              | 180.76         | 10,488.41                   | -1,600.48     | -334.30       | 1,599.60                      | 1.31                          | -0.37                        | -1.25                       |
| 11,847.00                   | 90.73              | 182.05         | 10,488.05                   | -1,691.45     | -336.53       | 1,690.56                      | 1.80                          | 1.11                         | 1.42                        |
| 11,937.00                   | 89.38              | 181.62         | 10,487.96                   | -1,781.40     | -339.41       | 1,780.51                      | 1.57                          | -1.50                        | -0.48                       |

# LEAM Drilling Systems LLC

## Survey Report

|                  |                  |                                     |                          |
|------------------|------------------|-------------------------------------|--------------------------|
| <b>Company:</b>  | Rockcliff Energy | <b>Local Co-ordinate Reference:</b> | Well Toro 23 #431H       |
| <b>Project:</b>  | Eddy County, NM  | <b>TVD Reference:</b>               | RKB @ 3021.00usft        |
| <b>Site:</b>     | Toro Pad         | <b>MD Reference:</b>                | RKB @ 3021.00usft        |
| <b>Well:</b>     | Toro 23 #431H    | <b>North Reference:</b>             | Grid                     |
| <b>Wellbore:</b> | OH               | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Design:</b>   | OH               | <b>Database:</b>                    | EDM 5000.1 Multi User Db |

| Survey                       |                 |             |                       |            |            |                         |                         |                        |                       |  |
|------------------------------|-----------------|-------------|-----------------------|------------|------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft)        | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | N/G (usft) | EAW (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 12,028.00                    | 90.00           | 182.67      | 10,488.46             | -1,872.33  | -342.82    | 1,871.43                | 1.34                    | 0.68                   | 1.15                  |  |
| 12,119.00                    | 88.54           | 183.07      | 10,489.62             | -1,963.21  | -347.38    | 1,962.29                | 1.66                    | -1.60                  | 0.44                  |  |
| 12,210.00                    | 89.83           | 183.39      | 10,490.91             | -2,054.05  | -352.50    | 2,053.12                | 1.46                    | 1.42                   | 0.35                  |  |
| 12,300.00                    | 88.26           | 180.72      | 10,492.41             | -2,143.97  | -355.73    | 2,143.03                | 3.44                    | -1.74                  | -2.97                 |  |
| 12,391.00                    | 89.10           | 179.95      | 10,494.51             | -2,234.94  | -356.26    | 2,234.00                | 1.25                    | 0.92                   | -0.85                 |  |
| 12,482.00                    | 90.39           | 181.16      | 10,494.91             | -2,325.94  | -357.14    | 2,324.99                | 1.94                    | 1.42                   | 1.33                  |  |
| 12,572.00                    | 89.33           | 180.07      | 10,495.13             | -2,415.93  | -358.11    | 2,414.98                | 1.69                    | -1.18                  | -1.21                 |  |
| 12,663.00                    | 89.55           | 179.62      | 10,496.02             | -2,506.92  | -357.86    | 2,505.98                | 0.55                    | 0.24                   | -0.49                 |  |
| 12,754.00                    | 89.61           | 179.94      | 10,496.69             | -2,597.92  | -357.51    | 2,596.97                | 0.36                    | 0.07                   | 0.35                  |  |
| 12,844.00                    | 92.41           | 180.49      | 10,495.10             | -2,687.90  | -357.85    | 2,686.95                | 3.17                    | 3.11                   | 0.61                  |  |
| 12,935.00                    | 89.38           | 178.81      | 10,493.68             | -2,778.87  | -357.29    | 2,777.92                | 3.81                    | -3.33                  | -1.85                 |  |
| 13,026.00                    | 89.05           | 178.60      | 10,494.93             | -2,869.84  | -355.24    | 2,868.90                | 0.43                    | -0.36                  | -0.23                 |  |
| 13,117.00                    | 88.77           | 179.19      | 10,496.66             | -2,960.80  | -353.48    | 2,959.87                | 0.72                    | -0.31                  | 0.65                  |  |
| 13,207.00                    | 85.68           | 179.52      | 10,501.02             | -3,050.68  | -352.47    | 3,049.75                | 3.45                    | -3.43                  | 0.37                  |  |
| 13,298.00                    | 88.37           | 179.26      | 10,505.74             | -3,141.54  | -351.50    | 3,140.61                | 2.97                    | 2.96                   | -0.29                 |  |
| 13,389.00                    | 86.25           | 178.57      | 10,510.01             | -3,232.42  | -349.78    | 3,231.50                | 2.45                    | -2.33                  | -0.76                 |  |
| 13,480.00                    | 90.73           | 179.90      | 10,512.41             | -3,323.36  | -348.57    | 3,322.43                | 5.14                    | 4.92                   | 1.46                  |  |
| 13,571.00                    | 93.20           | 181.10      | 10,509.29             | -3,414.29  | -349.36    | 3,413.37                | 3.02                    | 2.71                   | 1.32                  |  |
| 13,662.00                    | 89.44           | 180.69      | 10,507.19             | -3,505.24  | -350.78    | 3,504.31                | 4.16                    | -4.13                  | -0.45                 |  |
| 13,753.00                    | 90.45           | 179.00      | 10,507.28             | -3,596.24  | -350.54    | 3,595.31                | 2.16                    | 1.11                   | -1.86                 |  |
| 13,844.00                    | 89.89           | 178.80      | 10,507.01             | -3,687.22  | -348.79    | 3,686.29                | 0.65                    | -0.62                  | -0.22                 |  |
| 13,935.00                    | 90.45           | 180.52      | 10,506.74             | -3,778.21  | -348.25    | 3,777.29                | 1.99                    | 0.62                   | 1.89                  |  |
| 14,025.00                    | 87.81           | 180.65      | 10,508.10             | -3,868.19  | -349.17    | 3,867.26                | 2.94                    | -2.93                  | 0.14                  |  |
| 14,116.00                    | 87.87           | 181.29      | 10,511.53             | -3,959.11  | -350.71    | 3,958.18                | 0.71                    | 0.07                   | 0.70                  |  |
| 14,207.00                    | 84.90           | 179.41      | 10,517.27             | -4,049.91  | -351.26    | 4,048.98                | 3.86                    | -3.26                  | -2.07                 |  |
| 14,298.00                    | 86.30           | 179.66      | 10,524.25             | -4,140.64  | -350.53    | 4,139.71                | 1.56                    | 1.54                   | 0.27                  |  |
| 14,389.00                    | 91.23           | 181.26      | 10,526.21             | -4,231.58  | -351.26    | 4,230.65                | 5.70                    | 5.42                   | 1.76                  |  |
| 14,480.00                    | 90.90           | 178.98      | 10,524.52             | -4,322.56  | -351.45    | 4,321.63                | 2.53                    | -0.36                  | -2.51                 |  |
| 14,571.00                    | 90.22           | 177.45      | 10,523.63             | -4,413.51  | -348.62    | 4,412.58                | 1.84                    | -0.75                  | -1.68                 |  |
| 14,662.00                    | 90.45           | 177.03      | 10,523.10             | -4,504.40  | -344.23    | 4,503.49                | 0.53                    | 0.25                   | -0.46                 |  |
| 14,752.00                    | 91.96           | 177.21      | 10,521.21             | -4,594.27  | -339.71    | 4,593.36                | 1.69                    | 1.68                   | 0.20                  |  |
| 14,843.00                    | 91.23           | 176.66      | 10,518.67             | -4,685.10  | -334.85    | 4,684.21                | 1.00                    | -0.80                  | -0.60                 |  |
| 14,933.00                    | 89.50           | 174.12      | 10,518.10             | -4,774.80  | -327.62    | 4,773.92                | 3.41                    | -1.92                  | -2.82                 |  |
| 15,024.00                    | 89.89           | 174.15      | 10,518.59             | -4,865.32  | -318.32    | 4,864.47                | 0.43                    | 0.43                   | 0.03                  |  |
| 15,115.00                    | 86.41           | 172.11      | 10,521.52             | -4,955.60  | -307.44    | 4,954.78                | 4.43                    | -3.82                  | -2.24                 |  |
| 15,206.00                    | 86.64           | 173.71      | 10,527.04             | -5,045.74  | -296.23    | 5,044.94                | 1.77                    | 0.25                   | 1.76                  |  |
| 15,297.00                    | 86.63           | 174.35      | 10,532.38             | -5,136.09  | -286.78    | 5,135.32                | 0.70                    | -0.01                  | 0.70                  |  |
| 15,388.00                    | 89.16           | 175.58      | 10,535.72             | -5,226.66  | -278.80    | 5,225.92                | 3.09                    | 2.78                   | 1.35                  |  |
| 15,429.00                    | 89.26           | 176.27      | 10,536.29             | -5,267.56  | -275.89    | 5,266.82                | 1.71                    | 0.24                   | 1.69                  |  |
| <b>Toe 330' HL Crossing</b>  |                 |             |                       |            |            |                         |                         |                        |                       |  |
| 15,478.00                    | 89.38           | 177.10      | 10,536.87             | -5,316.47  | -273.06    | 5,315.74                | 1.71                    | 0.24                   | 1.69                  |  |
| <b>Last MWD Survey Taken</b> |                 |             |                       |            |            |                         |                         |                        |                       |  |
| 15,539.00                    | 89.38           | 177.10      | 10,537.53             | -5,377.39  | -269.97    | 5,376.66                | 0.00                    | 0.00                   | 0.00                  |  |
| <b>Projection</b>            |                 |             |                       |            |            |                         |                         |                        |                       |  |

# LEAM Drilling Systems LLC

## Survey Report

|           |                  |                              |                          |
|-----------|------------------|------------------------------|--------------------------|
| Company:  | Rockcliff Energy | Local Co-ordinate Reference: | Well Toro 23 #431H       |
| Project:  | Eddy County, NM  | TVD Reference:               | RKB @ 3021.00usft        |
| Site:     | Toro Pad         | MD Reference:                | RKB @ 3021.00usft        |
| Well:     | Toro 23 #431H    | North Reference:             | Grid                     |
| Wellbore: | OH               | Survey Calculation Method:   | Minimum Curvature        |
| Design:   | OH               | Database:                    | EDM 5000.1 Multi User Db |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | N-S (usft) | E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Bull Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|------------|------------|-------------------------|-------------------------|-----------------------|-----------------------|
|-----------------------|-----------------|-------------|-----------------------|------------|------------|-------------------------|-------------------------|-----------------------|-----------------------|

| Design Targets | Target Name          | hit/miss target                                                                                              | Dip Angle (°) | Dip Dir. (°) | TVD (usft)            | N-S (usft) | E-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude        |
|----------------|----------------------|--------------------------------------------------------------------------------------------------------------|---------------|--------------|-----------------------|------------|------------|-----------------|----------------|------------------|------------------|
|                | SHL (Toro 23 #431H)  | - actual wellpath hits target center                                                                         | 0.00          | 0.00         | 0.00                  | 0.00       | 0.00       | 472,612.00      | 583,327.00     | 32° 17' 56.540 N | 104° 3' 49.153 W |
|                |                      | - Point                                                                                                      |               |              |                       |            |            |                 |                |                  |                  |
|                | LP (Toro 23 #431H)   |                                                                                                              | 0.00          | 0.00         | 10,494.7 <sub>2</sub> | -659.19    | -369.26    | 471,952.81      | 582,957.74     | 32° 17' 50.026 N | 104° 3' 53.474 W |
|                |                      | - actual wellpath misses target center by 72.25usft at 10816.58usft MD (10477.56 TVD, -662.77 N, -299.17 E)  |               |              |                       |            |            |                 |                |                  |                  |
|                |                      | - Point                                                                                                      |               |              |                       |            |            |                 |                |                  |                  |
|                | PBHL (Toro 23 #431H) |                                                                                                              | 90.15         | 179.85       | 10,507.0 <sub>3</sub> | -5,358.00  | -357.03    | 467,254.00      | 582,969.97     | 32° 17' 3.525 N  | 104° 3' 53.469 W |
|                |                      | - actual wellpath misses target center by 91.13usft at 15514.90usft MD (10537.27 TVD, -5353.32 N, -271.19 E) |               |              |                       |            |            |                 |                |                  |                  |
|                |                      | - Rectangle (sides W30.00 H0.00 D4,698.84)                                                                   |               |              |                       |            |            |                 |                |                  |                  |
|                | BHL (Toro 23 #431H)  |                                                                                                              | 90.15         | 179.85       | 10,537.5 <sub>3</sub> | -5,377.39  | -269.97    | 467,234.61      | 583,057.03     | 32° 17' 3.331 N  | 104° 3' 52.455 W |
|                |                      | - actual wellpath hits target center                                                                         |               |              |                       |            |            |                 |                |                  |                  |
|                |                      | - Rectangle (sides W30.00 H0.00 D4,698.84)                                                                   |               |              |                       |            |            |                 |                |                  |                  |

| Design Annotations | Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | N-S (usft) | E-W (usft) | Comment                 |
|--------------------|-----------------------|-----------------------|-------------------|------------|------------|-------------------------|
|                    | 9,963.00              | 9,949.76              | -153.38           | -334.77    |            | Tie-on Point - 9963' MD |
|                    | 10,486.00             | 10,392.98             | -344.67           | -310.16    |            | Sec Line Crossing       |
|                    | 10,826.40             | 10,479.09             | -672.47           | -299.26    |            | Heel 330' HL Crossing   |
|                    | 15,429.00             | 10,536.29             | -5,267.56         | -275.89    |            | Toe 330' HL Crossing    |
|                    | 15,478.00             | 10,536.87             | -5,316.47         | -273.06    |            | Last MWD Survey Taken   |
|                    | 15,539.00             | 10,537.53             | -5,377.39         | -269.97    |            | Projection              |

|                   |                    |             |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|