



07/07/2012

30-015-39638

To Whom It May Concern:

As a representative of Wellpath Energy Services LLC, I certify that to the best of my knowledge all the survey data contained in the packet for the well listed below is accurate and true.

Lime Rock Resources.  
Well: Anthony State #3.  
Lease: East Artesia

Thank You,

A handwritten signature in black ink, appearing to read 'Adam Jimenez'.

Adam Jimenez  
Senior MWD Engineer.  
Wellpath Energy Services LLC.

☒ APPROVED

# **LIME ROCK RESOURCES**

**EDDY COUNTY, NM (NAD 27)**

**SEC. 30 T17S RGE. 28E**

**ANTHONEY STATE #3**

**JOB # WPE201201D**

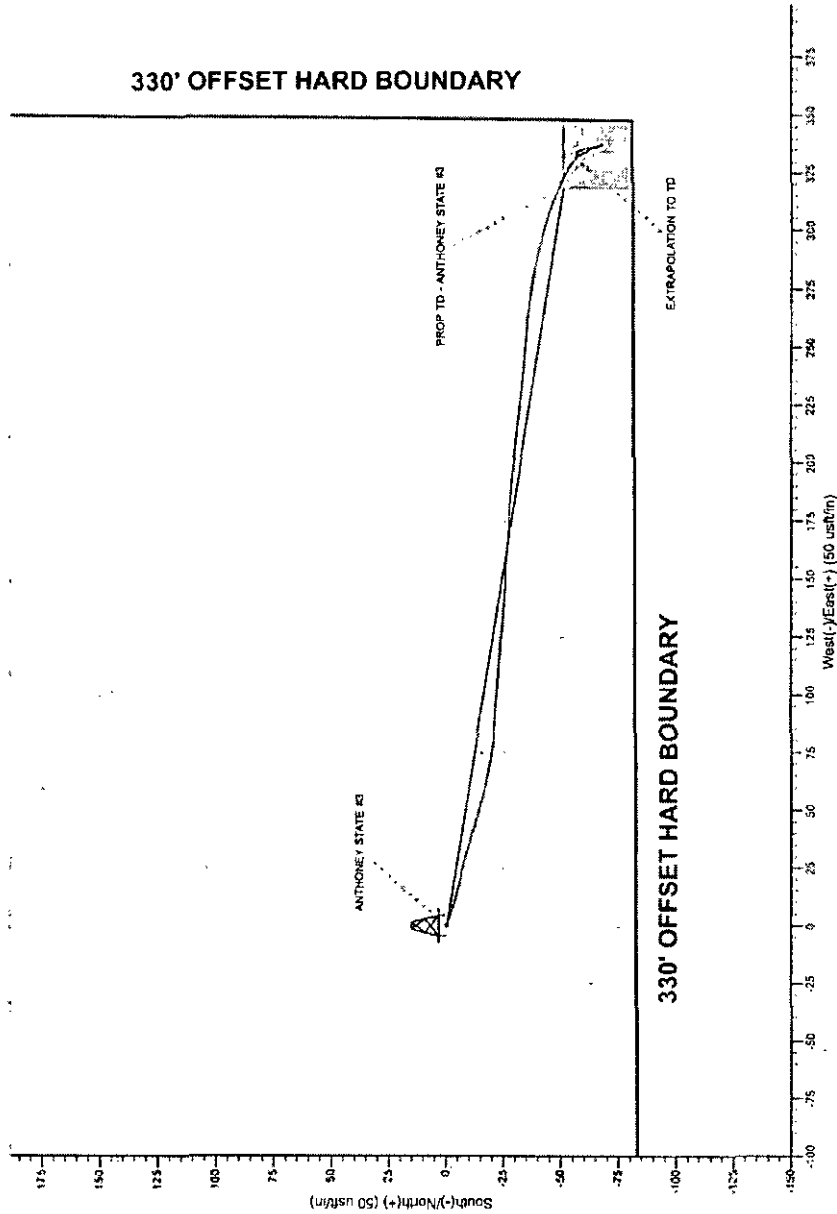
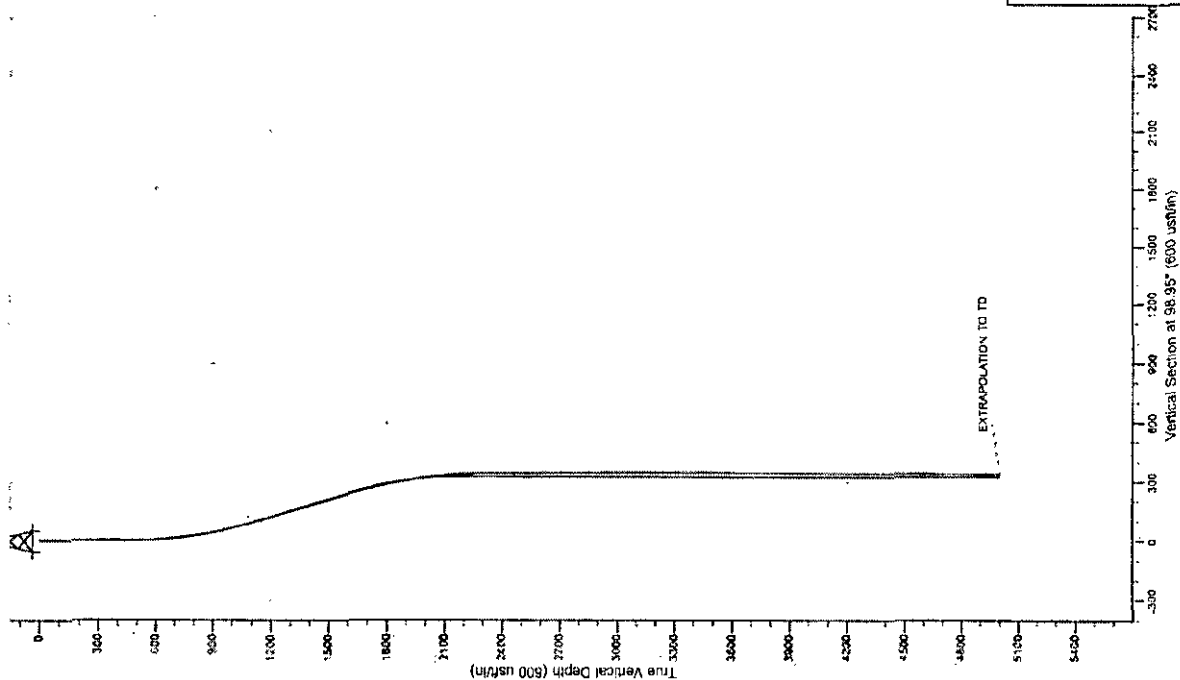
**04 March, 2012**

**Survey: FINAL SURVEYS**





Project: EDDY COUNTY, NM (NAD 27)  
 Site: SEC. 30 T17S RGE. 28E  
 Well: ANTHONY STATE #3  
 Wellbore: JOB # WPE201201D  
 Design: FINAL SURVEYS



| ANNOTATIONS         |        |      |        |       |        |
|---------------------|--------|------|--------|-------|--------|
| TVD                 | MD     | Inc  | Azi    | +E-W  | V Sect |
| 4999.5              | 5039.0 | 0.50 | 324.80 | -55.7 | 332.4  |
|                     |        |      |        |       | 337.0  |
| Annotation          |        |      |        |       |        |
| EXTRAPOLATION TO TD |        |      |        |       |        |

|                        |  |
|------------------------|--|
| Azimuths to True North |  |
| Magnetic North: 7.87°  |  |
| Magnetic Field         |  |
| Strength: 48848.2nT    |  |
| Dip Angle: 60.60°      |  |
| Date: 13/11/2011       |  |
| Model: IGRF2010        |  |

## Survey Report



|           |                          |                              |                                   |
|-----------|--------------------------|------------------------------|-----------------------------------|
| Company:  | LIME ROCK RESOURCES      | Local Co-ordinate Reference: | Well ANTHONY STATE #3             |
| Project:  | EDDY COUNTY, NM (NAD 27) | TVD Reference:               | KB @ 3656.0usft (UNITED DRLG #22) |
| Site:     | SEC. 30 T17S RGE. 28E    | MD Reference:                | KB @ 3656.0usft (UNITED DRLG #22) |
| Well:     | ANTHONEY STATE #3        | North Reference:             | True                              |
| Wellbore: | JOB # WPE201201D         | Survey Calculation Method:   | Minimum Curvature                 |
| Design:   | FINAL SURVEYS            | Database:                    | EDM_5000_1_7                      |

|             |                                      |               |                             |
|-------------|--------------------------------------|---------------|-----------------------------|
| Project:    | EDDY COUNTY, NM (NAD 27)             |               |                             |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level              |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                             |
| Map Zone:   | New Mexico East 3001                 |               | Using geodetic scale factor |

|                       |                       |                   |                 |
|-----------------------|-----------------------|-------------------|-----------------|
| Site:                 | SEC. 30 T17S RGE. 28E |                   |                 |
| Site Position:        |                       | Northing:         | 654,361.60 usft |
| From:                 | Map                   | Easting:          | 538,476.50 usft |
| Position Uncertainty: | 0.0 usft              | Slot Radius:      | 13-3/16"        |
|                       |                       | Grid Convergence: | 0.07 °          |

|                      |                   |                     |           |
|----------------------|-------------------|---------------------|-----------|
| Well:                | ANTHONEY STATE #3 |                     |           |
| Well Position        | +N-S              | 0.0 usft            | Northing: |
|                      | +E-W              | 0.0 usft            | Easting:  |
| Position Uncertainty | 0.0 usft          | Wellhead Elevation: | usft      |

|           |                  |             |                |
|-----------|------------------|-------------|----------------|
| Wellbore: | JOB # WPE201201D |             |                |
| Magnetics | Model Name       | Sample Date | Declination    |
|           | IGRF2010         | 13/11/2011  | 7.87           |
|           |                  |             | Dip Angle      |
|           |                  |             | 60.60          |
|           |                  |             | Field Strength |
|           |                  |             | 48,848         |

|                   |                  |               |           |
|-------------------|------------------|---------------|-----------|
| Design:           | FINAL SURVEYS    |               |           |
| Audit Notes:      |                  |               |           |
| Version:          | 1.0              | Phase:        | ACTUAL    |
|                   |                  | Tie On Depth: | 0.0       |
| Vertical Section: | Depth From (TVD) | +N-S          | +E-W      |
|                   | (usft)           | (usft)        | (usft)    |
|                   | 0.0              | 0.0           | 0.0       |
|                   |                  |               | Direction |
|                   |                  |               | 98.95     |

|                |                 |                                  |                |
|----------------|-----------------|----------------------------------|----------------|
| Survey Program | Date 04/03/2012 |                                  |                |
| From           | To              | Survey (Wellbore)                | Tool Name      |
| (usft)         | (usft)          |                                  |                |
| 474.0          | 5,039.0         | FINAL SURVEYS (JOB # WPE201201D) | MWD            |
|                |                 |                                  | Description    |
|                |                 |                                  | MWD - Standard |

| Survey                |                 |             |                       |                     |             |             |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|---------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 3,656.0             | 0.0         | 0.0         | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 474.0                 | 0.10            | 347.00      | 474.0                 | 3,182.0             | 0.4         | -0.1        | -0.2                    | 0.02                    | 0.02                   | 0.00                  |
| 494.0                 | 0.10            | 119.10      | 494.0                 | 3,162.0             | 0.4         | -0.1        | -0.1                    | 0.91                    | 0.00                   | 660.50                |
| 525.0                 | 0.70            | 119.90      | 525.0                 | 3,131.0             | 0.3         | 0.1         | 0.1                     | 1.94                    | 1.94                   | 2.58                  |
| 557.0                 | 1.80            | 118.70      | 557.0                 | 3,099.0             | 0.0         | 0.7         | 0.7                     | 3.44                    | 3.44                   | -3.75                 |
| 588.0                 | 3.10            | 112.40      | 588.0                 | 3,068.0             | -0.6        | 1.9         | 2.0                     | 4.28                    | 4.19                   | -20.32                |
| 620.0                 | 4.10            | 106.40      | 619.9                 | 3,036.1             | -1.2        | 3.8         | 4.0                     | 3.34                    | 3.12                   | -18.75                |
| 651.0                 | 5.40            | 106.10      | 650.8                 | 3,005.2             | -2.0        | 6.3         | 6.5                     | 4.19                    | 4.19                   | -0.97                 |
| 683.0                 | 6.90            | 105.00      | 682.6                 | 2,973.4             | -2.9        | 9.6         | 9.9                     | 4.70                    | 4.69                   | -3.44                 |
| 714.0                 | 7.80            | 104.10      | 713.4                 | 2,942.6             | -3.9        | 13.4        | 13.9                    | 2.93                    | 2.90                   | -2.90                 |
| 746.0                 | 8.30            | 102.70      | 745.0                 | 2,911.0             | -4.9        | 17.8        | 18.3                    | 1.68                    | 1.56                   | -4.37                 |
| 777.0                 | 8.90            | 103.40      | 775.7                 | 2,880.3             | -6.0        | 22.3        | 23.0                    | 1.96                    | 1.94                   | 2.26                  |
| 809.0                 | 9.50            | 103.80      | 807.3                 | 2,848.7             | -7.2        | 27.3        | 28.1                    | 1.89                    | 1.87                   | 1.25                  |

## Survey Report



|           |                          |                              |                                   |
|-----------|--------------------------|------------------------------|-----------------------------------|
| Company:  | LIME ROCK RESOURCES      | Local Co-ordinate Reference: | Well ANTHONY STATE #3             |
| Project:  | EDDY COUNTY, NM (NAD 27) | TVD Reference:               | KB @ 3656.0usft (UNITED DRLG #22) |
| Site:     | SEC: 30 T17S RGE. 28E    | M/D Reference:               | KB @ 3656.0usft (UNITED DRLG #22) |
| Well:     | ANTHONEY STATE #3        | North Reference:             | True                              |
| Wellbore: | JOB # WPE201201D         | Survey Calculation Method:   | Minimum Curvature                 |
| Design:   | FINAL SURVEYS            | Database:                    | EDM_5000_1_7                      |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N/S (usft) | +E/W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|---------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|
| 840.0                 | 9.70            | 105.60      | 837.8                 | 2,818.2             | -8.5        | 32.3        | 33.2                    | 1.16                    | 0.65                   | 5.81                  |
| 872.0                 | 10.00           | 106.30      | 869.4                 | 2,786.6             | -10.0       | 37.5        | 38.6                    | 1.01                    | 0.94                   | 2.19                  |
| 903.0                 | 10.10           | 106.40      | 899.9                 | 2,756.1             | -11.5       | 42.7        | 44.0                    | 0.33                    | 0.32                   | 0.32                  |
| 935.0                 | 10.80           | 107.00      | 931.4                 | 2,724.6             | -13.2       | 48.3        | 49.7                    | 2.21                    | 2.19                   | 1.87                  |
| 966.0                 | 11.60           | 103.90      | 961.8                 | 2,694.2             | -14.8       | 54.1        | 55.7                    | 3.23                    | 2.58                   | -10.00                |
| 998.0                 | 12.50           | 103.10      | 993.1                 | 2,662.9             | -16.3       | 60.6        | 62.4                    | 2.86                    | 2.81                   | -2.50                 |
| 1,029.0               | 12.90           | 101.10      | 1,023.3               | 2,632.7             | -17.7       | 67.2        | 69.2                    | 1.92                    | 1.29                   | -6.45                 |
| 1,060.0               | 13.80           | 98.80       | 1,053.5               | 2,602.5             | -19.0       | 74.3        | 76.3                    | 3.37                    | 2.90                   | -7.42                 |
| 1,092.0               | 14.40           | 95.60       | 1,084.5               | 2,571.5             | -20.0       | 82.0        | 84.1                    | 3.07                    | 1.87                   | -10.00                |
| 1,123.0               | 15.30           | 94.10       | 1,114.5               | 2,541.5             | -20.6       | 89.9        | 92.1                    | 3.16                    | 2.90                   | -4.84                 |
| 1,155.0               | 16.00           | 93.60       | 1,145.3               | 2,510.7             | -21.2       | 98.6        | 100.7                   | 2.23                    | 2.19                   | -1.56                 |
| 1,186.0               | 15.50           | 94.30       | 1,175.1               | 2,480.9             | -21.8       | 107.0       | 109.0                   | 1.73                    | -1.61                  | 2.26                  |
| 1,218.0               | 15.40           | 94.30       | 1,206.0               | 2,450.0             | -22.4       | 115.5       | 117.5                   | 0.31                    | -0.31                  | 0.00                  |
| 1,249.0               | 15.60           | 95.50       | 1,235.8               | 2,420.2             | -23.1       | 123.7       | 125.8                   | 1.22                    | 0.65                   | 3.87                  |
| 1,281.0               | 16.30           | 94.00       | 1,266.6               | 2,389.4             | -23.9       | 132.5       | 134.6                   | 2.54                    | 2.19                   | -4.69                 |
| 1,312.0               | 16.70           | 93.50       | 1,296.3               | 2,359.7             | -24.4       | 141.3       | 143.3                   | 1.37                    | 1.29                   | -1.61                 |
| 1,343.0               | 16.10           | 93.30       | 1,326.1               | 2,329.9             | -24.9       | 150.0       | 152.0                   | 1.94                    | -1.94                  | -0.65                 |
| 1,375.0               | 15.80           | 92.70       | 1,356.8               | 2,299.2             | -25.4       | 158.8       | 160.8                   | 1.07                    | -0.94                  | -1.87                 |
| 1,406.0               | 15.50           | 93.60       | 1,386.7               | 2,269.3             | -25.9       | 167.1       | 169.1                   | 1.24                    | -0.97                  | 2.90                  |
| 1,438.0               | 15.60           | 92.80       | 1,417.5               | 2,238.5             | -26.3       | 175.7       | 177.6                   | 0.74                    | 0.31                   | -2.50                 |
| 1,469.0               | 15.50           | 93.60       | 1,447.4               | 2,208.6             | -26.8       | 184.0       | 185.9                   | 0.76                    | -0.32                  | 2.58                  |
| 1,501.0               | 15.60           | 96.00       | 1,478.2               | 2,177.8             | -27.5       | 192.5       | 194.5                   | 2.03                    | 0.31                   | 7.50                  |
| 1,532.0               | 15.70           | 96.70       | 1,508.1               | 2,147.9             | -28.5       | 200.8       | 202.8                   | 0.69                    | 0.32                   | 2.26                  |
| 1,564.0               | 15.50           | 96.20       | 1,538.9               | 2,117.1             | -29.4       | 209.4       | 211.4                   | 0.75                    | -0.62                  | -1.56                 |
| 1,595.0               | 16.30           | 97.20       | 1,568.7               | 2,087.3             | -30.4       | 217.8       | 219.9                   | 2.73                    | 2.58                   | 3.23                  |
| 1,627.0               | 16.40           | 96.00       | 1,599.4               | 2,056.6             | -31.4       | 226.8       | 228.9                   | 1.10                    | 0.31                   | -3.75                 |
| 1,658.0               | 16.00           | 95.50       | 1,629.2               | 2,026.8             | -32.3       | 235.4       | 237.5                   | 1.37                    | -1.29                  | -1.61                 |
| 1,690.0               | 15.80           | 94.80       | 1,659.9               | 1,996.1             | -33.1       | 244.1       | 246.3                   | 0.87                    | -0.62                  | -2.19                 |
| 1,721.0               | 15.80           | 95.20       | 1,689.8               | 1,966.2             | -33.8       | 252.5       | 254.7                   | 0.35                    | 0.00                   | 1.29                  |
| 1,753.0               | 14.70           | 94.40       | 1,720.6               | 1,935.4             | -34.5       | 260.9       | 263.1                   | 3.50                    | -3.44                  | -2.50                 |
| 1,784.0               | 14.00           | 96.90       | 1,750.7               | 1,905.3             | -35.3       | 268.6       | 270.8                   | 3.02                    | -2.26                  | 8.06                  |
| 1,816.0               | 13.30           | 97.90       | 1,781.8               | 1,874.2             | -36.3       | 276.0       | 278.3                   | 2.31                    | -2.19                  | 3.12                  |
| 1,847.0               | 12.30           | 101.10      | 1,812.0               | 1,844.0             | -37.4       | 282.8       | 285.2                   | 3.95                    | -3.23                  | 10.32                 |
| 1,879.0               | 11.30           | 103.80      | 1,843.3               | 1,812.7             | -38.8       | 289.2       | 291.7                   | 3.57                    | -3.12                  | 8.44                  |
| 1,910.0               | 11.10           | 104.50      | 1,873.7               | 1,782.3             | -40.3       | 295.0       | 297.7                   | 0.78                    | -0.65                  | 2.26                  |
| 1,942.0               | 10.90           | 104.30      | 1,905.2               | 1,750.8             | -41.8       | 301.0       | 303.8                   | 0.64                    | -0.62                  | -0.62                 |
| 1,973.0               | 10.40           | 107.10      | 1,935.6               | 1,720.4             | -43.3       | 306.5       | 309.5                   | 2.32                    | -1.61                  | 9.03                  |
| 2,005.0               | 9.50            | 110.70      | 1,967.1               | 1,688.9             | -45.1       | 311.7       | 314.9                   | 3.42                    | -2.81                  | 11.25                 |
| 2,036.0               | 8.80            | 112.20      | 1,997.7               | 1,658.3             | -46.9       | 316.3       | 319.7                   | 2.39                    | -2.26                  | 4.84                  |
| 2,068.0               | 8.00            | 116.10      | 2,029.4               | 1,626.6             | -48.8       | 320.6       | 324.2                   | 3.07                    | -2.50                  | 12.19                 |
| 2,099.0               | 6.80            | 117.90      | 2,060.1               | 1,595.9             | -50.6       | 324.1       | 328.0                   | 3.94                    | -3.87                  | 5.81                  |
| 2,131.0               | 5.50            | 121.30      | 2,092.0               | 1,564.0             | -52.3       | 327.1       | 331.3                   | 4.22                    | -4.06                  | 10.62                 |
| 2,162.0               | 4.00            | 123.90      | 2,122.8               | 1,533.2             | -53.7       | 329.3       | 333.6                   | 4.89                    | -4.84                  | 8.39                  |
| 2,194.0               | 3.20            | 129.20      | 2,154.8               | 1,501.2             | -54.9       | 330.9       | 335.4                   | 2.71                    | -2.50                  | 16.56                 |
| 2,225.0               | 2.50            | 129.90      | 2,185.7               | 1,470.3             | -55.9       | 332.1       | 336.7                   | 2.26                    | -2.26                  | 2.26                  |
| 2,255.0               | 1.60            | 142.10      | 2,215.7               | 1,440.3             | -56.6       | 332.8       | 337.6                   | 3.32                    | -3.00                  | 40.67                 |
| 2,287.0               | 1.50            | 149.10      | 2,247.7               | 1,408.3             | -57.3       | 333.3       | 338.2                   | 0.67                    | -0.31                  | 21.87                 |
| 2,350.0               | 1.70            | 155.30      | 2,310.7               | 1,345.3             | -58.9       | 334.1       | 339.2                   | 0.42                    | 0.32                   | 9.84                  |
| 2,412.0               | 0.40            | 165.40      | 2,372.7               | 1,283.3             | -59.9       | 334.6       | 339.8                   | 2.11                    | -2.10                  | 16.29                 |
| 2,475.0               | 0.50            | 131.30      | 2,435.7               | 1,220.3             | -60.3       | 334.8       | 340.1                   | 0.45                    | 0.16                   | -54.13                |
| 2,538.0               | 0.50            | 130.10      | 2,498.7               | 1,157.3             | -60.7       | 335.3       | 340.6                   | 0.02                    | 0.00                   | -1.90                 |
| 2,601.0               | 0.60            | 140.30      | 2,561.7               | 1,094.3             | -61.1       | 335.7       | 341.1                   | 0.22                    | 0.16                   | 16.19                 |
| 2,664.0               | 0.60            | 170.20      | 2,624.7               | 1,031.3             | -61.7       | 335.9       | 341.4                   | 0.49                    | 0.00                   | 47.46                 |

## Survey Report



|                  |                          |                                     |                                   |
|------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | LIME ROCK RESOURCES      | <b>Local Co-ordinate Reference:</b> | Well ANTHONY STATE #3             |
| <b>Project:</b>  | EDDY COUNTY, NM (NAD 27) | <b>TVD Reference:</b>               | KB @ 3656.0usft (UNITED DRLG #22) |
| <b>Site:</b>     | SEC. 30 T17S RGE. 28E    | <b>MDI Reference:</b>               | KB @ 3656.0usft (UNITED DRLG #22) |
| <b>Well:</b>     | ANTHONEY STATE #3        | <b>North Reference:</b>             | True                              |
| <b>Wellbore:</b> | JOB # WPE201201D         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | FINAL SURVEYS            | <b>Database:</b>                    | EDM_5000_1_7                      |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|---------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|
| 2,727.0               | 0.50            | 163.40      | 2,687.7               | 968.3               | -62.3       | 336.1       | 341.7                   | 0.19                    | -0.16                  | -10.79                |
| 2,790.0               | 0.60            | 148.40      | 2,750.7               | 905.3               | -62.8       | 336.3       | 342.0                   | 0.28                    | 0.16                   | -23.81                |
| 2,853.0               | 0.70            | 145.40      | 2,813.7               | 842.3               | -63.4       | 336.7       | 342.5                   | 0.17                    | 0.16                   | -4.76                 |
| 2,916.0               | 0.70            | 161.60      | 2,876.7               | 779.3               | -64.1       | 337.1       | 342.9                   | 0.31                    | 0.00                   | 25.71                 |
| 2,979.0               | 0.70            | 172.40      | 2,939.6               | 716.4               | -64.8       | 337.2       | 343.2                   | 0.21                    | 0.00                   | 17.14                 |
| 3,072.0               | 0.40            | 145.60      | 3,032.6               | 623.4               | -65.7       | 337.5       | 343.6                   | 0.42                    | -0.32                  | -28.82                |
| 3,166.0               | 0.50            | 162.80      | 3,126.6               | 529.4               | -66.3       | 337.8       | 344.0                   | 0.18                    | 0.11                   | 18.30                 |
| 3,261.0               | 0.40            | 165.00      | 3,221.6               | 434.4               | -67.0       | 338.0       | 344.3                   | 0.11                    | -0.11                  | 2.32                  |
| 3,355.0               | 0.60            | 180.80      | 3,315.6               | 340.4               | -67.9       | 338.1       | 344.5                   | 0.26                    | 0.21                   | 16.81                 |
| 3,450.0               | 0.70            | 337.10      | 3,410.6               | 245.4               | -67.8       | 337.8       | 344.3                   | 1.34                    | 0.11                   | 164.53                |
| 3,544.0               | 0.80            | 333.20      | 3,504.6               | 151.4               | -66.7       | 337.3       | 343.6                   | 0.12                    | 0.11                   | -4.15                 |
| 3,638.0               | 0.80            | 343.50      | 3,598.6               | 57.4                | -65.5       | 336.8       | 342.9                   | 0.15                    | 0.00                   | 10.96                 |
| 3,731.0               | 0.60            | 359.70      | 3,691.6               | -35.6               | -64.4       | 336.7       | 342.6                   | 0.30                    | -0.22                  | 17.42                 |
| 3,826.0               | 0.70            | 349.20      | 3,786.6               | -130.6              | -63.3       | 336.5       | 342.3                   | 0.16                    | 0.11                   | -11.05                |
| 3,920.0               | 0.70            | 357.40      | 3,880.6               | -224.6              | -62.2       | 336.4       | 342.0                   | 0.11                    | 0.00                   | 8.72                  |
| 4,015.0               | 0.80            | 354.40      | 3,975.6               | -319.6              | -60.9       | 336.3       | 341.7                   | 0.11                    | 0.11                   | -3.16                 |
| 4,109.0               | 0.60            | 353.90      | 4,069.6               | -413.6              | -59.8       | 336.2       | 341.4                   | 0.21                    | -0.21                  | -0.53                 |
| 4,203.0               | 0.80            | 329.40      | 4,163.6               | -507.6              | -58.7       | 335.8       | 340.9                   | 0.38                    | 0.21                   | -26.06                |
| 4,297.0               | 0.60            | 332.20      | 4,257.6               | -601.6              | -57.7       | 335.3       | 340.2                   | 0.22                    | -0.21                  | 2.98                  |
| 4,392.0               | 0.60            | 358.50      | 4,352.6               | -696.6              | -56.8       | 335.0       | 339.8                   | 0.29                    | 0.00                   | 27.68                 |
| 4,486.0               | 0.60            | 339.90      | 4,446.6               | -790.6              | -55.8       | 334.8       | 339.4                   | 0.21                    | 0.00                   | -19.79                |
| 4,581.0               | 0.50            | 217.40      | 4,541.6               | -885.6              | -55.7       | 334.4       | 339.0                   | 1.02                    | -0.11                  | -128.95               |
| 4,675.0               | 0.40            | 216.40      | 4,635.6               | -979.6              | -56.3       | 334.0       | 338.7                   | 0.11                    | -0.11                  | -1.06                 |
| 4,769.0               | 0.20            | 247.20      | 4,729.5               | -1,073.5            | -56.6       | 333.6       | 338.4                   | 0.27                    | -0.21                  | 32.77                 |
| 4,864.0               | 0.40            | 277.20      | 4,824.5               | -1,168.5            | -56.6       | 333.1       | 337.9                   | 0.26                    | 0.21                   | 31.58                 |
| 4,958.0               | 0.40            | 347.30      | 4,918.5               | -1,262.5            | -56.3       | 332.7       | 337.4                   | 0.49                    | 0.00                   | 74.57                 |
| 5,000.0               | 0.50            | 324.80      | 4,960.5               | -1,304.5            | -56.0       | 332.6       | 337.3                   | 0.48                    | 0.24                   | -53.57                |
| EXTRAPOLATION TO TD   |                 |             |                       |                     |             |             |                         |                         |                        |                       |
| 5,039.0               | 0.50            | 324.80      | 4,999.5               | -1,343.5            | -55.7       | 332.4       | 337.0                   | 0.00                    | 0.00                   | 0.00                  |

| Target Name                                                                               | - hit/miss target | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N-S (usft) | +E-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |
|-------------------------------------------------------------------------------------------|-------------------|---------------|--------------|------------|-------------|-------------|-----------------|----------------|------------------|-------------------|
| PROP TD - ANTHONI                                                                         |                   | 0.00          | 0.00         | 4,999.5    | -50.2       | 318.7       | 654,311.80      | 538,795.20     | 32° 47' 55.425 N | 104° 12' 25.483 W |
| - survey misses target center by 14.8usft at 5039.0usft MD (4999.5 TVD, -55.7 N, 332.4 E) |                   |               |              |            |             |             |                 |                |                  |                   |
| - Rectangle (sides W-30.0 H30.0 D0.0)                                                     |                   |               |              |            |             |             |                 |                |                  |                   |

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | +N-S (usft) | +E-W (usft) | Comment             |
|-----------------------|-----------------------|-------------------|-------------|-------------|---------------------|
| 5,039.0               | 4,999.5               | -55.7             | 332.4       | 337.0       | EXTRAPOLATION TO TD |

Checked By:

Approved By:

Date:

2-7-12