

# Matador Resources

Eddy County, New Mexico (NAD27)

Tom Walters 12-23S-27E RB

203H

Wellbore #1

Plan: Plan #1 12-17-14

## Standard Planning Report

17 December, 2014

Oil Conservation Division

Case No.

Exhibit No.

13 15245

# Planning Report

|           |                                 |                              |                                           |
|-----------|---------------------------------|------------------------------|-------------------------------------------|
| Database: | Compass 5000 GCR                | Local Co-ordinate Reference: | Well 203H                                 |
| Company:  | Matador Resources               | TVD Reference:               | GL3085+KB25 @ 3110.00usft (Patterson 203) |
| Project:  | Eddy County, New Mexico (NAD27) | MD Reference:                | GL3085+KB25 @ 3110.00usft (Patterson 203) |
| Site:     | Tom Walters 12-23S-27E RB       | North Reference:             | Grid                                      |
| Well:     | 203H                            | Survey Calculation Method:   | Minimum Curvature                         |
| Wellbore: | Wellbore #1                     |                              |                                           |
| Design:   | Plan #1 12-17-14                |                              |                                           |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | Eddy County, New Mexico (NAD27)      |               |                |
| 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                 |               |                |

|                       |                           |                   |                   |
|-----------------------|---------------------------|-------------------|-------------------|
| Site                  | Tom Walters 12-23S-27E RB |                   |                   |
| Site Position:        |                           | Northing:         | 479,715.00 usft   |
| From:                 | Map                       | Easting:          | 556,336.00 usft   |
| Position Uncertainty: | 0.00 usft                 | Slot Radius:      | 13-3/16 "         |
|                       |                           | Latitude:         | 32° 19' 7.39553 N |
|                       |                           | Longitude:        | 104° 9' 3.48367 W |
|                       |                           | Grid Convergence: | 0.10 °            |

|                      |           |                     |                           |
|----------------------|-----------|---------------------|---------------------------|
| Well                 | 203H      |                     |                           |
| Well Position        | +N/-S     | 0.00 usft           | Northing: 479,715.00 usft |
|                      | +E/-W     | 0.00 usft           | Easting: 556,336.00 usft  |
| Position Uncertainty | 0.00 usft | Wellhead Elevation: | 0.00 usft                 |
|                      |           | Latitude:           | 32° 19' 7.39553 N         |
|                      |           | Longitude:          | 104° 9' 3.48367 W         |
|                      |           | Ground Level:       | 3,085.00 usft             |

|           |             |             |                |
|-----------|-------------|-------------|----------------|
| Wellbore  | Wellbore #1 |             |                |
| Magnetics | Model Name  | Sample Date | Declination    |
|           | BGGM2014    | 12/17/2014  | 7.60           |
|           |             |             | Dip Angle      |
|           |             |             | 60.08          |
|           |             |             | Field Strength |
|           |             |             | 48,209         |

|                   |                  |        |                    |
|-------------------|------------------|--------|--------------------|
| Design            | Plan #1 12-17-14 |        |                    |
| Audit Notes:      |                  |        |                    |
| Version:          | Phase:           | PLAN   | Tie On Depth: 0.00 |
| Vertical Section: | Depth From (TVD) | +N/-S  | +E/-W              |
|                   | (usft)           | (usft) | (usft)             |
|                   | 0.00             | 0.00   | 0.00               |
|                   |                  |        | Direction          |
|                   |                  |        | (°)                |
|                   |                  |        | 89.81              |

| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |          |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|----------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target   |
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |          |
| 6,739.00              | 0.00            | 0.00        | 6,739.00              | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |          |
| 7,405.72              | 10.00           | 269.81      | 7,402.34              | -0.19        | -58.04       | 1.50                    | 1.50                   | 0.00                  | 269.81  |          |
| 7,887.36              | 10.00           | 269.81      | 7,876.66              | -0.47        | -141.68      | 0.00                    | 0.00                   | 0.00                  | 0.00    |          |
| 8,554.08              | 0.00            | 0.00        | 8,540.00              | -0.66        | -199.72      | 1.50                    | -1.50                  | 0.00                  | 180.00  | Vt 203H  |
| 8,754.08              | 0.00            | 0.00        | 8,740.00              | -0.66        | -199.72      | 0.00                    | 0.00                   | 0.00                  | 0.00    |          |
| 9,454.08              | 70.00           | 89.81       | 9,278.40              | 0.59         | 177.27       | 10.00                   | 10.00                  | 0.00                  | 89.81   | BHL 203H |
| 9,504.08              | 70.00           | 89.81       | 9,295.51              | 0.74         | 224.26       | 0.00                    | 0.00                   | 0.00                  | 0.00    |          |
| 9,857.38              | 91.20           | 89.81       | 9,352.89              | 1.89         | 570.82       | 6.00                    | 6.00                   | 0.00                  | 0.00    |          |
| 14,258.61             | 91.20           | 89.81       | 9,260.87              | 16.43        | 4,971.07     | 0.00                    | 0.00                   | 0.00                  | 0.00    | BHL 203H |

# Planning Report

|           |                                 |                              |                                           |
|-----------|---------------------------------|------------------------------|-------------------------------------------|
| Database: | Compass 5000 GCR                | Local Co-ordinate Reference: | Well 203H                                 |
| Company:  | Matador Resources               | TVD Reference:               | GL3085+KB25 @ 3110.00usft (Patterson 203) |
| Project:  | Eddy County, New Mexico (NAD27) | MD Reference:                | GL3085+KB25 @ 3110.00usft (Patterson 203) |
| Site:     | Tom Walters 12-23S-27E RB       | North Reference:             | Grid                                      |
| Well:     | 203H                            | Survey Calculation Method:   | Minimum Curvature                         |
| Wellbore: | Wellbore #1                     |                              |                                           |
| Design:   | Plan #1 12-17-14                |                              |                                           |

## Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 100.00                | 0.00            | 0.00        | 100.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 200.00                | 0.00            | 0.00        | 200.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 300.00                | 0.00            | 0.00        | 300.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 400.00                | 0.00            | 0.00        | 400.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 500.00                | 0.00            | 0.00        | 500.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 600.00                | 0.00            | 0.00        | 600.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 13 3/8"               |                 |             |                       |              |              |                         |                         |                        |                       |
| 700.00                | 0.00            | 0.00        | 700.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 800.00                | 0.00            | 0.00        | 800.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 900.00                | 0.00            | 0.00        | 900.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,000.00              | 0.00            | 0.00        | 1,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,100.00              | 0.00            | 0.00        | 1,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,200.00              | 0.00            | 0.00        | 1,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,300.00              | 0.00            | 0.00        | 1,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,400.00              | 0.00            | 0.00        | 1,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,500.00              | 0.00            | 0.00        | 1,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,600.00              | 0.00            | 0.00        | 1,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,700.00              | 0.00            | 0.00        | 1,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,800.00              | 0.00            | 0.00        | 1,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,900.00              | 0.00            | 0.00        | 1,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,000.00              | 0.00            | 0.00        | 2,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,100.00              | 0.00            | 0.00        | 2,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,200.00              | 0.00            | 0.00        | 2,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00              | 0.00            | 0.00        | 2,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,400.00              | 0.00            | 0.00        | 2,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00              | 0.00            | 0.00        | 2,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9 5/8"                |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,600.00              | 0.00            | 0.00        | 2,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,700.00              | 0.00            | 0.00        | 2,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,800.00              | 0.00            | 0.00        | 2,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,900.00              | 0.00            | 0.00        | 2,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00              | 0.00            | 0.00        | 3,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,100.00              | 0.00            | 0.00        | 3,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,200.00              | 0.00            | 0.00        | 3,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,300.00              | 0.00            | 0.00        | 3,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00              | 0.00            | 0.00        | 3,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00              | 0.00            | 0.00        | 3,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,600.00              | 0.00            | 0.00        | 3,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00              | 0.00            | 0.00        | 3,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,800.00              | 0.00            | 0.00        | 3,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00              | 0.00            | 0.00        | 3,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00              | 0.00            | 0.00        | 4,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,100.00              | 0.00            | 0.00        | 4,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,200.00              | 0.00            | 0.00        | 4,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,300.00              | 0.00            | 0.00        | 4,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,400.00              | 0.00            | 0.00        | 4,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00              | 0.00            | 0.00        | 4,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,600.00              | 0.00            | 0.00        | 4,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,700.00              | 0.00            | 0.00        | 4,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,800.00              | 0.00            | 0.00        | 4,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,900.00              | 0.00            | 0.00        | 4,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

|           |                                 |                              |                                           |
|-----------|---------------------------------|------------------------------|-------------------------------------------|
| Database: | Compass 5000 GCR                | Local Co-ordinate Reference: | Well 203H                                 |
| Company:  | Matador Resources               | TVD Reference:               | GL3085+KB25 @ 3110.00usft (Patterson 203) |
| Project:  | Eddy County, New Mexico (NAD27) | MD Reference:                | GL3085+KB25 @ 3110.00usft (Patterson 203) |
| Site:     | Tom Walters 12-23S-27E RB       | North Reference:             | Grid                                      |
| Well:     | 203H                            | Survey Calculation Method:   | Minimum Curvature                         |
| Wellbore: | Wellbore #1                     |                              |                                           |
| Design:   | Plan #1 12-17-14                |                              |                                           |

## Planned Survey

| Measured Depth (usft)             | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 5,000.00                          | 0.00            | 0.00        | 5,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00                          | 0.00            | 0.00        | 5,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,200.00                          | 0.00            | 0.00        | 5,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,300.00                          | 0.00            | 0.00        | 5,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,400.00                          | 0.00            | 0.00        | 5,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,500.00                          | 0.00            | 0.00        | 5,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,600.00                          | 0.00            | 0.00        | 5,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,700.00                          | 0.00            | 0.00        | 5,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,800.00                          | 0.00            | 0.00        | 5,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,900.00                          | 0.00            | 0.00        | 5,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,000.00                          | 0.00            | 0.00        | 6,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,100.00                          | 0.00            | 0.00        | 6,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,200.00                          | 0.00            | 0.00        | 6,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,300.00                          | 0.00            | 0.00        | 6,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,400.00                          | 0.00            | 0.00        | 6,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00                          | 0.00            | 0.00        | 6,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00                          | 0.00            | 0.00        | 6,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,700.00                          | 0.00            | 0.00        | 6,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,739.00                          | 0.00            | 0.00        | 6,739.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Build: 1.5°/100</b>            |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,800.00                          | 0.92            | 269.81      | 6,800.00              | 0.00         | -0.49        | -0.49                   | 1.50                    | 1.50                   | 0.00                  |
| 6,900.00                          | 2.42            | 269.81      | 6,899.95              | -0.01        | -3.39        | -3.39                   | 1.50                    | 1.50                   | 0.00                  |
| 7,000.00                          | 3.92            | 269.81      | 6,999.80              | -0.03        | -8.91        | -8.91                   | 1.50                    | 1.50                   | 0.00                  |
| 7,100.00                          | 5.42            | 269.81      | 7,099.46              | -0.06        | -17.05       | -17.05                  | 1.50                    | 1.50                   | 0.00                  |
| 7,200.00                          | 6.92            | 269.81      | 7,198.88              | -0.09        | -27.79       | -27.79                  | 1.50                    | 1.50                   | 0.00                  |
| 7,300.00                          | 8.42            | 269.81      | 7,297.99              | -0.14        | -41.12       | -41.12                  | 1.50                    | 1.50                   | 0.00                  |
| 7,405.72                          | 10.00           | 269.81      | 7,402.34              | -0.19        | -58.04       | -58.04                  | 1.50                    | 1.50                   | 0.00                  |
| <b>Hold: 10° Inc, 269.81° Azm</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,500.00                          | 10.00           | 269.81      | 7,495.19              | -0.25        | -74.41       | -74.41                  | 0.00                    | 0.00                   | 0.00                  |
| 7,600.00                          | 10.00           | 269.81      | 7,593.67              | -0.30        | -91.78       | -91.78                  | 0.00                    | 0.00                   | 0.00                  |
| 7,700.00                          | 10.00           | 269.81      | 7,692.15              | -0.36        | -109.14      | -109.14                 | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00                          | 10.00           | 269.81      | 7,790.63              | -0.42        | -126.51      | -126.51                 | 0.00                    | 0.00                   | 0.00                  |
| 7,887.36                          | 10.00           | 269.81      | 7,876.66              | -0.47        | -141.68      | -141.68                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Drop: 1.5°/100</b>             |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,900.00                          | 9.81            | 269.81      | 7,889.11              | -0.48        | -143.86      | -143.86                 | 1.50                    | -1.50                  | 0.00                  |
| 8,000.00                          | 8.31            | 269.81      | 7,987.86              | -0.53        | -159.60      | -159.60                 | 1.50                    | -1.50                  | 0.00                  |
| 8,100.00                          | 6.81            | 269.81      | 8,086.99              | -0.57        | -172.76      | -172.76                 | 1.50                    | -1.50                  | 0.00                  |
| 8,200.00                          | 5.31            | 269.81      | 8,186.43              | -0.61        | -183.32      | -183.32                 | 1.50                    | -1.50                  | 0.00                  |
| 8,300.00                          | 3.81            | 269.81      | 8,286.11              | -0.63        | -191.27      | -191.27                 | 1.50                    | -1.50                  | 0.00                  |
| 8,400.00                          | 2.31            | 269.81      | 8,385.96              | -0.65        | -196.61      | -196.61                 | 1.50                    | -1.50                  | 0.00                  |
| 8,500.00                          | 0.81            | 269.81      | 8,485.92              | -0.66        | -199.34      | -199.34                 | 1.50                    | -1.50                  | 0.00                  |
| 8,554.08                          | 0.00            | 0.00        | 8,540.00              | -0.66        | -199.72      | -199.72                 | 1.50                    | -1.50                  | 0.00                  |
| <b>Hold Vertical - Vt 203H</b>    |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,600.00                          | 0.00            | 0.00        | 8,585.92              | -0.66        | -199.72      | -199.72                 | 0.00                    | 0.00                   | 0.00                  |
| 8,700.00                          | 0.00            | 0.00        | 8,685.92              | -0.66        | -199.72      | -199.72                 | 0.00                    | 0.00                   | 0.00                  |
| 8,754.08                          | 0.00            | 0.00        | 8,740.00              | -0.66        | -199.72      | -199.72                 | 0.00                    | 0.00                   | 0.00                  |
| <b>KOP: Build 10°/100</b>         |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,800.00                          | 4.59            | 89.81       | 8,785.87              | -0.65        | -197.88      | -197.88                 | 10.00                   | 10.00                  | 0.00                  |
| 8,850.00                          | 9.59            | 89.81       | 8,835.47              | -0.63        | -191.71      | -191.71                 | 10.00                   | 10.00                  | 0.00                  |
| 8,900.00                          | 14.59           | 89.81       | 8,884.35              | -0.60        | -181.24      | -181.24                 | 10.00                   | 10.00                  | 0.00                  |
| 8,950.00                          | 19.59           | 89.81       | 8,932.13              | -0.55        | -166.55      | -166.55                 | 10.00                   | 10.00                  | 0.00                  |

# Planning Report

|           |                                 |                              |                                           |
|-----------|---------------------------------|------------------------------|-------------------------------------------|
| Database: | Compass 5000 GCR                | Local Co-ordinate Reference: | Well 203H                                 |
| Company:  | Matador Resources               | TVD Reference:               | GL3085+KB25 @ 3110.00usft (Patterson 203) |
| Project:  | Eddy County, New Mexico (NAD27) | MD Reference:                | GL3085+KB25 @ 3110.00usft (Patterson 203) |
| Site:     | Tom Walters 12-23S-27E RB       | North Reference:             | Grid                                      |
| Well:     | 203H                            | Survey Calculation Method:   | Minimum Curvature                         |
| Wellbore: | Wellbore #1                     |                              |                                           |
| Design:   | Plan #1 12-17-14                |                              |                                           |

## Planned Survey

| Measured Depth (usft)                 | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 9,000.00                              | 24.59           | 89.81       | 8,978.44              | -0.49        | -147.75      | -147.75                 | 10.00                   | 10.00                  | 0.00                  |
| 9,050.00                              | 29.59           | 89.81       | 9,022.94              | -0.41        | -124.99      | -124.99                 | 10.00                   | 10.00                  | 0.00                  |
| 9,100.00                              | 34.59           | 89.81       | 9,065.29              | -0.33        | -98.43       | -98.43                  | 10.00                   | 10.00                  | 0.00                  |
| 9,150.00                              | 39.59           | 89.81       | 9,105.16              | -0.23        | -68.28       | -68.29                  | 10.00                   | 10.00                  | 0.00                  |
| 9,200.00                              | 44.59           | 89.81       | 9,142.25              | -0.11        | -34.78       | -34.78                  | 10.00                   | 10.00                  | 0.00                  |
| 9,250.00                              | 49.59           | 89.81       | 9,176.28              | 0.01         | 1.83         | 1.83                    | 10.00                   | 10.00                  | 0.00                  |
| 9,300.00                              | 54.59           | 89.81       | 9,206.99              | 0.14         | 41.27        | 41.27                   | 10.00                   | 10.00                  | 0.00                  |
| 9,350.00                              | 59.59           | 89.81       | 9,234.14              | 0.28         | 83.23        | 83.23                   | 10.00                   | 10.00                  | 0.00                  |
| 9,400.00                              | 64.59           | 89.81       | 9,257.54              | 0.42         | 127.40       | 127.40                  | 10.00                   | 10.00                  | 0.00                  |
| <b>FPP 203H</b>                       |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,454.08                              | 70.00           | 89.81       | 9,278.40              | 0.59         | 177.27       | 177.27                  | 10.00                   | 10.00                  | 0.00                  |
| <b>Hold: 70° Inc, 89.81° Azm - 7"</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,504.08                              | 70.00           | 89.81       | 9,295.51              | 0.74         | 224.26       | 224.26                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Build: 6°/100</b>                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,550.00                              | 72.76           | 89.81       | 9,310.17              | 0.89         | 267.77       | 267.77                  | 6.00                    | 6.00                   | 0.00                  |
| 9,600.00                              | 75.76           | 89.81       | 9,323.73              | 1.04         | 315.89       | 315.89                  | 6.00                    | 6.00                   | 0.00                  |
| 9,650.00                              | 78.76           | 89.81       | 9,334.76              | 1.21         | 364.65       | 364.65                  | 6.00                    | 6.00                   | 0.00                  |
| 9,700.00                              | 81.76           | 89.81       | 9,343.23              | 1.37         | 413.92       | 413.92                  | 6.00                    | 6.00                   | 0.00                  |
| 9,750.00                              | 84.76           | 89.81       | 9,349.10              | 1.53         | 463.57       | 463.57                  | 6.00                    | 6.00                   | 0.00                  |
| 9,800.00                              | 87.76           | 89.81       | 9,352.36              | 1.70         | 513.46       | 513.46                  | 6.00                    | 6.00                   | 0.00                  |
| 9,850.00                              | 90.76           | 89.81       | 9,353.01              | 1.86         | 563.45       | 563.45                  | 6.00                    | 6.00                   | 0.00                  |
| 9,857.38                              | 91.20           | 89.81       | 9,352.89              | 1.89         | 570.82       | 570.83                  | 6.00                    | 6.00                   | 0.00                  |
| <b>LP: Hold 91.2° Inc, 89.81° Azm</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,900.00                              | 91.20           | 89.81       | 9,351.99              | 2.03         | 613.44       | 613.44                  | 0.00                    | 0.00                   | 0.00                  |
| 10,000.00                             | 91.20           | 89.81       | 9,349.90              | 2.36         | 713.41       | 713.42                  | 0.00                    | 0.00                   | 0.00                  |
| 10,100.00                             | 91.20           | 89.81       | 9,347.81              | 2.69         | 813.39       | 813.40                  | 0.00                    | 0.00                   | 0.00                  |
| 10,200.00                             | 91.20           | 89.81       | 9,345.72              | 3.02         | 913.37       | 913.37                  | 0.00                    | 0.00                   | 0.00                  |
| 10,300.00                             | 91.20           | 89.81       | 9,343.63              | 3.35         | 1,013.35     | 1,013.35                | 0.00                    | 0.00                   | 0.00                  |
| 10,400.00                             | 91.20           | 89.81       | 9,341.54              | 3.68         | 1,113.32     | 1,113.33                | 0.00                    | 0.00                   | 0.00                  |
| 10,500.00                             | 91.20           | 89.81       | 9,339.45              | 4.01         | 1,213.30     | 1,213.31                | 0.00                    | 0.00                   | 0.00                  |
| 10,600.00                             | 91.20           | 89.81       | 9,337.36              | 4.34         | 1,313.28     | 1,313.29                | 0.00                    | 0.00                   | 0.00                  |
| 10,700.00                             | 91.20           | 89.81       | 9,335.27              | 4.67         | 1,413.26     | 1,413.27                | 0.00                    | 0.00                   | 0.00                  |
| 10,800.00                             | 91.20           | 89.81       | 9,333.18              | 5.00         | 1,513.24     | 1,513.24                | 0.00                    | 0.00                   | 0.00                  |
| 10,900.00                             | 91.20           | 89.81       | 9,331.09              | 5.33         | 1,613.21     | 1,613.22                | 0.00                    | 0.00                   | 0.00                  |
| 11,000.00                             | 91.20           | 89.81       | 9,329.00              | 5.66         | 1,713.19     | 1,713.20                | 0.00                    | 0.00                   | 0.00                  |
| 11,100.00                             | 91.20           | 89.81       | 9,326.91              | 5.99         | 1,813.17     | 1,813.18                | 0.00                    | 0.00                   | 0.00                  |
| 11,200.00                             | 91.20           | 89.81       | 9,324.82              | 6.32         | 1,913.15     | 1,913.16                | 0.00                    | 0.00                   | 0.00                  |
| 11,300.00                             | 91.20           | 89.81       | 9,322.73              | 6.65         | 2,013.12     | 2,013.13                | 0.00                    | 0.00                   | 0.00                  |
| 11,400.00                             | 91.20           | 89.81       | 9,320.63              | 6.98         | 2,113.10     | 2,113.11                | 0.00                    | 0.00                   | 0.00                  |
| 11,500.00                             | 91.20           | 89.81       | 9,318.54              | 7.31         | 2,213.08     | 2,213.09                | 0.00                    | 0.00                   | 0.00                  |
| 11,600.00                             | 91.20           | 89.81       | 9,316.45              | 7.64         | 2,313.06     | 2,313.07                | 0.00                    | 0.00                   | 0.00                  |
| 11,700.00                             | 91.20           | 89.81       | 9,314.36              | 7.98         | 2,413.03     | 2,413.05                | 0.00                    | 0.00                   | 0.00                  |
| 11,800.00                             | 91.20           | 89.81       | 9,312.27              | 8.31         | 2,513.01     | 2,513.03                | 0.00                    | 0.00                   | 0.00                  |
| 11,900.00                             | 91.20           | 89.81       | 9,310.18              | 8.64         | 2,612.99     | 2,613.00                | 0.00                    | 0.00                   | 0.00                  |
| 12,000.00                             | 91.20           | 89.81       | 9,308.09              | 8.97         | 2,712.97     | 2,712.98                | 0.00                    | 0.00                   | 0.00                  |
| 12,100.00                             | 91.20           | 89.81       | 9,306.00              | 9.30         | 2,812.94     | 2,812.96                | 0.00                    | 0.00                   | 0.00                  |
| 12,200.00                             | 91.20           | 89.81       | 9,303.91              | 9.63         | 2,912.92     | 2,912.94                | 0.00                    | 0.00                   | 0.00                  |
| 12,300.00                             | 91.20           | 89.81       | 9,301.82              | 9.96         | 3,012.90     | 3,012.92                | 0.00                    | 0.00                   | 0.00                  |
| 12,400.00                             | 91.20           | 89.81       | 9,299.73              | 10.29        | 3,112.88     | 3,112.89                | 0.00                    | 0.00                   | 0.00                  |
| 12,500.00                             | 91.20           | 89.81       | 9,297.64              | 10.62        | 3,212.85     | 3,212.87                | 0.00                    | 0.00                   | 0.00                  |
| 12,600.00                             | 91.20           | 89.81       | 9,295.55              | 10.95        | 3,312.83     | 3,312.85                | 0.00                    | 0.00                   | 0.00                  |
| 12,700.00                             | 91.20           | 89.81       | 9,293.46              | 11.28        | 3,412.81     | 3,412.83                | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

|           |                                 |                              |                                           |
|-----------|---------------------------------|------------------------------|-------------------------------------------|
| Database: | Compass 5000 GCR                | Local Co-ordinate Reference: | Well 203H                                 |
| Company:  | Matador Resources               | TVD Reference:               | GL3085+KB25 @ 3110.00usft (Patterson 203) |
| Project:  | Eddy County, New Mexico (NAD27) | MD Reference:                | GL3085+KB25 @ 3110.00usft (Patterson 203) |
| Site:     | Tom Walters 12-23S-27E RB       | North Reference:             | Grid                                      |
| Well:     | 203H                            | Survey Calculation Method:   | Minimum Curvature                         |
| Wellbore: | Wellbore #1                     |                              |                                           |
| Design:   | Plan #1 12-17-14                |                              |                                           |

## Planned Survey

| Measured Depth (usft)            | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 12,800.00                        | 91.20           | 89.81       | 9,291.37              | 11.61        | 3,512.79     | 3,512.81                | 0.00                    | 0.00                   | 0.00                  |
| 12,900.00                        | 91.20           | 89.81       | 9,289.27              | 11.94        | 3,612.76     | 3,612.78                | 0.00                    | 0.00                   | 0.00                  |
| 13,000.00                        | 91.20           | 89.81       | 9,287.18              | 12.27        | 3,712.74     | 3,712.76                | 0.00                    | 0.00                   | 0.00                  |
| 13,100.00                        | 91.20           | 89.81       | 9,285.09              | 12.60        | 3,812.72     | 3,812.74                | 0.00                    | 0.00                   | 0.00                  |
| 13,200.00                        | 91.20           | 89.81       | 9,283.00              | 12.93        | 3,912.70     | 3,912.72                | 0.00                    | 0.00                   | 0.00                  |
| 13,300.00                        | 91.20           | 89.81       | 9,280.91              | 13.26        | 4,012.68     | 4,012.70                | 0.00                    | 0.00                   | 0.00                  |
| 13,400.00                        | 91.20           | 89.81       | 9,278.82              | 13.59        | 4,112.65     | 4,112.68                | 0.00                    | 0.00                   | 0.00                  |
| 13,500.00                        | 91.20           | 89.81       | 9,276.73              | 13.92        | 4,212.63     | 4,212.65                | 0.00                    | 0.00                   | 0.00                  |
| 13,600.00                        | 91.20           | 89.81       | 9,274.64              | 14.25        | 4,312.61     | 4,312.63                | 0.00                    | 0.00                   | 0.00                  |
| 13,700.00                        | 91.20           | 89.81       | 9,272.55              | 14.58        | 4,412.59     | 4,412.61                | 0.00                    | 0.00                   | 0.00                  |
| 13,800.00                        | 91.20           | 89.81       | 9,270.46              | 14.91        | 4,512.56     | 4,512.59                | 0.00                    | 0.00                   | 0.00                  |
| 13,900.00                        | 91.20           | 89.81       | 9,268.37              | 15.25        | 4,612.54     | 4,612.57                | 0.00                    | 0.00                   | 0.00                  |
| 14,000.00                        | 91.20           | 89.81       | 9,266.28              | 15.58        | 4,712.52     | 4,712.54                | 0.00                    | 0.00                   | 0.00                  |
| 14,038.49                        | 91.20           | 89.81       | 9,265.47              | 15.70        | 4,751.00     | 4,751.03                | 0.00                    | 0.00                   | 0.00                  |
| <b>LPP 203H</b>                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 14,100.00                        | 91.20           | 89.81       | 9,264.19              | 15.91        | 4,812.50     | 4,812.52                | 0.00                    | 0.00                   | 0.00                  |
| 14,200.00                        | 91.20           | 89.81       | 9,262.10              | 16.24        | 4,912.47     | 4,912.50                | 0.00                    | 0.00                   | 0.00                  |
| 14,258.61                        | 91.20           | 89.81       | 9,260.87              | 16.43        | 4,971.07     | 4,971.10                | 0.00                    | 0.00                   | 0.00                  |
| <b>TD at 14258.61 - BHL 203H</b> |                 |             |                       |              |              |                         |                         |                        |                       |

## Design Targets

| Target Name                                                                                  | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude          | Longitude         |
|----------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-------------------|-------------------|
| - hit/miss target                                                                            |               |              |            |              |              |                 |                |                   |                   |
| - Shape                                                                                      |               |              |            |              |              |                 |                |                   |                   |
| VI 203H                                                                                      | 0.00          | 0.00         | 8,540.00   | -0.66        | -199.72      | 479,714.34      | 556,136.28     | 32° 19' 7.39235 N | 104° 9' 5.81112 W |
| - plan hits target center                                                                    |               |              |            |              |              |                 |                |                   |                   |
| - Point                                                                                      |               |              |            |              |              |                 |                |                   |                   |
| BHL 203H                                                                                     | -1.20         | 89.81        | 9,260.87   | 16.43        | 4,971.07     | 479,731.43      | 561,307.07     | 32° 19' 7.47071 N | 104° 8' 5.55282 W |
| - plan hits target center                                                                    |               |              |            |              |              |                 |                |                   |                   |
| - Rectangle (sides W100.00 H4,891.09 D0.00)                                                  |               |              |            |              |              |                 |                |                   |                   |
| LPP 203H                                                                                     | 0.00          | 0.00         | 9,265.48   | 16.00        | 4,751.00     | 479,731.00      | 561,087.00     | 32° 19' 7.47048 N | 104° 8' 8.11742 W |
| - plan misses target center by 0.30usft at 14038.49usft MD (9265.47 TVD, 15.70 N, 4751.00 E) |               |              |            |              |              |                 |                |                   |                   |
| - Point                                                                                      |               |              |            |              |              |                 |                |                   |                   |
| FPP 203H                                                                                     | 0.00          | 0.00         | 9,363.36   | 0.00         | 80.00        | 479,715.00      | 556,416.00     | 32° 19' 7.39418 N | 104° 9' 2.55138 W |
| - plan misses target center by 115.95usft at 9400.00usft MD (9257.54 TVD, 0.42 N, 127.40 E)  |               |              |            |              |              |                 |                |                   |                   |
| - Point                                                                                      |               |              |            |              |              |                 |                |                   |                   |

## Casing Points

| Measured Depth (usft) | Vertical Depth (usft) | Name    | Casing Diameter (") | Hole Diameter (") |
|-----------------------|-----------------------|---------|---------------------|-------------------|
| 600.00                | 600.00                | 13 3/8" | 13-3/8              | 17-1/2            |
| 2,500.00              | 2,500.00              | 9 5/8"  | 9-5/8               | 12-1/4            |
| 9,454.08              | 9,278.40              | 7"      | 7                   | 7-1/2             |

# Planning Report

|           |                                 |                              |                                           |
|-----------|---------------------------------|------------------------------|-------------------------------------------|
| Database: | Compass 5000 GCR                | Local Co-ordinate Reference: | Well 203H                                 |
| Company:  | Matador Resources               | TVD Reference:               | GL3085+KB25 @ 3110.00usft (Patterson 203) |
| Project:  | Eddy County, New Mexico (NAD27) | MD Reference:                | GL3085+KB25 @ 3110.00usft (Patterson 203) |
| Site:     | Tom Walters 12-23S-27E RB       | North Reference:             | Grid                                      |
| Well:     | 203H                            | Survey Calculation Method:   | Minimum Curvature                         |
| Wellbore: | Wellbore #1                     |                              |                                           |
| Design:   | Plan #1 12-17-14                |                              |                                           |

| Plan Annotations      |                       |                   |              |                                |
|-----------------------|-----------------------|-------------------|--------------|--------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                        |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                |
| 6,739.00              | 6,739.00              | 0.00              | 0.00         | Build: 1.5"/100                |
| 7,405.72              | 7,402.34              | -0.19             | -58.04       | Hold: 10° Inc, 269.81° Azm     |
| 7,887.36              | 7,876.66              | -0.47             | -141.68      | Drop: 1.5"/100                 |
| 8,554.08              | 8,540.00              | -0.66             | -199.72      | Hold Vertical                  |
| 8,754.08              | 8,740.00              | -0.66             | -199.72      | KOP: Build 10"/100             |
| 9,454.08              | 9,278.40              | 0.59              | 177.27       | Hold: 70° Inc, 89.81° Azm      |
| 9,504.08              | 9,295.51              | 0.74              | 224.26       | Build: 6"/100                  |
| 9,857.38              | 9,352.89              | 1.89              | 570.82       | LP: Hold 91.2° Inc, 89.81° Azm |
| 14,258.61             | 9,260.87              | 16.43             | 4,971.07     | TD at 14258.61                 |