

**HOBBS OCD**  
**AUG 03 2017**  
**RECEIVED**



# Devon Energy

Project: Lea County, NM (NAD-83)  
Site: Cotton Draw Unit  
Well: 508H  
Design: Plan #1

3410.6' GE + 25' KB @ 3435.60usft  
Ground Level: 3410.60



Azimuths to Grid North  
True North: -0.33°  
Magnetic North: 6.55°

Magnetic Field  
Strength: 48049.1snT  
Dip Angle: 59.87°  
Date: 4/11/2017  
Model: HDGM

PROJECT DETAILS: Lea County, NM (NAD-83)

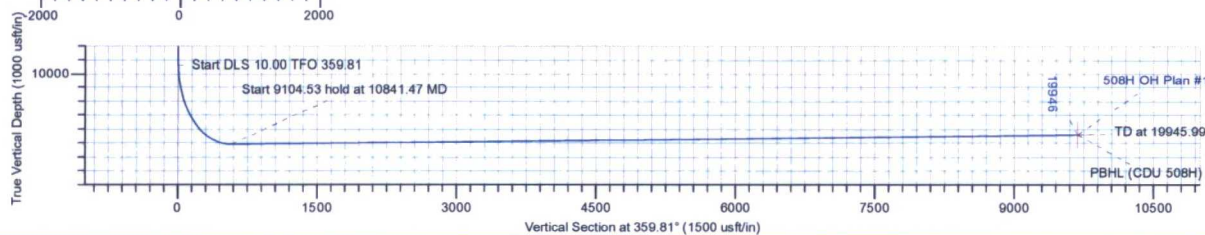
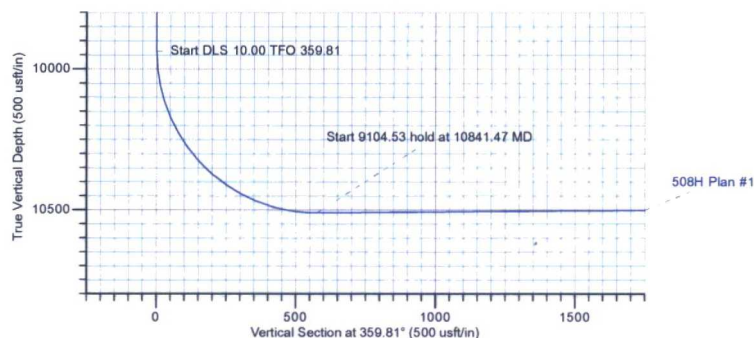
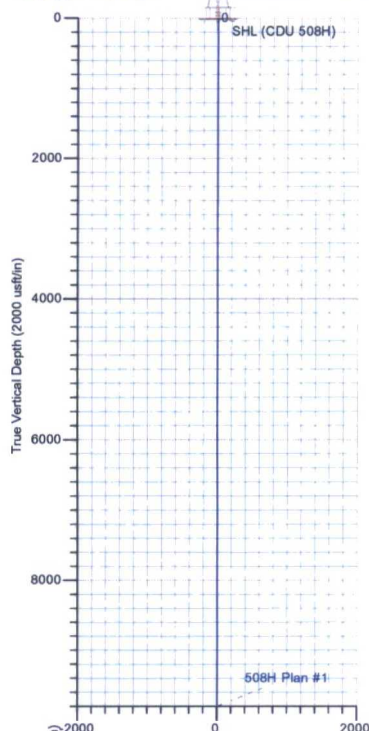
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone

## SECTION DETAILS

| MD       | Inc   | Azi    | TVD      | +N/-S   | +E/-W  | Dleg  | TFace  | Vsect   | Annotation                        |
|----------|-------|--------|----------|---------|--------|-------|--------|---------|-----------------------------------|
| 0.00     | 0.00  | 0.00   | 0.00     | 0.00    | 0.00   | 0.00  | 0.00   | 0.00    |                                   |
| 9937.06  | 0.00  | 0.00   | 9937.06  | 0.00    | 0.00   | 0.00  | 0.00   | 0.00    | Start DLS 10.00 TFO 359.81        |
| 10841.47 | 90.44 | 359.81 | 10510.00 | 577.36  | -1.90  | 10.00 | 359.81 | 577.36  | Start 9104.53 hold at 10841.47 MD |
| 19945.99 | 90.44 | 359.81 | 10440.00 | 9681.57 | -31.93 | 0.00  | 0.00   | 9681.62 | TD at 19945.99                    |

## DESIGN TARGET DETAILS

| Name            | TVD      | +N/-S   | +E/-W  | Latitude        | Longitude         |
|-----------------|----------|---------|--------|-----------------|-------------------|
| PBHL (CDU 508H) | 10440.00 | 9681.57 | -31.93 | 32° 9' 4.228 N  | 103° 42' 40.356 W |
| SHL (CDU 508H)  | 0.00     | 0.00    | 0.00   | 32° 7' 28.421 N | 103° 42' 40.635 W |



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

Plan: Plan #1 (508H/OH)  
Cotton Draw Unit  
Created By: Dustin Auti  
Date: 13/57, April 11 2017  
Approved: \_\_\_\_\_ Date: \_\_\_\_\_

## Devon Energy

Project: Lea County, NM (NAD-83)  
Site: Cotton Draw Unit  
Well: 508H  
Wellbore: OH  
Design: Plan #1



Azimuths to Grid North  
True North: -0.33°  
Magnetic North: 6.55°

Magnetic Field  
Strength: 48049.1nT  
Dip Angle: 59.87°  
Date: 4/11/2017  
Model: HDGM



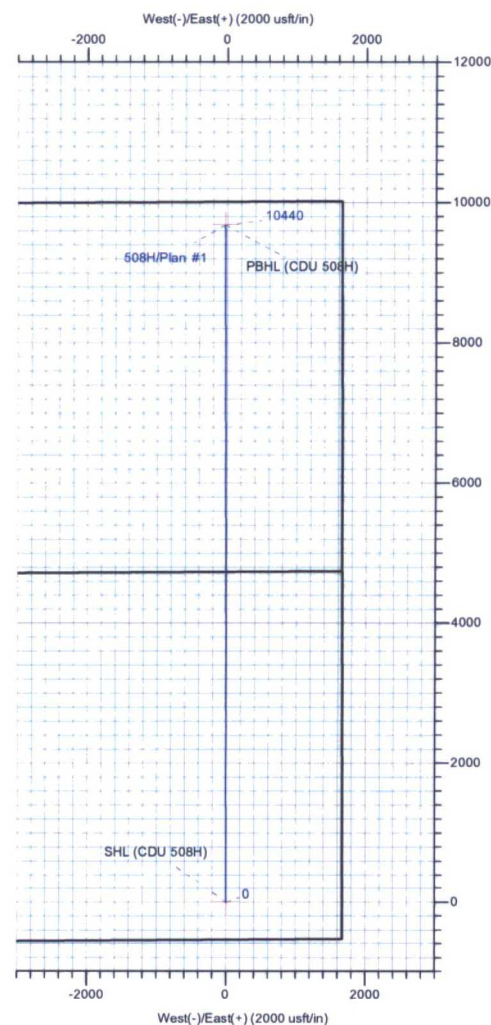
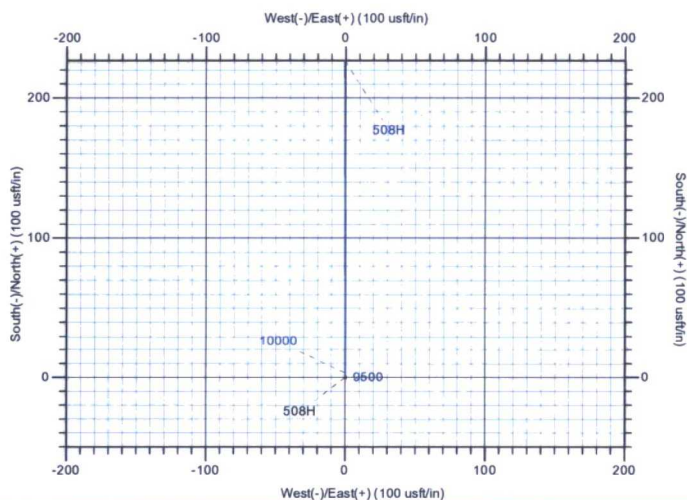
PROJECT DETAILS: Lea County, NM (NAD-83)  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone

### SECTION DETAILS

| MD       | Inc   | Azi    | TVD      | +N/-S   | +E/-W  | Dleg  | TFace  | Vsect   | Target          |
|----------|-------|--------|----------|---------|--------|-------|--------|---------|-----------------|
| 0.00     | 0.00  | 0.00   | 0.00     | 0.00    | 0.00   | 0.00  | 0.00   | 0.00    |                 |
| 9937.06  | 0.00  | 0.00   | 9937.06  | 0.00    | 0.00   | 0.00  | 0.00   | 0.00    |                 |
| 10841.47 | 90.44 | 359.81 | 10510.00 | 577.36  | -1.90  | 10.00 | 359.81 | 577.36  |                 |
| 19945.99 | 90.44 | 359.81 | 10440.00 | 9681.57 | -31.93 | 0.00  | 0.00   | 9681.62 | PBHL (CDU 508H) |

### DESIGN TARGET DETAILS

| Name            | TVD      | +N/-S   | +E/-W  | Northing  | Easting   | Latitude        | Longitude         |
|-----------------|----------|---------|--------|-----------|-----------|-----------------|-------------------|
| PBHL (CDU 508H) | 10440.00 | 9681.57 | -31.93 | 416268.85 | 733872.86 | 32° 9' 4.228 N  | 103° 42' 40.356 W |
| SHL (CDU 508H)  | 0.00     | 0.00    | 0.00   | 409607.28 | 733904.79 | 32° 7' 28.421 N | 103° 42' 40.635 W |



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

Plan: Plan #1 (508H/OH)  
Cotton Draw Unit  
Created By: Dustin Ault Date: 13:57, April 11 2017  
Date: \_\_\_\_\_  
Approved: \_\_\_\_\_ Date: \_\_\_\_\_

# Devon Energy

Lea County, NM (NAD-83)

Cotton Draw Unit

508H

OH

Plan: Plan #1

**HOBBS OCD**  
**AUG 03 2017**  
**RECEIVED**

## Standard Planning Report

11 April, 2017

# LEAM Drilling Systems LLC

## Planning Report

|           |                          |                              |                                   |
|-----------|--------------------------|------------------------------|-----------------------------------|
| Database: | EDM 5000.1 Multi User Db | Local Co-ordinate Reference: | Well 508H                         |
| Company:  | Devon Energy             | TVD Reference:               | 3410.6' GE + 25' KB @ 3435.60usft |
| Project:  | Lea County, NM (NAD-83)  | MD Reference:                | 3410.6' GE + 25' KB @ 3435.60usft |
| Site:     | Cotton Draw Unit         | North Reference:             | Grid                              |
| Well:     | 508H                     | Survey Calculation Method:   | Minimum Curvature                 |
| Wellbore: | OH                       |                              |                                   |
| Design:   | Plan #1                  |                              |                                   |

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

|                       |                  |                   |                   |
|-----------------------|------------------|-------------------|-------------------|
| Site                  | Cotton Draw Unit |                   |                   |
| Site Position:        |                  | Northing:         | 409,601.90 usft   |
| From:                 | Map              | Easting:          | 732,306.79 usft   |
| Position Uncertainty: | 0.00 usft        | Slot Radius:      | 13-3/16 "         |
|                       |                  | Latitude:         | 32° 7' 28.458 N   |
|                       |                  | Longitude:        | 103° 42' 59.218 W |
|                       |                  | Grid Convergence: | 0.33 °            |

|                      |           |                     |                   |
|----------------------|-----------|---------------------|-------------------|
| Well                 | 508H      |                     |                   |
| Well Position        | +N/-S     | 5.38 usft           | Northing:         |
|                      | +E/-W     | 1,598.00 usft       | Easting:          |
| Position Uncertainty | 0.00 usft | Wellhead Elevation: | 0.00 usft         |
|                      |           | Latitude:           | 32° 7' 28.421 N   |
|                      |           | Longitude:          | 103° 42' 40.635 W |
|                      |           | Ground Level:       | 3,410.60 usft     |

|           |            |             |                |
|-----------|------------|-------------|----------------|
| Wellbore  | OH         |             |                |
| Magnetics | Model Name | Sample Date | Declination    |
|           |            |             | (°)            |
|           | HDGM       | 4/11/2017   | 6.88           |
|           |            |             | Dip Angle      |
|           |            |             | (°)            |
|           |            |             | Field Strength |
|           |            |             | (nT)           |
|           |            |             | 48,049         |

|                   |                  |        |               |
|-------------------|------------------|--------|---------------|
| Design            | Plan #1          |        |               |
| 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     |
|                   |                  |        | (°)           |
|                   |                  |        | 359.81        |

|               |             |         |           |          |        |             |             |             |        |                 |
|---------------|-------------|---------|-----------|----------|--------|-------------|-------------|-------------|--------|-----------------|
| Plan Sections |             |         |           |          |        |             |             |             |        |                 |
| Measured      | Inclination | Azimuth | Vertical  | +N/-S    | +E/-W  | Dogleg      | Build       | Turn        | TFO    | Target          |
| Depth         | (°)         | (°)     | Depth     | (usft)   | (usft) | Rate        | Rate        | Rate        | (°)    |                 |
| (usft)        |             |         | (usft)    |          |        | (°/100usft) | (°/100usft) | (°/100usft) |        |                 |
| 0.00          | 0.00        | 0.00    | 0.00      | 0.00     | 0.00   | 0.00        | 0.00        | 0.00        | 0.00   |                 |
| 9,937.06      | 0.00        | 0.00    | 9,937.06  | 0.00     | 0.00   | 0.00        | 0.00        | 0.00        | 0.00   |                 |
| 10,841.47     | 90.44       | 359.81  | 10,510.00 | 577.36   | -1.90  | 10.00       | 10.00       | -0.02       | 359.81 |                 |
| 19,945.99     | 90.44       | 359.81  | 10,440.00 | 9,681.57 | -31.93 | 0.00        | 0.00        | 0.00        | 0.00   | PBHL (CDU 508H) |

# LEAM Drilling Systems LLC

## Planning Report

|           |                          |                              |                                   |
|-----------|--------------------------|------------------------------|-----------------------------------|
| Database: | EDM 5000.1 Multi User Db | Local Co-ordinate Reference: | Well 508H                         |
| Company:  | Devon Energy             | TVD Reference:               | 3410.6' GE + 25' KB @ 3435.60usft |
| Project:  | Lea County, NM (NAD-83)  | MD Reference:                | 3410.6' GE + 25' KB @ 3435.60usft |
| Site:     | Cotton Draw Unit         | North Reference:             | Grid                              |
| Well:     | 508H                     | Survey Calculation Method:   | Minimum Curvature                 |
| Wellbore: | OH                       |                              |                                   |
| Design:   | Plan #1                  |                              |                                   |

| 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                  |
| SHL (CDU 508H)        |                 |             |                       |              |              |                         |                         |                        |                       |
| 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                  |
| 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                  |
| 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                  |
| 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                  |

# LEAM Drilling Systems LLC

## Planning Report

|           |                          |                              |                                   |
|-----------|--------------------------|------------------------------|-----------------------------------|
| Database: | EDM 5000.1 Multi User Db | Local Co-ordinate Reference: | Well 508H                         |
| Company:  | Devon Energy             | TVD Reference:               | 3410.6' GE + 25' KB @ 3435.60usft |
| Project:  | Lea County, NM (NAD-83)  | MD Reference:                | 3410.6' GE + 25' KB @ 3435.60usft |
| Site:     | Cotton Draw Unit         | North Reference:             | Grid                              |
| Well:     | 508H                     | Survey Calculation Method:   | Minimum Curvature                 |
| Wellbore: | OH                       |                              |                                   |
| Design:   | Plan #1                  |                              |                                   |

| 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) |
| 5,300.00                   | 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                  |
| 6,800.00                   | 0.00            | 0.00        | 6,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,900.00                   | 0.00            | 0.00        | 6,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,000.00                   | 0.00            | 0.00        | 7,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,100.00                   | 0.00            | 0.00        | 7,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,200.00                   | 0.00            | 0.00        | 7,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,300.00                   | 0.00            | 0.00        | 7,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,400.00                   | 0.00            | 0.00        | 7,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,500.00                   | 0.00            | 0.00        | 7,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,600.00                   | 0.00            | 0.00        | 7,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,700.00                   | 0.00            | 0.00        | 7,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00                   | 0.00            | 0.00        | 7,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,900.00                   | 0.00            | 0.00        | 7,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,000.00                   | 0.00            | 0.00        | 8,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,100.00                   | 0.00            | 0.00        | 8,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00                   | 0.00            | 0.00        | 8,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,300.00                   | 0.00            | 0.00        | 8,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,400.00                   | 0.00            | 0.00        | 8,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,500.00                   | 0.00            | 0.00        | 8,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,600.00                   | 0.00            | 0.00        | 8,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,700.00                   | 0.00            | 0.00        | 8,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,800.00                   | 0.00            | 0.00        | 8,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,900.00                   | 0.00            | 0.00        | 8,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,000.00                   | 0.00            | 0.00        | 9,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,100.00                   | 0.00            | 0.00        | 9,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,200.00                   | 0.00            | 0.00        | 9,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,300.00                   | 0.00            | 0.00        | 9,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,400.00                   | 0.00            | 0.00        | 9,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,500.00                   | 0.00            | 0.00        | 9,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,600.00                   | 0.00            | 0.00        | 9,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,700.00                   | 0.00            | 0.00        | 9,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,800.00                   | 0.00            | 0.00        | 9,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,900.00                   | 0.00            | 0.00        | 9,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,937.06                   | 0.00            | 0.00        | 9,937.06              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| Start DLS 10.00 TFO 359.81 |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,950.00                   | 1.29            | 359.81      | 9,950.00              | 0.15         | 0.00         | 0.15                    | 10.00                   | 10.00                  | 0.00                  |
| 10,000.00                  | 6.29            | 359.81      | 9,999.87              | 3.45         | -0.01        | 3.45                    | 10.00                   | 10.00                  | 0.00                  |
| 10,050.00                  | 11.29           | 359.81      | 10,049.27             | 11.10        | -0.04        | 11.10                   | 10.00                   | 10.00                  | 0.00                  |
| 10,100.00                  | 16.29           | 359.81      | 10,097.81             | 23.01        | -0.08        | 23.01                   | 10.00                   | 10.00                  | 0.00                  |

# LEAM Drilling Systems LLC

## Planning Report

|           |                          |                              |                                   |
|-----------|--------------------------|------------------------------|-----------------------------------|
| Database: | EDM 5000.1 Multi User Db | Local Co-ordinate Reference: | Well 508H                         |
| Company:  | Devon Energy             | TVD Reference:               | 3410.6' GE + 25' KB @ 3435.60usft |
| Project:  | Lea County, NM (NAD-83)  | MD Reference:                | 3410.6' GE + 25' KB @ 3435.60usft |
| Site:     | Cotton Draw Unit         | North Reference:             | Grid                              |
| Well:     | 508H                     | Survey Calculation Method:   | Minimum Curvature                 |
| Wellbore: | OH                       |                              |                                   |
| Design:   | Plan #1                  |                              |                                   |

| 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) |
| 10,150.00                         | 21.29           | 359.81      | 10,145.13             | 39.12       | -0.13       | 39.12                   | 10.00                   | 10.00                  | 0.00                  |
| 10,200.00                         | 26.29           | 359.81      | 10,190.87             | 59.28       | -0.20       | 59.28                   | 10.00                   | 10.00                  | 0.00                  |
| 10,250.00                         | 31.29           | 359.81      | 10,234.67             | 83.36       | -0.27       | 83.36                   | 10.00                   | 10.00                  | 0.00                  |
| 10,300.00                         | 36.29           | 359.81      | 10,276.21             | 111.16      | -0.37       | 111.16                  | 10.00                   | 10.00                  | 0.00                  |
| 10,350.00                         | 41.29           | 359.81      | 10,315.17             | 142.47      | -0.47       | 142.48                  | 10.00                   | 10.00                  | 0.00                  |
| 10,400.00                         | 46.29           | 359.81      | 10,351.25             | 177.07      | -0.58       | 177.07                  | 10.00                   | 10.00                  | 0.00                  |
| 10,450.00                         | 51.29           | 359.81      | 10,384.18             | 214.67      | -0.71       | 214.67                  | 10.00                   | 10.00                  | 0.00                  |
| 10,500.00                         | 56.29           | 359.81      | 10,413.70             | 255.00      | -0.84       | 255.01                  | 10.00                   | 10.00                  | 0.00                  |
| 10,550.00                         | 61.29           | 359.81      | 10,439.60             | 297.76      | -0.98       | 297.76                  | 10.00                   | 10.00                  | 0.00                  |
| 10,600.00                         | 66.29           | 359.81      | 10,461.67             | 342.60      | -1.13       | 342.60                  | 10.00                   | 10.00                  | 0.00                  |
| 10,650.00                         | 71.29           | 359.81      | 10,479.75             | 389.20      | -1.28       | 389.20                  | 10.00                   | 10.00                  | 0.00                  |
| 10,700.00                         | 76.29           | 359.81      | 10,493.70             | 437.20      | -1.44       | 437.20                  | 10.00                   | 10.00                  | 0.00                  |
| 10,750.00                         | 81.29           | 359.81      | 10,503.42             | 486.23      | -1.60       | 486.23                  | 10.00                   | 10.00                  | 0.00                  |
| 10,800.00                         | 86.29           | 359.81      | 10,508.82             | 535.92      | -1.77       | 535.92                  | 10.00                   | 10.00                  | 0.00                  |
| 10,841.47                         | 90.44           | 359.81      | 10,510.00             | 577.36      | -1.90       | 577.36                  | 10.00                   | 10.00                  | 0.00                  |
| Start 9104.53 hold at 10841.47 MD |                 |             |                       |             |             |                         |                         |                        |                       |
| 10,900.00                         | 90.44           | 359.81      | 10,509.55             | 635.89      | -2.10       | 635.90                  | 0.00                    | 0.00                   | 0.00                  |
| 11,000.00                         | 90.44           | 359.81      | 10,508.78             | 735.89      | -2.43       | 735.89                  | 0.00                    | 0.00                   | 0.00                  |
| 11,100.00                         | 90.44           | 359.81      | 10,508.01             | 835.89      | -2.76       | 835.89                  | 0.00                    | 0.00                   | 0.00                  |
| 11,200.00                         | 90.44           | 359.81      | 10,507.24             | 935.88      | -3.09       | 935.89                  | 0.00                    | 0.00                   | 0.00                  |
| 11,300.00                         | 90.44           | 359.81      | 10,506.48             | 1,035.88    | -3.42       | 1,035.88                | 0.00                    | 0.00                   | 0.00                  |
| 11,400.00                         | 90.44           | 359.81      | 10,505.71             | 1,135.88    | -3.75       | 1,135.88                | 0.00                    | 0.00                   | 0.00                  |
| 11,500.00                         | 90.44           | 359.81      | 10,504.94             | 1,235.87    | -4.08       | 1,235.88                | 0.00                    | 0.00                   | 0.00                  |
| 11,600.00                         | 90.44           | 359.81      | 10,504.17             | 1,335.87    | -4.41       | 1,335.88                | 0.00                    | 0.00                   | 0.00                  |
| 11,700.00                         | 90.44           | 359.81      | 10,503.40             | 1,435.86    | -4.74       | 1,435.87                | 0.00                    | 0.00                   | 0.00                  |
| 11,800.00                         | 90.44           | 359.81      | 10,502.63             | 1,535.86    | -5.07       | 1,535.87                | 0.00                    | 0.00                   | 0.00                  |
| 11,900.00                         | 90.44           | 359.81      | 10,501.86             | 1,635.86    | -5.40       | 1,635.87                | 0.00                    | 0.00                   | 0.00                  |
| 12,000.00                         | 90.44           | 359.81      | 10,501.09             | 1,735.85    | -5.72       | 1,735.86                | 0.00                    | 0.00                   | 0.00                  |
| 12,100.00                         | 90.44           | 359.81      | 10,500.32             | 1,835.85    | -6.05       | 1,835.86                | 0.00                    | 0.00                   | 0.00                  |
| 12,200.00                         | 90.44           | 359.81      | 10,499.56             | 1,935.85    | -6.38       | 1,935.86                | 0.00                    | 0.00                   | 0.00                  |
| 12,300.00                         | 90.44           | 359.81      | 10,498.79             | 2,035.84    | -6.71       | 2,035.85                | 0.00                    | 0.00                   | 0.00                  |
| 12,400.00                         | 90.44           | 359.81      | 10,498.02             | 2,135.84    | -7.04       | 2,135.85                | 0.00                    | 0.00                   | 0.00                  |
| 12,500.00                         | 90.44           | 359.81      | 10,497.25             | 2,235.84    | -7.37       | 2,235.85                | 0.00                    | 0.00                   | 0.00                  |
| 12,600.00                         | 90.44           | 359.81      | 10,496.48             | 2,335.83    | -7.70       | 2,335.85                | 0.00                    | 0.00                   | 0.00                  |
| 12,700.00                         | 90.44           | 359.81      | 10,495.71             | 2,435.83    | -8.03       | 2,435.84                | 0.00                    | 0.00                   | 0.00                  |
| 12,800.00                         | 90.44           | 359.81      | 10,494.94             | 2,535.83    | -8.36       | 2,535.84                | 0.00                    | 0.00                   | 0.00                  |
| 12,900.00                         | 90.44           | 359.81      | 10,494.17             | 2,635.82    | -8.69       | 2,635.84                | 0.00                    | 0.00                   | 0.00                  |
| 13,000.00                         | 90.44           | 359.81      | 10,493.41             | 2,735.82    | -9.02       | 2,735.83                | 0.00                    | 0.00                   | 0.00                  |
| 13,100.00                         | 90.44           | 359.81      | 10,492.64             | 2,835.82    | -9.35       | 2,835.83                | 0.00                    | 0.00                   | 0.00                  |
| 13,200.00                         | 90.44           | 359.81      | 10,491.87             | 2,935.81    | -9.68       | 2,935.83                | 0.00                    | 0.00                   | 0.00                  |
| 13,300.00                         | 90.44           | 359.81      | 10,491.10             | 3,035.81    | -10.01      | 3,035.83                | 0.00                    | 0.00                   | 0.00                  |
| 13,400.00                         | 90.44           | 359.81      | 10,490.33             | 3,135.81    | -10.34      | 3,135.82                | 0.00                    | 0.00                   | 0.00                  |
| 13,500.00                         | 90.44           | 359.81      | 10,489.56             | 3,235.80    | -10.67      | 3,235.82                | 0.00                    | 0.00                   | 0.00                  |
| 13,600.00                         | 90.44           | 359.81      | 10,488.79             | 3,335.80    | -11.00      | 3,335.82                | 0.00                    | 0.00                   | 0.00                  |
| 13,700.00                         | 90.44           | 359.81      | 10,488.02             | 3,435.79    | -11.33      | 3,435.81                | 0.00                    | 0.00                   | 0.00                  |
| 13,800.00                         | 90.44           | 359.81      | 10,487.25             | 3,535.79    | -11.66      | 3,535.81                | 0.00                    | 0.00                   | 0.00                  |
| 13,900.00                         | 90.44           | 359.81      | 10,486.49             | 3,635.79    | -11.99      | 3,635.81                | 0.00                    | 0.00                   | 0.00                  |
| 14,000.00                         | 90.44           | 359.81      | 10,485.72             | 3,735.78    | -12.32      | 3,735.80                | 0.00                    | 0.00                   | 0.00                  |
| 14,100.00                         | 90.44           | 359.81      | 10,484.95             | 3,835.78    | -12.65      | 3,835.80                | 0.00                    | 0.00                   | 0.00                  |
| 14,200.00                         | 90.44           | 359.81      | 10,484.18             | 3,935.78    | -12.98      | 3,935.80                | 0.00                    | 0.00                   | 0.00                  |
| 14,300.00                         | 90.44           | 359.81      | 10,483.41             | 4,035.77    | -13.31      | 4,035.80                | 0.00                    | 0.00                   | 0.00                  |
| 14,400.00                         | 90.44           | 359.81      | 10,482.64             | 4,135.77    | -13.64      | 4,135.79                | 0.00                    | 0.00                   | 0.00                  |
| 14,500.00                         | 90.44           | 359.81      | 10,481.87             | 4,235.77    | -13.97      | 4,235.79                | 0.00                    | 0.00                   | 0.00                  |
| 14,600.00                         | 90.44           | 359.81      | 10,481.10             | 4,335.76    | -14.30      | 4,335.79                | 0.00                    | 0.00                   | 0.00                  |

# LEAM Drilling Systems LLC

## Planning Report

|           |                          |                              |                                   |
|-----------|--------------------------|------------------------------|-----------------------------------|
| Database: | EDM 5000.1 Multi User Db | Local Co-ordinate Reference: | Well 508H                         |
| Company:  | Devon Energy             | TVD Reference:               | 3410.6' GE + 25' KB @ 3435.60usft |
| Project:  | Lea County, NM (NAD-83)  | MD Reference:                | 3410.6' GE + 25' KB @ 3435.60usft |
| Site:     | Cotton Draw Unit         | North Reference:             | Grid                              |
| Well:     | 508H                     | Survey Calculation Method:   | Minimum Curvature                 |
| Wellbore: | OH                       |                              |                                   |
| Design:   | Plan #1                  |                              |                                   |

### 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 14,700.00             | 90.44           | 359.81      | 10,480.33             | 4,435.76     | -14.63       | 4,435.78                | 0.00                    | 0.00                   | 0.00                  |
| 14,800.00             | 90.44           | 359.81      | 10,479.57             | 4,435.76     | -14.96       | 4,535.78                | 0.00                    | 0.00                   | 0.00                  |
| 14,900.00             | 90.44           | 359.81      | 10,478.80             | 4,635.75     | -15.29       | 4,635.78                | 0.00                    | 0.00                   | 0.00                  |
| 15,000.00             | 90.44           | 359.81      | 10,478.03             | 4,735.75     | -15.62       | 4,735.77                | 0.00                    | 0.00                   | 0.00                  |
| 15,100.00             | 90.44           | 359.81      | 10,477.26             | 4,835.75     | -15.95       | 4,835.77                | 0.00                    | 0.00                   | 0.00                  |
| 15,200.00             | 90.44           | 359.81      | 10,476.49             | 4,935.74     | -16.28       | 4,935.77                | 0.00                    | 0.00                   | 0.00                  |
| 15,300.00             | 90.44           | 359.81      | 10,475.72             | 5,035.74     | -16.61       | 5,035.77                | 0.00                    | 0.00                   | 0.00                  |
| 15,400.00             | 90.44           | 359.81      | 10,474.95             | 5,135.74     | -16.94       | 5,135.76                | 0.00                    | 0.00                   | 0.00                  |
| 15,500.00             | 90.44           | 359.81      | 10,474.18             | 5,235.73     | -17.27       | 5,235.76                | 0.00                    | 0.00                   | 0.00                  |
| 15,600.00             | 90.44           | 359.81      | 10,473.41             | 5,335.73     | -17.60       | 5,335.76                | 0.00                    | 0.00                   | 0.00                  |
| 15,700.00             | 90.44           | 359.81      | 10,472.65             | 5,435.72     | -17.93       | 5,435.75                | 0.00                    | 0.00                   | 0.00                  |
| 15,800.00             | 90.44           | 359.81      | 10,471.88             | 5,535.72     | -18.26       | 5,535.75                | 0.00                    | 0.00                   | 0.00                  |
| 15,900.00             | 90.44           | 359.81      | 10,471.11             | 5,635.72     | -18.59       | 5,635.75                | 0.00                    | 0.00                   | 0.00                  |
| 16,000.00             | 90.44           | 359.81      | 10,470.34             | 5,735.71     | -18.92       | 5,735.75                | 0.00                    | 0.00                   | 0.00                  |
| 16,100.00             | 90.44           | 359.81      | 10,469.57             | 5,835.71     | -19.25       | 5,835.74                | 0.00                    | 0.00                   | 0.00                  |
| 16,200.00             | 90.44           | 359.81      | 10,468.80             | 5,935.71     | -19.58       | 5,935.74                | 0.00                    | 0.00                   | 0.00                  |
| 16,300.00             | 90.44           | 359.81      | 10,468.03             | 6,035.70     | -19.91       | 6,035.74                | 0.00                    | 0.00                   | 0.00                  |
| 16,400.00             | 90.44           | 359.81      | 10,467.26             | 6,135.70     | -20.24       | 6,135.73                | 0.00                    | 0.00                   | 0.00                  |
| 16,500.00             | 90.44           | 359.81      | 10,466.50             | 6,235.70     | -20.57       | 6,235.73                | 0.00                    | 0.00                   | 0.00                  |
| 16,600.00             | 90.44           | 359.81      | 10,465.73             | 6,335.69     | -20.90       | 6,335.73                | 0.00                    | 0.00                   | 0.00                  |
| 16,700.00             | 90.44           | 359.81      | 10,464.96             | 6,435.69     | -21.23       | 6,435.72                | 0.00                    | 0.00                   | 0.00                  |
| 16,800.00             | 90.44           | 359.81      | 10,464.19             | 6,535.69     | -21.55       | 6,535.72                | 0.00                    | 0.00                   | 0.00                  |
| 16,900.00             | 90.44           | 359.81      | 10,463.42             | 6,635.68     | -21.88       | 6,635.72                | 0.00                    | 0.00                   | 0.00                  |
| 17,000.00             | 90.44           | 359.81      | 10,462.65             | 6,735.68     | -22.21       | 6,735.72                | 0.00                    | 0.00                   | 0.00                  |
| 17,100.00             | 90.44           | 359.81      | 10,461.88             | 6,835.68     | -22.54       | 6,835.71                | 0.00                    | 0.00                   | 0.00                  |
| 17,200.00             | 90.44           | 359.81      | 10,461.11             | 6,935.67     | -22.87       | 6,935.71                | 0.00                    | 0.00                   | 0.00                  |
| 17,300.00             | 90.44           | 359.81      | 10,460.34             | 7,035.67     | -23.20       | 7,035.71                | 0.00                    | 0.00                   | 0.00                  |
| 17,400.00             | 90.44           | 359.81      | 10,459.58             | 7,135.67     | -23.53       | 7,135.70                | 0.00                    | 0.00                   | 0.00                  |
| 17,500.00             | 90.44           | 359.81      | 10,458.81             | 7,235.66     | -23.86       | 7,235.70                | 0.00                    | 0.00                   | 0.00                  |
| 17,600.00             | 90.44           | 359.81      | 10,458.04             | 7,335.66     | -24.19       | 7,335.70                | 0.00                    | 0.00                   | 0.00                  |
| 17,700.00             | 90.44           | 359.81      | 10,457.27             | 7,435.65     | -24.52       | 7,435.70                | 0.00                    | 0.00                   | 0.00                  |
| 17,800.00             | 90.44           | 359.81      | 10,456.50             | 7,535.65     | -24.85       | 7,535.69                | 0.00                    | 0.00                   | 0.00                  |
| 17,900.00             | 90.44           | 359.81      | 10,455.73             | 7,635.65     | -25.18       | 7,635.69                | 0.00                    | 0.00                   | 0.00                  |
| 18,000.00             | 90.44           | 359.81      | 10,454.96             | 7,735.64     | -25.51       | 7,735.69                | 0.00                    | 0.00                   | 0.00                  |
| 18,100.00             | 90.44           | 359.81      | 10,454.19             | 7,835.64     | -25.84       | 7,835.68                | 0.00                    | 0.00                   | 0.00                  |
| 18,200.00             | 90.44           | 359.81      | 10,453.42             | 7,935.64     | -26.17       | 7,935.68                | 0.00                    | 0.00                   | 0.00                  |
| 18,300.00             | 90.44           | 359.81      | 10,452.66             | 8,035.63     | -26.50       | 8,035.68                | 0.00                    | 0.00                   | 0.00                  |
| 18,400.00             | 90.44           | 359.81      | 10,451.89             | 8,135.63     | -26.83       | 8,135.67                | 0.00                    | 0.00                   | 0.00                  |
| 18,500.00             | 90.44           | 359.81      | 10,451.12             | 8,235.63     | -27.16       | 8,235.67                | 0.00                    | 0.00                   | 0.00                  |
| 18,600.00             | 90.44           | 359.81      | 10,450.35             | 8,335.62     | -27.49       | 8,335.67                | 0.00                    | 0.00                   | 0.00                  |
| 18,700.00             | 90.44           | 359.81      | 10,449.58             | 8,435.62     | -27.82       | 8,435.67                | 0.00                    | 0.00                   | 0.00                  |
| 18,800.00             | 90.44           | 359.81      | 10,448.81             | 8,535.62     | -28.15       | 8,535.66                | 0.00                    | 0.00                   | 0.00                  |
| 18,900.00             | 90.44           | 359.81      | 10,448.04             | 8,635.61     | -28.48       | 8,635.66                | 0.00                    | 0.00                   | 0.00                  |
| 19,000.00             | 90.44           | 359.81      | 10,447.27             | 8,735.61     | -28.81       | 8,735.66                | 0.00                    | 0.00                   | 0.00                  |
| 19,100.00             | 90.44           | 359.81      | 10,446.50             | 8,835.61     | -29.14       | 8,835.65                | 0.00                    | 0.00                   | 0.00                  |
| 19,200.00             | 90.44           | 359.81      | 10,445.74             | 8,935.60     | -29.47       | 8,935.65                | 0.00                    | 0.00                   | 0.00                  |
| 19,300.00             | 90.44           | 359.81      | 10,444.97             | 9,035.60     | -29.80       | 9,035.65                | 0.00                    | 0.00                   | 0.00                  |
| 19,400.00             | 90.44           | 359.81      | 10,444.20             | 9,135.60     | -30.13       | 9,135.64                | 0.00                    | 0.00                   | 0.00                  |
| 19,500.00             | 90.44           | 359.81      | 10,443.43             | 9,235.59     | -30.46       | 9,235.64                | 0.00                    | 0.00                   | 0.00                  |
| 19,600.00             | 90.44           | 359.81      | 10,442.66             | 9,335.59     | -30.79       | 9,335.64                | 0.00                    | 0.00                   | 0.00                  |
| 19,700.00             | 90.44           | 359.81      | 10,441.89             | 9,435.58     | -31.12       | 9,435.64                | 0.00                    | 0.00                   | 0.00                  |
| 19,800.00             | 90.44           | 359.81      | 10,441.12             | 9,535.58     | -31.45       | 9,535.63                | 0.00                    | 0.00                   | 0.00                  |
| 19,900.00             | 90.44           | 359.81      | 10,440.35             | 9,635.58     | -31.78       | 9,635.63                | 0.00                    | 0.00                   | 0.00                  |
| 19,945.99             | 90.44           | 359.81      | 10,440.00             | 9,681.57     | -31.93       | 9,681.62                | 0.00                    | 0.00                   | 0.00                  |

# LEAM Drilling Systems LLC

## Planning Report

|           |                          |                              |                                   |
|-----------|--------------------------|------------------------------|-----------------------------------|
| Database: | EDM 5000.1 Multi User Db | Local Co-ordinate Reference: | Well 508H                         |
| Company:  | Devon Energy             | TVD Reference:               | 3410.6' GE + 25' KB @ 3435.60usft |
| Project:  | Lea County, NM (NAD-83)  | MD Reference:                | 3410.6' GE + 25' KB @ 3435.60usft |
| Site:     | Cotton Draw Unit         | North Reference:             | Grid                              |
| Well:     | 508H                     | Survey Calculation Method:   | Minimum Curvature                 |
| Wellbore: | OH                       |                              |                                   |
| Design:   | Plan #1                  |                              |                                   |

### 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|

TD at 19945.99 - PBHL (CDU 508H)

### Design Targets

| Target Name<br>- hit/miss target<br>- Shape             | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude        | Longitude         |
|---------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------------|-------------------|
| SHL (CDU 508H)<br>- plan hits target center<br>- Point  | 0.00          | 0.00         | 0.00       | 0.00         | 0.00         | 409,607.28      | 733,904.79     | 32° 7' 28.421 N | 103° 42' 40.635 W |
| PBHL (CDU 508H)<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 10,440.00  | 9,681.57     | -31.93       | 419,288.85      | 733,872.86     | 32° 9' 4.228 N  | 103° 42' 40.356 W |

### Plan Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates<br>+N/-S (usft) | +E/-W (usft) | Comment                           |
|-----------------------|-----------------------|-----------------------------------|--------------|-----------------------------------|
| 9,937.06              | 9,937.06              | 0.00                              | 0.00         | Start DLS 10.00 TFO 359.81        |
| 10,841.47             | 10,510.00             | 577.36                            | -1.90        | Start 9104.53 hold at 10841.47 MD |
| 19,945.99             | 10,440.00             | 9,681.57                          | -31.93       | TD at 19945.99                    |