

# DEVON ENERGY

Project: Lea County, NM (NAD-83)  
Site: Thistle Unit  
Well: 94H  
Wellbore: OH  
Design: Plan #2



Azimuths to Grid North  
True North: -0.41°  
Magnetic North: 6.87°

Magnetic Field  
Strength: 48202.8nT  
Dip Angle: 60.15°  
Date: 6/12/2015  
Model: BGGM2014

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  
System Datum: Mean Sea Level

# devon

## SECTION DETAILS

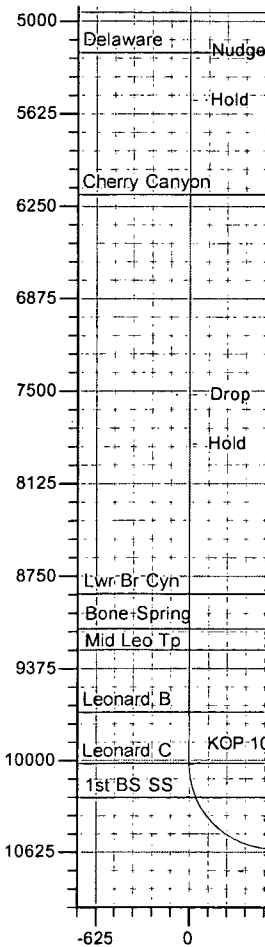
| Sec | MD       | Inc   | Azi    | TVD      | +N/-S    | +E/-W  | Dleg  | TFace  | Vsect   | Annotation  |
|-----|----------|-------|--------|----------|----------|--------|-------|--------|---------|-------------|
| 1   | 0.00     | 0.00  | 0.00   | 0.00     | 0.00     | 0.00   | 0.00  | 0.00   | 0.00    |             |
| 2   | 5200.00  | 0.00  | 0.00   | 5200.00  | 0.00     | 0.00   | 0.00  | 0.00   | 0.00    | Nudge       |
| 3   | 5533.33  | 5.00  | 90.00  | 5532.91  | 0.00     | 14.54  | 1.50  | 90.00  | -0.19   | Hold        |
| 4   | 7533.33  | 5.00  | 90.00  | 7525.30  | 0.00     | 188.85 | 0.00  | 0.00   | -2.41   | Drop        |
| 5   | 7866.67  | 0.00  | 0.00   | 7858.21  | 0.00     | 203.38 | 1.50  | 180.00 | -2.59   | Hold        |
| 6   | 10038.52 | 0.00  | 0.00   | 10030.06 | 0.00     | 203.38 | 0.00  | 0.00   | -2.59   | KOP 10° DLS |
| 7   | 10943.56 | 90.50 | 180.73 | 10603.00 | -577.95  | 195.99 | 10.00 | 180.73 | 575.41  | LP          |
| 8   | 17989.73 | 90.50 | 180.73 | 10541.00 | -7623.27 | 105.83 | 0.00  | 0.00   | 7621.30 | TD          |

## DESIGN TARGET DETAILS

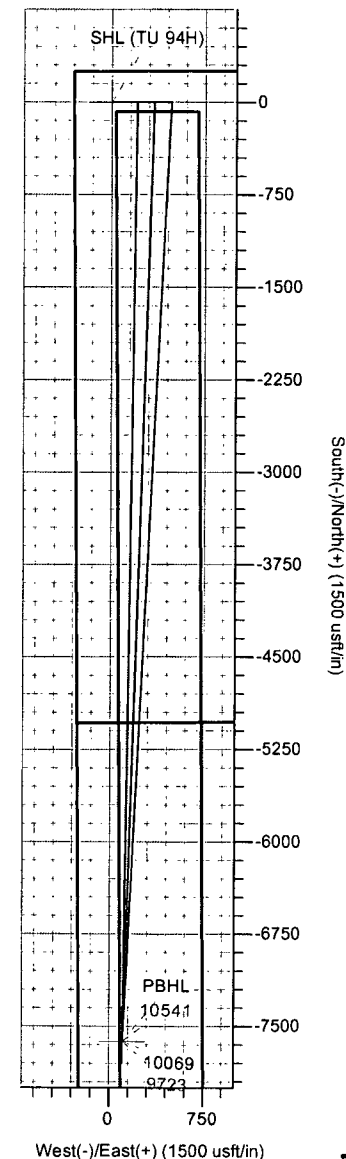
| Name          | TVD      | +N/-S    | +E/-W  | Northing  | Easting   | Latitude         | Longitude        |
|---------------|----------|----------|--------|-----------|-----------|------------------|------------------|
| SHL (TU 94H)  | 0.00     | 0.00     | 0.00   | 472548.18 | 777882.73 | 32° 17' 48.434 N | 103° 34' 4.038 W |
| PBHL (TU 94H) | 10541.00 | -7623.27 | 105.83 | 464924.91 | 777988.56 | 32° 16' 32.994 N | 103° 34' 3.439 W |

## FORMATION TOP DETAILS

| TVDPath  | MDPath   | Formation     | DipAngle | DipDir |
|----------|----------|---------------|----------|--------|
| 1358.00  | 1358.00  | Rustler       | 0.00     |        |
| 1618.00  | 1618.00  | Top Salt      | 0.00     |        |
| 4941.00  | 4941.00  | Base Salt     | 0.00     |        |
| 5213.00  | 5213.00  | Delaware      | 0.00     |        |
| 6172.00  | 6174.86  | Cherry Canyon | 0.00     |        |
| 8870.00  | 8878.46  | Lwr Br Cyn    | 0.00     |        |
| 9107.00  | 9115.46  | Bone Spring   | 0.00     |        |
| 9249.00  | 9257.46  | Mid Leo Tp    | 0.00     |        |
| 9671.00  | 9679.46  | Leonard B     | 0.00     |        |
| 10019.00 | 10027.46 | Leonard C     | 0.00     |        |
| 10252.00 | 10266.42 | 1st BS SS     | 0.00     |        |



Vertical Section at 180.73° (1250 usft/in)



South(-)/North(+) (1500 usft/in)

30-025-42679



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

Plan: Plan #2 (94H/OH)  
Thistle Unit  
Created By: Brady Deaver  
Date: 14:44, July 01 2015  
Approved: \_\_\_\_\_  
Date: \_\_\_\_\_

JUL 14 2015

# **DEVON ENERGY**

**Lea County, NM (NAD-83)**

**Thistle Unit**

**94H**

**OH**

**Plan: Plan #2**

## **Standard Planning Report**

**01 July, 2015**

# LEAM Drilling Systems LLC

## Planning Report

|                  |                           |                                     |                                                            |
|------------------|---------------------------|-------------------------------------|------------------------------------------------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well 94H                                                   |
| <b>Company:</b>  | DEVON ENERGY              | <b>TVD Reference:</b>               | 3713.3' GL + 25' RKB @ 3738.30usft<br>(Original Well Elev) |
| <b>Project:</b>  | Lea County, NM (NAD-83)   | <b>MD Reference:</b>                | 3713.3' GL + 25' RKB @ 3738.30usft<br>(Original Well Elev) |
| <b>Site:</b>     | Thistle Unit              | <b>North Reference:</b>             | Grid                                                       |
| <b>Well:</b>     | 94H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature                                          |
| <b>Wellbore:</b> | OH                        |                                     |                                                            |
| <b>Design:</b>   | Plan #2                   |                                     |                                                            |

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

|                       |              |              |                 |                   |                   |
|-----------------------|--------------|--------------|-----------------|-------------------|-------------------|
| Site                  | Thistle Unit |              |                 |                   |                   |
| Site Position:        |              | Northing:    | 468,026.90 usft | Latitude:         | 32° 17' 3.494 N   |
| From:                 | Map          | Easting:     | 780,722.56 usft | Longitude:        | 103° 33' 31.335 W |
| Position Uncertainty: | 0.00 usft    | Slot Radius: | 13-3/16 "       | Grid Convergence: | 0.41 °            |

|                      |       |                |                     |                 |               |                  |
|----------------------|-------|----------------|---------------------|-----------------|---------------|------------------|
| Well                 | 94H   |                |                     |                 |               |                  |
| Well Position        | +N/-S | 4,521.28 usft  | Northing:           | 472,548.18 usft | Latitude:     | 32° 17' 48.434 N |
|                      | +E/-W | -2,839.83 usft | Easting:            | 777,882.73 usft | Longitude:    | 103° 34' 4.038 W |
| Position Uncertainty |       | 0.00 usft      | Wellhead Elevation: | 3,738.30 usft   | Ground Level: | 3,713.30 usft    |

|                  |                   |                    |                            |                          |                                |
|------------------|-------------------|--------------------|----------------------------|--------------------------|--------------------------------|
| <b>Wellbore</b>  | OH                |                    |                            |                          |                                |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination<br/>(°)</b> | <b>Dip Angle<br/>(°)</b> | <b>Field Strength<br/>(nT)</b> |
|                  | BGGM2014          | 6/12/2015          | 7.28                       | 60.15                    | 48,203                         |

|                          |                                    |                         |                         |                          |
|--------------------------|------------------------------------|-------------------------|-------------------------|--------------------------|
| <b>Design</b>            | Plan #2                            |                         |                         |                          |
| <b>Audit Notes:</b>      |                                    |                         |                         |                          |
| <b>Version:</b>          | <b>Phase:</b>                      | PLAN                    | <b>Tie On Depth:</b>    | 0.00                     |
| <b>Vertical Section:</b> | <b>Depth From (TVD)<br/>(usft)</b> | <b>+N/-S<br/>(usft)</b> | <b>+E/-W<br/>(usft)</b> | <b>Direction<br/>(°)</b> |
|                          | 0.00                               | 0.00                    | 0.00                    | 180.73                   |

| Plan Sections               |                    |                |                             |                 |                 |                               |                              |                             |            |               |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|---------------|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) | TFO<br>(°) | Target        |
| 0.00                        | 0.00               | 0.00           | 0.00                        | 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       |               |
| 5,533.33                    | 5.00               | 90.00          | 5,532.91                    | 0.00            | 14.54           | 1.50                          | 1.50                         | 0.00                        | 90.00      |               |
| 7,533.33                    | 5.00               | 90.00          | 7,525.30                    | 0.00            | 188.85          | 0.00                          | 0.00                         | 0.00                        | 0.00       |               |
| 7,866.67                    | 0.00               | 0.00           | 7,858.21                    | 0.00            | 203.38          | 1.50                          | -1.50                        | 0.00                        | 180.00     |               |
| 10,038.52                   | 0.00               | 0.00           | 10,030.06                   | 0.00            | 203.38          | 0.00                          | 0.00                         | 0.00                        | 0.00       |               |
| 10,943.56                   | 90.50              | 180.73         | 10,603.00                   | -577.95         | 195.99          | 10.00                         | 10.00                        | -19.81                      | 180.73     |               |
| 17,989.73                   | 90.50              | 180.73         | 10,541.00                   | -7,623.27       | 105.83          | 0.00                          | 0.00                         | 0.00                        | 0.00       | PBHL (TU 94H) |

# LEAM Drilling Systems LLC

## Planning Report

|                  |                           |                                     |                                                            |
|------------------|---------------------------|-------------------------------------|------------------------------------------------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well 94H                                                   |
| <b>Company:</b>  | DEVON ENERGY              | <b>TVD Reference:</b>               | 3713.3' GL + 25' RKB @ 3738.30usft<br>(Original Well Elev) |
| <b>Project:</b>  | Lea County, NM (NAD-83)   | <b>MD Reference:</b>                | 3713.3' GL + 25' RKB @ 3738.30usft<br>(Original Well Elev) |
| <b>Site:</b>     | Thistle Unit              | <b>North Reference:</b>             | Grid                                                       |
| <b>Well:</b>     | 94H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature                                          |
| <b>Wellbore:</b> | OH                        |                                     |                                                            |
| <b>Design:</b>   | Plan #2                   |                                     |                                                            |

| Planned Survey              |                    |                |                             |                 |                 |                               |                               |                              |                             |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
| 0.00                        | 0.00               | 0.00           | 0.00                        | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| <b>SHL (TU 94H)</b>         |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 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                        |
| 1,358.00                    | 0.00               | 0.00           | 1,358.00                    | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| <b>Rustler</b>              |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 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                        |
| 1,618.00                    | 0.00               | 0.00           | 1,618.00                    | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| <b>Top Salt</b>             |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 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                        |

# LEAM Drilling Systems LLC

## Planning Report

|                  |                           |                                     |                                                            |
|------------------|---------------------------|-------------------------------------|------------------------------------------------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well 94H                                                   |
| <b>Company:</b>  | DEVON ENERGY              | <b>TVD Reference:</b>               | 3713.3' GL + 25' RKB @ 3738.30usft<br>(Original Well Elev) |
| <b>Project:</b>  | Lea County, NM (NAD-83)   | <b>MD Reference:</b>                | 3713.3' GL + 25' RKB @ 3738.30usft<br>(Original Well Elev) |
| <b>Site:</b>     | Thistle Unit              | <b>North Reference:</b>             | Grid                                                       |
| <b>Well:</b>     | 94H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature                                          |
| <b>Wellbore:</b> | OH                        |                                     |                                                            |
| <b>Design:</b>   | Plan #2                   |                                     |                                                            |

### Planned Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 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                        |
| 4,941.00                    | 0.00               | 0.00           | 4,941.00                    | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| <b>Base Salt</b>            |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 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                        |
| <b>Nudge</b>                |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 5,213.00                    | 0.20               | 90.00          | 5,213.00                    | 0.00            | 0.02            | 0.00                          | 1.50                          | 1.50                         | 0.00                        |
| <b>Delaware</b>             |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 5,300.00                    | 1.50               | 90.00          | 5,299.99                    | 0.00            | 1.31            | -0.02                         | 1.50                          | 1.50                         | 0.00                        |
| 5,400.00                    | 3.00               | 90.00          | 5,399.91                    | 0.00            | 5.23            | -0.07                         | 1.50                          | 1.50                         | 0.00                        |
| 5,500.00                    | 4.50               | 90.00          | 5,499.69                    | 0.00            | 11.77           | -0.15                         | 1.50                          | 1.50                         | 0.00                        |
| 5,533.33                    | 5.00               | 90.00          | 5,532.91                    | 0.00            | 14.53           | -0.19                         | 1.50                          | 1.50                         | 0.00                        |
| <b>Hold</b>                 |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 5,600.00                    | 5.00               | 90.00          | 5,599.32                    | 0.00            | 20.35           | -0.26                         | 0.00                          | 0.00                         | 0.00                        |
| 5,700.00                    | 5.00               | 90.00          | 5,698.94                    | 0.00            | 29.06           | -0.37                         | 0.00                          | 0.00                         | 0.00                        |
| 5,800.00                    | 5.00               | 90.00          | 5,798.56                    | 0.00            | 37.78           | -0.48                         | 0.00                          | 0.00                         | 0.00                        |
| 5,900.00                    | 5.00               | 90.00          | 5,898.18                    | 0.00            | 46.49           | -0.59                         | 0.00                          | 0.00                         | 0.00                        |
| 6,000.00                    | 5.00               | 90.00          | 5,997.80                    | 0.00            | 55.21           | -0.70                         | 0.00                          | 0.00                         | 0.00                        |
| 6,100.00                    | 5.00               | 90.00          | 6,097.42                    | 0.00            | 63.92           | -0.81                         | 0.00                          | 0.00                         | 0.00                        |
| 6,174.86                    | 5.00               | 90.00          | 6,172.00                    | 0.00            | 70.45           | -0.90                         | 0.00                          | 0.00                         | 0.00                        |
| <b>Cherry Canyon</b>        |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 6,200.00                    | 5.00               | 90.00          | 6,197.04                    | 0.00            | 72.64           | -0.93                         | 0.00                          | 0.00                         | 0.00                        |
| 6,300.00                    | 5.00               | 90.00          | 6,296.66                    | 0.00            | 81.35           | -1.04                         | 0.00                          | 0.00                         | 0.00                        |
| 6,400.00                    | 5.00               | 90.00          | 6,396.28                    | 0.00            | 90.07           | -1.15                         | 0.00                          | 0.00                         | 0.00                        |
| 6,500.00                    | 5.00               | 90.00          | 6,495.90                    | 0.00            | 98.79           | -1.26                         | 0.00                          | 0.00                         | 0.00                        |
| 6,600.00                    | 5.00               | 90.00          | 6,595.52                    | 0.00            | 107.50          | -1.37                         | 0.00                          | 0.00                         | 0.00                        |
| 6,700.00                    | 5.00               | 90.00          | 6,695.14                    | 0.00            | 116.22          | -1.48                         | 0.00                          | 0.00                         | 0.00                        |
| 6,800.00                    | 5.00               | 90.00          | 6,794.76                    | 0.00            | 124.93          | -1.59                         | 0.00                          | 0.00                         | 0.00                        |
| 6,900.00                    | 5.00               | 90.00          | 6,894.38                    | 0.00            | 133.65          | -1.70                         | 0.00                          | 0.00                         | 0.00                        |
| 7,000.00                    | 5.00               | 90.00          | 6,994.00                    | 0.00            | 142.36          | -1.81                         | 0.00                          | 0.00                         | 0.00                        |
| 7,100.00                    | 5.00               | 90.00          | 7,093.62                    | 0.00            | 151.08          | -1.92                         | 0.00                          | 0.00                         | 0.00                        |
| 7,200.00                    | 5.00               | 90.00          | 7,193.24                    | 0.00            | 159.79          | -2.04                         | 0.00                          | 0.00                         | 0.00                        |
| 7,300.00                    | 5.00               | 90.00          | 7,292.85                    | 0.00            | 168.51          | -2.15                         | 0.00                          | 0.00                         | 0.00                        |
| 7,400.00                    | 5.00               | 90.00          | 7,392.47                    | 0.00            | 177.23          | -2.26                         | 0.00                          | 0.00                         | 0.00                        |
| 7,500.00                    | 5.00               | 90.00          | 7,492.09                    | 0.00            | 185.94          | -2.37                         | 0.00                          | 0.00                         | 0.00                        |
| 7,533.33                    | 5.00               | 90.00          | 7,525.30                    | 0.00            | 188.85          | -2.41                         | 0.00                          | 0.00                         | 0.00                        |
| <b>Drop</b>                 |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 7,600.00                    | 4.00               | 90.00          | 7,591.76                    | 0.00            | 194.08          | -2.47                         | 1.50                          | -1.50                        | 0.00                        |
| 7,700.00                    | 2.50               | 90.00          | 7,691.60                    | 0.00            | 199.75          | -2.54                         | 1.50                          | -1.50                        | 0.00                        |
| 7,800.00                    | 1.00               | 90.00          | 7,791.55                    | 0.00            | 202.80          | -2.58                         | 1.50                          | -1.50                        | 0.00                        |
| 7,866.67                    | 0.00               | 0.00           | 7,858.21                    | 0.00            | 203.38          | -2.59                         | 1.50                          | -1.50                        | 0.00                        |
| <b>Hold</b>                 |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 7,900.00                    | 0.00               | 0.00           | 7,891.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 8,000.00                    | 0.00               | 0.00           | 7,991.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 8,100.00                    | 0.00               | 0.00           | 8,091.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 8,200.00                    | 0.00               | 0.00           | 8,191.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 8,300.00                    | 0.00               | 0.00           | 8,291.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 8,400.00                    | 0.00               | 0.00           | 8,391.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |

# LEAM Drilling Systems LLC

## Planning Report

|                  |                           |                                     |                                                            |
|------------------|---------------------------|-------------------------------------|------------------------------------------------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well 94H                                                   |
| <b>Company:</b>  | DEVON ENERGY              | <b>TVD Reference:</b>               | 3713.3' GL + 25' RKB @ 3738.30usft<br>(Original Well Elev) |
| <b>Project:</b>  | Lea County, NM (NAD-83)   | <b>MD Reference:</b>                | 3713.3' GL + 25' RKB @ 3738.30usft<br>(Original Well Elev) |
| <b>Site:</b>     | Thistle Unit              | <b>North Reference:</b>             | Grid                                                       |
| <b>Well:</b>     | 94H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature                                          |
| <b>Wellbore:</b> | OH                        |                                     |                                                            |
| <b>Design:</b>   | Plan #2                   |                                     |                                                            |

### Planned Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 8,500.00                    | 0.00               | 0.00           | 8,491.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 8,600.00                    | 0.00               | 0.00           | 8,591.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 8,700.00                    | 0.00               | 0.00           | 8,691.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 8,800.00                    | 0.00               | 0.00           | 8,791.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 8,878.46                    | 0.00               | 0.00           | 8,870.00                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| <b>Lwr Br Cyn</b>           |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 8,900.00                    | 0.00               | 0.00           | 8,891.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 9,000.00                    | 0.00               | 0.00           | 8,991.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 9,100.00                    | 0.00               | 0.00           | 9,091.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 9,115.46                    | 0.00               | 0.00           | 9,107.00                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| <b>Bond Spring</b>          |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 9,200.00                    | 0.00               | 0.00           | 9,191.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 9,257.46                    | 0.00               | 0.00           | 9,249.00                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| <b>Mid Leo Tp</b>           |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 9,300.00                    | 0.00               | 0.00           | 9,291.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 9,400.00                    | 0.00               | 0.00           | 9,391.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 9,500.00                    | 0.00               | 0.00           | 9,491.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 9,600.00                    | 0.00               | 0.00           | 9,591.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 9,679.46                    | 0.00               | 0.00           | 9,671.00                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| <b>Leonard B</b>            |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 9,700.00                    | 0.00               | 0.00           | 9,691.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 9,800.00                    | 0.00               | 0.00           | 9,791.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 9,900.00                    | 0.00               | 0.00           | 9,891.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 10,000.00                   | 0.00               | 0.00           | 9,991.54                    | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| 10,027.46                   | 0.00               | 0.00           | 10,019.00                   | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| <b>Leonard C</b>            |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 10,038.52                   | 0.00               | 0.00           | 10,030.06                   | 0.00            | 203.38          | -2.59                         | 0.00                          | 0.00                         | 0.00                        |
| <b>KOP 10° DLS</b>          |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 10,050.00                   | 1.15               | 180.73         | 10,041.54                   | -0.12           | 203.38          | -2.48                         | 10.00                         | 10.00                        | 0.00                        |
| 10,100.00                   | 6.15               | 180.73         | 10,091.43                   | -3.30           | 203.34          | 0.70                          | 10.00                         | 10.00                        | 0.00                        |
| 10,150.00                   | 11.15              | 180.73         | 10,140.84                   | -10.81          | 203.24          | 8.22                          | 10.00                         | 10.00                        | 0.00                        |
| 10,200.00                   | 16.15              | 180.73         | 10,189.41                   | -22.60          | 203.09          | 20.01                         | 10.00                         | 10.00                        | 0.00                        |
| 10,250.00                   | 21.15              | 180.73         | 10,236.77                   | -38.59          | 202.89          | 36.00                         | 10.00                         | 10.00                        | 0.00                        |
| 10,266.42                   | 22.79              | 180.73         | 10,252.00                   | -44.73          | 202.81          | 42.14                         | 10.00                         | 10.00                        | 0.00                        |
| <b>1st BS SS</b>            |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 10,300.00                   | 26.15              | 180.73         | 10,282.56                   | -58.63          | 202.63          | 56.05                         | 10.00                         | 10.00                        | 0.00                        |
| 10,350.00                   | 31.15              | 180.73         | 10,326.43                   | -82.60          | 202.32          | 80.01                         | 10.00                         | 10.00                        | 0.00                        |
| 10,400.00                   | 36.15              | 180.73         | 10,368.04                   | -110.29         | 201.97          | 107.71                        | 10.00                         | 10.00                        | 0.00                        |
| 10,450.00                   | 41.15              | 180.73         | 10,407.07                   | -141.50         | 201.57          | 138.92                        | 10.00                         | 10.00                        | 0.00                        |
| 10,500.00                   | 46.15              | 180.73         | 10,443.24                   | -176.00         | 201.13          | 173.43                        | 10.00                         | 10.00                        | 0.00                        |
| 10,550.00                   | 51.15              | 180.73         | 10,476.26                   | -213.52         | 200.65          | 210.95                        | 10.00                         | 10.00                        | 0.00                        |
| 10,600.00                   | 56.15              | 180.73         | 10,505.89                   | -253.77         | 200.13          | 251.20                        | 10.00                         | 10.00                        | 0.00                        |
| 10,650.00                   | 61.15              | 180.73         | 10,531.90                   | -296.46         | 199.59          | 293.89                        | 10.00                         | 10.00                        | 0.00                        |
| 10,700.00                   | 66.15              | 180.73         | 10,554.09                   | -341.24         | 199.02          | 338.68                        | 10.00                         | 10.00                        | 0.00                        |
| 10,750.00                   | 71.15              | 180.73         | 10,572.28                   | -387.79         | 198.42          | 385.23                        | 10.00                         | 10.00                        | 0.00                        |
| 10,800.00                   | 76.15              | 180.73         | 10,586.36                   | -435.75         | 197.81          | 433.20                        | 10.00                         | 10.00                        | 0.00                        |
| 10,850.00                   | 81.15              | 180.73         | 10,596.19                   | -484.75         | 197.18          | 482.20                        | 10.00                         | 10.00                        | 0.00                        |
| 10,900.00                   | 86.15              | 180.73         | 10,601.72                   | -534.43         | 196.54          | 531.88                        | 10.00                         | 10.00                        | 0.00                        |
| 10,943.56                   | 90.50              | 180.73         | 10,603.00                   | -577.95         | 195.99          | 575.41                        | 10.00                         | 10.00                        | 0.00                        |
| <b>LP</b>                   |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 11,000.00                   | 90.50              | 180.73         | 10,602.50                   | -634.39         | 195.26          | 631.85                        | 0.00                          | 0.00                         | 0.00                        |

# LEAM Drilling Systems LLC

## Planning Report

|           |                           |                              |                                                            |
|-----------|---------------------------|------------------------------|------------------------------------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well 94H                                                   |
| Company:  | DEVON ENERGY              | TVD Reference:               | 3713.3' GL + 25' RKB @ 3738.30usft<br>(Original Well Elev) |
| Project:  | Lea County, NM (NAD-83)   | MD Reference:                | 3713.3' GL + 25' RKB @ 3738.30usft<br>(Original Well Elev) |
| Site:     | Thistle Unit              | North Reference:             | Grid                                                       |
| Well:     | 94H                       | Survey Calculation Method:   | Minimum Curvature                                          |
| Wellbore: | OH                        |                              |                                                            |
| Design:   | Plan #2                   |                              |                                                            |

| 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) |
| 11,100.00             | 90.50           | 180.73      | 10,601.62             | -734.37      | 193.98       | 731.84                  | 0.00                    | 0.00                   | 0.00                  |
| 11,200.00             | 90.50           | 180.73      | 10,600.74             | -834.36      | 192.70       | 831.84                  | 0.00                    | 0.00                   | 0.00                  |
| 11,300.00             | 90.50           | 180.73      | 10,599.86             | -934.35      | 191.43       | 931.84                  | 0.00                    | 0.00                   | 0.00                  |
| 11,400.00             | 90.50           | 180.73      | 10,598.98             | -1,034.34    | 190.15       | 1,031.83                | 0.00                    | 0.00                   | 0.00                  |
| 11,500.00             | 90.50           | 180.73      | 10,598.10             | -1,134.33    | 188.87       | 1,131.83                | 0.00                    | 0.00                   | 0.00                  |
| 11,600.00             | 90.50           | 180.73      | 10,597.22             | -1,234.31    | 187.59       | 1,231.82                | 0.00                    | 0.00                   | 0.00                  |
| 11,700.00             | 90.50           | 180.73      | 10,596.34             | -1,334.30    | 186.31       | 1,331.82                | 0.00                    | 0.00                   | 0.00                  |
| 11,800.00             | 90.50           | 180.73      | 10,595.46             | -1,434.29    | 185.03       | 1,431.82                | 0.00                    | 0.00                   | 0.00                  |
| 11,900.00             | 90.50           | 180.73      | 10,594.58             | -1,534.28    | 183.75       | 1,531.81                | 0.00                    | 0.00                   | 0.00                  |
| 12,000.00             | 90.50           | 180.73      | 10,593.70             | -1,634.27    | 182.47       | 1,631.81                | 0.00                    | 0.00                   | 0.00                  |
| 12,100.00             | 90.50           | 180.73      | 10,592.82             | -1,734.25    | 181.19       | 1,731.81                | 0.00                    | 0.00                   | 0.00                  |
| 12,200.00             | 90.50           | 180.73      | 10,591.94             | -1,834.24    | 179.91       | 1,831.80                | 0.00                    | 0.00                   | 0.00                  |
| 12,300.00             | 90.50           | 180.73      | 10,591.06             | -1,934.23    | 178.63       | 1,931.80                | 0.00                    | 0.00                   | 0.00                  |
| 12,400.00             | 90.50           | 180.73      | 10,590.18             | -2,034.22    | 177.35       | 2,031.79                | 0.00                    | 0.00                   | 0.00                  |
| 12,500.00             | 90.50           | 180.73      | 10,589.30             | -2,134.21    | 176.07       | 2,131.79                | 0.00                    | 0.00                   | 0.00                  |
| 12,600.00             | 90.50           | 180.73      | 10,588.42             | -2,234.19    | 174.79       | 2,231.79                | 0.00                    | 0.00                   | 0.00                  |
| 12,700.00             | 90.50           | 180.73      | 10,587.54             | -2,334.18    | 173.51       | 2,331.78                | 0.00                    | 0.00                   | 0.00                  |
| 12,800.00             | 90.50           | 180.73      | 10,586.66             | -2,434.17    | 172.23       | 2,431.78                | 0.00                    | 0.00                   | 0.00                  |
| 12,900.00             | 90.50           | 180.73      | 10,585.78             | -2,534.16    | 170.95       | 2,531.77                | 0.00                    | 0.00                   | 0.00                  |
| 13,000.00             | 90.50           | 180.73      | 10,584.90             | -2,634.15    | 169.67       | 2,631.77                | 0.00                    | 0.00                   | 0.00                  |
| 13,100.00             | 90.50           | 180.73      | 10,584.02             | -2,734.13    | 168.39       | 2,731.77                | 0.00                    | 0.00                   | 0.00                  |
| 13,200.00             | 90.50           | 180.73      | 10,583.14             | -2,834.12    | 167.11       | 2,831.76                | 0.00                    | 0.00                   | 0.00                  |
| 13,300.00             | 90.50           | 180.73      | 10,582.26             | -2,934.11    | 165.84       | 2,931.76                | 0.00                    | 0.00                   | 0.00                  |
| 13,400.00             | 90.50           | 180.73      | 10,581.38             | -3,034.10    | 164.56       | 3,031.75                | 0.00                    | 0.00                   | 0.00                  |
| 13,500.00             | 90.50           | 180.73      | 10,580.50             | -3,134.09    | 163.28       | 3,131.75                | 0.00                    | 0.00                   | 0.00                  |
| 13,600.00             | 90.50           | 180.73      | 10,579.62             | -3,234.07    | 162.00       | 3,231.75                | 0.00                    | 0.00                   | 0.00                  |
| 13,700.00             | 90.50           | 180.73      | 10,578.74             | -3,334.06    | 160.72       | 3,331.74                | 0.00                    | 0.00                   | 0.00                  |
| 13,800.00             | 90.50           | 180.73      | 10,577.86             | -3,434.05    | 159.44       | 3,431.74                | 0.00                    | 0.00                   | 0.00                  |
| 13,900.00             | 90.50           | 180.73      | 10,576.98             | -3,534.04    | 158.16       | 3,531.74                | 0.00                    | 0.00                   | 0.00                  |
| 14,000.00             | 90.50           | 180.73      | 10,576.10             | -3,634.03    | 156.88       | 3,631.73                | 0.00                    | 0.00                   | 0.00                  |
| 14,100.00             | 90.50           | 180.73      | 10,575.22             | -3,734.01    | 155.60       | 3,731.73                | 0.00                    | 0.00                   | 0.00                  |
| 14,200.00             | 90.50           | 180.73      | 10,574.34             | -3,834.00    | 154.32       | 3,831.72                | 0.00                    | 0.00                   | 0.00                  |
| 14,300.00             | 90.50           | 180.73      | 10,573.46             | -3,933.99    | 153.04       | 3,931.72                | 0.00                    | 0.00                   | 0.00                  |
| 14,400.00             | 90.50           | 180.73      | 10,572.58             | -4,033.98    | 151.76       | 4,031.72                | 0.00                    | 0.00                   | 0.00                  |
| 14,500.00             | 90.50           | 180.73      | 10,571.70             | -4,133.97    | 150.48       | 4,131.71                | 0.00                    | 0.00                   | 0.00                  |
| 14,600.00             | 90.50           | 180.73      | 10,570.82             | -4,233.95    | 149.20       | 4,231.71                | 0.00                    | 0.00                   | 0.00                  |
| 14,700.00             | 90.50           | 180.73      | 10,569.94             | -4,333.94    | 147.92       | 4,331.70                | 0.00                    | 0.00                   | 0.00                  |
| 14,800.00             | 90.50           | 180.73      | 10,569.07             | -4,433.93    | 146.64       | 4,431.70                | 0.00                    | 0.00                   | 0.00                  |
| 14,900.00             | 90.50           | 180.73      | 10,568.19             | -4,533.92    | 145.36       | 4,531.70                | 0.00                    | 0.00                   | 0.00                  |
| 15,000.00             | 90.50           | 180.73      | 10,567.31             | -4,633.90    | 144.08       | 4,631.69                | 0.00                    | 0.00                   | 0.00                  |
| 15,100.00             | 90.50           | 180.73      | 10,566.43             | -4,733.89    | 142.80       | 4,731.69                | 0.00                    | 0.00                   | 0.00                  |
| 15,200.00             | 90.50           | 180.73      | 10,565.55             | -4,833.88    | 141.52       | 4,831.69                | 0.00                    | 0.00                   | 0.00                  |
| 15,300.00             | 90.50           | 180.73      | 10,564.67             | -4,933.87    | 140.25       | 4,931.68                | 0.00                    | 0.00                   | 0.00                  |
| 15,400.00             | 90.50           | 180.73      | 10,563.79             | -5,033.86    | 138.97       | 5,031.68                | 0.00                    | 0.00                   | 0.00                  |
| 15,500.00             | 90.50           | 180.73      | 10,562.91             | -5,133.84    | 137.69       | 5,131.67                | 0.00                    | 0.00                   | 0.00                  |
| 15,600.00             | 90.50           | 180.73      | 10,562.03             | -5,233.83    | 136.41       | 5,231.67                | 0.00                    | 0.00                   | 0.00                  |
| 15,700.00             | 90.50           | 180.73      | 10,561.15             | -5,333.82    | 135.13       | 5,331.67                | 0.00                    | 0.00                   | 0.00                  |
| 15,800.00             | 90.50           | 180.73      | 10,560.27             | -5,433.81    | 133.85       | 5,431.66                | 0.00                    | 0.00                   | 0.00                  |
| 15,900.00             | 90.50           | 180.73      | 10,559.39             | -5,533.80    | 132.57       | 5,531.66                | 0.00                    | 0.00                   | 0.00                  |
| 16,000.00             | 90.50           | 180.73      | 10,558.51             | -5,633.78    | 131.29       | 5,631.65                | 0.00                    | 0.00                   | 0.00                  |
| 16,100.00             | 90.50           | 180.73      | 10,557.63             | -5,733.77    | 130.01       | 5,731.65                | 0.00                    | 0.00                   | 0.00                  |
| 16,200.00             | 90.50           | 180.73      | 10,556.75             | -5,833.76    | 128.73       | 5,831.65                | 0.00                    | 0.00                   | 0.00                  |

# LEAM Drilling Systems LLC

## Planning Report

|           |                           |                              |                                                            |
|-----------|---------------------------|------------------------------|------------------------------------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well 94H                                                   |
| Company:  | DEVON ENERGY              | TVD Reference:               | 3713.3' GL + 25' RKB @ 3738.30usft<br>(Original Well Elev) |
| Project:  | Lea County, NM (NAD-83)   | MD Reference:                | 3713.3' GL + 25' RKB @ 3738.30usft<br>(Original Well Elev) |
| Site:     | Thistle Unit              | North Reference:             | Grid                                                       |
| Well:     | 94H                       | Survey Calculation Method:   | Minimum Curvature                                          |
| Wellbore: | OH                        |                              |                                                            |
| Design:   | Plan #2                   |                              |                                                            |

### 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 16,300.00             | 90.50           | 180.73      | 10,555.87             | -5,933.75    | 127.45       | 5,931.64                | 0.00                    | 0.00                   | 0.00                  |
| 16,400.00             | 90.50           | 180.73      | 10,554.99             | -6,033.74    | 126.17       | 6,031.64                | 0.00                    | 0.00                   | 0.00                  |
| 16,500.00             | 90.50           | 180.73      | 10,554.11             | -6,133.72    | 124.89       | 6,131.63                | 0.00                    | 0.00                   | 0.00                  |
| 16,600.00             | 90.50           | 180.73      | 10,553.23             | -6,233.71    | 123.61       | 6,231.63                | 0.00                    | 0.00                   | 0.00                  |
| 16,700.00             | 90.50           | 180.73      | 10,552.35             | -6,333.70    | 122.33       | 6,331.63                | 0.00                    | 0.00                   | 0.00                  |
| 16,800.00             | 90.50           | 180.73      | 10,551.47             | -6,433.69    | 121.05       | 6,431.62                | 0.00                    | 0.00                   | 0.00                  |
| 16,900.00             | 90.50           | 180.73      | 10,550.59             | -6,533.68    | 119.77       | 6,531.62                | 0.00                    | 0.00                   | 0.00                  |
| 17,000.00             | 90.50           | 180.73      | 10,549.71             | -6,633.66    | 118.49       | 6,631.62                | 0.00                    | 0.00                   | 0.00                  |
| 17,100.00             | 90.50           | 180.73      | 10,548.83             | -6,733.65    | 117.21       | 6,731.61                | 0.00                    | 0.00                   | 0.00                  |
| 17,200.00             | 90.50           | 180.73      | 10,547.95             | -6,833.64    | 115.93       | 6,831.61                | 0.00                    | 0.00                   | 0.00                  |
| 17,300.00             | 90.50           | 180.73      | 10,547.07             | -6,933.63    | 114.66       | 6,931.60                | 0.00                    | 0.00                   | 0.00                  |
| 17,400.00             | 90.50           | 180.73      | 10,546.19             | -7,033.62    | 113.38       | 7,031.60                | 0.00                    | 0.00                   | 0.00                  |
| 17,500.00             | 90.50           | 180.73      | 10,545.31             | -7,133.60    | 112.10       | 7,131.60                | 0.00                    | 0.00                   | 0.00                  |
| 17,600.00             | 90.50           | 180.73      | 10,544.43             | -7,233.59    | 110.82       | 7,231.59                | 0.00                    | 0.00                   | 0.00                  |
| 17,700.00             | 90.50           | 180.73      | 10,543.55             | -7,333.58    | 109.54       | 7,331.59                | 0.00                    | 0.00                   | 0.00                  |
| 17,800.00             | 90.50           | 180.73      | 10,542.67             | -7,433.57    | 108.26       | 7,431.58                | 0.00                    | 0.00                   | 0.00                  |
| 17,900.00             | 90.50           | 180.73      | 10,541.79             | -7,533.56    | 106.98       | 7,531.58                | 0.00                    | 0.00                   | 0.00                  |
| 17,989.73             | 90.50           | 180.73      | 10,541.00             | -7,623.27    | 105.83       | 7,621.30                | 0.00                    | 0.00                   | 0.00                  |

TD - PBHL (TU 94H)

### 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                   |               |              |            |              |              |                 |                |                  |                  |
| SHL (TU 94H)              | 0.00          | 0.00         | 0.00       | 0.00         | 0.00         | 472,548.18      | 777,882.73     | 32° 17' 48.434 N | 103° 34' 4.038 W |
| - plan hits target center |               |              |            |              |              |                 |                |                  |                  |
| - Point                   |               |              |            |              |              |                 |                |                  |                  |
| PBHL (TU 94H)             | 0.00          | 0.00         | 10,541.00  | -7,623.27    | 105.83       | 464,924.91      | 777,988.56     | 32° 16' 32.994 N | 103° 34' 3.439 W |
| - plan hits target center |               |              |            |              |              |                 |                |                  |                  |
| - Point                   |               |              |            |              |              |                 |                |                  |                  |

### Formations

| Measured Depth (usft) | Vertical Depth (usft) | Name          | Lithology | Dip (°) | Dip Direction (°) |
|-----------------------|-----------------------|---------------|-----------|---------|-------------------|
| 1,358.00              | 1,358.00              | Rustler       |           | 0.00    |                   |
| 1,618.00              | 1,618.00              | Top Salt      |           | 0.00    |                   |
| 4,941.00              | 4,941.00              | Base Salt     |           | 0.00    |                   |
| 5,213.00              | 5,213.00              | Delaware      |           | 0.00    |                   |
| 6,174.86              | 6,172.00              | Cherry Canyon |           | 0.00    |                   |
| 8,878.46              | 8,870.00              | Lwr Br Cyn    |           | 0.00    |                   |
| 9,115.46              | 9,107.00              | Bond Spring   |           | 0.00    |                   |
| 9,257.46              | 9,249.00              | Mid Leo Tp    |           | 0.00    |                   |
| 9,679.46              | 9,671.00              | Leonard B     |           | 0.00    |                   |
| 10,027.46             | 10,019.00             | Leonard C     |           | 0.00    |                   |
| 10,266.42             | 10,252.00             | 1st BS SS     |           | 0.00    |                   |

# LEAM Drilling Systems LLC

## Planning Report

|                  |                           |                                     |                                                            |
|------------------|---------------------------|-------------------------------------|------------------------------------------------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well 94H                                                   |
| <b>Company:</b>  | DEVON ENERGY              | <b>TVD Reference:</b>               | 3713.3' GL + 25' RKB @ 3738.30usft<br>(Original Well Elev) |
| <b>Project:</b>  | Lea County, NM (NAD-83)   | <b>MD Reference:</b>                | 3713.3' GL + 25' RKB @ 3738.30usft<br>(Original Well Elev) |
| <b>Site:</b>     | Thistle Unit              | <b>North Reference:</b>             | Grid                                                       |
| <b>Well:</b>     | 94H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature                                          |
| <b>Wellbore:</b> | OH                        |                                     |                                                            |
| <b>Design:</b>   | Plan #2                   |                                     |                                                            |

### Plan Annotations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment     |
|-----------------------------|-----------------------------|-------------------|-----------------|-------------|
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |             |
| 5,200.00                    | 5,200.00                    | 0.00              | 0.00            | Nudge       |
| 5,533.33                    | 5,532.91                    | 0.00              | 14.53           | Hold        |
| 7,533.33                    | 7,525.30                    | 0.00              | 188.85          | Drop        |
| 7,866.67                    | 7,858.21                    | 0.00              | 203.38          | Hold        |
| 10,038.52                   | 10,030.06                   | 0.00              | 203.38          | KOP 10° DLS |
| 10,943.56                   | 10,603.00                   | -577.95           | 195.99          | LP          |
| 17,989.73                   | 10,541.00                   | -7,623.27         | 105.83          | TD          |