

# **VERDAD RESOURCES**

**WATTENBERG FIELD  
2N-64W-28 GEORGENE PAD  
GEORGENE 2833-04H**

**Plan C**

**Plan: Design #2**

## **Standard Planning Report**

**28 July, 2022**

Project: WATTENBERG FIELD  
Site: 2N-64W-28 GEORGENE PAD  
Well: GEORGENE 2833-04H  
Wellbore: Plan C  
Design: Design #2

# VERDAD RESOURCES

## CASING DETAILS

| TVD     | MD      | Name   | Size  |
|---------|---------|--------|-------|
| 2328.00 | 2393.24 | 9 5/8" | 9-5/8 |

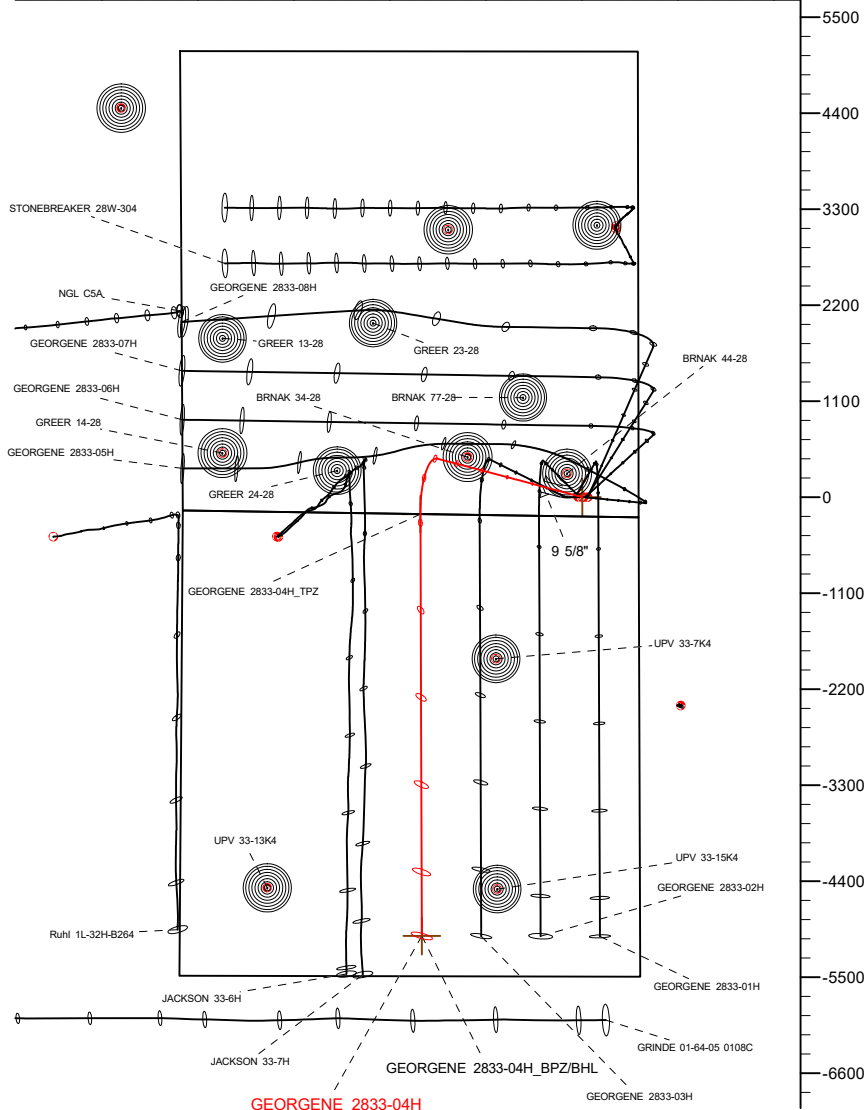
SHL  
222' FSL  
643' FEL

LP/TPZ  
0' FSL  
2500' FEL

BPZ/BHL  
461' FSL  
2500' FEL

West(-)/East(+) (2200 usft/in)

-5500 -4400 -3300 -2200 -1100 0 1100 2200

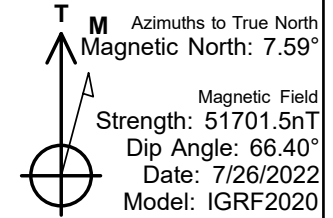
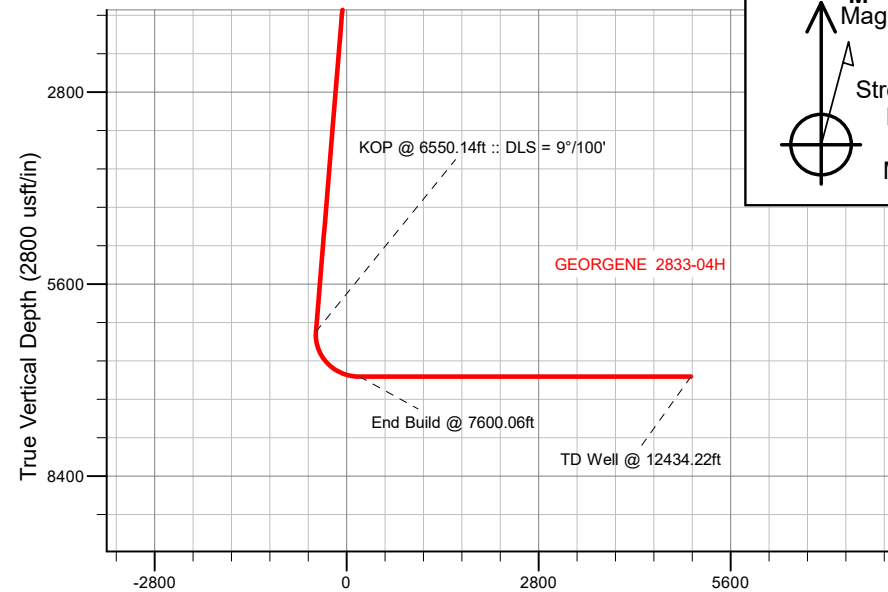


## SECTION DETAILS

| MD       | Inc   | Azi    | TVD     | +N/-S    | +E/-W    | Dleg | TFace   | VSect   |
|----------|-------|--------|---------|----------|----------|------|---------|---------|
| 0.00     | 0.00  | 0.00   | 0.00    | 0.00     | 0.00     | 0.00 | 0.00    | 0.00    |
| 397.50   | 0.00  | 0.00   | 397.50  | 0.00     | 0.00     | 0.00 | 0.00    | 0.00    |
| 1271.00  | 17.47 | 284.92 | 1257.53 | 34.02    | -127.69  | 2.00 | 284.92  | -34.47  |
| 6550.14  | 17.47 | 284.92 | 6293.16 | 442.07   | -1659.09 | 0.00 | 0.00    | -447.86 |
| 7600.06  | 90.00 | 179.80 | 6950.00 | -193.30  | -1856.39 | 9.00 | -104.46 | 186.82  |
| 12434.22 | 90.00 | 179.80 | 6950.00 | -5027.44 | -1839.19 | 0.00 | 0.00    | 5020.99 |

## WELLBORE TARGET DETAILS (LAT/LONG)

| Name                      | TVD     | Northing   | Easting    | Latitude  | Longitude   |
|---------------------------|---------|------------|------------|-----------|-------------|
| GEORGENE 2833-04H_SHL     | 0.00    | 1281682.28 | 3266001.24 | 40.102695 | -104.549066 |
| GEORGENE 2833-04H_TPZ     | 6950.00 | 1281468.95 | 3264147.04 | 40.102163 | -104.555702 |
| GEORGENE 2833-04H_BPZ/BHL | 6950.00 | 1276635.41 | 3264216.07 | 40.088893 | -104.555640 |



Vertical Section at 179.80° (2800 usft/in)

WELL DETAILS: GEORGENE 2833-04H

GL = 5018'

RKB = 24' @ 5042.00usft (RIG)

Plan: Design #2 (GEORGENE 2833-04H/Plan C)

Date: 7/29/2022

## Planning Report

|                  |                            |                                     |                               |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db | <b>Local Co-ordinate Reference:</b> | Well GEORGENE 2833-04H        |
| <b>Company:</b>  | VERDAD RESOURCES           | <b>TVD Reference:</b>               | RKB = 24' @ 5042.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD           | <b>MD Reference:</b>                | RKB = 24' @ 5042.00usft (RIG) |
| <b>Site:</b>     | 2N-64W-28 GEORGENE PAD     | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | GEORGENE 2833-04H          | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Plan C                     |                                     |                               |
| <b>Design:</b>   | Design #2                  |                                     |                               |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | WATTENBERG FIELD          |                      |                |
| <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>   | Colorado Northern Zone    |                      |                |

|                              |                        |                     |                   |                               |
|------------------------------|------------------------|---------------------|-------------------|-------------------------------|
| <b>Site</b>                  | 2N-64W-28 GEORGENE PAD |                     |                   |                               |
| <b>Site Position:</b>        |                        | <b>Northing:</b>    | 1,281,723.49 usft | <b>Latitude:</b> 40.102807    |
| <b>From:</b>                 | Lat/Long               | <b>Easting:</b>     | 3,266,028.51 usft | <b>Longitude:</b> -104.548967 |
| <b>Position Uncertainty:</b> | 0.00 usft              | <b>Slot Radius:</b> | 13-3/16 "         |                               |

|                             |                   |           |                            |                   |
|-----------------------------|-------------------|-----------|----------------------------|-------------------|
| <b>Well</b>                 | GEORGENE 2833-04H |           |                            |                   |
| <b>Well Position</b>        | <b>+N/-S</b>      | 0.00 usft | <b>Northing:</b>           | 1,281,682.28 usft |
|                             | <b>+E/-W</b>      | 0.00 usft | <b>Easting:</b>            | 3,266,001.24 usft |
| <b>Position Uncertainty</b> |                   | 3.28 usft | <b>Wellhead Elevation:</b> | usft              |
| <b>Grid Convergence:</b>    |                   | 0.61 °    | <b>Ground Level:</b>       | 5,018.00 usft     |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Plan C            |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF202013        | 7/26/2022          | 7.59                   | 66.40                | 51,701.47181231            |

|                          |                                |                     |                     |                      |      |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| <b>Design</b>            | Design #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) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Direction (°)</b> |      |
|                          | 0.00                           | 0.00                | 0.00                | 179.80               |      |

|                                 |                        |                          |                    |                               |  |
|---------------------------------|------------------------|--------------------------|--------------------|-------------------------------|--|
| <b>Plan Survey Tool Program</b> |                        | <b>Date</b>              | 7/28/2022          |                               |  |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>   | <b>Remarks</b>                |  |
| 1                               | 0.00                   | 2,328.00                 | Design #2 (Plan C) | ISCWSA MWD                    |  |
|                                 |                        |                          |                    | Fixed:v2:standard declination |  |
| 2                               | 2,328.00               | 12,434.22                | Design #2 (Plan C) | ISCWSA MWD                    |  |
|                                 |                        |                          |                    | Fixed:v2:standard declination |  |

Planning Report

|           |                            |                              |                               |
|-----------|----------------------------|------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well GEORGENE 2833-04H        |
| Company:  | VERDAD RESOURCES           | TVD Reference:               | RKB = 24' @ 5042.00usft (RIG) |
| Project:  | WATTENBERG FIELD           | MD Reference:                | RKB = 24' @ 5042.00usft (RIG) |
| Site:     | 2N-64W-28 GEORGENE PAD     | North Reference:             | True                          |
| Well:     | GEORGENE 2833-04H          | Survey Calculation Method:   | Minimum Curvature             |
| Wellbore: | Plan C                     |                              |                               |
| Design:   | Design #2                  |                              |                               |

| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |                  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target           |
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 397.50                | 0.00            | 0.00        | 397.50                | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 1,271.00              | 17.47           | 284.92      | 1,257.53              | 34.02        | -127.69      | 2.00                    | 2.00                   | 0.00                  | 284.92  |                  |
| 6,550.14              | 17.47           | 284.92      | 6,293.16              | 442.07       | -1,659.09    | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 7,600.06              | 90.00           | 179.80      | 6,950.00              | -193.30      | -1,856.39    | 9.00                    | 6.91                   | -10.01                | -104.46 |                  |
| 12,434.22             | 90.00           | 179.80      | 6,950.00              | -5,027.44    | -1,839.19    | 0.00                    | 0.00                   | 0.00                  | 0.00    | GEORGENE 2833-04 |

## Planning Report

|                  |                            |                                     |                               |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db | <b>Local Co-ordinate Reference:</b> | Well GEORGENE 2833-04H        |
| <b>Company:</b>  | VERDAD RESOURCES           | <b>TVD Reference:</b>               | RKB = 24' @ 5042.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD           | <b>MD Reference:</b>                | RKB = 24' @ 5042.00usft (RIG) |
| <b>Site:</b>     | 2N-64W-28 GEORGENE PAD     | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | GEORGENE 2833-04H          | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Plan C                     |                                     |                               |
| <b>Design:</b>   | Design #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) |
| 0.00                     | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 100.00                   | 0.00            | 0.00        | 100.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 200.00                   | 0.00            | 0.00        | 200.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 300.00                   | 0.00            | 0.00        | 300.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 397.50                   | 0.00            | 0.00        | 397.50                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| Begin Nudge @ 397.50ft   |                 |             |                       |              |              |                         |                         |                        |                       |
| 400.00                   | 0.05            | 284.92      | 400.00                | 0.00         | 0.00         | 0.00                    | 2.00                    | 2.00                   | 0.00                  |
| 500.00                   | 2.05            | 284.92      | 499.98                | 0.47         | -1.77        | -0.48                   | 2.00                    | 2.00                   | 0.00                  |
| 600.00                   | 4.05            | 284.92      | 599.83                | 1.84         | -6.91        | -1.87                   | 2.00                    | 2.00                   | 0.00                  |
| 700.00                   | 6.05            | 284.92      | 699.44                | 4.11         | -15.42       | -4.16                   | 2.00                    | 2.00                   | 0.00                  |
| 800.00                   | 8.05            | 284.92      | 798.68                | 7.27         | -27.28       | -7.36                   | 2.00                    | 2.00                   | 0.00                  |
| 900.00                   | 10.05           | 284.92      | 897.43                | 11.32        | -42.48       | -11.47                  | 2.00                    | 2.00                   | 0.00                  |
| 1,000.00                 | 12.05           | 284.92      | 995.57                | 16.25        | -61.00       | -16.47                  | 2.00                    | 2.00                   | 0.00                  |
| 1,100.00                 | 14.05           | 284.92      | 1,092.98              | 22.07        | -82.81       | -22.35                  | 2.00                    | 2.00                   | 0.00                  |
| 1,200.00                 | 16.05           | 284.92      | 1,189.55              | 28.75        | -107.90      | -29.13                  | 2.00                    | 2.00                   | 0.00                  |
| 1,271.00                 | 17.47           | 284.92      | 1,257.53              | 34.02        | -127.69      | -34.47                  | 2.00                    | 2.00                   | 0.00                  |
| Hold Tangent @ 1271.00ft |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,300.00                 | 17.47           | 284.92      | 1,285.19              | 36.26        | -136.10      | -36.74                  | 0.00                    | 0.00                   | 0.00                  |
| 1,400.00                 | 17.47           | 284.92      | 1,380.58              | 43.99        | -165.11      | -44.57                  | 0.00                    | 0.00                   | 0.00                  |
| 1,500.00                 | 17.47           | 284.92      | 1,475.97              | 51.72        | -194.12      | -52.40                  | 0.00                    | 0.00                   | 0.00                  |
| 1,600.00                 | 17.47           | 284.92      | 1,571.35              | 59.45        | -223.12      | -60.23                  | 0.00                    | 0.00                   | 0.00                  |
| 1,700.00                 | 17.47           | 284.92      | 1,666.74              | 67.18        | -252.13      | -68.06                  | 0.00                    | 0.00                   | 0.00                  |
| 1,800.00                 | 17.47           | 284.92      | 1,762.13              | 74.91        | -281.14      | -75.89                  | 0.00                    | 0.00                   | 0.00                  |
| 1,900.00                 | 17.47           | 284.92      | 1,857.51              | 82.64        | -310.15      | -83.72                  | 0.00                    | 0.00                   | 0.00                  |
| 2,000.00                 | 17.47           | 284.92      | 1,952.90              | 90.37        | -339.16      | -91.55                  | 0.00                    | 0.00                   | 0.00                  |
| 2,100.00                 | 17.47           | 284.92      | 2,048.29              | 98.10        | -368.17      | -99.38                  | 0.00                    | 0.00                   | 0.00                  |
| 2,200.00                 | 17.47           | 284.92      | 2,143.68              | 105.83       | -397.17      | -107.21                 | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00                 | 17.47           | 284.92      | 2,239.06              | 113.56       | -426.18      | -115.04                 | 0.00                    | 0.00                   | 0.00                  |
| 2,393.24                 | 17.47           | 284.92      | 2,328.00              | 120.76       | -453.23      | -122.35                 | 0.00                    | 0.00                   | 0.00                  |
| 9 5/8"                   |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,400.00                 | 17.47           | 284.92      | 2,334.45              | 121.29       | -455.19      | -122.88                 | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00                 | 17.47           | 284.92      | 2,429.84              | 129.02       | -484.20      | -130.71                 | 0.00                    | 0.00                   | 0.00                  |
| 2,600.00                 | 17.47           | 284.92      | 2,525.23              | 136.75       | -513.21      | -138.54                 | 0.00                    | 0.00                   | 0.00                  |
| 2,700.00                 | 17.47           | 284.92      | 2,620.61              | 144.48       | -542.22      | -146.37                 | 0.00                    | 0.00                   | 0.00                  |
| 2,800.00                 | 17.47           | 284.92      | 2,716.00              | 152.21       | -571.23      | -154.20                 | 0.00                    | 0.00                   | 0.00                  |
| 2,900.00                 | 17.47           | 284.92      | 2,811.39              | 159.93       | -600.23      | -162.03                 | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00                 | 17.47           | 284.92      | 2,906.78              | 167.66       | -629.24      | -169.86                 | 0.00                    | 0.00                   | 0.00                  |
| 3,100.00                 | 17.47           | 284.92      | 3,002.16              | 175.39       | -658.25      | -177.69                 | 0.00                    | 0.00                   | 0.00                  |
| 3,200.00                 | 17.47           | 284.92      | 3,097.55              | 183.12       | -687.26      | -185.52                 | 0.00                    | 0.00                   | 0.00                  |
| 3,300.00                 | 17.47           | 284.92      | 3,192.94              | 190.85       | -716.27      | -193.35                 | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00                 | 17.47           | 284.92      | 3,288.33              | 198.58       | -745.28      | -201.18                 | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00                 | 17.47           | 284.92      | 3,383.71              | 206.31       | -774.29      | -209.01                 | 0.00                    | 0.00                   | 0.00                  |
| 3,600.00                 | 17.47           | 284.92      | 3,479.10              | 214.04       | -803.29      | -216.84                 | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00                 | 17.47           | 284.92      | 3,574.49              | 221.77       | -832.30      | -224.67                 | 0.00                    | 0.00                   | 0.00                  |
| 3,800.00                 | 17.47           | 284.92      | 3,669.88              | 229.50       | -861.31      | -232.50                 | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00                 | 17.47           | 284.92      | 3,765.26              | 237.23       | -890.32      | -240.33                 | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00                 | 17.47           | 284.92      | 3,860.65              | 244.96       | -919.33      | -248.17                 | 0.00                    | 0.00                   | 0.00                  |
| 4,100.00                 | 17.47           | 284.92      | 3,956.04              | 252.69       | -948.34      | -256.00                 | 0.00                    | 0.00                   | 0.00                  |
| 4,200.00                 | 17.47           | 284.92      | 4,051.43              | 260.42       | -977.35      | -263.83                 | 0.00                    | 0.00                   | 0.00                  |
| 4,300.00                 | 17.47           | 284.92      | 4,146.81              | 268.15       | -1,006.35    | -271.66                 | 0.00                    | 0.00                   | 0.00                  |
| 4,400.00                 | 17.47           | 284.92      | 4,242.20              | 275.88       | -1,035.36    | -279.49                 | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00                 | 17.47           | 284.92      | 4,337.59              | 283.61       | -1,064.37    | -287.32                 | 0.00                    | 0.00                   | 0.00                  |
| 4,600.00                 | 17.47           | 284.92      | 4,432.98              | 291.33       | -1,093.38    | -295.15                 | 0.00                    | 0.00                   | 0.00                  |

# Planning Report

|                  |                            |                                     |                               |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db | <b>Local Co-ordinate Reference:</b> | Well GEORGENE 2833-04H        |
| <b>Company:</b>  | VERDAD RESOURCES           | <b>TVD Reference:</b>               | RKB = 24' @ 5042.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD           | <b>MD Reference:</b>                | RKB = 24' @ 5042.00usft (RIG) |
| <b>Site:</b>     | 2N-64W-28 GEORGENE PAD     | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | GEORGENE 2833-04H          | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Plan C                     |                                     |                               |
| <b>Design:</b>   | Design #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) |
| 4,700.00                         | 17.47           | 284.92      | 4,528.36              | 299.06       | -1,122.39    | -302.98                 | 0.00                    | 0.00                   | 0.00                  |
| 4,800.00                         | 17.47           | 284.92      | 4,623.75              | 306.79       | -1,151.40    | -310.81                 | 0.00                    | 0.00                   | 0.00                  |
| 4,900.00                         | 17.47           | 284.92      | 4,719.14              | 314.52       | -1,180.41    | -318.64                 | 0.00                    | 0.00                   | 0.00                  |
| 5,000.00                         | 17.47           | 284.92      | 4,814.53              | 322.25       | -1,209.41    | -326.47                 | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00                         | 17.47           | 284.92      | 4,909.91              | 329.98       | -1,238.42    | -334.30                 | 0.00                    | 0.00                   | 0.00                  |
| 5,200.00                         | 17.47           | 284.92      | 5,005.30              | 337.71       | -1,267.43    | -342.13                 | 0.00                    | 0.00                   | 0.00                  |
| 5,300.00                         | 17.47           | 284.92      | 5,100.69              | 345.44       | -1,296.44    | -349.96                 | 0.00                    | 0.00                   | 0.00                  |
| 5,400.00                         | 17.47           | 284.92      | 5,196.07              | 353.17       | -1,325.45    | -357.79                 | 0.00                    | 0.00                   | 0.00                  |
| 5,500.00                         | 17.47           | 284.92      | 5,291.46              | 360.90       | -1,354.46    | -365.63                 | 0.00                    | 0.00                   | 0.00                  |
| 5,600.00                         | 17.47           | 284.92      | 5,386.85              | 368.63       | -1,383.46    | -373.46                 | 0.00                    | 0.00                   | 0.00                  |
| 5,700.00                         | 17.47           | 284.92      | 5,482.24              | 376.36       | -1,412.47    | -381.29                 | 0.00                    | 0.00                   | 0.00                  |
| 5,800.00                         | 17.47           | 284.92      | 5,577.62              | 384.09       | -1,441.48    | -389.12                 | 0.00                    | 0.00                   | 0.00                  |
| 5,900.00                         | 17.47           | 284.92      | 5,673.01              | 391.82       | -1,470.49    | -396.95                 | 0.00                    | 0.00                   | 0.00                  |
| 6,000.00                         | 17.47           | 284.92      | 5,768.40              | 399.55       | -1,499.50    | -404.78                 | 0.00                    | 0.00                   | 0.00                  |
| 6,100.00                         | 17.47           | 284.92      | 5,863.79              | 407.28       | -1,528.51    | -412.61                 | 0.00                    | 0.00                   | 0.00                  |
| 6,200.00                         | 17.47           | 284.92      | 5,959.17              | 415.01       | -1,557.52    | -420.44                 | 0.00                    | 0.00                   | 0.00                  |
| 6,300.00                         | 17.47           | 284.92      | 6,054.56              | 422.73       | -1,586.52    | -428.27                 | 0.00                    | 0.00                   | 0.00                  |
| 6,400.00                         | 17.47           | 284.92      | 6,149.95              | 430.46       | -1,615.53    | -436.10                 | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00                         | 17.47           | 284.92      | 6,245.34              | 438.19       | -1,644.54    | -443.93                 | 0.00                    | 0.00                   | 0.00                  |
| 6,550.14                         | 17.47           | 284.92      | 6,293.16              | 442.07       | -1,659.09    | -447.86                 | 0.00                    | 0.00                   | 0.00                  |
| KOP @ 6550.14ft :: DLS = 9°/100' |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,600.00                         | 16.90           | 269.81      | 6,340.82              | 443.97       | -1,673.57    | -449.81                 | 9.00                    | -1.14                  | -30.30                |
| 6,650.00                         | 17.47           | 254.66      | 6,388.61              | 441.96       | -1,688.09    | -447.85                 | 9.00                    | 1.14                   | -30.30                |
| 6,700.00                         | 19.08           | 241.23      | 6,436.11              | 436.04       | -1,702.50    | -441.98                 | 9.00                    | 3.22                   | -26.87                |
| 6,750.00                         | 21.50           | 230.25      | 6,483.02              | 426.24       | -1,716.71    | -432.23                 | 9.00                    | 4.84                   | -21.94                |
| 6,800.00                         | 24.49           | 221.62      | 6,529.05              | 412.63       | -1,730.65    | -418.67                 | 9.00                    | 5.98                   | -17.26                |
| 6,850.00                         | 27.87           | 214.86      | 6,573.93              | 395.28       | -1,744.22    | -401.37                 | 9.00                    | 6.75                   | -13.52                |
| 6,900.00                         | 31.51           | 209.51      | 6,617.37              | 374.31       | -1,757.35    | -380.44                 | 9.00                    | 7.28                   | -10.71                |
| 6,950.00                         | 35.33           | 205.18      | 6,659.10              | 349.85       | -1,769.94    | -356.02                 | 9.00                    | 7.64                   | -8.66                 |
| 7,000.00                         | 39.27           | 201.61      | 6,698.87              | 322.04       | -1,781.92    | -328.25                 | 9.00                    | 7.89                   | -7.14                 |
| 7,050.00                         | 43.31           | 198.60      | 6,736.43              | 291.05       | -1,793.22    | -297.31                 | 9.00                    | 8.08                   | -6.02                 |
| 7,100.00                         | 47.42           | 196.01      | 6,771.55              | 257.09       | -1,803.78    | -263.38                 | 9.00                    | 8.21                   | -5.18                 |
| 7,150.00                         | 51.58           | 193.74      | 6,804.02              | 220.35       | -1,813.51    | -226.68                 | 9.00                    | 8.32                   | -4.53                 |
| 7,200.00                         | 55.77           | 191.72      | 6,833.64              | 181.06       | -1,822.37    | -187.42                 | 9.00                    | 8.39                   | -4.04                 |
| 7,250.00                         | 60.00           | 189.90      | 6,860.21              | 139.47       | -1,830.29    | -145.86                 | 9.00                    | 8.45                   | -3.65                 |
| 7,300.00                         | 64.25           | 188.22      | 6,883.59              | 95.84        | -1,837.24    | -102.25                 | 9.00                    | 8.50                   | -3.35                 |
| 7,350.00                         | 68.52           | 186.66      | 6,903.61              | 50.42        | -1,843.16    | -56.86                  | 9.00                    | 8.53                   | -3.12                 |
| 7,400.00                         | 72.80           | 185.19      | 6,920.17              | 3.51         | -1,848.03    | -9.96                   | 9.00                    | 8.56                   | -2.94                 |
| 7,450.00                         | 77.09           | 183.79      | 6,933.16              | -44.61       | -1,851.80    | 38.15                   | 9.00                    | 8.58                   | -2.81                 |
| 7,500.00                         | 81.39           | 182.43      | 6,942.49              | -93.65       | -1,854.46    | 87.18                   | 9.00                    | 8.60                   | -2.71                 |
| 7,550.00                         | 85.69           | 181.11      | 6,948.12              | -143.30      | -1,856.00    | 136.82                  | 9.00                    | 8.61                   | -2.65                 |
| 7,600.06                         | 90.00           | 179.80      | 6,950.00              | -193.30      | -1,856.39    | 186.82                  | 9.00                    | 8.61                   | -2.62                 |
| End Build @ 7600.06ft            |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,700.00                         | 90.00           | 179.80      | 6,950.00              | -293.25      | -1,856.03    | 286.76                  | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00                         | 90.00           | 179.80      | 6,950.00              | -393.24      | -1,855.68    | 386.76                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.00                         | 90.00           | 179.80      | 6,950.00              | -493.24      | -1,855.32    | 486.76                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.00                         | 90.00           | 179.80      | 6,950.00              | -593.24      | -1,854.97    | 586.76                  | 0.00                    | 0.00                   | 0.00                  |
| 8,100.00                         | 90.00           | 179.80      | 6,950.00              | -693.24      | -1,854.61    | 686.76                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00                         | 90.00           | 179.80      | 6,950.00              | -793.24      | -1,854.25    | 786.76                  | 0.00                    | 0.00                   | 0.00                  |
| 8,300.00                         | 90.00           | 179.80      | 6,950.00              | -893.24      | -1,853.90    | 886.76                  | 0.00                    | 0.00                   | 0.00                  |
| 8,400.00                         | 90.00           | 179.80      | 6,950.00              | -993.24      | -1,853.54    | 986.76                  | 0.00                    | 0.00                   | 0.00                  |
| 8,500.00                         | 90.00           | 179.80      | 6,950.00              | -1,093.24    | -1,853.19    | 1,086.76                | 0.00                    | 0.00                   | 0.00                  |
| 8,600.00                         | 90.00           | 179.80      | 6,950.00              | -1,193.24    | -1,852.83    | 1,186.76                | 0.00                    | 0.00                   | 0.00                  |
| 8,700.00                         | 90.00           | 179.80      | 6,950.00              | -1,293.24    | -1,852.48    | 1,286.76                | 0.00                    | 0.00                   | 0.00                  |

## Planning Report

|                  |                            |                                     |                               |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db | <b>Local Co-ordinate Reference:</b> | Well GEORGENE 2833-04H        |
| <b>Company:</b>  | VERDAD RESOURCES           | <b>TVD Reference:</b>               | RKB = 24' @ 5042.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD           | <b>MD Reference:</b>                | RKB = 24' @ 5042.00usft (RIG) |
| <b>Site:</b>     | 2N-64W-28 GEORGENE PAD     | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | GEORGENE 2833-04H          | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Plan C                     |                                     |                               |
| <b>Design:</b>   | Design #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) |  |
| 8,800.00                    | 90.00              | 179.80         | 6,950.00                    | -1,393.24       | -1,852.12       | 1,386.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 8,900.00                    | 90.00              | 179.80         | 6,950.00                    | -1,493.24       | -1,851.76       | 1,486.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,000.00                    | 90.00              | 179.80         | 6,950.00                    | -1,593.24       | -1,851.41       | 1,586.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,100.00                    | 90.00              | 179.80         | 6,950.00                    | -1,693.24       | -1,851.05       | 1,686.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,200.00                    | 90.00              | 179.80         | 6,950.00                    | -1,793.24       | -1,850.70       | 1,786.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,300.00                    | 90.00              | 179.80         | 6,950.00                    | -1,893.24       | -1,850.34       | 1,886.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,400.00                    | 90.00              | 179.80         | 6,950.00                    | -1,993.23       | -1,849.98       | 1,986.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,500.00                    | 90.00              | 179.80         | 6,950.00                    | -2,093.23       | -1,849.63       | 2,086.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,600.00                    | 90.00              | 179.80         | 6,950.00                    | -2,193.23       | -1,849.27       | 2,186.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,700.00                    | 90.00              | 179.80         | 6,950.00                    | -2,293.23       | -1,848.92       | 2,286.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,800.00                    | 90.00              | 179.80         | 6,950.00                    | -2,393.23       | -1,848.56       | 2,386.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,900.00                    | 90.00              | 179.80         | 6,950.00                    | -2,493.23       | -1,848.21       | 2,486.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,000.00                   | 90.00              | 179.80         | 6,950.00                    | -2,593.23       | -1,847.85       | 2,586.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,100.00                   | 90.00              | 179.80         | 6,950.00                    | -2,693.23       | -1,847.49       | 2,686.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,200.00                   | 90.00              | 179.80         | 6,950.00                    | -2,793.23       | -1,847.14       | 2,786.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,300.00                   | 90.00              | 179.80         | 6,950.00                    | -2,893.23       | -1,846.78       | 2,886.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,400.00                   | 90.00              | 179.80         | 6,950.00                    | -2,993.23       | -1,846.43       | 2,986.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,500.00                   | 90.00              | 179.80         | 6,950.00                    | -3,093.23       | -1,846.07       | 3,086.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,600.00                   | 90.00              | 179.80         | 6,950.00                    | -3,193.23       | -1,845.71       | 3,186.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,700.00                   | 90.00              | 179.80         | 6,950.00                    | -3,293.23       | -1,845.36       | 3,286.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,800.00                   | 90.00              | 179.80         | 6,950.00                    | -3,393.23       | -1,845.00       | 3,386.76                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,900.00                   | 90.00              | 179.80         | 6,950.00                    | -3,493.23       | -1,844.65       | 3,486.77                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,000.00                   | 90.00              | 179.80         | 6,950.00                    | -3,593.22       | -1,844.29       | 3,586.77                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,100.00                   | 90.00              | 179.80         | 6,950.00                    | -3,693.22       | -1,843.94       | 3,686.77                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,200.00                   | 90.00              | 179.80         | 6,950.00                    | -3,793.22       | -1,843.58       | 3,786.77                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,300.00                   | 90.00              | 179.80         | 6,950.00                    | -3,893.22       | -1,843.22       | 3,886.77                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,400.00                   | 90.00              | 179.80         | 6,950.00                    | -3,993.22       | -1,842.87       | 3,986.77                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,500.00                   | 90.00              | 179.80         | 6,950.00                    | -4,093.22       | -1,842.51       | 4,086.77                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,600.00                   | 90.00              | 179.80         | 6,950.00                    | -4,193.22       | -1,842.16       | 4,186.77                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,700.00                   | 90.00              | 179.80         | 6,950.00                    | -4,293.22       | -1,841.80       | 4,286.77                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,800.00                   | 90.00              | 179.80         | 6,950.00                    | -4,393.22       | -1,841.44       | 4,386.77                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,900.00                   | 90.00              | 179.80         | 6,950.00                    | -4,493.22       | -1,841.09       | 4,486.77                      | 0.00                          | 0.00                         | 0.00                        |  |
| 12,000.00                   | 90.00              | 179.80         | 6,950.00                    | -4,593.22       | -1,840.73       | 4,586.77                      | 0.00                          | 0.00                         | 0.00                        |  |
| 12,100.00                   | 90.00              | 179.80         | 6,950.00                    | -4,693.22       | -1,840.38       | 4,686.77                      | 0.00                          | 0.00                         | 0.00                        |  |
| 12,200.00                   | 90.00              | 179.80         | 6,950.00                    | -4,793.22       | -1,840.02       | 4,786.77                      | 0.00                          | 0.00                         | 0.00                        |  |
| 12,300.00                   | 90.00              | 179.80         | 6,950.00                    | -4,893.22       | -1,839.67       | 4,886.77                      | 0.00                          | 0.00                         | 0.00                        |  |
| 12,400.00                   | 90.00              | 179.80         | 6,950.00                    | -4,993.22       | -1,839.31       | 4,986.77                      | 0.00                          | 0.00                         | 0.00                        |  |
| 12,434.22                   | 90.00              | 179.80         | 6,950.00                    | -5,027.44       | -1,839.19       | 5,020.99                      | 0.00                          | 0.00                         | 0.00                        |  |
| TD Well @ 12434.22ft        |                    |                |                             |                 |                 |                               |                               |                              |                             |  |

| Casing Points         |                       |        |  |                     |                   |
|-----------------------|-----------------------|--------|--|---------------------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name   |  | Casing Diameter (") | Hole Diameter (") |
| 2,393.24              | 2,328.00              | 9 5/8" |  | 9-5/8               | 13-1/2            |

Planning Report

|           |                            |                              |                               |
|-----------|----------------------------|------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well GEORGENE 2833-04H        |
| Company:  | VERDAD RESOURCES           | TVD Reference:               | RKB = 24' @ 5042.00usft (RIG) |
| Project:  | WATTENBERG FIELD           | MD Reference:                | RKB = 24' @ 5042.00usft (RIG) |
| Site:     | 2N-64W-28 GEORGENE PAD     | North Reference:             | True                          |
| Well:     | GEORGENE 2833-04H          | Survey Calculation Method:   | Minimum Curvature             |
| Wellbore: | Plan C                     |                              |                               |
| Design:   | Design #2                  |                              |                               |

| Plan Annotations            |                             |                   |                 |                                  |
|-----------------------------|-----------------------------|-------------------|-----------------|----------------------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                          |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                                  |
| 397.50                      | 397.50                      | 0.00              | 0.00            | Begin Nudge @ 397.50ft           |
| 1,271.00                    | 1,257.53                    | 34.02             | -127.69         | Hold Tangent @ 1271.00ft         |
| 6,550.14                    | 6,293.16                    | 442.07            | -1,659.09       | KOP @ 6550.14ft :: DLS = 9"/100' |
| 7,600.06                    | 6,950.00                    | -193.30           | -1,856.39       | End Build @ 7600.06ft            |
| 12,434.22                   | 6,950.00                    | -5,027.44         | -1,839.19       | TD Well @ 12434.22ft             |