

# **VERDAD RESOURCES**

**WATTENBERG FIELD**

**1N-65W-31 COUNTY LINE 3229 PAD**

**COUNTY LINE 3229-18H**

**Plan A**

**Plan: Design #2**

## **Standard Planning Report**

**24 May, 2022**

Project: WATTENBERG FIELD  
Site: 1N-65W-31 COUNTY LINE 3229 PAD  
Well: COUNTY LINE 3229-18H  
Wellbore: Plan A  
Design: Design #2

# VERDAD RESOURCES

## CASING DETAILS

| TVD     | MD      | Name   | Size  |
|---------|---------|--------|-------|
| 2275.00 | 2358.03 | 9 5/8" | 9-5/8 |

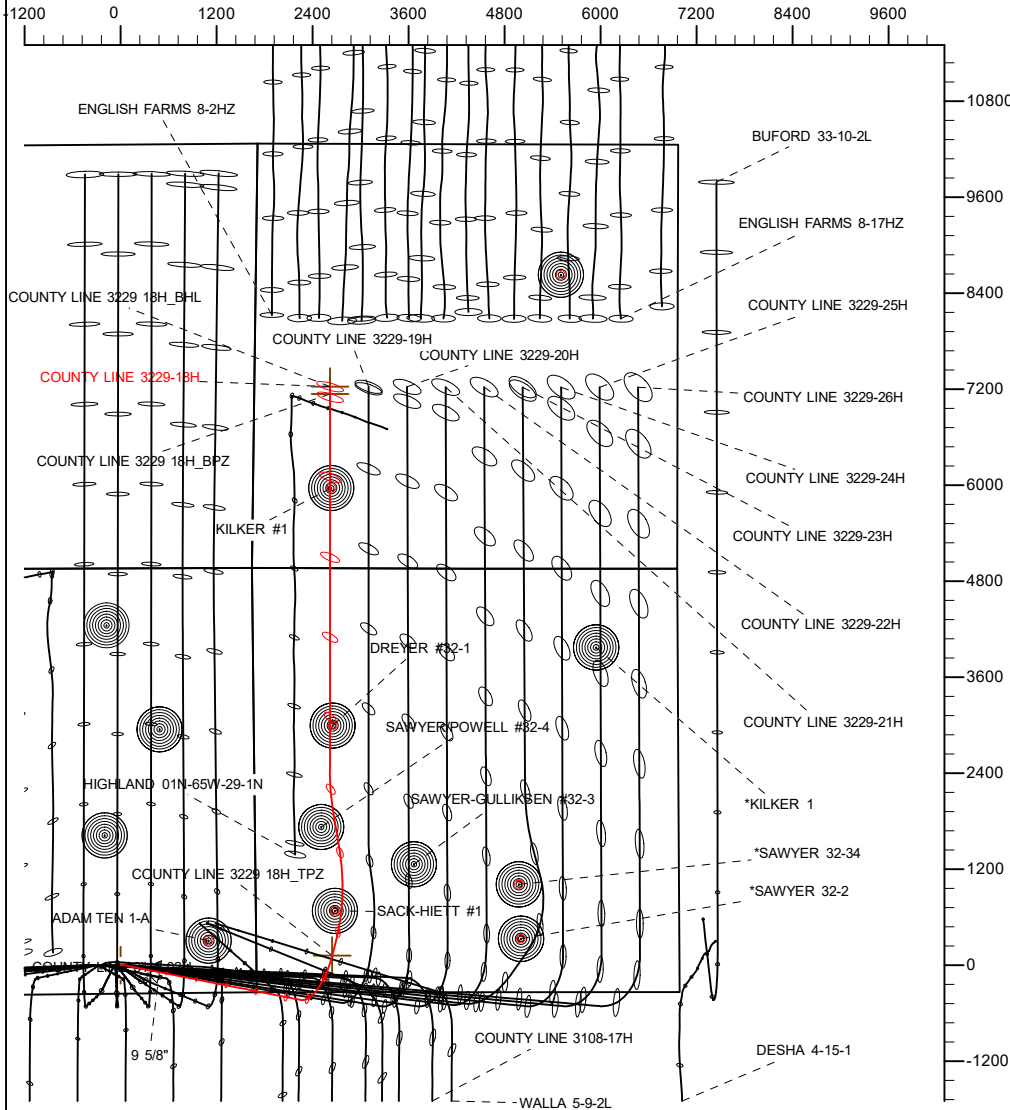
## SECTION DETAILS

| MD       | Inc   | Azi    | TVD     | +N/-S   | +E/-W   | Dleg | TFace  | VSect   | Target                   |
|----------|-------|--------|---------|---------|---------|------|--------|---------|--------------------------|
| 0.00     | 0.00  | 0.00   | 0.00    | 0.00    | 0.00    | 0.00 | 0.00   | 0.00    |                          |
| 200.00   | 0.00  | 0.00   | 200.00  | 0.00    | 0.00    | 0.00 | 0.00   | 0.00    |                          |
| 350.00   | 3.00  | 15.00  | 349.93  | 3.79    | 1.02    | 2.00 | 15.00  | 3.79    |                          |
| 360.35   | 3.00  | 15.00  | 360.27  | 4.32    | 1.16    | 0.00 | 0.00   | 4.31    |                          |
| 510.35   | 0.00  | 0.00   | 510.20  | 8.11    | 2.17    | 2.00 | 180.00 | 8.10    |                          |
| 1626.85  | 22.33 | 101.12 | 1598.65 | -33.32  | 212.97  | 2.00 | 101.12 | -34.11  |                          |
| 7113.83  | 22.33 | 101.12 | 6674.16 | -435.39 | 2258.55 | 0.00 | 0.00   | -443.67 |                          |
| 8099.57  | 90.00 | 14.50  | 7250.00 | 121.68  | 2646.50 | 9.00 | -86.87 | 111.98  |                          |
| 8249.57  | 90.00 | 14.50  | 7250.00 | 266.90  | 2684.05 | 0.00 | 0.00   | 257.06  |                          |
| 9474.57  | 90.00 | 350.00 | 7250.00 | 1481.65 | 2731.78 | 2.00 | -90.00 | 1471.63 |                          |
| 9786.43  | 90.00 | 350.00 | 7250.00 | 1788.77 | 2677.63 | 0.00 | 0.00   | 1778.95 |                          |
| 10453.69 | 90.00 | 0.01   | 7250.00 | 2452.66 | 2619.60 | 1.50 | 90.00  | 2443.04 |                          |
| 15232.52 | 90.00 | 0.01   | 7250.00 | 7231.48 | 2620.34 | 0.00 | 0.00   | 7221.83 | COUNTY LINE 3229 18H_BHL |

## WELLBORE TARGET DETAILS (LAT/LONG)

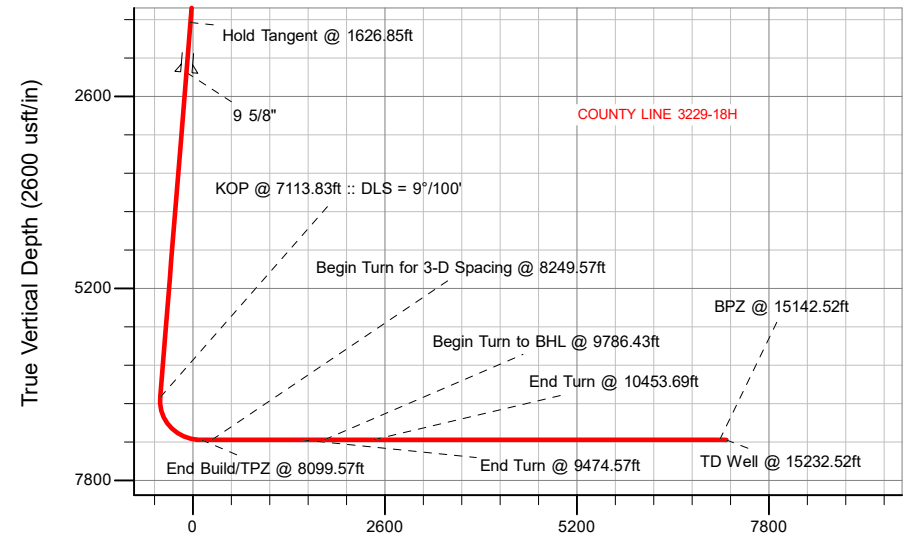
| Name                     | TVD     | +N/-S   | +E/-W   | Latitude  | Longitude   |
|--------------------------|---------|---------|---------|-----------|-------------|
| COUNTY LINE 3229 18H_SHL | 0.00    | 0.00    | 0.00    | 40.001457 | -104.703343 |
| COUNTY LINE 3229 18H_TPZ | 7250.00 | 121.68  | 2646.50 | 40.001790 | -104.693896 |
| COUNTY LINE 3229 18H_BPZ | 7250.00 | 7141.48 | 2620.67 | 40.021061 | -104.693985 |
| COUNTY LINE 3229 18H_BHL | 7250.00 | 7231.48 | 2620.34 | 40.021308 | -104.693987 |

West(-)/East(+) (2400 usft/in)

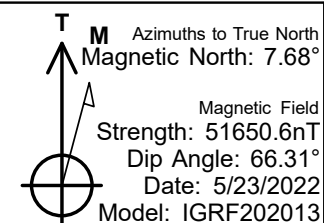


|                              |                             |                              |                              |
|------------------------------|-----------------------------|------------------------------|------------------------------|
| SHL<br>340' FSL<br>1700' FEL | TPZ<br>460' FSL<br>948' FWL | BPZ<br>2180' FSL<br>950' FWL | BHL<br>2270' FSL<br>948' FWL |
|------------------------------|-----------------------------|------------------------------|------------------------------|

South(-)/North(+) (2400 usft/in)



Vertical Section at 359.79° (2600 usft/in)



WELL DETAILS: COUNTY LINE 3229-18H

GL = 5046'

RKB = 24' @ 5070.00usft (RIG)

Plan: Design #2 (COUNTY LINE 3229-18H/Plan A)

Date: 5/24/2022

## Planning Report

|                  |                                |                                     |                               |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db     | <b>Local Co-ordinate Reference:</b> | Well COUNTY LINE 3229-18H     |
| <b>Company:</b>  | VERDAD RESOURCES               | <b>TVD Reference:</b>               | RKB = 24' @ 5070.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD               | <b>MD Reference:</b>                | RKB = 24' @ 5070.00usft (RIG) |
| <b>Site:</b>     | 1N-65W-31 COUNTY LINE 3229 PAD | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | COUNTY LINE 3229-18H           | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Plan A                         |                                     |                               |
| <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>                  | 1N-65W-31 COUNTY LINE 3229 PAD |                     |                   |                               |
| <b>Site Position:</b>        |                                | <b>Northing:</b>    | 1,244,380.12 usft | <b>Latitude:</b> 40.001457    |
| <b>From:</b>                 | Map                            | <b>Easting:</b>     | 3,223,178.62 usft | <b>Longitude:</b> -104.703343 |
| <b>Position Uncertainty:</b> | 0.00 usft                      | <b>Slot Radius:</b> | 13-3/16 "         |                               |

|                             |                      |           |                            |                   |
|-----------------------------|----------------------|-----------|----------------------------|-------------------|
| <b>Well</b>                 | COUNTY LINE 3229-18H |           |                            |                   |
| <b>Well Position</b>        | <b>+N/-S</b>         | 0.00 usft | <b>Northing:</b>           | 1,244,380.12 usft |
|                             | <b>+E/-W</b>         | 0.00 usft | <b>Easting:</b>            | 3,223,178.62 usft |
| <b>Position Uncertainty</b> |                      | 3.28 usft | <b>Wellhead Elevation:</b> | usft              |
| <b>Grid Convergence:</b>    |                      | 0.51 °    | <b>Ground Level:</b>       | 5,046.00 usft     |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Plan A            |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF202013        | 5/23/2022          | 7.68                   | 66.31                | 51,650.59313846            |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <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                 | 359.79               |

|                                 |                        |                          |                    |                               |  |
|---------------------------------|------------------------|--------------------------|--------------------|-------------------------------|--|
| <b>Plan Survey Tool Program</b> |                        | <b>Date</b>              | 5/23/2022          |                               |  |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>   | <b>Remarks</b>                |  |
| 1                               | 0.00                   | 2,275.00                 | Design #2 (Plan A) | ISCWSA MWD                    |  |
|                                 |                        |                          |                    | Fixed:v2:standard declination |  |
| 2                               | 2,275.00               | 15,232.52                | Design #2 (Plan A) | ISCWSA MWD                    |  |
|                                 |                        |                          |                    | Fixed:v2:standard declination |  |

## Planning Report

|                  |                                |                                     |                               |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db     | <b>Local Co-ordinate Reference:</b> | Well COUNTY LINE 3229-18H     |
| <b>Company:</b>  | VERDAD RESOURCES               | <b>TVD Reference:</b>               | RKB = 24' @ 5070.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD               | <b>MD Reference:</b>                | RKB = 24' @ 5070.00usft (RIG) |
| <b>Site:</b>     | 1N-65W-31 COUNTY LINE 3229 PAD | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | COUNTY LINE 3229-18H           | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Plan A                         |                                     |                               |
| <b>Design:</b>   | 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    |                  |
| 200.00                | 0.00            | 0.00        | 200.00                | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 350.00                | 3.00            | 15.00       | 349.93                | 3.79         | 1.02         | 2.00                    | 2.00                   | 0.00                  | 15.00   |                  |
| 360.35                | 3.00            | 15.00       | 360.27                | 4.32         | 1.16         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 510.35                | 0.00            | 0.00        | 510.20                | 8.11         | 2.17         | 2.00                    | -2.00                  | -10.00                | -180.00 |                  |
| 1,626.85              | 22.33           | 101.12      | 1,598.65              | -33.32       | 212.97       | 2.00                    | 2.00                   | 0.00                  | 101.12  |                  |
| 7,113.83              | 22.33           | 101.12      | 6,674.16              | -435.39      | 2,258.55     | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 8,099.57              | 90.00           | 14.50       | 7,250.00              | 121.68       | 2,646.50     | 9.00                    | 6.86                   | -8.79                 | -86.87  |                  |
| 8,249.57              | 90.00           | 14.50       | 7,250.00              | 266.90       | 2,684.05     | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 9,474.57              | 90.00           | 350.00      | 7,250.00              | 1,481.65     | 2,731.78     | 2.00                    | 0.00                   | -2.00                 | -90.00  |                  |
| 9,786.43              | 90.00           | 350.00      | 7,250.00              | 1,788.77     | 2,677.63     | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 10,453.69             | 90.00           | 0.01        | 7,250.00              | 2,452.66     | 2,619.60     | 1.50                    | 0.00                   | 1.50                  | 90.00   |                  |
| 15,232.52             | 90.00           | 0.01        | 7,250.00              | 7,231.48     | 2,620.34     | 0.00                    | 0.00                   | 0.00                  | 0.00    | COUNTY LINE 3229 |

# Planning Report

|                  |                                |                                     |                               |
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| <b>Database:</b> | EDM 5000.16 Single User Db     | <b>Local Co-ordinate Reference:</b> | Well COUNTY LINE 3229-18H     |
| <b>Company:</b>  | VERDAD RESOURCES               | <b>TVD Reference:</b>               | RKB = 24' @ 5070.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD               | <b>MD Reference:</b>                | RKB = 24' @ 5070.00usft (RIG) |
| <b>Site:</b>     | 1N-65W-31 COUNTY LINE 3229 PAD | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | COUNTY LINE 3229-18H           | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Plan A                         |                                     |                               |
| <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                  |
| Begin Nudge @ 200.00ft   |                 |             |                       |              |              |                         |                         |                        |                       |
| 300.00                   | 2.00            | 15.00       | 299.98                | 1.69         | 0.45         | 1.68                    | 2.00                    | 2.00                   | 0.00                  |
| 350.00                   | 3.00            | 15.00       | 349.93                | 3.79         | 1.02         | 3.79                    | 2.00                    | 2.00                   | 0.00                  |
| Hold Tangent @ 350.00ft  |                 |             |                       |              |              |                         |                         |                        |                       |
| 360.35                   | 3.00            | 15.00       | 360.27                | 4.32         | 1.16         | 4.31                    | 0.00                    | 0.00                   | 0.00                  |
| Begin Drop @ 360.35ft    |                 |             |                       |              |              |                         |                         |                        |                       |
| 400.00                   | 2.21            | 15.00       | 399.88                | 6.06         | 1.62         | 6.05                    | 2.00                    | -2.00                  | 0.00                  |
| 500.00                   | 0.21            | 15.00       | 499.85                | 8.09         | 2.17         | 8.08                    | 2.00                    | -2.00                  | 0.00                  |
| 510.35                   | 0.00            | 0.00        | 510.20                | 8.11         | 2.17         | 8.10                    | 2.00                    | -2.00                  | -144.93               |
| Begin Nudge @ 510.35ft   |                 |             |                       |              |              |                         |                         |                        |                       |
| 600.00                   | 1.79            | 101.12      | 599.83                | 7.84         | 3.55         | 7.82                    | 2.00                    | 2.00                   | 112.79                |
| 700.00                   | 3.79            | 101.12      | 699.71                | 6.90         | 8.33         | 6.87                    | 2.00                    | 2.00                   | 0.00                  |
| 800.00                   | 5.79            | 101.12      | 799.36                | 5.29         | 16.53        | 5.23                    | 2.00                    | 2.00                   | 0.00                  |
| 900.00                   | 7.79            | 101.12      | 898.65                | 3.01         | 28.13        | 2.90                    | 2.00                    | 2.00                   | 0.00                  |
| 1,000.00                 | 9.79            | 101.12      | 997.47                | 0.06         | 43.13        | -0.10                   | 2.00                    | 2.00                   | 0.00                  |
| 1,100.00                 | 11.79           | 101.12      | 1,095.69              | -3.55        | 61.51        | -3.78                   | 2.00                    | 2.00                   | 0.00                  |
| 1,200.00                 | 13.79           | 101.12      | 1,193.21              | -7.82        | 83.23        | -8.13                   | 2.00                    | 2.00                   | 0.00                  |
| 1,300.00                 | 15.79           | 101.12      | 1,289.89              | -12.75       | 108.28       | -13.15                  | 2.00                    | 2.00                   | 0.00                  |
| 1,400.00                 | 17.79           | 101.12      | 1,385.62              | -18.32       | 136.63       | -18.82                  | 2.00                    | 2.00                   | 0.00                  |
| 1,500.00                 | 19.79           | 101.12      | 1,480.28              | -24.53       | 168.24       | -25.15                  | 2.00                    | 2.00                   | 0.00                  |
| 1,600.00                 | 21.79           | 101.12      | 1,573.76              | -31.38       | 203.07       | -32.12                  | 2.00                    | 2.00                   | 0.00                  |
| 1,626.85                 | 22.33           | 101.12      | 1,598.65              | -33.32       | 212.97       | -34.11                  | 2.00                    | 2.00                   | 0.00                  |
| Hold Tangent @ 1626.85ft |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,700.00                 | 22.33           | 101.12      | 1,666.31              | -38.69       | 240.24       | -39.57                  | 0.00                    | 0.00                   | 0.00                  |
| 1,800.00                 | 22.33           | 101.12      | 1,758.81              | -46.01       | 277.52       | -47.03                  | 0.00                    | 0.00                   | 0.00                  |
| 1,900.00                 | 22.33           | 101.12      | 1,851.32              | -53.34       | 314.80       | -54.49                  | 0.00                    | 0.00                   | 0.00                  |
| 2,000.00                 | 22.33           | 101.12      | 1,943.82              | -60.67       | 352.08       | -61.96                  | 0.00                    | 0.00                   | 0.00                  |
| 2,100.00                 | 22.33           | 101.12      | 2,036.32              | -68.00       | 389.36       | -69.42                  | 0.00                    | 0.00                   | 0.00                  |
| 2,200.00                 | 22.33           | 101.12      | 2,128.82              | -75.32       | 426.64       | -76.89                  | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00                 | 22.33           | 101.12      | 2,221.32              | -82.65       | 463.92       | -84.35                  | 0.00                    | 0.00                   | 0.00                  |
| 2,358.03                 | 22.33           | 101.12      | 2,275.00              | -86.90       | 485.56       | -88.68                  | 0.00                    | 0.00                   | 0.00                  |
| 9 5/8"                   |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,400.00                 | 22.33           | 101.12      | 2,313.82              | -89.98       | 501.20       | -91.82                  | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00                 | 22.33           | 101.12      | 2,406.32              | -97.31       | 538.48       | -99.28                  | 0.00                    | 0.00                   | 0.00                  |
| 2,600.00                 | 22.33           | 101.12      | 2,498.82              | -104.63      | 575.76       | -106.74                 | 0.00                    | 0.00                   | 0.00                  |
| 2,700.00                 | 22.33           | 101.12      | 2,591.32              | -111.96      | 613.05       | -114.21                 | 0.00                    | 0.00                   | 0.00                  |
| 2,800.00                 | 22.33           | 101.12      | 2,683.82              | -119.29      | 650.33       | -121.67                 | 0.00                    | 0.00                   | 0.00                  |
| 2,900.00                 | 22.33           | 101.12      | 2,776.33              | -126.62      | 687.61       | -129.14                 | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00                 | 22.33           | 101.12      | 2,868.83              | -133.95      | 724.89       | -136.60                 | 0.00                    | 0.00                   | 0.00                  |
| 3,100.00                 | 22.33           | 101.12      | 2,961.33              | -141.27      | 762.17       | -144.07                 | 0.00                    | 0.00                   | 0.00                  |
| 3,200.00                 | 22.33           | 101.12      | 3,053.83              | -148.60      | 799.45       | -151.53                 | 0.00                    | 0.00                   | 0.00                  |
| 3,300.00                 | 22.33           | 101.12      | 3,146.33              | -155.93      | 836.73       | -158.99                 | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00                 | 22.33           | 101.12      | 3,238.83              | -163.26      | 874.01       | -166.46                 | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00                 | 22.33           | 101.12      | 3,331.33              | -170.58      | 911.29       | -173.92                 | 0.00                    | 0.00                   | 0.00                  |
| 3,600.00                 | 22.33           | 101.12      | 3,423.83              | -177.91      | 948.57       | -181.39                 | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00                 | 22.33           | 101.12      | 3,516.33              | -185.24      | 985.85       | -188.85                 | 0.00                    | 0.00                   | 0.00                  |
| 3,800.00                 | 22.33           | 101.12      | 3,608.84              | -192.57      | 1,023.13     | -196.32                 | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00                 | 22.33           | 101.12      | 3,701.34              | -199.89      | 1,060.41     | -203.78                 | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00                 | 22.33           | 101.12      | 3,793.84              | -207.22      | 1,097.69     | -211.24                 | 0.00                    | 0.00                   | 0.00                  |
| 4,100.00                 | 22.33           | 101.12      | 3,886.34              | -214.55      | 1,134.98     | -218.71                 | 0.00                    | 0.00                   | 0.00                  |

# Planning Report

|                  |                                |                                     |                               |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db     | <b>Local Co-ordinate Reference:</b> | Well COUNTY LINE 3229-18H     |
| <b>Company:</b>  | VERDAD RESOURCES               | <b>TVD Reference:</b>               | RKB = 24' @ 5070.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD               | <b>MD Reference:</b>                | RKB = 24' @ 5070.00usft (RIG) |
| <b>Site:</b>     | 1N-65W-31 COUNTY LINE 3229 PAD | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | COUNTY LINE 3229-18H           | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Plan A                         |                                     |                               |
| <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) |  |
| 4,200.00                         | 22.33              | 101.12         | 3,978.84                    | -221.88         | 1,172.26        | -226.17                       | 0.00                          | 0.00                         | 0.00                        |  |
| 4,300.00                         | 22.33              | 101.12         | 4,071.34                    | -229.21         | 1,209.54        | -233.64                       | 0.00                          | 0.00                         | 0.00                        |  |
| 4,400.00                         | 22.33              | 101.12         | 4,163.84                    | -236.53         | 1,246.82        | -241.10                       | 0.00                          | 0.00                         | 0.00                        |  |
| 4,500.00                         | 22.33              | 101.12         | 4,256.34                    | -243.86         | 1,284.10        | -248.57                       | 0.00                          | 0.00                         | 0.00                        |  |
| 4,600.00                         | 22.33              | 101.12         | 4,348.84                    | -251.19         | 1,321.38        | -256.03                       | 0.00                          | 0.00                         | 0.00                        |  |
| 4,700.00                         | 22.33              | 101.12         | 4,441.35                    | -258.52         | 1,358.66        | -263.49                       | 0.00                          | 0.00                         | 0.00                        |  |
| 4,800.00                         | 22.33              | 101.12         | 4,533.85                    | -265.84         | 1,395.94        | -270.96                       | 0.00                          | 0.00                         | 0.00                        |  |
| 4,900.00                         | 22.33              | 101.12         | 4,626.35                    | -273.17         | 1,433.22        | -278.42                       | 0.00                          | 0.00                         | 0.00                        |  |
| 5,000.00                         | 22.33              | 101.12         | 4,718.85                    | -280.50         | 1,470.50        | -285.89                       | 0.00                          | 0.00                         | 0.00                        |  |
| 5,100.00                         | 22.33              | 101.12         | 4,811.35                    | -287.83         | 1,507.78        | -293.35                       | 0.00                          | 0.00                         | 0.00                        |  |
| 5,200.00                         | 22.33              | 101.12         | 4,903.85                    | -295.15         | 1,545.06        | -300.82                       | 0.00                          | 0.00                         | 0.00                        |  |
| 5,300.00                         | 22.33              | 101.12         | 4,996.35                    | -302.48         | 1,582.34        | -308.28                       | 0.00                          | 0.00                         | 0.00                        |  |
| 5,400.00                         | 22.33              | 101.12         | 5,088.85                    | -309.81         | 1,619.63        | -315.74                       | 0.00                          | 0.00                         | 0.00                        |  |
| 5,500.00                         | 22.33              | 101.12         | 5,181.35                    | -317.14         | 1,656.91        | -323.21                       | 0.00                          | 0.00                         | 0.00                        |  |
| 5,600.00                         | 22.33              | 101.12         | 5,273.86                    | -324.47         | 1,694.19        | -330.67                       | 0.00                          | 0.00                         | 0.00                        |  |
| 5,700.00                         | 22.33              | 101.12         | 5,366.36                    | -331.79         | 1,731.47        | -338.14                       | 0.00                          | 0.00                         | 0.00                        |  |
| 5,800.00                         | 22.33              | 101.12         | 5,458.86                    | -339.12         | 1,768.75        | -345.60                       | 0.00                          | 0.00                         | 0.00                        |  |
| 5,900.00                         | 22.33              | 101.12         | 5,551.36                    | -346.45         | 1,806.03        | -353.07                       | 0.00                          | 0.00                         | 0.00                        |  |
| 6,000.00                         | 22.33              | 101.12         | 5,643.86                    | -353.78         | 1,843.31        | -360.53                       | 0.00                          | 0.00                         | 0.00                        |  |
| 6,100.00                         | 22.33              | 101.12         | 5,736.36                    | -361.10         | 1,880.59        | -367.99                       | 0.00                          | 0.00                         | 0.00                        |  |
| 6,200.00                         | 22.33              | 101.12         | 5,828.86                    | -368.43         | 1,917.87        | -375.46                       | 0.00                          | 0.00                         | 0.00                        |  |
| 6,300.00                         | 22.33              | 101.12         | 5,921.36                    | -375.76         | 1,955.15        | -382.92                       | 0.00                          | 0.00                         | 0.00                        |  |
| 6,400.00                         | 22.33              | 101.12         | 6,013.86                    | -383.09         | 1,992.43        | -390.39                       | 0.00                          | 0.00                         | 0.00                        |  |
| 6,500.00                         | 22.33              | 101.12         | 6,106.37                    | -390.41         | 2,029.71        | -397.85                       | 0.00                          | 0.00                         | 0.00                        |  |
| 6,600.00                         | 22.33              | 101.12         | 6,198.87                    | -397.74         | 2,066.99        | -405.32                       | 0.00                          | 0.00                         | 0.00                        |  |
| 6,700.00                         | 22.33              | 101.12         | 6,291.37                    | -405.07         | 2,104.27        | -412.78                       | 0.00                          | 0.00                         | 0.00                        |  |
| 6,800.00                         | 22.33              | 101.12         | 6,383.87                    | -412.40         | 2,141.56        | -420.24                       | 0.00                          | 0.00                         | 0.00                        |  |
| 6,900.00                         | 22.33              | 101.12         | 6,476.37                    | -419.73         | 2,178.84        | -427.71                       | 0.00                          | 0.00                         | 0.00                        |  |
| 7,000.00                         | 22.33              | 101.12         | 6,568.87                    | -427.05         | 2,216.12        | -435.17                       | 0.00                          | 0.00                         | 0.00                        |  |
| 7,100.00                         | 22.33              | 101.12         | 6,661.37                    | -434.38         | 2,253.40        | -442.64                       | 0.00                          | 0.00                         | 0.00                        |  |
| 7,113.83                         | 22.33              | 101.12         | 6,674.16                    | -435.39         | 2,258.55        | -443.67                       | 0.00                          | 0.00                         | 0.00                        |  |
| KOP @ 7113.83ft :: DLS = 9°/100' |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
| 7,150.00                         | 22.73              | 92.68          | 6,707.58                    | -437.05         | 2,272.28        | -445.37                       | 9.00                          | 1.10                         | -23.33                      |  |
| 7,200.00                         | 23.97              | 81.75          | 6,753.51                    | -436.04         | 2,291.99        | -444.44                       | 9.00                          | 2.48                         | -21.86                      |  |
| 7,250.00                         | 25.90              | 72.10          | 6,798.86                    | -431.22         | 2,312.44        | -439.70                       | 9.00                          | 3.87                         | -19.31                      |  |
| 7,300.00                         | 28.39              | 63.86          | 6,843.37                    | -422.63         | 2,333.52        | -431.17                       | 9.00                          | 4.97                         | -16.48                      |  |
| 7,350.00                         | 31.29              | 56.93          | 6,886.75                    | -410.30         | 2,355.08        | -418.93                       | 9.00                          | 5.80                         | -13.85                      |  |
| 7,400.00                         | 34.50              | 51.12          | 6,928.74                    | -394.32         | 2,376.99        | -403.03                       | 9.00                          | 6.43                         | -11.62                      |  |
| 7,450.00                         | 37.95              | 46.22          | 6,969.08                    | -374.78         | 2,399.13        | -383.57                       | 9.00                          | 6.89                         | -9.80                       |  |
| 7,500.00                         | 41.57              | 42.04          | 7,007.52                    | -351.82         | 2,421.35        | -360.69                       | 9.00                          | 7.24                         | -8.37                       |  |
| 7,550.00                         | 45.32              | 38.42          | 7,043.82                    | -325.56         | 2,443.51        | -334.51                       | 9.00                          | 7.50                         | -7.23                       |  |
| 7,600.00                         | 49.17              | 35.25          | 7,077.76                    | -296.17         | 2,465.49        | -305.20                       | 9.00                          | 7.70                         | -6.34                       |  |
| 7,650.00                         | 53.10              | 32.43          | 7,109.13                    | -263.83         | 2,487.14        | -272.94                       | 9.00                          | 7.86                         | -5.64                       |  |
| 7,700.00                         | 57.09              | 29.89          | 7,137.74                    | -228.74         | 2,508.33        | -237.93                       | 9.00                          | 7.98                         | -5.08                       |  |
| 7,750.00                         | 61.12              | 27.57          | 7,163.41                    | -191.12         | 2,528.93        | -200.38                       | 9.00                          | 8.07                         | -4.64                       |  |
| 7,800.00                         | 65.20              | 25.42          | 7,185.98                    | -151.19         | 2,548.82        | -160.53                       | 9.00                          | 8.15                         | -4.29                       |  |
| 7,850.00                         | 69.30              | 23.41          | 7,205.31                    | -109.21         | 2,567.86        | -118.63                       | 9.00                          | 8.20                         | -4.02                       |  |
| 7,900.00                         | 73.42              | 21.51          | 7,221.29                    | -65.44          | 2,585.95        | -74.92                        | 9.00                          | 8.25                         | -3.81                       |  |
| 7,950.00                         | 77.56              | 19.69          | 7,233.82                    | -20.14          | 2,602.97        | -29.68                        | 9.00                          | 8.28                         | -3.64                       |  |
| 8,000.00                         | 81.71              | 17.92          | 7,242.81                    | 26.41           | 2,618.82        | 16.81                         | 9.00                          | 8.30                         | -3.53                       |  |
| 8,050.00                         | 85.87              | 16.20          | 7,248.21                    | 73.92           | 2,633.39        | 64.27                         | 9.00                          | 8.32                         | -3.46                       |  |
| 8,099.57                         | 90.00              | 14.50          | 7,250.00                    | 121.68          | 2,646.50        | 111.98                        | 9.00                          | 8.33                         | -3.42                       |  |
| End Build/TPZ @ 8099.57ft        |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
| 8,200.00                         | 90.00              | 14.50          | 7,250.00                    | 218.91          | 2,671.64        | 209.12                        | 0.00                          | 0.00                         | 0.00                        |  |

## Planning Report

|                  |                                |                                     |                               |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db     | <b>Local Co-ordinate Reference:</b> | Well COUNTY LINE 3229-18H     |
| <b>Company:</b>  | VERDAD RESOURCES               | <b>TVD Reference:</b>               | RKB = 24' @ 5070.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD               | <b>MD Reference:</b>                | RKB = 24' @ 5070.00usft (RIG) |
| <b>Site:</b>     | 1N-65W-31 COUNTY LINE 3229 PAD | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | COUNTY LINE 3229-18H           | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Plan A                         |                                     |                               |
| <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) |
| 8,249.57                               | 90.00              | 14.50          | 7,250.00                    | 266.90          | 2,684.05        | 257.06                        | 0.00                          | 0.00                         | 0.00                        |
| Begin Turn for 3-D Spacing @ 8249.57ft |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 8,300.00                               | 90.00              | 13.49          | 7,250.00                    | 315.83          | 2,696.25        | 305.95                        | 2.00                          | 0.00                         | -2.00                       |
| 8,400.00                               | 90.00              | 11.49          | 7,250.00                    | 413.46          | 2,717.88        | 403.50                        | 2.00                          | 0.00                         | -2.00                       |
| 8,500.00                               | 90.00              | 9.49           | 7,250.00                    | 511.78          | 2,736.09        | 501.75                        | 2.00                          | 0.00                         | -2.00                       |
| 8,600.00                               | 90.00              | 7.49           | 7,250.00                    | 610.68          | 2,750.85        | 600.60                        | 2.00                          | 0.00                         | -2.00                       |
| 8,700.00                               | 90.00              | 5.49           | 7,250.00                    | 710.04          | 2,762.16        | 699.91                        | 2.00                          | 0.00                         | -2.00                       |
| 8,800.00                               | 90.00              | 3.49           | 7,250.00                    | 809.72          | 2,769.99        | 799.57                        | 2.00                          | 0.00                         | -2.00                       |
| 8,900.00                               | 90.00              | 1.49           | 7,250.00                    | 909.62          | 2,774.33        | 899.45                        | 2.00                          | 0.00                         | -2.00                       |
| 9,000.00                               | 90.00              | 359.49         | 7,250.00                    | 1,009.62        | 2,775.19        | 999.44                        | 2.00                          | 0.00                         | -2.00                       |
| 9,100.00                               | 90.00              | 357.49         | 7,250.00                    | 1,109.58        | 2,772.56        | 1,099.41                      | 2.00                          | 0.00                         | -2.00                       |
| 9,200.00                               | 90.00              | 355.49         | 7,250.00                    | 1,209.38        | 2,766.44        | 1,199.24                      | 2.00                          | 0.00                         | -2.00                       |
| 9,300.00                               | 90.00              | 353.49         | 7,250.00                    | 1,308.92        | 2,756.84        | 1,298.80                      | 2.00                          | 0.00                         | -2.00                       |
| 9,400.00                               | 90.00              | 351.49         | 7,250.00                    | 1,408.05        | 2,743.77        | 1,397.99                      | 2.00                          | 0.00                         | -2.00                       |
| 9,474.57                               | 90.00              | 350.00         | 7,250.00                    | 1,481.65        | 2,731.78        | 1,471.63                      | 2.00                          | 0.00                         | -2.00                       |
| End Turn @ 9474.57ft                   |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 9,500.00                               | 90.00              | 350.00         | 7,250.00                    | 1,506.69        | 2,727.37        | 1,496.69                      | 0.00                          | 0.00                         | 0.00                        |
| 9,600.00                               | 90.00              | 350.00         | 7,250.00                    | 1,605.18        | 2,710.00        | 1,595.23                      | 0.00                          | 0.00                         | 0.00                        |
| 9,700.00                               | 90.00              | 350.00         | 7,250.00                    | 1,703.66        | 2,692.64        | 1,693.78                      | 0.00                          | 0.00                         | 0.00                        |
| 9,786.43                               | 90.00              | 350.00         | 7,250.00                    | 1,788.77        | 2,677.63        | 1,778.95                      | 0.00                          | 0.00                         | 0.00                        |
| Begin Turn to BHL @ 9786.43ft          |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 9,800.00                               | 90.00              | 350.20         | 7,250.00                    | 1,802.14        | 2,675.30        | 1,792.32                      | 1.50                          | 0.00                         | 1.50                        |
| 9,900.00                               | 90.00              | 351.70         | 7,250.00                    | 1,900.89        | 2,659.57        | 1,891.13                      | 1.50                          | 0.00                         | 1.50                        |
| 10,000.00                              | 90.00              | 353.20         | 7,250.00                    | 2,000.03        | 2,646.44        | 1,990.31                      | 1.50                          | 0.00                         | 1.50                        |
| 10,100.00                              | 90.00              | 354.70         | 7,250.00                    | 2,099.47        | 2,635.91        | 2,089.79                      | 1.50                          | 0.00                         | 1.50                        |
| 10,200.00                              | 90.00              | 356.20         | 7,250.00                    | 2,199.15        | 2,627.98        | 2,189.50                      | 1.50                          | 0.00                         | 1.50                        |
| 10,300.00                              | 90.00              | 357.70         | 7,250.00                    | 2,299.00        | 2,622.67        | 2,289.38                      | 1.50                          | 0.00                         | 1.50                        |
| 10,400.00                              | 90.00              | 359.20         | 7,250.00                    | 2,398.97        | 2,619.97        | 2,389.35                      | 1.50                          | 0.00                         | 1.50                        |
| 10,453.69                              | 90.00              | 0.01           | 7,250.00                    | 2,452.66        | 2,619.60        | 2,443.04                      | 1.50                          | 0.00                         | 1.50                        |
| End Turn @ 10453.69ft                  |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 10,500.00                              | 90.00              | 0.01           | 7,250.00                    | 2,498.96        | 2,619.61        | 2,489.35                      | 0.00                          | 0.00                         | 0.00                        |
| 10,600.00                              | 90.00              | 0.01           | 7,250.00                    | 2,598.96        | 2,619.62        | 2,589.35                      | 0.00                          | 0.00                         | 0.00                        |
| 10,700.00                              | 90.00              | 0.01           | 7,250.00                    | 2,698.96        | 2,619.64        | 2,689.34                      | 0.00                          | 0.00                         | 0.00                        |
| 10,800.00                              | 90.00              | 0.01           | 7,250.00                    | 2,798.96        | 2,619.65        | 2,789.34                      | 0.00                          | 0.00                         | 0.00                        |
| 10,900.00                              | 90.00              | 0.01           | 7,250.00                    | 2,898.96        | 2,619.67        | 2,889.34                      | 0.00                          | 0.00                         | 0.00                        |
| 11,000.00                              | 90.00              | 0.01           | 7,250.00                    | 2,998.96        | 2,619.68        | 2,989.34                      | 0.00                          | 0.00                         | 0.00                        |
| 11,100.00                              | 90.00              | 0.01           | 7,250.00                    | 3,098.96        | 2,619.70        | 3,089.34                      | 0.00                          | 0.00                         | 0.00                        |
| 11,200.00                              | 90.00              | 0.01           | 7,250.00                    | 3,198.96        | 2,619.71        | 3,189.34                      | 0.00                          | 0.00                         | 0.00                        |
| 11,300.00                              | 90.00              | 0.01           | 7,250.00                    | 3,298.96        | 2,619.73        | 3,289.34                      | 0.00                          | 0.00                         | 0.00                        |
| 11,400.00                              | 90.00              | 0.01           | 7,250.00                    | 3,398.96        | 2,619.75        | 3,389.34                      | 0.00                          | 0.00                         | 0.00                        |
| 11,500.00                              | 90.00              | 0.01           | 7,250.00                    | 3,498.96        | 2,619.76        | 3,489.34                      | 0.00                          | 0.00                         | 0.00                        |
| 11,600.00                              | 90.00              | 0.01           | 7,250.00                    | 3,598.96        | 2,619.78        | 3,589.34                      | 0.00                          | 0.00                         | 0.00                        |
| 11,700.00                              | 90.00              | 0.01           | 7,250.00                    | 3,698.96        | 2,619.79        | 3,689.34                      | 0.00                          | 0.00                         | 0.00                        |
| 11,800.00                              | 90.00              | 0.01           | 7,250.00                    | 3,798.96        | 2,619.81        | 3,789.34                      | 0.00                          | 0.00                         | 0.00                        |
| 11,900.00                              | 90.00              | 0.01           | 7,250.00                    | 3,898.96        | 2,619.82        | 3,889.34                      | 0.00                          | 0.00                         | 0.00                        |
| 12,000.00                              | 90.00              | 0.01           | 7,250.00                    | 3,998.96        | 2,619.84        | 3,989.33                      | 0.00                          | 0.00                         | 0.00                        |
| 12,100.00                              | 90.00              | 0.01           | 7,250.00                    | 4,098.96        | 2,619.86        | 4,089.33                      | 0.00                          | 0.00                         | 0.00                        |
| 12,200.00                              | 90.00              | 0.01           | 7,250.00                    | 4,198.96        | 2,619.87        | 4,189.33                      | 0.00                          | 0.00                         | 0.00                        |
| 12,300.00                              | 90.00              | 0.01           | 7,250.00                    | 4,298.96        | 2,619.89        | 4,289.33                      | 0.00                          | 0.00                         | 0.00                        |
| 12,400.00                              | 90.00              | 0.01           | 7,250.00                    | 4,398.96        | 2,619.90        | 4,389.33                      | 0.00                          | 0.00                         | 0.00                        |
| 12,500.00                              | 90.00              | 0.01           | 7,250.00                    | 4,498.96        | 2,619.92        | 4,489.33                      | 0.00                          | 0.00                         | 0.00                        |
| 12,600.00                              | 90.00              | 0.01           | 7,250.00                    | 4,598.96        | 2,619.93        | 4,589.33                      | 0.00                          | 0.00                         | 0.00                        |
| 12,700.00                              | 90.00              | 0.01           | 7,250.00                    | 4,698.96        | 2,619.95        | 4,689.33                      | 0.00                          | 0.00                         | 0.00                        |

## Planning Report

|                  |                                |                                     |                               |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db     | <b>Local Co-ordinate Reference:</b> | Well COUNTY LINE 3229-18H     |
| <b>Company:</b>  | VERDAD RESOURCES               | <b>TVD Reference:</b>               | RKB = 24' @ 5070.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD               | <b>MD Reference:</b>                | RKB = 24' @ 5070.00usft (RIG) |
| <b>Site:</b>     | 1N-65W-31 COUNTY LINE 3229 PAD | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | COUNTY LINE 3229-18H           | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Plan A                         |                                     |                               |
| <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) |  |
| 12,800.00             | 90.00           | 0.01        | 7,250.00              | 4,798.96     | 2,619.96     | 4,789.33                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,900.00             | 90.00           | 0.01        | 7,250.00              | 4,898.96     | 2,619.98     | 4,889.33                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,000.00             | 90.00           | 0.01        | 7,250.00              | 4,998.96     | 2,620.00     | 4,989.33                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,100.00             | 90.00           | 0.01        | 7,250.00              | 5,098.96     | 2,620.01     | 5,089.33                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,200.00             | 90.00           | 0.01        | 7,250.00              | 5,198.96     | 2,620.03     | 5,189.33                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,300.00             | 90.00           | 0.01        | 7,250.00              | 5,298.96     | 2,620.04     | 5,289.33                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,400.00             | 90.00           | 0.01        | 7,250.00              | 5,398.96     | 2,620.06     | 5,389.32                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,500.00             | 90.00           | 0.01        | 7,250.00              | 5,498.96     | 2,620.07     | 5,489.32                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,600.00             | 90.00           | 0.01        | 7,250.00              | 5,598.96     | 2,620.09     | 5,589.32                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,700.00             | 90.00           | 0.01        | 7,250.00              | 5,698.96     | 2,620.10     | 5,689.32                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,800.00             | 90.00           | 0.01        | 7,250.00              | 5,798.96     | 2,620.12     | 5,789.32                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,900.00             | 90.00           | 0.01        | 7,250.00              | 5,898.96     | 2,620.14     | 5,889.32                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,000.00             | 90.00           | 0.01        | 7,250.00              | 5,998.96     | 2,620.15     | 5,989.32                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,100.00             | 90.00           | 0.01        | 7,250.00              | 6,098.96     | 2,620.17     | 6,089.32                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,200.00             | 90.00           | 0.01        | 7,250.00              | 6,198.96     | 2,620.18     | 6,189.32                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,300.00             | 90.00           | 0.01        | 7,250.00              | 6,298.96     | 2,620.20     | 6,289.32                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,400.00             | 90.00           | 0.01        | 7,250.00              | 6,398.96     | 2,620.21     | 6,389.32                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,500.00             | 90.00           | 0.01        | 7,250.00              | 6,498.96     | 2,620.23     | 6,489.32                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,600.00             | 90.00           | 0.01        | 7,250.00              | 6,598.96     | 2,620.24     | 6,589.32                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,700.00             | 90.00           | 0.01        | 7,250.00              | 6,698.96     | 2,620.26     | 6,689.32                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,800.00             | 90.00           | 0.01        | 7,250.00              | 6,798.96     | 2,620.28     | 6,789.31                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,900.00             | 90.00           | 0.01        | 7,250.00              | 6,898.96     | 2,620.29     | 6,889.31                | 0.00                    | 0.00                   | 0.00                  |  |
| 15,000.00             | 90.00           | 0.01        | 7,250.00              | 6,998.96     | 2,620.31     | 6,989.31                | 0.00                    | 0.00                   | 0.00                  |  |
| 15,100.00             | 90.00           | 0.01        | 7,250.00              | 7,098.96     | 2,620.32     | 7,089.31                | 0.00                    | 0.00                   | 0.00                  |  |
| 15,142.52             | 90.00           | 0.01        | 7,250.00              | 7,141.48     | 2,620.33     | 7,131.83                | 0.00                    | 0.00                   | 0.00                  |  |
| BPZ @ 15142.52ft      |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 15,200.00             | 90.00           | 0.01        | 7,250.00              | 7,198.96     | 2,620.34     | 7,189.31                | 0.00                    | 0.00                   | 0.00                  |  |
| 15,232.52             | 90.00           | 0.01        | 7,250.00              | 7,231.48     | 2,620.34     | 7,221.83                | 0.00                    | 0.00                   | 0.00                  |  |
| TD Well @ 15232.52ft  |                 |             |                       |              |              |                         |                         |                        |                       |  |

| Casing Points         |                       |        |  |                     |                   |
|-----------------------|-----------------------|--------|--|---------------------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name   |  | Casing Diameter (") | Hole Diameter (") |
| 2,358.03              | 2,275.00              | 9 5/8" |  | 9-5/8               | 13-1/2            |



## Planning Report

|                  |                                |                                     |                               |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db     | <b>Local Co-ordinate Reference:</b> | Well COUNTY LINE 3229-18H     |
| <b>Company:</b>  | VERDAD RESOURCES               | <b>TVD Reference:</b>               | RKB = 24' @ 5070.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD               | <b>MD Reference:</b>                | RKB = 24' @ 5070.00usft (RIG) |
| <b>Site:</b>     | 1N-65W-31 COUNTY LINE 3229 PAD | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | COUNTY LINE 3229-18H           | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Plan A                         |                                     |                               |
| <b>Design:</b>   | 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) |  |
| 200.00                      | 200.00                      | 0.00              | 0.00            | Begin Nudge @ 200.00ft                 |
| 350.00                      | 349.93                      | 3.79              | 1.02            | Hold Tangent @ 350.00ft                |
| 360.35                      | 360.27                      | 4.32              | 1.16            | Begin Drop @ 360.35ft                  |
| 510.35                      | 510.20                      | 8.11              | 2.17            | Begin Nudge @ 510.35ft                 |
| 1,626.85                    | 1,598.65                    | -33.32            | 212.97          | Hold Tangent @ 1626.85ft               |
| 7,113.83                    | 6,674.16                    | -435.39           | 2,258.55        | KOP @ 7113.83ft :: DLS = 9°/100'       |
| 8,099.57                    | 7,250.00                    | 121.68            | 2,646.50        | End Build/TPZ @ 8099.57ft              |
| 8,249.57                    | 7,250.00                    | 266.90            | 2,684.05        | Begin Turn for 3-D Spacing @ 8249.57ft |
| 9,474.57                    | 7,250.00                    | 1,481.65          | 2,731.78        | End Turn @ 9474.57ft                   |
| 9,786.43                    | 7,250.00                    | 1,788.77          | 2,677.63        | Begin Turn to BHL @ 9786.43ft          |
| 10,453.69                   | 7,250.00                    | 2,452.66          | 2,619.60        | End Turn @ 10453.69ft                  |
| 15,142.52                   | 7,250.00                    | 7,141.48          | 2,620.33        | BPZ @ 15142.52ft                       |
| 15,232.52                   | 7,250.00                    | 7,231.48          | 2,620.34        | TD Well @ 15232.52ft                   |