

# **VERDAD RESOURCES**

**WATTENBERG FIELD  
1N-65W-31 COUNTY LINE 3229 PAD  
COUNTY LINE 3229-23H**

**Plan A**

**Plan: Design #2**

## **Standard Planning Report**

**24 May, 2022**

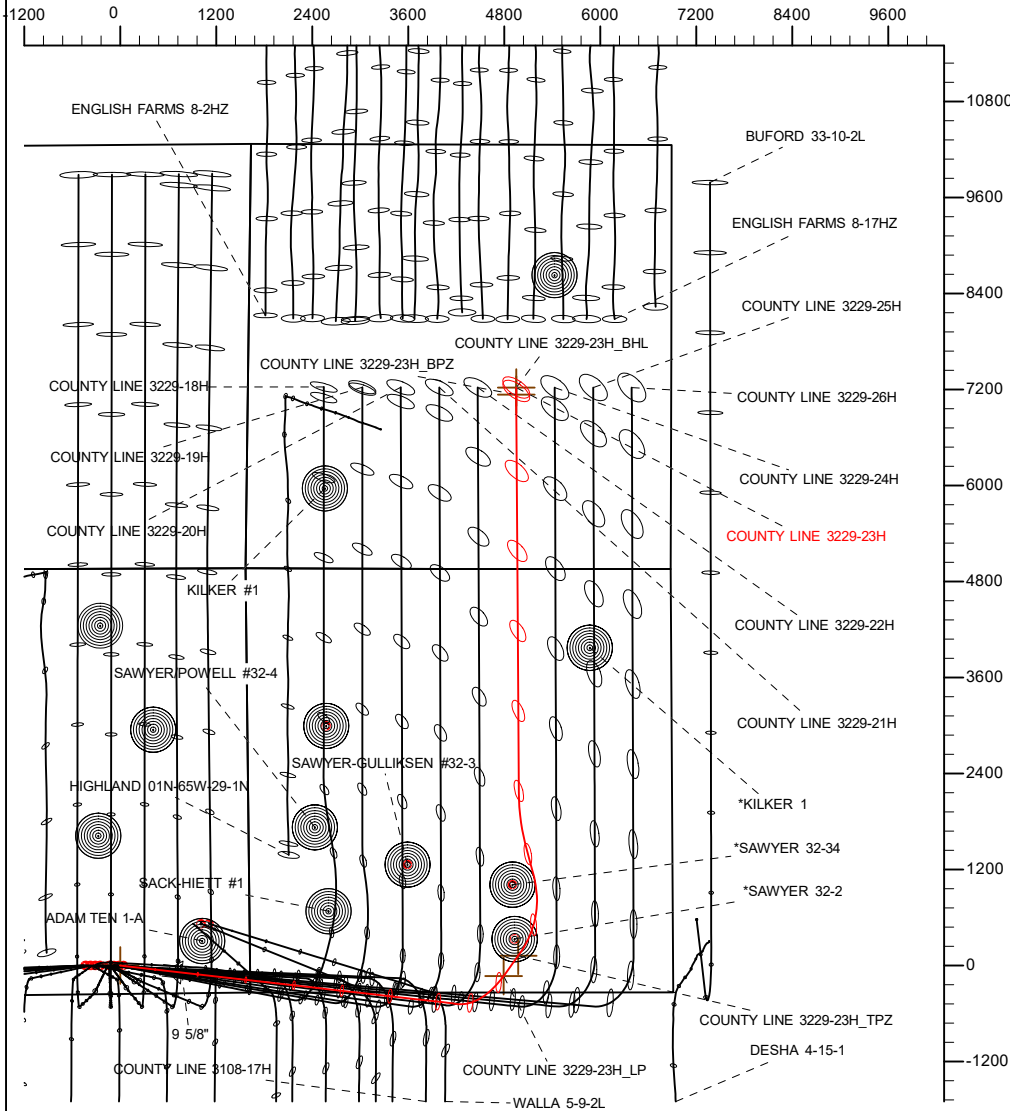
Project: WATTENBERG FIELD  
Site: 1N-65W-31 COUNTY LINE 3229 PAD  
Well: COUNTY LINE 3229-23H  
Wellbore: Plan A  
Design: Design #2

# VERDAD RESOURCES

## CASING DETAILS

| TVD     | MD      | Name   | Size  |
|---------|---------|--------|-------|
| 2275.00 | 2467.84 | 9 5/8" | 9-5/8 |

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



SHL  
340' FSL  
1625' FEL

TPZ  
460' FSL  
1935' FEL

BPZ  
2180' FSL  
1936' FEL

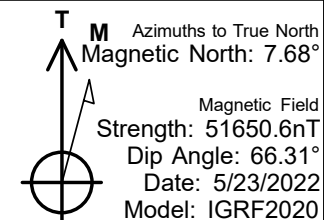
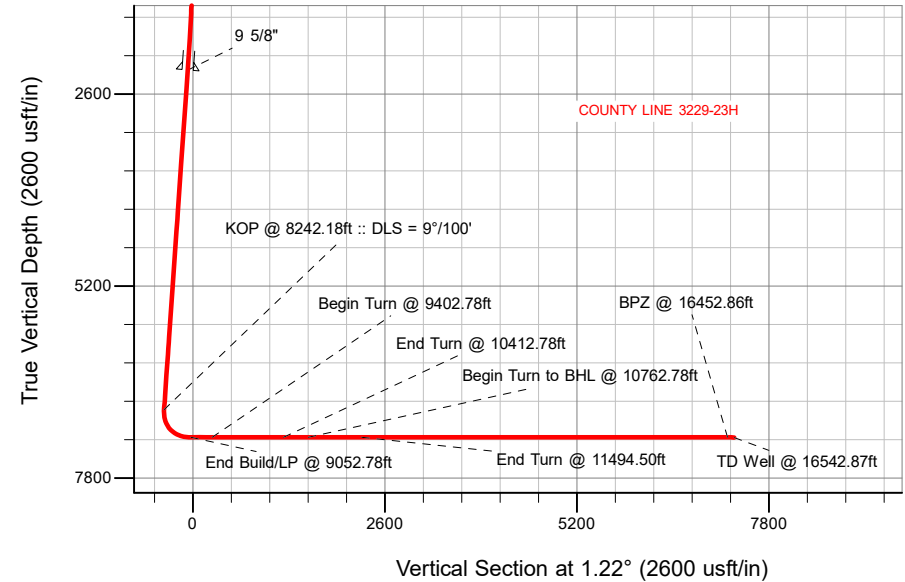
BHL  
2270' FSL  
1936' FEL

## 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    |                          |
| 288.75   | 0.00  | 0.00   | 288.75  | 0.00    | 0.00    | 0.00 | 0.00   | 0.00    |                          |
| 2148.25  | 37.19 | 96.49  | 2020.40 | -65.65  | 578.86  | 2.00 | 96.49  | -53.51  |                          |
| 8242.18  | 37.19 | 96.49  | 6875.04 | -482.20 | 4238.79 | 0.00 | 0.00   | -391.84 |                          |
| 9052.78  | 90.00 | 35.50  | 7250.00 | -131.17 | 4794.80 | 9.00 | -66.17 | -29.05  |                          |
| 9402.78  | 90.00 | 35.50  | 7250.00 | 153.77  | 4998.05 | 0.00 | 0.00   | 260.15  |                          |
| 10412.78 | 90.00 | 345.00 | 7250.00 | 1115.79 | 5172.01 | 5.00 | -90.00 | 1225.66 |                          |
| 10762.78 | 90.00 | 345.00 | 7250.00 | 1453.86 | 5081.42 | 0.00 | 0.00   | 1561.72 |                          |
| 11494.50 | 90.00 | 359.63 | 7250.00 | 2177.05 | 4983.87 | 2.00 | 90.00  | 2282.67 |                          |
| 16542.87 | 90.00 | 359.63 | 7250.00 | 7225.31 | 4951.66 | 0.00 | 0.00   | 7329.10 | COUNTY LINE 3229-23H_BHL |

## WELLBORE TARGET DETAILS (LAT/LONG)

| Name                     | TVD     | +N/-S   | +E/-W   | Latitude  | Longitude   |
|--------------------------|---------|---------|---------|-----------|-------------|
| COUNTY LINE 3229-23H_SHL | 0.00    | 0.00    | 0.00    | 40.001457 | -104.703075 |
| COUNTY LINE 3229-23H_LP  | 7250.00 | -131.17 | 4794.80 | 40.001095 | -104.685961 |
| COUNTY LINE 3229-23H_TPZ | 7250.00 | 123.47  | 4975.89 | 40.001795 | -104.685313 |
| COUNTY LINE 3229-23H_BPZ | 7250.00 | 7135.31 | 4951.97 | 40.021044 | -104.685394 |
| COUNTY LINE 3229-23H_BHL | 7250.00 | 7225.31 | 4951.66 | 40.021291 | -104.685395 |



## WELL DETAILS: COUNTY LINE 3229-23H

GL = 5046'  
RKB = 24' @ 5070.00usft (RIG)

Plan: Design #2 (COUNTY LINE 3229-23H/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 3229-23H     |
| <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 3229-23H           | <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 3229-23H |           |                            |                   |
| <b>Well Position</b>        | <b>+N/-S</b>         | 0.00 usft | <b>Northing:</b>           | 1,244,380.84 usft |
|                             | <b>+E/-W</b>         | 0.00 usft | <b>Easting:</b>            | 3,223,253.61 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                | 51,650.62100406            |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <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                 | 1.22                 |

|                                 |                        |                          |                    |                               |  |
|---------------------------------|------------------------|--------------------------|--------------------|-------------------------------|--|
| <b>Plan Survey Tool Program</b> |                        | <b>Date</b>              | 5/24/2022          |                               |  |
| <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               | 16,542.87                | 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 3229-23H     |
| <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 3229-23H           | <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    |                   |
| 288.75                | 0.00            | 0.00        | 288.75                | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 2,148.25              | 37.19           | 96.49       | 2,020.40              | -65.85       | 578.86       | 2.00                    | 2.00                   | 0.00                  | 96.49   |                   |
| 8,242.18              | 37.19           | 96.49       | 6,875.04              | -482.20      | 4,238.80     | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 9,052.78              | 90.00           | 35.50       | 7,250.00              | -131.17      | 4,794.80     | 9.00                    | 6.51                   | -7.52                 | -66.17  |                   |
| 9,402.78              | 90.00           | 35.50       | 7,250.00              | 153.77       | 4,998.05     | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 10,412.78             | 90.00           | 345.00      | 7,250.00              | 1,115.79     | 5,172.01     | 5.00                    | 0.00                   | -5.00                 | -90.00  |                   |
| 10,762.78             | 90.00           | 345.00      | 7,250.00              | 1,453.86     | 5,081.42     | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 11,494.50             | 90.00           | 359.63      | 7,250.00              | 2,177.05     | 4,983.87     | 2.00                    | 0.00                   | 2.00                  | 90.00   |                   |
| 16,542.87             | 90.00           | 359.63      | 7,250.00              | 7,225.31     | 4,951.66     | 0.00                    | 0.00                   | 0.00                  | 0.00    | COUNTY LINE 3229- |

# Planning Report

|                  |                                |                                     |                               |
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| <b>Site:</b>     | 1N-65W-31 COUNTY LINE 3229 PAD | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | COUNTY LINE 3229-23H           | <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                  |
| 288.75                   | 0.00            | 0.00        | 288.75                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| Begin Nudge @ 288.75ft   |                 |             |                       |              |              |                         |                         |                        |                       |
| 300.00                   | 0.22            | 96.49       | 300.00                | 0.00         | 0.02         | 0.00                    | 2.00                    | 2.00                   | 0.00                  |
| 400.00                   | 2.22            | 96.49       | 399.97                | -0.24        | 2.15         | -0.20                   | 2.00                    | 2.00                   | 0.00                  |
| 500.00                   | 4.22            | 96.49       | 499.81                | -0.88        | 7.74         | -0.72                   | 2.00                    | 2.00                   | 0.00                  |
| 600.00                   | 6.22            | 96.49       | 599.39                | -1.91        | 16.78        | -1.55                   | 2.00                    | 2.00                   | 0.00                  |
| 700.00                   | 8.22            | 96.49       | 698.59                | -3.33        | 29.28        | -2.71                   | 2.00                    | 2.00                   | 0.00                  |
| 800.00                   | 10.22           | 96.49       | 797.29                | -5.14        | 45.21        | -4.18                   | 2.00                    | 2.00                   | 0.00                  |
| 900.00                   | 12.22           | 96.49       | 895.37                | -7.34        | 64.55        | -5.97                   | 2.00                    | 2.00                   | 0.00                  |
| 1,000.00                 | 14.22           | 96.49       | 992.72                | -9.93        | 87.28        | -8.07                   | 2.00                    | 2.00                   | 0.00                  |
| 1,100.00                 | 16.22           | 96.49       | 1,089.20              | -12.90       | 113.37       | -10.48                  | 2.00                    | 2.00                   | 0.00                  |
| 1,200.00                 | 18.22           | 96.49       | 1,184.71              | -16.24       | 142.79       | -13.20                  | 2.00                    | 2.00                   | 0.00                  |
| 1,300.00                 | 20.22           | 96.49       | 1,279.13              | -19.97       | 175.50       | -16.22                  | 2.00                    | 2.00                   | 0.00                  |
| 1,400.00                 | 22.22           | 96.49       | 1,372.34              | -24.06       | 211.47       | -19.55                  | 2.00                    | 2.00                   | 0.00                  |
| 1,500.00                 | 24.22           | 96.49       | 1,464.23              | -28.51       | 250.65       | -23.17                  | 2.00                    | 2.00                   | 0.00                  |
| 1,600.00                 | 26.22           | 96.49       | 1,554.69              | -33.33       | 293.00       | -27.08                  | 2.00                    | 2.00                   | 0.00                  |
| 1,700.00                 | 28.22           | 96.49       | 1,643.61              | -38.50       | 338.45       | -31.29                  | 2.00                    | 2.00                   | 0.00                  |
| 1,800.00                 | 30.22           | 96.49       | 1,730.88              | -44.02       | 386.96       | -35.77                  | 2.00                    | 2.00                   | 0.00                  |
| 1,900.00                 | 32.22           | 96.49       | 1,816.39              | -49.88       | 438.46       | -40.53                  | 2.00                    | 2.00                   | 0.00                  |
| 2,000.00                 | 34.22           | 96.49       | 1,900.03              | -56.07       | 492.90       | -45.56                  | 2.00                    | 2.00                   | 0.00                  |
| 2,100.00                 | 36.22           | 96.49       | 1,981.72              | -62.59       | 550.21       | -50.86                  | 2.00                    | 2.00                   | 0.00                  |
| 2,148.25                 | 37.19           | 96.49       | 2,020.40              | -65.85       | 578.86       | -53.51                  | 2.00                    | 2.00                   | 0.00                  |
| Hold Tangent @ 2148.25ft |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,200.00                 | 37.19           | 96.49       | 2,061.63              | -69.39       | 609.94       | -56.38                  | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00                 | 37.19           | 96.49       | 2,141.29              | -76.22       | 670.00       | -61.94                  | 0.00                    | 0.00                   | 0.00                  |
| 2,400.00                 | 37.19           | 96.49       | 2,220.95              | -83.05       | 730.06       | -67.49                  | 0.00                    | 0.00                   | 0.00                  |
| 2,467.84                 | 37.19           | 96.49       | 2,275.00              | -87.69       | 770.81       | -71.25                  | 0.00                    | 0.00                   | 0.00                  |
| 9 5/8"                   |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,500.00                 | 37.19           | 96.49       | 2,300.62              | -89.88       | 790.12       | -73.04                  | 0.00                    | 0.00                   | 0.00                  |
| 2,600.00                 | 37.19           | 96.49       | 2,380.28              | -96.72       | 850.18       | -78.59                  | 0.00                    | 0.00                   | 0.00                  |
| 2,700.00                 | 37.19           | 96.49       | 2,459.94              | -103.55      | 910.24       | -84.14                  | 0.00                    | 0.00                   | 0.00                  |
| 2,800.00                 | 37.19           | 96.49       | 2,539.61              | -110.38      | 970.30       | -89.70                  | 0.00                    | 0.00                   | 0.00                  |
| 2,900.00                 | 37.19           | 96.49       | 2,619.27              | -117.21      | 1,030.35     | -95.25                  | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00                 | 37.19           | 96.49       | 2,698.93              | -124.04      | 1,090.41     | -100.80                 | 0.00                    | 0.00                   | 0.00                  |
| 3,100.00                 | 37.19           | 96.49       | 2,778.60              | -130.88      | 1,150.47     | -106.35                 | 0.00                    | 0.00                   | 0.00                  |
| 3,200.00                 | 37.19           | 96.49       | 2,858.26              | -137.71      | 1,210.53     | -111.90                 | 0.00                    | 0.00                   | 0.00                  |
| 3,300.00                 | 37.19           | 96.49       | 2,937.93              | -144.54      | 1,270.59     | -117.46                 | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00                 | 37.19           | 96.49       | 3,017.59              | -151.37      | 1,330.65     | -123.01                 | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00                 | 37.19           | 96.49       | 3,097.25              | -158.21      | 1,390.71     | -128.56                 | 0.00                    | 0.00                   | 0.00                  |
| 3,600.00                 | 37.19           | 96.49       | 3,176.92              | -165.04      | 1,450.76     | -134.11                 | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00                 | 37.19           | 96.49       | 3,256.58              | -171.87      | 1,510.82     | -139.66                 | 0.00                    | 0.00                   | 0.00                  |
| 3,800.00                 | 37.19           | 96.49       | 3,336.24              | -178.70      | 1,570.88     | -145.21                 | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00                 | 37.19           | 96.49       | 3,415.91              | -185.53      | 1,630.94     | -150.77                 | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00                 | 37.19           | 96.49       | 3,495.57              | -192.37      | 1,691.00     | -156.32                 | 0.00                    | 0.00                   | 0.00                  |
| 4,100.00                 | 37.19           | 96.49       | 3,575.23              | -199.20      | 1,751.06     | -161.87                 | 0.00                    | 0.00                   | 0.00                  |
| 4,200.00                 | 37.19           | 96.49       | 3,654.90              | -206.03      | 1,811.12     | -167.42                 | 0.00                    | 0.00                   | 0.00                  |
| 4,300.00                 | 37.19           | 96.49       | 3,734.56              | -212.86      | 1,871.18     | -172.97                 | 0.00                    | 0.00                   | 0.00                  |
| 4,400.00                 | 37.19           | 96.49       | 3,814.22              | -219.69      | 1,931.23     | -178.53                 | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00                 | 37.19           | 96.49       | 3,893.89              | -226.53      | 1,991.29     | -184.08                 | 0.00                    | 0.00                   | 0.00                  |
| 4,600.00                 | 37.19           | 96.49       | 3,973.55              | -233.36      | 2,051.35     | -189.63                 | 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 3229-23H     |
| <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 3229-23H           | <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) |
| 4,700.00                         | 37.19           | 96.49       | 4,053.22              | -240.19      | 2,111.41     | -195.18                 | 0.00                    | 0.00                   | 0.00                  |
| 4,800.00                         | 37.19           | 96.49       | 4,132.88              | -247.02      | 2,171.47     | -200.73                 | 0.00                    | 0.00                   | 0.00                  |
| 4,900.00                         | 37.19           | 96.49       | 4,212.54              | -253.86      | 2,231.53     | -206.29                 | 0.00                    | 0.00                   | 0.00                  |
| 5,000.00                         | 37.19           | 96.49       | 4,292.21              | -260.69      | 2,291.59     | -211.84                 | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00                         | 37.19           | 96.49       | 4,371.87              | -267.52      | 2,351.64     | -217.39                 | 0.00                    | 0.00                   | 0.00                  |
| 5,200.00                         | 37.19           | 96.49       | 4,451.53              | -274.35      | 2,411.70     | -222.94                 | 0.00                    | 0.00                   | 0.00                  |
| 5,300.00                         | 37.19           | 96.49       | 4,531.20              | -281.18      | 2,471.76     | -228.49                 | 0.00                    | 0.00                   | 0.00                  |
| 5,400.00                         | 37.19           | 96.49       | 4,610.86              | -288.02      | 2,531.82     | -234.05                 | 0.00                    | 0.00                   | 0.00                  |
| 5,500.00                         | 37.19           | 96.49       | 4,690.52              | -294.85      | 2,591.88     | -239.60                 | 0.00                    | 0.00                   | 0.00                  |
| 5,600.00                         | 37.19           | 96.49       | 4,770.19              | -301.68      | 2,651.94     | -245.15                 | 0.00                    | 0.00                   | 0.00                  |
| 5,700.00                         | 37.19           | 96.49       | 4,849.85              | -308.51      | 2,712.00     | -250.70                 | 0.00                    | 0.00                   | 0.00                  |
| 5,800.00                         | 37.19           | 96.49       | 4,929.51              | -315.35      | 2,772.05     | -256.25                 | 0.00                    | 0.00                   | 0.00                  |
| 5,900.00                         | 37.19           | 96.49       | 5,009.18              | -322.18      | 2,832.11     | -261.81                 | 0.00                    | 0.00                   | 0.00                  |
| 6,000.00                         | 37.19           | 96.49       | 5,088.84              | -329.01      | 2,892.17     | -267.36                 | 0.00                    | 0.00                   | 0.00                  |
| 6,100.00                         | 37.19           | 96.49       | 5,168.50              | -335.84      | 2,952.23     | -272.91                 | 0.00                    | 0.00                   | 0.00                  |
| 6,200.00                         | 37.19           | 96.49       | 5,248.17              | -342.67      | 3,012.29     | -278.46                 | 0.00                    | 0.00                   | 0.00                  |
| 6,300.00                         | 37.19           | 96.49       | 5,327.83              | -349.51      | 3,072.35     | -284.01                 | 0.00                    | 0.00                   | 0.00                  |
| 6,400.00                         | 37.19           | 96.49       | 5,407.50              | -356.34      | 3,132.41     | -289.56                 | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00                         | 37.19           | 96.49       | 5,487.16              | -363.17      | 3,192.47     | -295.12                 | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00                         | 37.19           | 96.49       | 5,566.82              | -370.00      | 3,252.52     | -300.67                 | 0.00                    | 0.00                   | 0.00                  |
| 6,700.00                         | 37.19           | 96.49       | 5,646.49              | -376.84      | 3,312.58     | -306.22                 | 0.00                    | 0.00                   | 0.00                  |
| 6,800.00                         | 37.19           | 96.49       | 5,726.15              | -383.67      | 3,372.64     | -311.77                 | 0.00                    | 0.00                   | 0.00                  |
| 6,900.00                         | 37.19           | 96.49       | 5,805.81              | -390.50      | 3,432.70     | -317.32                 | 0.00                    | 0.00                   | 0.00                  |
| 7,000.00                         | 37.19           | 96.49       | 5,885.48              | -397.33      | 3,492.76     | -322.88                 | 0.00                    | 0.00                   | 0.00                  |
| 7,100.00                         | 37.19           | 96.49       | 5,965.14              | -404.16      | 3,552.82     | -328.43                 | 0.00                    | 0.00                   | 0.00                  |
| 7,200.00                         | 37.19           | 96.49       | 6,044.80              | -411.00      | 3,612.88     | -333.98                 | 0.00                    | 0.00                   | 0.00                  |
| 7,300.00                         | 37.19           | 96.49       | 6,124.47              | -417.83      | 3,672.93     | -339.53                 | 0.00                    | 0.00                   | 0.00                  |
| 7,400.00                         | 37.19           | 96.49       | 6,204.13              | -424.66      | 3,732.99     | -345.08                 | 0.00                    | 0.00                   | 0.00                  |
| 7,500.00                         | 37.19           | 96.49       | 6,283.79              | -431.49      | 3,793.05     | -350.64                 | 0.00                    | 0.00                   | 0.00                  |
| 7,600.00                         | 37.19           | 96.49       | 6,363.46              | -438.33      | 3,853.11     | -356.19                 | 0.00                    | 0.00                   | 0.00                  |
| 7,700.00                         | 37.19           | 96.49       | 6,443.12              | -445.16      | 3,913.17     | -361.74                 | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00                         | 37.19           | 96.49       | 6,522.79              | -451.99      | 3,973.23     | -367.29                 | 0.00                    | 0.00                   | 0.00                  |
| 7,900.00                         | 37.19           | 96.49       | 6,602.45              | -458.82      | 4,033.29     | -372.84                 | 0.00                    | 0.00                   | 0.00                  |
| 8,000.00                         | 37.19           | 96.49       | 6,682.11              | -465.65      | 4,093.34     | -378.40                 | 0.00                    | 0.00                   | 0.00                  |
| 8,100.00                         | 37.19           | 96.49       | 6,761.78              | -472.49      | 4,153.40     | -383.95                 | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00                         | 37.19           | 96.49       | 6,841.44              | -479.32      | 4,213.46     | -389.50                 | 0.00                    | 0.00                   | 0.00                  |
| 8,242.18                         | 37.19           | 96.49       | 6,875.04              | -482.20      | 4,238.80     | -391.84                 | 0.00                    | 0.00                   | 0.00                  |
| KOP @ 8242.18ft :: DLS = 9°/100' |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,250.00                         | 37.48           | 95.43       | 6,881.26              | -482.69      | 4,243.51     | -392.23                 | 9.00                    | 3.70                   | -13.53                |
| 8,300.00                         | 39.54           | 89.00       | 6,920.40              | -483.86      | 4,274.58     | -392.73                 | 9.00                    | 4.12                   | -12.86                |
| 8,350.00                         | 41.92           | 83.15       | 6,958.30              | -481.58      | 4,307.10     | -389.77                 | 9.00                    | 4.77                   | -11.71                |
| 8,400.00                         | 44.57           | 77.84       | 6,994.73              | -475.89      | 4,340.85     | -383.36                 | 9.00                    | 5.31                   | -10.62                |
| 8,450.00                         | 47.45           | 73.03       | 7,029.46              | -466.82      | 4,375.63     | -373.55                 | 9.00                    | 5.75                   | -9.63                 |
| 8,500.00                         | 50.51           | 68.65       | 7,062.28              | -454.41      | 4,411.24     | -360.38                 | 9.00                    | 6.12                   | -8.75                 |
| 8,550.00                         | 53.72           | 64.65       | 7,092.99              | -438.75      | 4,447.44     | -343.96                 | 9.00                    | 6.42                   | -8.00                 |
| 8,600.00                         | 57.05           | 60.97       | 7,121.40              | -419.93      | 4,484.01     | -324.37                 | 9.00                    | 6.66                   | -7.35                 |
| 8,650.00                         | 60.48           | 57.57       | 7,147.33              | -398.07      | 4,520.74     | -301.73                 | 9.00                    | 6.86                   | -6.81                 |
| 8,700.00                         | 63.99           | 54.39       | 7,170.62              | -373.31      | 4,557.38     | -276.19                 | 9.00                    | 7.03                   | -6.36                 |
| 8,750.00                         | 67.57           | 51.40       | 7,191.13              | -345.80      | 4,593.73     | -247.91                 | 9.00                    | 7.16                   | -5.99                 |
| 8,800.00                         | 71.20           | 48.55       | 7,208.73              | -315.70      | 4,629.54     | -217.05                 | 9.00                    | 7.26                   | -5.68                 |
| 8,850.00                         | 74.87           | 45.83       | 7,223.32              | -283.20      | 4,664.61     | -183.82                 | 9.00                    | 7.34                   | -5.44                 |
| 8,900.00                         | 78.58           | 43.21       | 7,234.80              | -248.50      | 4,698.72     | -148.40                 | 9.00                    | 7.41                   | -5.26                 |
| 8,950.00                         | 82.30           | 40.65       | 7,243.10              | -211.82      | 4,731.65     | -111.03                 | 9.00                    | 7.45                   | -5.12                 |
| 9,000.00                         | 86.04           | 38.13       | 7,248.18              | -173.39      | 4,763.20     | -71.93                  | 9.00                    | 7.48                   | -5.03                 |

## Planning Report

|                  |                                |                                     |                               |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db     | <b>Local Co-ordinate Reference:</b> | Well COUNTY LINE 3229-23H     |
| <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 3229-23H           | <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) |  |
| 9,052.78                              | 90.00           | 35.50       | 7,250.00              | -131.17      | 4,794.80     | -29.05                  | 9.00                    | 7.50                   | -4.98                 |  |
| <b>End Build/LP @ 9052.78ft</b>       |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 9,100.00                              | 90.00           | 35.50       | 7,250.00              | -92.73       | 4,822.22     | 9.96                    | 0.00                    | 0.00                   | 0.00                  |  |
| 9,200.00                              | 90.00           | 35.50       | 7,250.00              | -11.32       | 4,880.29     | 92.59                   | 0.00                    | 0.00                   | 0.00                  |  |
| 9,300.00                              | 90.00           | 35.50       | 7,250.00              | 70.09        | 4,938.36     | 175.22                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,365.56                              | 90.00           | 35.50       | 7,250.00              | 123.47       | 4,976.43     | 229.40                  | 0.00                    | 0.00                   | 0.00                  |  |
| <b>TPZ @ 9365.56ft</b>                |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 9,402.78                              | 90.00           | 35.50       | 7,250.00              | 153.77       | 4,998.05     | 260.15                  | 0.00                    | 0.00                   | 0.00                  |  |
| <b>Begin Turn @ 9402.78ft</b>         |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 9,500.00                              | 90.00           | 30.64       | 7,250.00              | 235.22       | 5,051.08     | 342.71                  | 5.00                    | 0.00                   | -5.00                 |  |
| 9,600.00                              | 90.00           | 25.64       | 7,250.00              | 323.37       | 5,098.23     | 431.84                  | 5.00                    | 0.00                   | -5.00                 |  |
| 9,700.00                              | 90.00           | 20.64       | 7,250.00              | 415.30       | 5,137.51     | 524.59                  | 5.00                    | 0.00                   | -5.00                 |  |
| 9,800.00                              | 90.00           | 15.64       | 7,250.00              | 510.30       | 5,168.63     | 620.23                  | 5.00                    | 0.00                   | -5.00                 |  |
| 9,900.00                              | 90.00           | 10.64       | 7,250.00              | 607.65       | 5,191.36     | 718.04                  | 5.00                    | 0.00                   | -5.00                 |  |
| 10,000.00                             | 90.00           | 5.64        | 7,250.00              | 706.61       | 5,205.51     | 817.28                  | 5.00                    | 0.00                   | -5.00                 |  |
| 10,100.00                             | 90.00           | 0.64        | 7,250.00              | 806.43       | 5,210.98     | 917.19                  | 5.00                    | 0.00                   | -5.00                 |  |
| 10,200.00                             | 90.00           | 355.64      | 7,250.00              | 906.34       | 5,207.74     | 1,017.02                | 5.00                    | 0.00                   | -5.00                 |  |
| 10,300.00                             | 90.00           | 350.64      | 7,250.00              | 1,005.59     | 5,195.79     | 1,115.99                | 5.00                    | 0.00                   | -5.00                 |  |
| 10,400.00                             | 90.00           | 345.64      | 7,250.00              | 1,103.43     | 5,175.25     | 1,213.37                | 5.00                    | 0.00                   | -5.00                 |  |
| 10,412.78                             | 90.00           | 345.00      | 7,250.00              | 1,115.79     | 5,172.01     | 1,225.66                | 5.00                    | 0.00                   | -5.00                 |  |
| <b>End Turn @ 10412.78ft</b>          |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 10,500.00                             | 90.00           | 345.00      | 7,250.00              | 1,200.04     | 5,149.43     | 1,309.41                | 0.00                    | 0.00                   | 0.00                  |  |
| 10,600.00                             | 90.00           | 345.00      | 7,250.00              | 1,296.63     | 5,123.55     | 1,405.43                | 0.00                    | 0.00                   | 0.00                  |  |
| 10,700.00                             | 90.00           | 345.00      | 7,250.00              | 1,393.22     | 5,097.67     | 1,501.44                | 0.00                    | 0.00                   | 0.00                  |  |
| 10,762.78                             | 90.00           | 345.00      | 7,250.00              | 1,453.86     | 5,081.42     | 1,561.72                | 0.00                    | 0.00                   | 0.00                  |  |
| <b>Begin Turn to BHL @ 10762.78ft</b> |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 10,800.00                             | 90.00           | 345.74      | 7,250.00              | 1,489.88     | 5,072.02     | 1,597.53                | 2.00                    | 0.00                   | 2.00                  |  |
| 10,900.00                             | 90.00           | 347.74      | 7,250.00              | 1,587.21     | 5,049.09     | 1,694.35                | 2.00                    | 0.00                   | 2.00                  |  |
| 11,000.00                             | 90.00           | 349.74      | 7,250.00              | 1,685.28     | 5,029.58     | 1,791.99                | 2.00                    | 0.00                   | 2.00                  |  |
| 11,100.00                             | 90.00           | 351.74      | 7,250.00              | 1,783.97     | 5,013.49     | 1,890.31                | 2.00                    | 0.00                   | 2.00                  |  |
| 11,200.00                             | 90.00           | 353.74      | 7,250.00              | 1,883.17     | 5,000.86     | 1,989.22                | 2.00                    | 0.00                   | 2.00                  |  |
| 11,300.00                             | 90.00           | 355.74      | 7,250.00              | 1,982.74     | 4,991.71     | 2,088.57                | 2.00                    | 0.00                   | 2.00                  |  |
| 11,400.00                             | 90.00           | 357.74      | 7,250.00              | 2,082.58     | 4,986.03     | 2,188.26                | 2.00                    | 0.00                   | 2.00                  |  |
| 11,494.50                             | 90.00           | 359.63      | 7,250.00              | 2,177.05     | 4,983.87     | 2,282.67                | 2.00                    | 0.00                   | 2.00                  |  |
| <b>End Turn @ 11494.50ft</b>          |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 11,500.00                             | 90.00           | 359.63      | 7,250.00              | 2,182.55     | 4,983.83     | 2,288.16                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,600.00                             | 90.00           | 359.63      | 7,250.00              | 2,282.54     | 4,983.19     | 2,388.13                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,700.00                             | 90.00           | 359.63      | 7,250.00              | 2,382.54     | 4,982.55     | 2,488.09                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,800.00                             | 90.00           | 359.63      | 7,250.00              | 2,482.54     | 4,981.92     | 2,588.05                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,900.00                             | 90.00           | 359.63      | 7,250.00              | 2,582.54     | 4,981.28     | 2,688.01                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,000.00                             | 90.00           | 359.63      | 7,250.00              | 2,682.54     | 4,980.64     | 2,787.97                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,100.00                             | 90.00           | 359.63      | 7,250.00              | 2,782.53     | 4,980.00     | 2,887.94                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,200.00                             | 90.00           | 359.63      | 7,250.00              | 2,882.53     | 4,979.37     | 2,987.90                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,300.00                             | 90.00           | 359.63      | 7,250.00              | 2,982.53     | 4,978.73     | 3,087.86                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,400.00                             | 90.00           | 359.63      | 7,250.00              | 3,082.53     | 4,978.09     | 3,187.82                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,500.00                             | 90.00           | 359.63      | 7,250.00              | 3,182.53     | 4,977.45     | 3,287.78                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,600.00                             | 90.00           | 359.63      | 7,250.00              | 3,282.52     | 4,976.81     | 3,387.74                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,700.00                             | 90.00           | 359.63      | 7,250.00              | 3,382.52     | 4,976.18     | 3,487.71                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,800.00                             | 90.00           | 359.63      | 7,250.00              | 3,482.52     | 4,975.54     | 3,587.67                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,900.00                             | 90.00           | 359.63      | 7,250.00              | 3,582.52     | 4,974.90     | 3,687.63                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,000.00                             | 90.00           | 359.63      | 7,250.00              | 3,682.52     | 4,974.26     | 3,787.59                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,100.00                             | 90.00           | 359.63      | 7,250.00              | 3,782.51     | 4,973.62     | 3,887.55                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,200.00                             | 90.00           | 359.63      | 7,250.00              | 3,882.51     | 4,972.99     | 3,987.51                | 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 3229-23H     |
| <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 3229-23H           | <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) |
| 13,300.00                   | 90.00           | 359.63      | 7,250.00              | 3,982.51     | 4,972.35     | 4,087.48                | 0.00                    | 0.00                   | 0.00                  |
| 13,400.00                   | 90.00           | 359.63      | 7,250.00              | 4,082.51     | 4,971.71     | 4,187.44                | 0.00                    | 0.00                   | 0.00                  |
| 13,500.00                   | 90.00           | 359.63      | 7,250.00              | 4,182.51     | 4,971.07     | 4,287.40                | 0.00                    | 0.00                   | 0.00                  |
| 13,600.00                   | 90.00           | 359.63      | 7,250.00              | 4,282.50     | 4,970.44     | 4,387.36                | 0.00                    | 0.00                   | 0.00                  |
| 13,700.00                   | 90.00           | 359.63      | 7,250.00              | 4,382.50     | 4,969.80     | 4,487.32                | 0.00                    | 0.00                   | 0.00                  |
| 13,800.00                   | 90.00           | 359.63      | 7,250.00              | 4,482.50     | 4,969.16     | 4,587.28                | 0.00                    | 0.00                   | 0.00                  |
| 13,900.00                   | 90.00           | 359.63      | 7,250.00              | 4,582.50     | 4,968.52     | 4,687.25                | 0.00                    | 0.00                   | 0.00                  |
| 14,000.00                   | 90.00           | 359.63      | 7,250.00              | 4,682.50     | 4,967.88     | 4,787.21                | 0.00                    | 0.00                   | 0.00                  |
| 14,100.00                   | 90.00           | 359.63      | 7,250.00              | 4,782.49     | 4,967.25     | 4,887.17                | 0.00                    | 0.00                   | 0.00                  |
| 14,200.00                   | 90.00           | 359.63      | 7,250.00              | 4,882.49     | 4,966.61     | 4,987.13                | 0.00                    | 0.00                   | 0.00                  |
| 14,300.00                   | 90.00           | 359.63      | 7,250.00              | 4,982.49     | 4,965.97     | 5,087.09                | 0.00                    | 0.00                   | 0.00                  |
| 14,400.00                   | 90.00           | 359.63      | 7,250.00              | 5,082.49     | 4,965.33     | 5,187.05                | 0.00                    | 0.00                   | 0.00                  |
| 14,500.00                   | 90.00           | 359.63      | 7,250.00              | 5,182.49     | 4,964.69     | 5,287.02                | 0.00                    | 0.00                   | 0.00                  |
| 14,600.00                   | 90.00           | 359.63      | 7,250.00              | 5,282.48     | 4,964.06     | 5,386.98                | 0.00                    | 0.00                   | 0.00                  |
| 14,700.00                   | 90.00           | 359.63      | 7,250.00              | 5,382.48     | 4,963.42     | 5,486.94                | 0.00                    | 0.00                   | 0.00                  |
| 14,800.00                   | 90.00           | 359.63      | 7,250.00              | 5,482.48     | 4,962.78     | 5,586.90                | 0.00                    | 0.00                   | 0.00                  |
| 14,900.00                   | 90.00           | 359.63      | 7,250.00              | 5,582.48     | 4,962.14     | 5,686.86                | 0.00                    | 0.00                   | 0.00                  |
| 15,000.00                   | 90.00           | 359.63      | 7,250.00              | 5,682.48     | 4,961.50     | 5,786.83                | 0.00                    | 0.00                   | 0.00                  |
| 15,100.00                   | 90.00           | 359.63      | 7,250.00              | 5,782.47     | 4,960.87     | 5,886.79                | 0.00                    | 0.00                   | 0.00                  |
| 15,200.00                   | 90.00           | 359.63      | 7,250.00              | 5,882.47     | 4,960.23     | 5,986.75                | 0.00                    | 0.00                   | 0.00                  |
| 15,300.00                   | 90.00           | 359.63      | 7,250.00              | 5,982.47     | 4,959.59     | 6,086.71                | 0.00                    | 0.00                   | 0.00                  |
| 15,400.00                   | 90.00           | 359.63      | 7,250.00              | 6,082.47     | 4,958.95     | 6,186.67                | 0.00                    | 0.00                   | 0.00                  |
| 15,500.00                   | 90.00           | 359.63      | 7,250.00              | 6,182.47     | 4,958.32     | 6,286.63                | 0.00                    | 0.00                   | 0.00                  |
| 15,600.00                   | 90.00           | 359.63      | 7,250.00              | 6,282.46     | 4,957.68     | 6,386.60                | 0.00                    | 0.00                   | 0.00                  |
| 15,700.00                   | 90.00           | 359.63      | 7,250.00              | 6,382.46     | 4,957.04     | 6,486.56                | 0.00                    | 0.00                   | 0.00                  |
| 15,800.00                   | 90.00           | 359.63      | 7,250.00              | 6,482.46     | 4,956.40     | 6,586.52                | 0.00                    | 0.00                   | 0.00                  |
| 15,900.00                   | 90.00           | 359.63      | 7,250.00              | 6,582.46     | 4,955.76     | 6,686.48                | 0.00                    | 0.00                   | 0.00                  |
| 16,000.00                   | 90.00           | 359.63      | 7,250.00              | 6,682.46     | 4,955.13     | 6,786.44                | 0.00                    | 0.00                   | 0.00                  |
| 16,100.00                   | 90.00           | 359.63      | 7,250.00              | 6,782.45     | 4,954.49     | 6,886.40                | 0.00                    | 0.00                   | 0.00                  |
| 16,200.00                   | 90.00           | 359.63      | 7,250.00              | 6,882.45     | 4,953.85     | 6,986.37                | 0.00                    | 0.00                   | 0.00                  |
| 16,300.00                   | 90.00           | 359.63      | 7,250.00              | 6,982.45     | 4,953.21     | 7,086.33                | 0.00                    | 0.00                   | 0.00                  |
| 16,400.00                   | 90.00           | 359.63      | 7,250.00              | 7,082.45     | 4,952.57     | 7,186.29                | 0.00                    | 0.00                   | 0.00                  |
| 16,452.86                   | 90.00           | 359.63      | 7,250.00              | 7,135.31     | 4,952.24     | 7,239.13                | 0.00                    | 0.00                   | 0.00                  |
| <b>BPZ @ 16452.86ft</b>     |                 |             |                       |              |              |                         |                         |                        |                       |
| 16,500.00                   | 90.00           | 359.63      | 7,250.00              | 7,182.45     | 4,951.94     | 7,286.25                | 0.00                    | 0.00                   | 0.00                  |
| 16,542.87                   | 90.00           | 359.63      | 7,250.00              | 7,225.31     | 4,951.66     | 7,329.10                | 0.00                    | 0.00                   | 0.00                  |
| <b>TD Well @ 16542.87ft</b> |                 |             |                       |              |              |                         |                         |                        |                       |

| Casing Points         |                       |        |  |                     |                   |
|-----------------------|-----------------------|--------|--|---------------------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name   |  | Casing Diameter (") | Hole Diameter (") |
| 2,467.84              | 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 3229-23H     |
| <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 3229-23H           | <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) |                                  |
| 288.75                      | 288.75                      | 0.00              | 0.00            | Begin Nudge @ 288.75ft           |
| 2,148.25                    | 2,020.40                    | -65.85            | 578.86          | Hold Tangent @ 2148.25ft         |
| 8,242.18                    | 6,875.04                    | -482.20           | 4,238.80        | KOP @ 8242.18ft :: DLS = 9°/100' |
| 9,052.78                    | 7,250.00                    | -131.17           | 4,794.80        | End Build/LP @ 9052.78ft         |
| 9,365.56                    | 7,250.00                    | 123.47            | 4,976.43        | TPZ @ 9365.56ft                  |
| 9,402.78                    | 7,250.00                    | 153.77            | 4,998.05        | Begin Turn @ 9402.78ft           |
| 10,412.78                   | 7,250.00                    | 1,115.79          | 5,172.01        | End Turn @ 10412.78ft            |
| 10,762.78                   | 7,250.00                    | 1,453.86          | 5,081.42        | Begin Turn to BHL @ 10762.78ft   |
| 11,494.50                   | 7,250.00                    | 2,177.05          | 4,983.87        | End Turn @ 11494.50ft            |
| 16,452.86                   | 7,250.00                    | 7,135.31          | 4,952.24        | BPZ @ 16452.86ft                 |
| 16,542.87                   | 7,250.00                    | 7,225.31          | 4,951.66        | TD Well @ 16542.87ft             |