

# **VERDAD RESOURCES**

**WATTENBERG FIELD**

**9N-59W-01 TIMBRO 0101 PAD**

**TIMBRO 0101-03H**

**Plan B**

**Plan: Design #1**

## **Standard Planning Report**

**13 October, 2021**

Project: WATTENBERG FIELD  
Site: 9N-59W-01 TIMBRO 0101 PAD  
Well: TIMBRO 0101-03H  
Wellbore: Plan B  
Design: Design #1

# VERDAD RESOURCES

## CASING DETAILS

| TVD     | MD      | Name   | Size  |
|---------|---------|--------|-------|
| 1600.00 | 1655.57 | 9 5/8" | 9-5/8 |

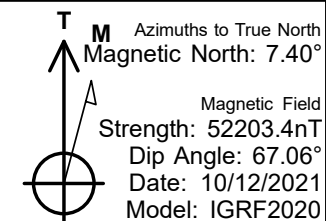
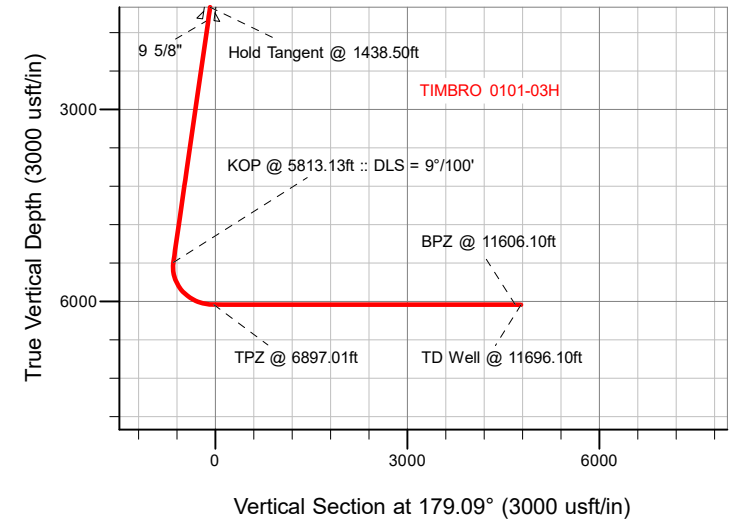
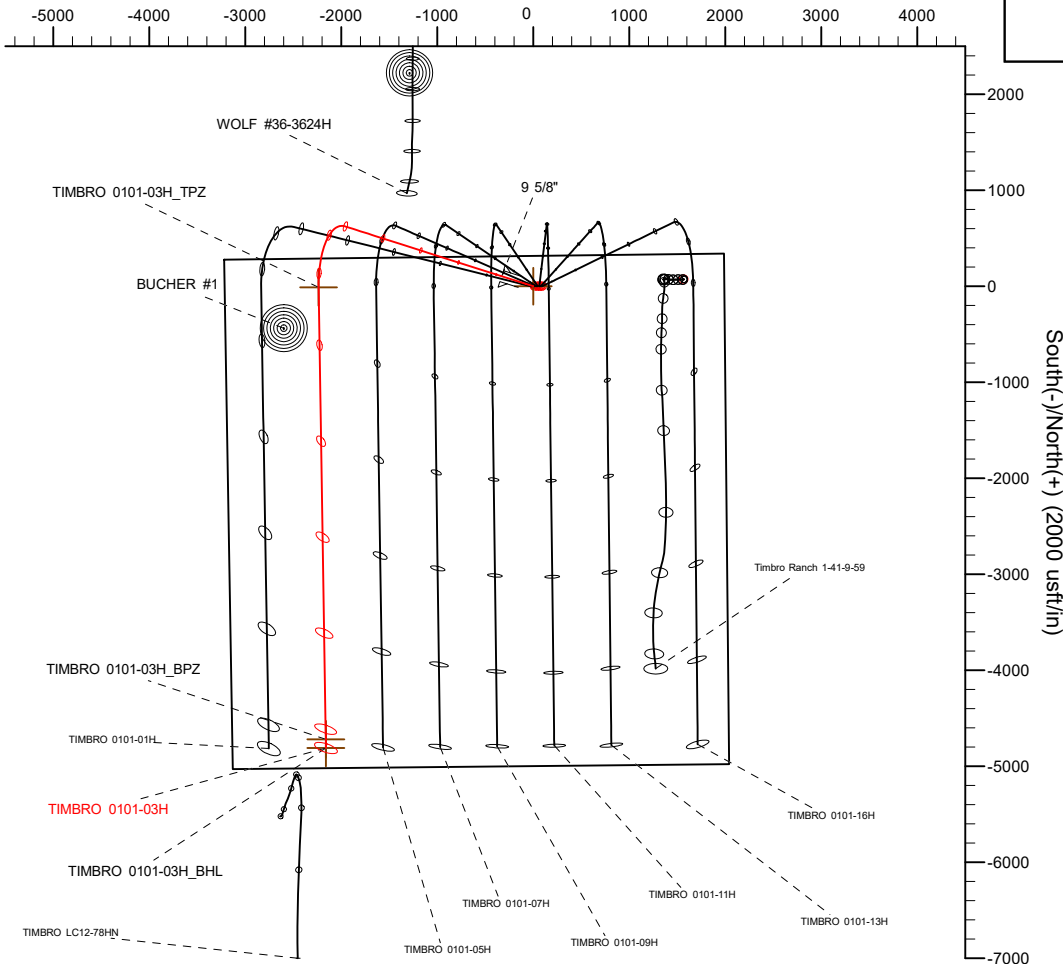
## SECTION DETAILS

| 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    |                     |
| 221.50   | 0.00  | 0.00   | 221.50  | 0.00     | 0.00     | 0.00 | 0.00    | 0.00    |                     |
| 1438.50  | 24.34 | 287.68 | 1402.22 | 77.33    | -242.61  | 2.00 | 287.68  | -81.18  |                     |
| 5813.13  | 24.34 | 287.68 | 5388.02 | 624.91   | -1960.45 | 0.00 | 0.00    | -655.96 |                     |
| 6897.01  | 90.00 | 179.09 | 6050.00 | -10.62   | -2234.24 | 9.00 | -107.04 | -24.87  |                     |
| 11696.10 | 90.00 | 179.09 | 6050.00 | -4809.10 | -2158.13 | 0.00 | 0.00    | 4774.22 | TIMBRO 0101-03H_BHL |

## WELLBORE TARGET DETAILS (LAT/LONG)

| Name                | TVD     | +N/-S    | +E/-W    | Latitude  | Longitude   |
|---------------------|---------|----------|----------|-----------|-------------|
| TIMBRO 0101-03H_SHL | 0.00    | 0.00     | 0.00     | 40.786591 | -103.924518 |
| TIMBRO 0101-03H_BHL | 6050.00 | -4809.10 | -2158.13 | 40.773391 | -103.932310 |
| TIMBRO 0101-03H_BPZ | 6050.00 | -4719.11 | -2159.56 | 40.773638 | -103.932315 |
| TIMBRO 0101-03H_TPZ | 6050.00 | -10.62   | -2234.24 | 40.786562 | -103.932587 |

West(-)/East(+) (2000 usft/in)



WELL DETAILS: TIMBRO 0101-03H

GL = 4938'

RKB = 24' @ 4962.00usft (RIG)

Plan: Design #1 (TIMBRO 0101-03H/Plan B)

Date: 10/13/2021

## Planning Report

|                  |                            |                                     |                               |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db | <b>Local Co-ordinate Reference:</b> | Well TIMBRO 0101-03H          |
| <b>Company:</b>  | VERDAD RESOURCES           | <b>TVD Reference:</b>               | RKB = 24' @ 4962.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD           | <b>MD Reference:</b>                | RKB = 24' @ 4962.00usft (RIG) |
| <b>Site:</b>     | 9N-59W-01 TIMBRO 0101 PAD  | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | TIMBRO 0101-03H            | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Plan B                     |                                     |                               |
| <b>Design:</b>   | Design #1                  |                                     |                               |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <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    |                      |                |

|                       |           |                           |                   |            |             |
|-----------------------|-----------|---------------------------|-------------------|------------|-------------|
| Site                  |           | 9N-59W-01 TIMBRO 0101 PAD |                   |            |             |
| Site Position:        |           | Northing:                 | 1,533,230.40 usft | Latitude:  | 40.786474   |
| From:                 | Lat/Long  | Easting:                  | 3,436,039.96 usft | Longitude: | -103.925326 |
| Position Uncertainty: | 0.00 usft | Slot Radius:              | 13-3/16 "         |            |             |

| Well                 |       | TIMBRO 0101-03H |                     |                   |               |               |
|----------------------|-------|-----------------|---------------------|-------------------|---------------|---------------|
| Well Position        | +N/-S | 0.00 usft       | Northing:           | 1,533,277.05 usft | Latitude:     | 40.786591     |
|                      | +E/-W | 0.00 usft       | Easting:            | 3,436,262.68 usft | Longitude:    | -103.924519   |
| Position Uncertainty |       | 3.28 usft       | Wellhead Elevation: | usft              | Ground Level: | 4,938.00 usft |
| Grid Convergence:    |       | 1.02 °          |                     |                   |               |               |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Plan B            |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF202013        | 10/12/2021         | 7.40                   | 67.06                | 52,203.42172344            |

|                          |                                |                     |                     |                      |      |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| <b>Design</b>            | Design #1                      |                     |                     |                      |      |
| <b>Audit Notes:</b>      |                                |                     |                     |                      |      |
| <b>Version:</b>          |                                | <b>Phase:</b>       | PLAN                | <b>Tie On Depth:</b> | 0.00 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Direction (°)</b> |      |
|                          | 0.00                           | 0.00                | 0.00                | 179.09               |      |

|                                 |                        |                          |                    |                               |  |
|---------------------------------|------------------------|--------------------------|--------------------|-------------------------------|--|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 10/12/2021               |                    |                               |  |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>   | <b>Remarks</b>                |  |
| 1                               | 0.00                   | 1,600.00                 | Design #1 (Plan B) | ISCWSA MWD                    |  |
|                                 |                        |                          |                    | Fixed:v2:standard declination |  |
| 2                               | 1,600.00               | 11,696.10                | Design #1 (Plan B) | ISCWSA MWD                    |  |
|                                 |                        |                          |                    | Fixed:v2:standard declination |  |

Planning Report

|           |                            |                              |                               |
|-----------|----------------------------|------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 0101-03H          |
| Company:  | VERDAD RESOURCES           | TVD Reference:               | RKB = 24' @ 4962.00usft (RIG) |
| Project:  | WATTENBERG FIELD           | MD Reference:                | RKB = 24' @ 4962.00usft (RIG) |
| Site:     | 9N-59W-01 TIMBRO 0101 PAD  | North Reference:             | True                          |
| Well:     | TIMBRO 0101-03H            | Survey Calculation Method:   | Minimum Curvature             |
| Wellbore: | Plan B                     |                              |                               |
| Design:   | Design #1                  |                              |                               |

| 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    |                   |
| 221.50                | 0.00            | 0.00        | 221.50                | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 1,438.50              | 24.34           | 287.68      | 1,402.22              | 77.33        | -242.61      | 2.00                    | 2.00                   | 0.00                  | 287.68  |                   |
| 5,813.13              | 24.34           | 287.68      | 5,388.02              | 624.91       | -1,960.45    | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 6,897.01              | 90.00           | 179.09      | 6,050.00              | -10.62       | -2,234.24    | 9.00                    | 6.06                   | -10.02                | -107.04 |                   |
| 11,696.10             | 90.00           | 179.09      | 6,050.00              | -4,809.10    | -2,158.13    | 0.00                    | 0.00                   | 0.00                  | 0.00    | TIMBRO 0101-03H_E |

# Planning Report

|                  |                            |                                     |                               |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db | <b>Local Co-ordinate Reference:</b> | Well TIMBRO 0101-03H          |
| <b>Company:</b>  | VERDAD RESOURCES           | <b>TVD Reference:</b>               | RKB = 24' @ 4962.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD           | <b>MD Reference:</b>                | RKB = 24' @ 4962.00usft (RIG) |
| <b>Site:</b>     | 9N-59W-01 TIMBRO 0101 PAD  | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | TIMBRO 0101-03H            | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Plan B                     |                                     |                               |
| <b>Design:</b>   | Design #1                  |                                     |                               |

| Planned Survey           |                 |             |                       |              |              |                         |                         |                        |                       |
|--------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)    | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.00                     | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 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                  |
| 221.50                   | 0.00            | 0.00        | 221.50                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| Begin Nudge @ 221.50ft   |                 |             |                       |              |              |                         |                         |                        |                       |
| 300.00                   | 1.57            | 287.68      | 299.99                | 0.33         | -1.02        | -0.34                   | 2.00                    | 2.00                   | 0.00                  |
| 400.00                   | 3.57            | 287.68      | 399.88                | 1.69         | -5.30        | -1.77                   | 2.00                    | 2.00                   | 0.00                  |
| 500.00                   | 5.57            | 287.68      | 499.56                | 4.11         | -12.89       | -4.31                   | 2.00                    | 2.00                   | 0.00                  |
| 600.00                   | 7.57            | 287.68      | 598.90                | 7.58         | -23.79       | -7.96                   | 2.00                    | 2.00                   | 0.00                  |
| 700.00                   | 9.57            | 287.68      | 697.78                | 12.11        | -37.99       | -12.71                  | 2.00                    | 2.00                   | 0.00                  |
| 800.00                   | 11.57           | 287.68      | 796.08                | 17.68        | -55.46       | -18.56                  | 2.00                    | 2.00                   | 0.00                  |
| 900.00                   | 13.57           | 287.68      | 893.67                | 24.29        | -76.20       | -25.50                  | 2.00                    | 2.00                   | 0.00                  |
| 1,000.00                 | 15.57           | 287.68      | 990.45                | 31.93        | -100.16      | -33.51                  | 2.00                    | 2.00                   | 0.00                  |
| 1,100.00                 | 17.57           | 287.68      | 1,086.30              | 40.59        | -127.33      | -42.61                  | 2.00                    | 2.00                   | 0.00                  |
| 1,200.00                 | 19.57           | 287.68      | 1,181.08              | 50.26        | -157.67      | -52.76                  | 2.00                    | 2.00                   | 0.00                  |
| 1,300.00                 | 21.57           | 287.68      | 1,274.70              | 60.93        | -191.15      | -63.96                  | 2.00                    | 2.00                   | 0.00                  |
| 1,400.00                 | 23.57           | 287.68      | 1,367.04              | 72.59        | -227.71      | -76.19                  | 2.00                    | 2.00                   | 0.00                  |
| 1,438.50                 | 24.34           | 287.68      | 1,402.22              | 77.33        | -242.61      | -81.18                  | 2.00                    | 2.00                   | 0.00                  |
| Hold Tangent @ 1438.50ft |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,500.00                 | 24.34           | 287.68      | 1,458.26              | 85.03        | -266.76      | -89.26                  | 0.00                    | 0.00                   | 0.00                  |
| 1,600.00                 | 24.34           | 287.68      | 1,549.37              | 97.55        | -306.03      | -102.40                 | 0.00                    | 0.00                   | 0.00                  |
| 1,655.57                 | 24.34           | 287.68      | 1,600.00              | 104.50       | -327.85      | -109.70                 | 0.00                    | 0.00                   | 0.00                  |
| 9 5/8"                   |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,700.00                 | 24.34           | 287.68      | 1,640.48              | 110.06       | -345.29      | -115.53                 | 0.00                    | 0.00                   | 0.00                  |
| 1,800.00                 | 24.34           | 287.68      | 1,731.59              | 122.58       | -384.56      | -128.67                 | 0.00                    | 0.00                   | 0.00                  |
| 1,900.00                 | 24.34           | 287.68      | 1,822.70              | 135.10       | -423.83      | -141.81                 | 0.00                    | 0.00                   | 0.00                  |
| 2,000.00                 | 24.34           | 287.68      | 1,913.82              | 147.62       | -463.10      | -154.95                 | 0.00                    | 0.00                   | 0.00                  |
| 2,100.00                 | 24.34           | 287.68      | 2,004.93              | 160.13       | -502.37      | -168.09                 | 0.00                    | 0.00                   | 0.00                  |
| 2,200.00                 | 24.34           | 287.68      | 2,096.04              | 172.65       | -541.64      | -181.23                 | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00                 | 24.34           | 287.68      | 2,187.15              | 185.17       | -580.90      | -194.37                 | 0.00                    | 0.00                   | 0.00                  |
| 2,400.00                 | 24.34           | 287.68      | 2,278.26              | 197.68       | -620.17      | -207.51                 | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00                 | 24.34           | 287.68      | 2,369.37              | 210.20       | -659.44      | -220.65                 | 0.00                    | 0.00                   | 0.00                  |
| 2,600.00                 | 24.34           | 287.68      | 2,460.49              | 222.72       | -698.71      | -233.79                 | 0.00                    | 0.00                   | 0.00                  |
| 2,700.00                 | 24.34           | 287.68      | 2,551.60              | 235.24       | -737.98      | -246.93                 | 0.00                    | 0.00                   | 0.00                  |
| 2,800.00                 | 24.34           | 287.68      | 2,642.71              | 247.75       | -777.25      | -260.06                 | 0.00                    | 0.00                   | 0.00                  |
| 2,900.00                 | 24.34           | 287.68      | 2,733.82              | 260.27       | -816.51      | -273.20                 | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00                 | 24.34           | 287.68      | 2,824.93              | 272.79       | -855.78      | -286.34                 | 0.00                    | 0.00                   | 0.00                  |
| 3,100.00                 | 24.34           | 287.68      | 2,916.04              | 285.30       | -895.05      | -299.48                 | 0.00                    | 0.00                   | 0.00                  |
| 3,200.00                 | 24.34           | 287.68      | 3,007.15              | 297.82       | -934.32      | -312.62                 | 0.00                    | 0.00                   | 0.00                  |
| 3,300.00                 | 24.34           | 287.68      | 3,098.27              | 310.34       | -973.59      | -325.76                 | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00                 | 24.34           | 287.68      | 3,189.38              | 322.85       | -1,012.86    | -338.90                 | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00                 | 24.34           | 287.68      | 3,280.49              | 335.37       | -1,052.12    | -352.04                 | 0.00                    | 0.00                   | 0.00                  |
| 3,600.00                 | 24.34           | 287.68      | 3,371.60              | 347.89       | -1,091.39    | -365.18                 | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00                 | 24.34           | 287.68      | 3,462.71              | 360.41       | -1,130.66    | -378.32                 | 0.00                    | 0.00                   | 0.00                  |
| 3,800.00                 | 24.34           | 287.68      | 3,553.82              | 372.92       | -1,169.93    | -391.46                 | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00                 | 24.34           | 287.68      | 3,644.94              | 385.44       | -1,209.20    | -404.60                 | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00                 | 24.34           | 287.68      | 3,736.05              | 397.96       | -1,248.47    | -417.73                 | 0.00                    | 0.00                   | 0.00                  |
| 4,100.00                 | 24.34           | 287.68      | 3,827.16              | 410.47       | -1,287.74    | -430.87                 | 0.00                    | 0.00                   | 0.00                  |
| 4,200.00                 | 24.34           | 287.68      | 3,918.27              | 422.99       | -1,327.00    | -444.01                 | 0.00                    | 0.00                   | 0.00                  |
| 4,300.00                 | 24.34           | 287.68      | 4,009.38              | 435.51       | -1,366.27    | -457.15                 | 0.00                    | 0.00                   | 0.00                  |
| 4,400.00                 | 24.34           | 287.68      | 4,100.49              | 448.02       | -1,405.54    | -470.29                 | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00                 | 24.34           | 287.68      | 4,191.61              | 460.54       | -1,444.81    | -483.43                 | 0.00                    | 0.00                   | 0.00                  |
| 4,600.00                 | 24.34           | 287.68      | 4,282.72              | 473.06       | -1,484.08    | -496.57                 | 0.00                    | 0.00                   | 0.00                  |

# Planning Report

|                  |                            |                                     |                               |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db | <b>Local Co-ordinate Reference:</b> | Well TIMBRO 0101-03H          |
| <b>Company:</b>  | VERDAD RESOURCES           | <b>TVD Reference:</b>               | RKB = 24' @ 4962.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD           | <b>MD Reference:</b>                | RKB = 24' @ 4962.00usft (RIG) |
| <b>Site:</b>     | 9N-59W-01 TIMBRO 0101 PAD  | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | TIMBRO 0101-03H            | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Plan B                     |                                     |                               |
| <b>Design:</b>   | Design #1                  |                                     |                               |

| Planned Survey                   |                 |             |                       |              |              |                         |                         |                        |                       |
|----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)            | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 4,700.00                         | 24.34           | 287.68      | 4,373.83              | 485.58       | -1,523.35    | -509.71                 | 0.00                    | 0.00                   | 0.00                  |
| 4,800.00                         | 24.34           | 287.68      | 4,464.94              | 498.09       | -1,562.61    | -522.85                 | 0.00                    | 0.00                   | 0.00                  |
| 4,900.00                         | 24.34           | 287.68      | 4,556.05              | 510.61       | -1,601.88    | -535.99                 | 0.00                    | 0.00                   | 0.00                  |
| 5,000.00                         | 24.34           | 287.68      | 4,647.16              | 523.13       | -1,641.15    | -549.13                 | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00                         | 24.34           | 287.68      | 4,738.27              | 535.64       | -1,680.42    | -562.26                 | 0.00                    | 0.00                   | 0.00                  |
| 5,200.00                         | 24.34           | 287.68      | 4,829.39              | 548.16       | -1,719.69    | -575.40                 | 0.00                    | 0.00                   | 0.00                  |
| 5,300.00                         | 24.34           | 287.68      | 4,920.50              | 560.68       | -1,758.96    | -588.54                 | 0.00                    | 0.00                   | 0.00                  |
| 5,400.00                         | 24.34           | 287.68      | 5,011.61              | 573.19       | -1,798.22    | -601.68                 | 0.00                    | 0.00                   | 0.00                  |
| 5,500.00                         | 24.34           | 287.68      | 5,102.72              | 585.71       | -1,837.49    | -614.82                 | 0.00                    | 0.00                   | 0.00                  |
| 5,600.00                         | 24.34           | 287.68      | 5,193.83              | 598.23       | -1,876.76    | -627.96                 | 0.00                    | 0.00                   | 0.00                  |
| 5,700.00                         | 24.34           | 287.68      | 5,284.94              | 610.75       | -1,916.03    | -641.10                 | 0.00                    | 0.00                   | 0.00                  |
| 5,800.00                         | 24.34           | 287.68      | 5,376.06              | 623.26       | -1,955.30    | -654.24                 | 0.00                    | 0.00                   | 0.00                  |
| 5,813.13                         | 24.34           | 287.68      | 5,388.02              | 624.91       | -1,960.45    | -655.96                 | 0.00                    | 0.00                   | 0.00                  |
| KOP @ 5813.13ft :: DLS = 9°/100' |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,850.00                         | 23.57           | 279.72      | 5,421.72              | 628.46       | -1,974.96    | -659.75                 | 9.00                    | -2.09                  | -21.58                |
| 5,900.00                         | 23.21           | 268.41      | 5,467.64              | 629.88       | -1,994.67    | -661.48                 | 9.00                    | -0.72                  | -22.63                |
| 5,950.00                         | 23.67           | 257.14      | 5,513.53              | 627.37       | -2,014.32    | -659.28                 | 9.00                    | 0.91                   | -22.54                |
| 6,000.00                         | 24.89           | 246.59      | 5,559.13              | 620.95       | -2,033.77    | -653.17                 | 9.00                    | 2.46                   | -21.09                |
| 6,050.00                         | 26.79           | 237.22      | 5,604.15              | 610.66       | -2,052.91    | -643.19                 | 9.00                    | 3.79                   | -18.76                |
| 6,100.00                         | 29.22           | 229.14      | 5,648.31              | 596.57       | -2,071.62    | -629.40                 | 9.00                    | 4.86                   | -16.16                |
| 6,150.00                         | 32.06           | 222.29      | 5,691.34              | 578.76       | -2,089.79    | -611.88                 | 9.00                    | 5.69                   | -13.70                |
| 6,200.00                         | 35.22           | 216.49      | 5,732.97              | 557.34       | -2,107.30    | -590.74                 | 9.00                    | 6.31                   | -11.59                |
| 6,250.00                         | 38.61           | 211.56      | 5,772.95              | 532.44       | -2,124.05    | -566.11                 | 9.00                    | 6.78                   | -9.86                 |
| 6,300.00                         | 42.18           | 207.33      | 5,811.03              | 504.22       | -2,139.93    | -538.14                 | 9.00                    | 7.14                   | -8.46                 |
| 6,350.00                         | 45.89           | 203.65      | 5,846.97              | 472.85       | -2,154.85    | -507.01                 | 9.00                    | 7.41                   | -7.35                 |
| 6,400.00                         | 49.70           | 200.42      | 5,880.56              | 438.52       | -2,168.71    | -472.91                 | 9.00                    | 7.62                   | -6.47                 |
| 6,450.00                         | 53.59           | 197.53      | 5,911.59              | 401.45       | -2,181.42    | -436.04                 | 9.00                    | 7.78                   | -5.78                 |
| 6,500.00                         | 57.54           | 194.92      | 5,939.86              | 361.86       | -2,192.92    | -396.64                 | 9.00                    | 7.90                   | -5.22                 |
| 6,550.00                         | 61.54           | 192.53      | 5,965.21              | 320.00       | -2,203.12    | -354.95                 | 9.00                    | 8.00                   | -4.78                 |
| 6,600.00                         | 65.58           | 190.32      | 5,987.47              | 276.13       | -2,211.97    | -311.22                 | 9.00                    | 8.08                   | -4.43                 |
| 6,650.00                         | 69.65           | 188.24      | 6,006.50              | 230.51       | -2,219.41    | -265.73                 | 9.00                    | 8.14                   | -4.15                 |
| 6,700.00                         | 73.75           | 186.27      | 6,022.20              | 183.43       | -2,225.40    | -218.75                 | 9.00                    | 8.19                   | -3.94                 |
| 6,750.00                         | 77.86           | 184.38      | 6,034.47              | 135.18       | -2,229.89    | -170.58                 | 9.00                    | 8.22                   | -3.78                 |
| 6,800.00                         | 81.98           | 182.55      | 6,043.22              | 86.06        | -2,232.86    | -121.51                 | 9.00                    | 8.25                   | -3.66                 |
| 6,850.00                         | 86.11           | 180.76      | 6,048.40              | 36.36        | -2,234.30    | -71.84                  | 9.00                    | 8.26                   | -3.59                 |
| 6,897.01                         | 90.00           | 179.09      | 6,050.00              | -10.62       | -2,234.24    | -24.87                  | 9.00                    | 8.27                   | -3.55                 |
| TPZ @ 6897.01ft                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,900.00                         | 90.00           | 179.09      | 6,050.00              | -13.60       | -2,234.19    | -21.88                  | 0.00                    | 0.00                   | 0.00                  |
| 7,000.00                         | 90.00           | 179.09      | 6,050.00              | -113.59      | -2,232.60    | 78.12                   | 0.00                    | 0.00                   | 0.00                  |
| 7,100.00                         | 90.00           | 179.09      | 6,050.00              | -213.58      | -2,231.02    | 178.12                  | 0.00                    | 0.00                   | 0.00                  |
| 7,200.00                         | 90.00           | 179.09      | 6,050.00              | -313.57      | -2,229.43    | 278.12                  | 0.00                    | 0.00                   | 0.00                  |
| 7,300.00                         | 90.00           | 179.09      | 6,050.00              | -413.55      | -2,227.85    | 378.12                  | 0.00                    | 0.00                   | 0.00                  |
| 7,400.00                         | 90.00           | 179.09      | 6,050.00              | -513.54      | -2,226.26    | 478.12                  | 0.00                    | 0.00                   | 0.00                  |
| 7,500.00                         | 90.00           | 179.09      | 6,050.00              | -613.53      | -2,224.68    | 578.12                  | 0.00                    | 0.00                   | 0.00                  |
| 7,600.00                         | 90.00           | 179.09      | 6,050.00              | -713.52      | -2,223.09    | 678.12                  | 0.00                    | 0.00                   | 0.00                  |
| 7,700.00                         | 90.00           | 179.09      | 6,050.00              | -813.50      | -2,221.50    | 778.12                  | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00                         | 90.00           | 179.09      | 6,050.00              | -913.49      | -2,219.92    | 878.12                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.00                         | 90.00           | 179.09      | 6,050.00              | -1,013.48    | -2,218.33    | 978.12                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.00                         | 90.00           | 179.09      | 6,050.00              | -1,113.47    | -2,216.75    | 1,078.12                | 0.00                    | 0.00                   | 0.00                  |
| 8,100.00                         | 90.00           | 179.09      | 6,050.00              | -1,213.45    | -2,215.16    | 1,178.12                | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00                         | 90.00           | 179.09      | 6,050.00              | -1,313.44    | -2,213.57    | 1,278.12                | 0.00                    | 0.00                   | 0.00                  |
| 8,300.00                         | 90.00           | 179.09      | 6,050.00              | -1,413.43    | -2,211.99    | 1,378.12                | 0.00                    | 0.00                   | 0.00                  |
| 8,400.00                         | 90.00           | 179.09      | 6,050.00              | -1,513.41    | -2,210.40    | 1,478.12                | 0.00                    | 0.00                   | 0.00                  |
| 8,500.00                         | 90.00           | 179.09      | 6,050.00              | -1,613.40    | -2,208.82    | 1,578.12                | 0.00                    | 0.00                   | 0.00                  |

## Planning Report

|                  |                            |                                     |                               |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db | <b>Local Co-ordinate Reference:</b> | Well TIMBRO 0101-03H          |
| <b>Company:</b>  | VERDAD RESOURCES           | <b>TVD Reference:</b>               | RKB = 24' @ 4962.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD           | <b>MD Reference:</b>                | RKB = 24' @ 4962.00usft (RIG) |
| <b>Site:</b>     | 9N-59W-01 TIMBRO 0101 PAD  | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | TIMBRO 0101-03H            | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Plan B                     |                                     |                               |
| <b>Design:</b>   | Design #1                  |                                     |                               |

| 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) |  |
| 8,600.00                    | 90.00              | 179.09         | 6,050.00                    | -1,713.39       | -2,207.23       | 1,678.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 8,700.00                    | 90.00              | 179.09         | 6,050.00                    | -1,813.38       | -2,205.64       | 1,778.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 8,800.00                    | 90.00              | 179.09         | 6,050.00                    | -1,913.36       | -2,204.06       | 1,878.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 8,900.00                    | 90.00              | 179.09         | 6,050.00                    | -2,013.35       | -2,202.47       | 1,978.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,000.00                    | 90.00              | 179.09         | 6,050.00                    | -2,113.34       | -2,200.89       | 2,078.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,100.00                    | 90.00              | 179.09         | 6,050.00                    | -2,213.33       | -2,199.30       | 2,178.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,200.00                    | 90.00              | 179.09         | 6,050.00                    | -2,313.31       | -2,197.71       | 2,278.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,300.00                    | 90.00              | 179.09         | 6,050.00                    | -2,413.30       | -2,196.13       | 2,378.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,400.00                    | 90.00              | 179.09         | 6,050.00                    | -2,513.29       | -2,194.54       | 2,478.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,500.00                    | 90.00              | 179.09         | 6,050.00                    | -2,613.28       | -2,192.96       | 2,578.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,600.00                    | 90.00              | 179.09         | 6,050.00                    | -2,713.26       | -2,191.37       | 2,678.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,700.00                    | 90.00              | 179.09         | 6,050.00                    | -2,813.25       | -2,189.79       | 2,778.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,800.00                    | 90.00              | 179.09         | 6,050.00                    | -2,913.24       | -2,188.20       | 2,878.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 9,900.00                    | 90.00              | 179.09         | 6,050.00                    | -3,013.23       | -2,186.61       | 2,978.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,000.00                   | 90.00              | 179.09         | 6,050.00                    | -3,113.21       | -2,185.03       | 3,078.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,100.00                   | 90.00              | 179.09         | 6,050.00                    | -3,213.20       | -2,183.44       | 3,178.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,200.00                   | 90.00              | 179.09         | 6,050.00                    | -3,313.19       | -2,181.86       | 3,278.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,300.00                   | 90.00              | 179.09         | 6,050.00                    | -3,413.18       | -2,180.27       | 3,378.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,400.00                   | 90.00              | 179.09         | 6,050.00                    | -3,513.16       | -2,178.68       | 3,478.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,500.00                   | 90.00              | 179.09         | 6,050.00                    | -3,613.15       | -2,177.10       | 3,578.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,600.00                   | 90.00              | 179.09         | 6,050.00                    | -3,713.14       | -2,175.51       | 3,678.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,700.00                   | 90.00              | 179.09         | 6,050.00                    | -3,813.13       | -2,173.93       | 3,778.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,800.00                   | 90.00              | 179.09         | 6,050.00                    | -3,913.11       | -2,172.34       | 3,878.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 10,900.00                   | 90.00              | 179.09         | 6,050.00                    | -4,013.10       | -2,170.75       | 3,978.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,000.00                   | 90.00              | 179.09         | 6,050.00                    | -4,113.09       | -2,169.17       | 4,078.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,100.00                   | 90.00              | 179.09         | 6,050.00                    | -4,213.08       | -2,167.58       | 4,178.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,200.00                   | 90.00              | 179.09         | 6,050.00                    | -4,313.06       | -2,166.00       | 4,278.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,300.00                   | 90.00              | 179.09         | 6,050.00                    | -4,413.05       | -2,164.41       | 4,378.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,400.00                   | 90.00              | 179.09         | 6,050.00                    | -4,513.04       | -2,162.83       | 4,478.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,500.00                   | 90.00              | 179.09         | 6,050.00                    | -4,613.02       | -2,161.24       | 4,578.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,600.00                   | 90.00              | 179.09         | 6,050.00                    | -4,713.01       | -2,159.65       | 4,678.12                      | 0.00                          | 0.00                         | 0.00                        |  |
| 11,606.10                   | 90.00              | 179.09         | 6,050.00                    | -4,719.11       | -2,159.56       | 4,684.22                      | 0.00                          | 0.00                         | 0.00                        |  |
| BPZ @ 11606.10ft            |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
| 11,696.10                   | 90.00              | 179.09         | 6,050.00                    | -4,809.10       | -2,158.13       | 4,774.22                      | 0.00                          | 0.00                         | 0.00                        |  |
| TD Well @ 11696.10ft        |                    |                |                             |                 |                 |                               |                               |                              |                             |  |

| Casing Points         |                       |        |  |                     |                   |
|-----------------------|-----------------------|--------|--|---------------------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name   |  | Casing Diameter (") | Hole Diameter (") |
| 1,655.57              | 1,600.00              | 9 5/8" |  | 9-5/8               | 13-1/2            |

Planning Report

|           |                            |                              |                               |
|-----------|----------------------------|------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 0101-03H          |
| Company:  | VERDAD RESOURCES           | TVD Reference:               | RKB = 24' @ 4962.00usft (RIG) |
| Project:  | WATTENBERG FIELD           | MD Reference:                | RKB = 24' @ 4962.00usft (RIG) |
| Site:     | 9N-59W-01 TIMBRO 0101 PAD  | North Reference:             | True                          |
| Well:     | TIMBRO 0101-03H            | Survey Calculation Method:   | Minimum Curvature             |
| Wellbore: | Plan B                     |                              |                               |
| Design:   | Design #1                  |                              |                               |

| Plan Annotations      |                       |                   |              |                                  |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                          |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                  |
| 221.50                | 221.50                | 0.00              | 0.00         | Begin Nudge @ 221.50ft           |
| 1,438.50              | 1,402.22              | 77.33             | -242.61      | Hold Tangent @ 1438.50ft         |
| 5,813.13              | 5,388.02              | 624.91            | -1,960.45    | KOP @ 5813.13ft :: DLS = 9°/100' |
| 6,897.01              | 6,050.00              | -10.62            | -2,234.24    | TPZ @ 6897.01ft                  |
| 11,606.10             | 6,050.00              | -4,719.11         | -2,159.56    | BPZ @ 11606.10ft                 |
| 11,696.10             | 6,050.00              | -4,809.10         | -2,158.13    | TD Well @ 11696.10ft             |