

# **VERDAD RESOURCES**

**WATTENBERG FIELD**

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

**TIMBRO 0101-09H**

**Plan B**

**Plan: Design #1**

## **Standard Planning Report**

**13 October, 2021**

Project: WATTENBERG FIELD  
Site: 9N-59W-01 TIMBRO 0101 PAD  
Well: TIMBRO 0101-09H  
Wellbore: Plan B  
Design: Design #1

# VERDAD RESOURCES

## CASING DETAILS

| TVD     | MD      | Name   | Size  |
|---------|---------|--------|-------|
| 1600.00 | 1613.10 | 9 5/8" | 9-5/8 |

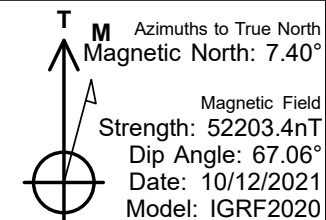
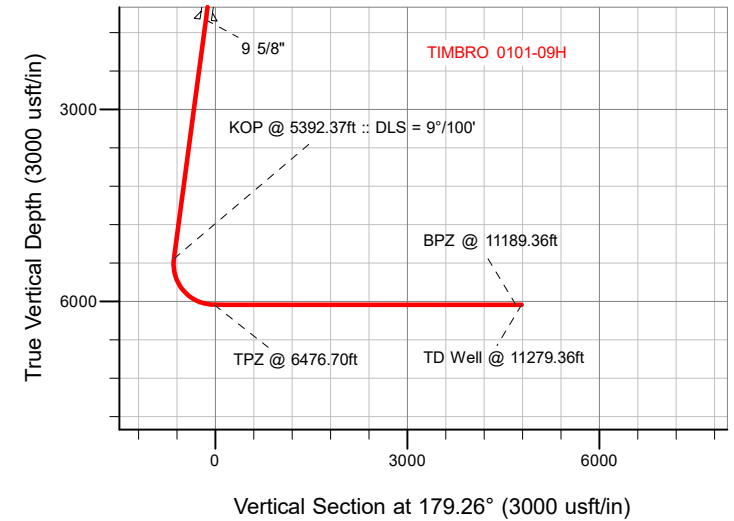
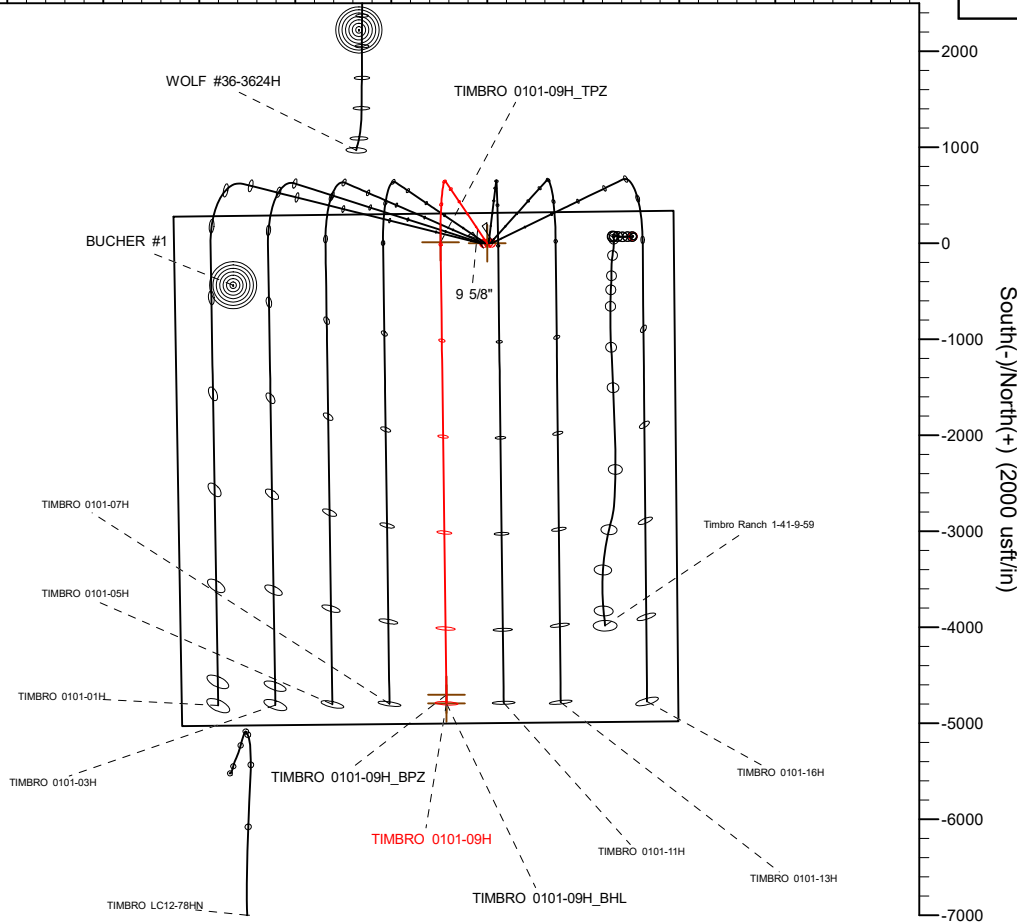
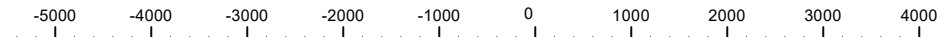
## SECTION DETAILS

| 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    |                     |
| 263.50   | 0.00  | 0.00   | 263.50  | 0.00     | 0.00    | 0.00 | 0.00    | 0.00    |                     |
| 717.00   | 9.07  | 326.17 | 715.11  | 29.76    | -19.94  | 2.00 | 326.17  | -30.01  |                     |
| 5392.37  | 9.07  | 326.17 | 5332.02 | 642.00   | -430.27 | 0.00 | 0.00    | -647.50 |                     |
| 6476.70  | 90.00 | 179.26 | 6050.00 | 10.20    | -484.65 | 9.00 | -146.58 | -16.46  |                     |
| 11279.36 | 90.00 | 179.26 | 6050.00 | -4792.05 | -422.34 | 0.00 | 0.00    | 4786.20 | TIMBRO 0101-09H_BHL |

## WELLBORE TARGET DETAILS (LAT/LONG)

| Name                | TVD     | +N/-S    | +E/-W   | Latitude  | Longitude   |
|---------------------|---------|----------|---------|-----------|-------------|
| TIMBRO 0101-09H_SHL | 0.00    | 0.00     | 0.00    | 40.786593 | -103.924345 |
| TIMBRO 0101-09H_BHL | 6050.00 | -4792.05 | -422.34 | 40.773440 | -103.925870 |
| TIMBRO 0101-09H_BPZ | 6050.00 | -4702.06 | -423.51 | 40.773687 | -103.925874 |
| TIMBRO 0101-09H_TPZ | 6050.00 | 10.20    | -484.65 | 40.786621 | -103.926095 |

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



WELL DETAILS: TIMBRO 0101-09H

GL = 4937'

RKB = 24' @ 4961.00usft (RIG)

Plan: Design #1 (TIMBRO 0101-09H/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 0101-09H          |
| <b>Company:</b>  | VERDAD RESOURCES           | <b>TVD Reference:</b>               | RKB = 24' @ 4961.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD           | <b>MD Reference:</b>                | RKB = 24' @ 4961.00usft (RIG) |
| <b>Site:</b>     | 9N-59W-01 TIMBRO 0101 PAD  | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | TIMBRO 0101-09H            | <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 0101-09H |                     |                   |               |               |
|----------------------|-------|-----------------|---------------------|-------------------|---------------|---------------|
| Well Position        | +N/-S | 0.00 usft       | Northing:           | 1,533,278.48 usft | Latitude:     | 40.786593     |
|                      | +E/-W | 0.00 usft       | Easting:            | 3,436,310.66 usft | Longitude:    | -103.924345   |
| Position Uncertainty |       | 3.28 usft       | Wellhead Elevation: | usft              | Ground Level: | 4,937.00 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                | 52,203.44746441            |

|                          |                                |                     |                     |                      |      |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| <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                | 179.26               |      |

|                                 |                        |                          |                    |                               |  |
|---------------------------------|------------------------|--------------------------|--------------------|-------------------------------|--|
| <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               | 11,279.36                | 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 0101-09H          |
| Company:  | VERDAD RESOURCES           | TVD Reference:               | RKB = 24' @ 4961.00usft (RIG) |
| Project:  | WATTENBERG FIELD           | MD Reference:                | RKB = 24' @ 4961.00usft (RIG) |
| Site:     | 9N-59W-01 TIMBRO 0101 PAD  | North Reference:             | True                          |
| Well:     | TIMBRO 0101-09H            | 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    |                   |
| 263.50                | 0.00            | 0.00        | 263.50                | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 717.00                | 9.07            | 326.17      | 715.11                | 29.76        | -19.94       | 2.00                    | 2.00                   | 0.00                  | 326.17  |                   |
| 5,392.37              | 9.07            | 326.17      | 5,332.02              | 642.00       | -430.27      | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 6,476.70              | 90.00           | 179.26      | 6,050.00              | 10.20        | -484.65      | 9.00                    | 7.46                   | -13.55                | -146.58 |                   |
| 11,279.36             | 90.00           | 179.26      | 6,050.00              | -4,792.05    | -422.34      | 0.00                    | 0.00                   | 0.00                  | 0.00    | TIMBRO 0101-09H_E |

## Planning Report

|                  |                            |                                     |                               |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db | <b>Local Co-ordinate Reference:</b> | Well TIMBRO 0101-09H          |
| <b>Company:</b>  | VERDAD RESOURCES           | <b>TVD Reference:</b>               | RKB = 24' @ 4961.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD           | <b>MD Reference:</b>                | RKB = 24' @ 4961.00usft (RIG) |
| <b>Site:</b>     | 9N-59W-01 TIMBRO 0101 PAD  | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | TIMBRO 0101-09H            | <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                  |
| 263.50                         | 0.00            | 0.00        | 263.50                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Begin Nudge @ 263.50ft</b>  |                 |             |                       |              |              |                         |                         |                        |                       |
| 300.00                         | 0.73            | 326.17      | 300.00                | 0.19         | -0.13        | -0.19                   | 2.00                    | 2.00                   | 0.00                  |
| 400.00                         | 2.73            | 326.17      | 399.95                | 2.70         | -1.81        | -2.72                   | 2.00                    | 2.00                   | 0.00                  |
| 500.00                         | 4.73            | 326.17      | 499.73                | 8.10         | -5.43        | -8.17                   | 2.00                    | 2.00                   | 0.00                  |
| 600.00                         | 6.73            | 326.17      | 599.23                | 16.40        | -10.99       | -16.54                  | 2.00                    | 2.00                   | 0.00                  |
| 700.00                         | 8.73            | 326.17      | 698.31                | 27.57        | -18.48       | -27.81                  | 2.00                    | 2.00                   | 0.00                  |
| 717.00                         | 9.07            | 326.17      | 715.11                | 29.76        | -19.94       | -30.01                  | 2.00                    | 2.00                   | 0.00                  |
| <b>Hold Tangent @ 717.00ft</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 800.00                         | 9.07            | 326.17      | 797.07                | 40.62        | -27.23       | -40.97                  | 0.00                    | 0.00                   | 0.00                  |
| 900.00                         | 9.07            | 326.17      | 895.82                | 53.72        | -36.00       | -54.18                  | 0.00                    | 0.00                   | 0.00                  |
| 1,000.00                       | 9.07            | 326.17      | 994.57                | 66.81        | -44.78       | -67.39                  | 0.00                    | 0.00                   | 0.00                  |
| 1,100.00                       | 9.07            | 326.17      | 1,093.32              | 79.91        | -53.56       | -80.59                  | 0.00                    | 0.00                   | 0.00                  |
| 1,200.00                       | 9.07            | 326.17      | 1,192.07              | 93.00        | -62.33       | -93.80                  | 0.00                    | 0.00                   | 0.00                  |
| 1,300.00                       | 9.07            | 326.17      | 1,290.82              | 106.10       | -71.11       | -107.01                 | 0.00                    | 0.00                   | 0.00                  |
| 1,400.00                       | 9.07            | 326.17      | 1,389.57              | 119.20       | -79.88       | -120.22                 | 0.00                    | 0.00                   | 0.00                  |
| 1,500.00                       | 9.07            | 326.17      | 1,488.32              | 132.29       | -88.66       | -133.42                 | 0.00                    | 0.00                   | 0.00                  |
| 1,600.00                       | 9.07            | 326.17      | 1,587.07              | 145.39       | -97.44       | -146.63                 | 0.00                    | 0.00                   | 0.00                  |
| 1,613.10                       | 9.07            | 326.17      | 1,600.00              | 147.10       | -98.59       | -148.36                 | 0.00                    | 0.00                   | 0.00                  |
| <b>9 5/8"</b>                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,700.00                       | 9.07            | 326.17      | 1,685.82              | 158.48       | -106.21      | -159.84                 | 0.00                    | 0.00                   | 0.00                  |
| 1,800.00                       | 9.07            | 326.17      | 1,784.57              | 171.58       | -114.99      | -173.05                 | 0.00                    | 0.00                   | 0.00                  |
| 1,900.00                       | 9.07            | 326.17      | 1,883.32              | 184.67       | -123.77      | -186.25                 | 0.00                    | 0.00                   | 0.00                  |
| 2,000.00                       | 9.07            | 326.17      | 1,982.07              | 197.77       | -132.54      | -199.46                 | 0.00                    | 0.00                   | 0.00                  |
| 2,100.00                       | 9.07            | 326.17      | 2,080.82              | 210.86       | -141.32      | -212.67                 | 0.00                    | 0.00                   | 0.00                  |
| 2,200.00                       | 9.07            | 326.17      | 2,179.57              | 223.96       | -150.10      | -225.88                 | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00                       | 9.07            | 326.17      | 2,278.32              | 237.05       | -158.87      | -239.08                 | 0.00                    | 0.00                   | 0.00                  |
| 2,400.00                       | 9.07            | 326.17      | 2,377.06              | 250.15       | -167.65      | -252.29                 | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00                       | 9.07            | 326.17      | 2,475.81              | 263.24       | -176.42      | -265.50                 | 0.00                    | 0.00                   | 0.00                  |
| 2,600.00                       | 9.07            | 326.17      | 2,574.56              | 276.34       | -185.20      | -278.71                 | 0.00                    | 0.00                   | 0.00                  |
| 2,700.00                       | 9.07            | 326.17      | 2,673.31              | 289.43       | -193.98      | -291.91                 | 0.00                    | 0.00                   | 0.00                  |
| 2,800.00                       | 9.07            | 326.17      | 2,772.06              | 302.53       | -202.75      | -305.12                 | 0.00                    | 0.00                   | 0.00                  |
| 2,900.00                       | 9.07            | 326.17      | 2,870.81              | 315.62       | -211.53      | -318.33                 | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00                       | 9.07            | 326.17      | 2,969.56              | 328.72       | -220.31      | -331.54                 | 0.00                    | 0.00                   | 0.00                  |
| 3,100.00                       | 9.07            | 326.17      | 3,068.31              | 341.81       | -229.08      | -344.74                 | 0.00                    | 0.00                   | 0.00                  |
| 3,200.00                       | 9.07            | 326.17      | 3,167.06              | 354.91       | -237.86      | -357.95                 | 0.00                    | 0.00                   | 0.00                  |
| 3,300.00                       | 9.07            | 326.17      | 3,265.81              | 368.00       | -246.64      | -371.16                 | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00                       | 9.07            | 326.17      | 3,364.56              | 381.10       | -255.41      | -384.36                 | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00                       | 9.07            | 326.17      | 3,463.31              | 394.19       | -264.19      | -397.57                 | 0.00                    | 0.00                   | 0.00                  |
| 3,600.00                       | 9.07            | 326.17      | 3,562.06              | 407.29       | -272.96      | -410.78                 | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00                       | 9.07            | 326.17      | 3,660.81              | 420.38       | -281.74      | -423.99                 | 0.00                    | 0.00                   | 0.00                  |
| 3,800.00                       | 9.07            | 326.17      | 3,759.56              | 433.48       | -290.52      | -437.19                 | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00                       | 9.07            | 326.17      | 3,858.31              | 446.57       | -299.29      | -450.40                 | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00                       | 9.07            | 326.17      | 3,957.06              | 459.67       | -308.07      | -463.61                 | 0.00                    | 0.00                   | 0.00                  |
| 4,100.00                       | 9.07            | 326.17      | 4,055.81              | 472.76       | -316.85      | -476.82                 | 0.00                    | 0.00                   | 0.00                  |
| 4,200.00                       | 9.07            | 326.17      | 4,154.56              | 485.86       | -325.62      | -490.02                 | 0.00                    | 0.00                   | 0.00                  |
| 4,300.00                       | 9.07            | 326.17      | 4,253.31              | 498.95       | -334.40      | -503.23                 | 0.00                    | 0.00                   | 0.00                  |
| 4,400.00                       | 9.07            | 326.17      | 4,352.06              | 512.05       | -343.18      | -516.44                 | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00                       | 9.07            | 326.17      | 4,450.81              | 525.14       | -351.95      | -529.65                 | 0.00                    | 0.00                   | 0.00                  |
| 4,600.00                       | 9.07            | 326.17      | 4,549.56              | 538.24       | -360.73      | -542.85                 | 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 0101-09H          |
| <b>Company:</b>  | VERDAD RESOURCES           | <b>TVD Reference:</b>               | RKB = 24' @ 4961.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD           | <b>MD Reference:</b>                | RKB = 24' @ 4961.00usft (RIG) |
| <b>Site:</b>     | 9N-59W-01 TIMBRO 0101 PAD  | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | TIMBRO 0101-09H            | <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                         | 9.07            | 326.17      | 4,648.31              | 551.33       | -369.50      | -556.06                 | 0.00                    | 0.00                   | 0.00                  |
| 4,800.00                         | 9.07            | 326.17      | 4,747.06              | 564.43       | -378.28      | -569.27                 | 0.00                    | 0.00                   | 0.00                  |
| 4,900.00                         | 9.07            | 326.17      | 4,845.81              | 577.52       | -387.06      | -582.48                 | 0.00                    | 0.00                   | 0.00                  |
| 5,000.00                         | 9.07            | 326.17      | 4,944.56              | 590.62       | -395.83      | -595.68                 | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00                         | 9.07            | 326.17      | 5,043.31              | 603.72       | -404.61      | -608.89                 | 0.00                    | 0.00                   | 0.00                  |
| 5,200.00                         | 9.07            | 326.17      | 5,142.06              | 616.81       | -413.39      | -622.10                 | 0.00                    | 0.00                   | 0.00                  |
| 5,300.00                         | 9.07            | 326.17      | 5,240.80              | 629.91       | -422.16      | -635.31                 | 0.00                    | 0.00                   | 0.00                  |
| 5,392.37                         | 9.07            | 326.17      | 5,332.02              | 642.00       | -430.27      | -647.50                 | 0.00                    | 0.00                   | 0.00                  |
| KOP @ 5392.37ft :: DLS = 9°/100' |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,400.00                         | 8.51            | 323.61      | 5,339.56              | 642.96       | -430.94      | -648.47                 | 9.00                    | -7.40                  | -33.52                |
| 5,450.00                         | 5.53            | 295.05      | 5,389.19              | 646.95       | -435.32      | -652.52                 | 9.00                    | -5.95                  | -57.12                |
| 5,500.00                         | 5.40            | 246.39      | 5,438.99              | 647.03       | -439.66      | -652.66                 | 9.00                    | -0.25                  | -97.33                |
| 5,550.00                         | 8.26            | 216.15      | 5,488.65              | 643.19       | -443.94      | -648.87                 | 9.00                    | 5.71                   | -60.47                |
| 5,600.00                         | 12.15           | 203.13      | 5,537.85              | 635.44       | -448.12      | -641.18                 | 9.00                    | 7.78                   | -26.04                |
| 5,650.00                         | 16.35           | 196.53      | 5,586.31              | 623.85       | -452.20      | -629.64                 | 9.00                    | 8.41                   | -13.20                |
| 5,700.00                         | 20.68           | 192.60      | 5,633.71              | 608.48       | -456.13      | -614.32                 | 9.00                    | 8.65                   | -7.86                 |
| 5,750.00                         | 25.07           | 190.00      | 5,679.77              | 589.42       | -459.89      | -595.31                 | 9.00                    | 8.77                   | -5.22                 |
| 5,800.00                         | 29.48           | 188.12      | 5,724.20              | 566.80       | -463.47      | -572.74                 | 9.00                    | 8.84                   | -3.74                 |
| 5,850.00                         | 33.92           | 186.70      | 5,766.73              | 540.75       | -466.84      | -546.73                 | 9.00                    | 8.88                   | -2.84                 |
| 5,900.00                         | 38.37           | 185.58      | 5,807.09              | 511.43       | -469.98      | -517.46                 | 9.00                    | 8.90                   | -2.25                 |
| 5,950.00                         | 42.83           | 184.65      | 5,845.05              | 479.03       | -472.87      | -485.10                 | 9.00                    | 8.92                   | -1.85                 |
| 6,000.00                         | 47.30           | 183.87      | 5,880.35              | 443.74       | -475.49      | -449.84                 | 9.00                    | 8.93                   | -1.56                 |
| 6,050.00                         | 51.77           | 183.19      | 5,912.80              | 405.78       | -477.82      | -411.92                 | 9.00                    | 8.94                   | -1.35                 |
| 6,100.00                         | 56.24           | 182.60      | 5,942.17              | 365.39       | -479.86      | -371.56                 | 9.00                    | 8.95                   | -1.20                 |
| 6,150.00                         | 60.72           | 182.06      | 5,968.31              | 322.81       | -481.58      | -329.01                 | 9.00                    | 8.95                   | -1.08                 |
| 6,200.00                         | 65.20           | 181.56      | 5,991.03              | 278.31       | -482.99      | -284.53                 | 9.00                    | 8.96                   | -0.99                 |
| 6,250.00                         | 69.68           | 181.11      | 6,010.21              | 232.17       | -484.06      | -238.40                 | 9.00                    | 8.96                   | -0.92                 |
| 6,300.00                         | 74.16           | 180.67      | 6,025.73              | 184.65       | -484.80      | -190.90                 | 9.00                    | 8.96                   | -0.87                 |
| 6,350.00                         | 78.64           | 180.26      | 6,037.48              | 136.07       | -485.19      | -142.32                 | 9.00                    | 8.96                   | -0.83                 |
| 6,400.00                         | 83.12           | 179.86      | 6,045.40              | 86.71        | -485.24      | -92.97                  | 9.00                    | 8.97                   | -0.80                 |
| 6,450.00                         | 87.61           | 179.47      | 6,049.44              | 36.89        | -484.95      | -43.15                  | 9.00                    | 8.97                   | -0.79                 |
| 6,476.70                         | 90.00           | 179.26      | 6,050.00              | 10.20        | -484.65      | -16.46                  | 9.00                    | 8.97                   | -0.78                 |
| TPZ @ 6476.70ft                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,500.00                         | 90.00           | 179.26      | 6,050.00              | -13.10       | -484.35      | 6.84                    | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00                         | 90.00           | 179.26      | 6,050.00              | -113.09      | -483.05      | 106.84                  | 0.00                    | 0.00                   | 0.00                  |
| 6,700.00                         | 90.00           | 179.26      | 6,050.00              | -213.08      | -481.75      | 206.84                  | 0.00                    | 0.00                   | 0.00                  |
| 6,800.00                         | 90.00           | 179.26      | 6,050.00              | -313.07      | -480.45      | 306.84                  | 0.00                    | 0.00                   | 0.00                  |
| 6,900.00                         | 90.00           | 179.26      | 6,050.00              | -413.06      | -479.16      | 406.84                  | 0.00                    | 0.00                   | 0.00                  |
| 7,000.00                         | 90.00           | 179.26      | 6,050.00              | -513.06      | -477.86      | 506.84                  | 0.00                    | 0.00                   | 0.00                  |
| 7,100.00                         | 90.00           | 179.26      | 6,050.00              | -613.05      | -476.56      | 606.84                  | 0.00                    | 0.00                   | 0.00                  |
| 7,200.00                         | 90.00           | 179.26      | 6,050.00              | -713.04      | -475.26      | 706.84                  | 0.00                    | 0.00                   | 0.00                  |
| 7,300.00                         | 90.00           | 179.26      | 6,050.00              | -813.03      | -473.97      | 806.84                  | 0.00                    | 0.00                   | 0.00                  |
| 7,400.00                         | 90.00           | 179.26      | 6,050.00              | -913.02      | -472.67      | 906.84                  | 0.00                    | 0.00                   | 0.00                  |
| 7,500.00                         | 90.00           | 179.26      | 6,050.00              | -1,013.01    | -471.37      | 1,006.84                | 0.00                    | 0.00                   | 0.00                  |
| 7,600.00                         | 90.00           | 179.26      | 6,050.00              | -1,113.00    | -470.07      | 1,106.84                | 0.00                    | 0.00                   | 0.00                  |
| 7,700.00                         | 90.00           | 179.26      | 6,050.00              | -1,213.00    | -468.78      | 1,206.84                | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00                         | 90.00           | 179.26      | 6,050.00              | -1,312.99    | -467.48      | 1,306.84                | 0.00                    | 0.00                   | 0.00                  |
| 7,900.00                         | 90.00           | 179.26      | 6,050.00              | -1,412.98    | -466.18      | 1,406.84                | 0.00                    | 0.00                   | 0.00                  |
| 8,000.00                         | 90.00           | 179.26      | 6,050.00              | -1,512.97    | -464.89      | 1,506.84                | 0.00                    | 0.00                   | 0.00                  |
| 8,100.00                         | 90.00           | 179.26      | 6,050.00              | -1,612.96    | -463.59      | 1,606.84                | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00                         | 90.00           | 179.26      | 6,050.00              | -1,712.95    | -462.29      | 1,706.84                | 0.00                    | 0.00                   | 0.00                  |
| 8,300.00                         | 90.00           | 179.26      | 6,050.00              | -1,812.95    | -460.99      | 1,806.84                | 0.00                    | 0.00                   | 0.00                  |
| 8,400.00                         | 90.00           | 179.26      | 6,050.00              | -1,912.94    | -459.70      | 1,906.84                | 0.00                    | 0.00                   | 0.00                  |
| 8,500.00                         | 90.00           | 179.26      | 6,050.00              | -2,012.93    | -458.40      | 2,006.84                | 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 0101-09H          |
| <b>Company:</b>  | VERDAD RESOURCES           | <b>TVD Reference:</b>               | RKB = 24' @ 4961.00usft (RIG) |
| <b>Project:</b>  | WATTENBERG FIELD           | <b>MD Reference:</b>                | RKB = 24' @ 4961.00usft (RIG) |
| <b>Site:</b>     | 9N-59W-01 TIMBRO 0101 PAD  | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | TIMBRO 0101-09H            | <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) |  |
| 8,600.00              | 90.00           | 179.26      | 6,050.00              | -2,112.92    | -457.10      | 2,106.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 8,700.00              | 90.00           | 179.26      | 6,050.00              | -2,212.91    | -455.80      | 2,206.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 8,800.00              | 90.00           | 179.26      | 6,050.00              | -2,312.90    | -454.51      | 2,306.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 8,900.00              | 90.00           | 179.26      | 6,050.00              | -2,412.90    | -453.21      | 2,406.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 9,000.00              | 90.00           | 179.26      | 6,050.00              | -2,512.89    | -451.91      | 2,506.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 9,100.00              | 90.00           | 179.26      | 6,050.00              | -2,612.88    | -450.61      | 2,606.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 9,200.00              | 90.00           | 179.26      | 6,050.00              | -2,712.87    | -449.32      | 2,706.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 9,300.00              | 90.00           | 179.26      | 6,050.00              | -2,812.86    | -448.02      | 2,806.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 9,400.00              | 90.00           | 179.26      | 6,050.00              | -2,912.85    | -446.72      | 2,906.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 9,500.00              | 90.00           | 179.26      | 6,050.00              | -3,012.85    | -445.43      | 3,006.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 9,600.00              | 90.00           | 179.26      | 6,050.00              | -3,112.84    | -444.13      | 3,106.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 9,700.00              | 90.00           | 179.26      | 6,050.00              | -3,212.83    | -442.83      | 3,206.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 9,800.00              | 90.00           | 179.26      | 6,050.00              | -3,312.82    | -441.53      | 3,306.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 9,900.00              | 90.00           | 179.26      | 6,050.00              | -3,412.81    | -440.24      | 3,406.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 10,000.00             | 90.00           | 179.26      | 6,050.00              | -3,512.80    | -438.94      | 3,506.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 10,100.00             | 90.00           | 179.26      | 6,050.00              | -3,612.79    | -437.64      | 3,606.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 10,200.00             | 90.00           | 179.26      | 6,050.00              | -3,712.79    | -436.34      | 3,706.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 10,300.00             | 90.00           | 179.26      | 6,050.00              | -3,812.78    | -435.05      | 3,806.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 10,400.00             | 90.00           | 179.26      | 6,050.00              | -3,912.77    | -433.75      | 3,906.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 10,500.00             | 90.00           | 179.26      | 6,050.00              | -4,012.76    | -432.45      | 4,006.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 10,600.00             | 90.00           | 179.26      | 6,050.00              | -4,112.75    | -431.16      | 4,106.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 10,700.00             | 90.00           | 179.26      | 6,050.00              | -4,212.74    | -429.86      | 4,206.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 10,800.00             | 90.00           | 179.26      | 6,050.00              | -4,312.74    | -428.56      | 4,306.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 10,900.00             | 90.00           | 179.26      | 6,050.00              | -4,412.73    | -427.26      | 4,406.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,000.00             | 90.00           | 179.26      | 6,050.00              | -4,512.72    | -425.97      | 4,506.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,100.00             | 90.00           | 179.26      | 6,050.00              | -4,612.71    | -424.67      | 4,606.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,189.36             | 90.00           | 179.26      | 6,050.00              | -4,702.06    | -423.51      | 4,696.20                | 0.00                    | 0.00                   | 0.00                  |  |
| BPZ @ 11189.36ft      |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 11,200.00             | 90.00           | 179.26      | 6,050.00              | -4,712.70    | -423.37      | 4,706.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,279.36             | 90.00           | 179.26      | 6,050.00              | -4,792.05    | -422.34      | 4,786.20                | 0.00                    | 0.00                   | 0.00                  |  |
| TD Well @ 11279.36ft  |                 |             |                       |              |              |                         |                         |                        |                       |  |

| Casing Points         |                       |        |  |                     |                   |
|-----------------------|-----------------------|--------|--|---------------------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name   |  | Casing Diameter (") | Hole Diameter (") |
| 1,613.10              | 1,600.00              | 9 5/8" |  | 9-5/8               | 13-1/2            |

| Plan Annotations      |                       |                   |              |                                  |  |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                          |  |
| 263.50                | 263.50                | +N/-S (usft)      | +E/-W (usft) | Begin Nudge @ 263.50ft           |  |
| 717.00                | 715.11                | 29.76             | -19.94       | Hold Tangent @ 717.00ft          |  |
| 5,392.37              | 5,332.02              | 642.00            | -430.27      | KOP @ 5392.37ft :: DLS = 9°/100' |  |
| 6,476.70              | 6,050.00              | 10.20             | -484.65      | TPZ @ 6476.70ft                  |  |
| 11,189.36             | 6,050.00              | -4,702.06         | -423.51      | BPZ @ 11189.36ft                 |  |
| 11,279.36             | 6,050.00              | -4,792.05         | -422.34      | TD Well @ 11279.36ft             |  |