

VERDAD RESOURCES

WATTENBERG FIELD

9N-59W-01 TIMBRO 0101 PAD

TIMBRO 0112-02H

Plan A

Plan: Design #1

Standard Planning Report

18 January, 2023

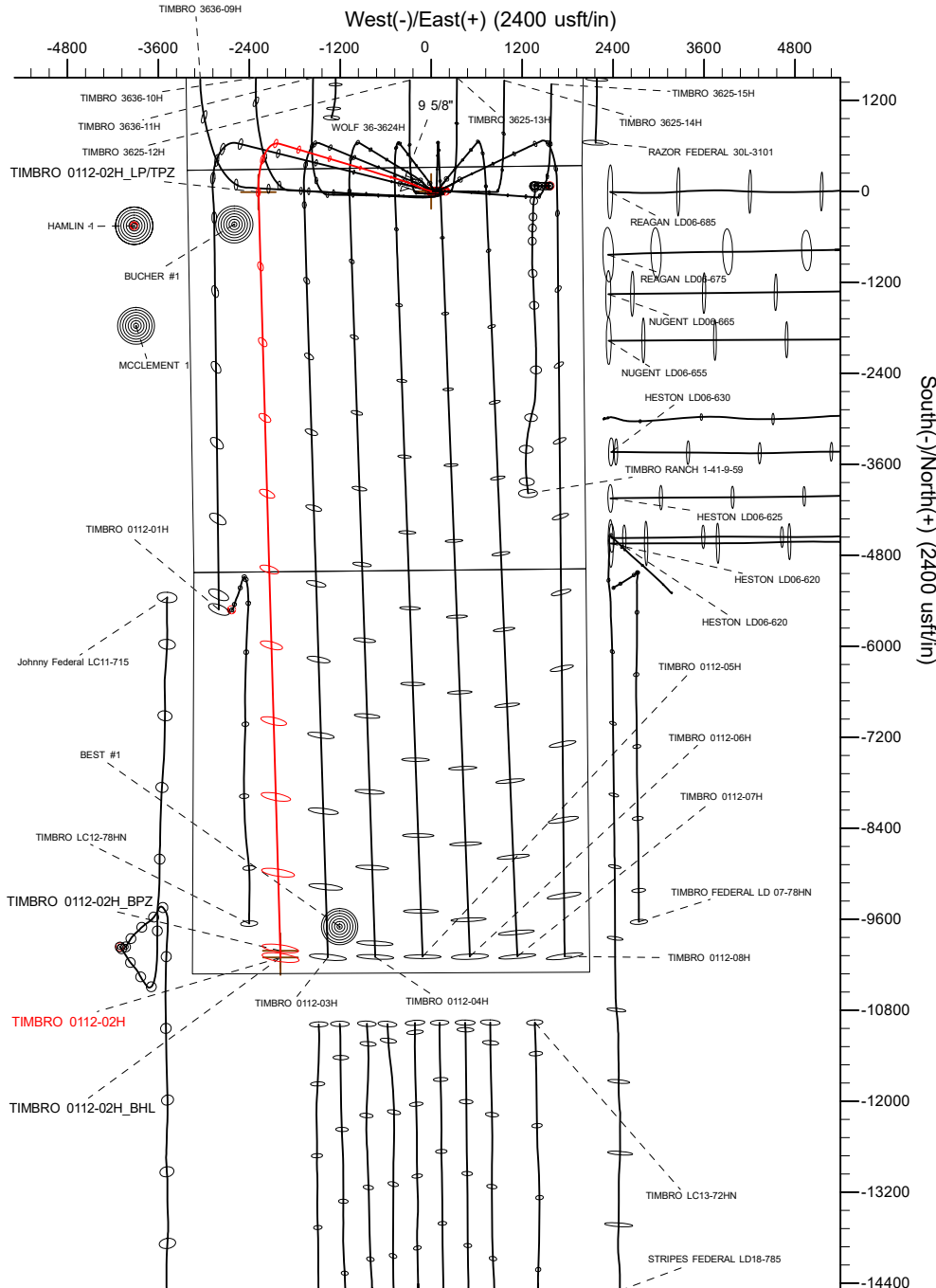
Project: WATTENBERG FIELD
Site: 9N-59W-01 TIMBRO 0101 PAD
Well: TIMBRO 0112-02H
Wellbore: Plan A
Design: Design #1

VERDAD RESOURCES

CASING DETAILS

| TVD | MD | Name | Size |
|---------|---------|--------|-------|
| 1715.00 | 1779.25 | 9 5/8" | 9-5/8 |

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

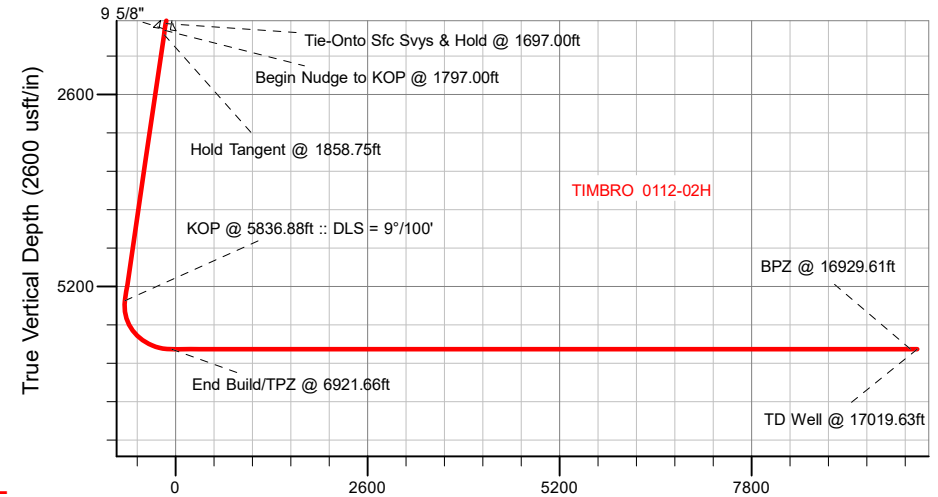


SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | Vsect | Target |
|-----|----------|-------|--------|---------|-----------|----------|------|---------|----------|---------------------|
| 1 | 1697.00 | 24.41 | 289.12 | 1640.10 | 124.71 | -327.39 | 0.00 | 0.00 | -134.15 | |
| 2 | 1797.00 | 24.41 | 289.12 | 1731.16 | 138.25 | -366.44 | 0.00 | 0.00 | -148.81 | |
| 3 | 1858.75 | 25.06 | 286.61 | 1787.24 | 146.17 | -391.02 | 2.00 | -59.39 | -157.43 | |
| 4 | 5836.88 | 25.06 | 286.61 | 5390.89 | 627.84 | -2005.72 | 0.00 | 0.00 | -685.68 | |
| 5 | 6921.66 | 90.00 | 178.34 | 6050.00 | -11.36 | -2279.97 | 9.00 | -106.65 | -54.69 | |
| 6 | 17019.63 | 90.00 | 178.34 | 6050.00 | -10105.09 | -1987.46 | 0.00 | 0.00 | 10043.27 | TIMBRO 0112-02H_BHL |

WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude |
|------------------------|---------|-----------|----------|-----------|-------------|
| TIMBRO 0112-02H_SHL | 0.00 | 0.00 | 0.00 | 40.786591 | -103.924519 |
| TIMBRO 0112-02H_LP/TPZ | 6050.00 | -11.36 | -2279.97 | 40.786560 | -103.932753 |
| TIMBRO 0112-02H_BPZ | 6050.00 | -10015.10 | -1989.94 | 40.759102 | -103.931702 |
| TIMBRO 0112-02H_BHL | 6050.00 | -10105.09 | -1987.46 | 40.758855 | -103.931693 |



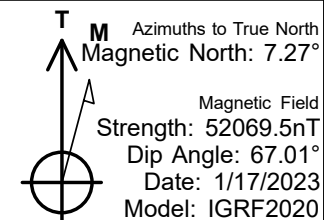
Vertical Section at 178.34° (2600 usft/in)

SHL
316' FNL
1993' FEL

LP
300' FNL
931' FWL

BPZ
300' FSL
1157' FWL

BHL
210' FSL
1160' FWL



WELL DETAILS: TIMBRO 0112-02H

GL = 4939'

RKB = 20' @ 4959.00usft (RIG)

Plan: Design #1 (TIMBRO 0112-02H/Plan A)

Date: 1/18/2023

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 0112-02H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 4959.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 4959.00usft (RIG) |
| Site: | 9N-59W-01 TIMBRO 0101 PAD | North Reference: | True |
| Well: | TIMBRO 0112-02H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | Design #1 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | WATTENBERG FIELD | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | 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 0112-02H | | | | |
|----------------------|-------|-----------------|---------------------|-------------------|---------------|---------------|
| Well Position | +N/-S | 0.00 usft | Northing: | 1,533,276.94 usft | Latitude: | 40.786591 |
| | +E/-W | 0.00 usft | Easting: | 3,436,262.51 usft | Longitude: | -103.924519 |
| Position Uncertainty | | 3.28 usft | Wellhead Elevation: | usft | Ground Level: | 4,939.00 usft |
| Grid Convergence: | | 1.02 ° | | | | |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Plan A | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF202013 | 1/17/2023 | 7.27 | 67.01 | 52,069.52076573 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|----------|
| Design | Design #1 | | | | |
| Audit Notes: | | | | | |
| Version: | | Phase: | PLAN | Tie On Depth: | 1,697.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 178.34 | |

| | | | | | |
|---------------------------------|------------------------|--------------------------|-------------------------------|-------------------------------|--|
| Plan Survey Tool Program | Date | 1/18/2023 | | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks | |
| 1 | 20.00 | 1,697.00 | SLB MWD Surface Surveys (Plan | ISCWSA MWD | |
| | | | | Fixed:v2:standard declination | |
| 2 | 1,697.00 | 17,019.63 | Design #1 (Plan A) | ISCWSA MWD | |
| | | | | Fixed:v2:standard declination | |

Planning Report

| | | | |
|-----------|----------------------------|------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 0112-02H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 4959.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 4959.00usft (RIG) |
| Site: | 9N-59W-01 TIMBRO 0101 PAD | North Reference: | True |
| Well: | TIMBRO 0112-02H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| 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 |
| 1,697.00 | 24.41 | 289.12 | 1,640.10 | 124.71 | -327.39 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,797.00 | 24.41 | 289.12 | 1,731.16 | 138.25 | -366.44 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,858.75 | 25.06 | 286.61 | 1,787.24 | 146.17 | -391.02 | 2.00 | 1.05 | -4.06 | -59.39 | |
| 5,836.88 | 25.06 | 286.61 | 5,390.89 | 627.84 | -2,005.72 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,921.66 | 90.00 | 178.34 | 6,050.00 | -11.36 | -2,279.97 | 9.00 | 5.99 | -9.98 | -106.65 | |
| 17,019.63 | 90.00 | 178.34 | 6,050.00 | -10,105.09 | -1,987.46 | 0.00 | 0.00 | 0.00 | 0.00 | TIMBRO 0112-02H_B |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 0112-02H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 4959.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 4959.00usft (RIG) |
| Site: | 9N-59W-01 TIMBRO 0101 PAD | North Reference: | True |
| Well: | TIMBRO 0112-02H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | 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 |
| 20.00 | 0.00 | 0.00 | 20.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 197.00 | 0.48 | 343.33 | 197.00 | 0.71 | -0.21 | -0.72 | 0.27 | 0.27 | 0.00 |
| 227.00 | 0.19 | 287.34 | 227.00 | 0.85 | -0.30 | -0.85 | 1.35 | -0.97 | -186.63 |
| 253.00 | 0.28 | 304.61 | 253.00 | 0.89 | -0.39 | -0.91 | 0.44 | 0.35 | 66.42 |
| 282.00 | 0.46 | 281.84 | 282.00 | 0.96 | -0.56 | -0.97 | 0.79 | 0.62 | -78.52 |
| 310.00 | 1.18 | 256.66 | 309.99 | 0.92 | -0.95 | -0.94 | 2.82 | 2.57 | -89.93 |
| 341.00 | 1.39 | 252.82 | 340.99 | 0.73 | -1.62 | -0.78 | 0.73 | 0.68 | -12.39 |
| 371.00 | 1.75 | 271.50 | 370.97 | 0.63 | -2.43 | -0.70 | 2.07 | 1.20 | 62.27 |
| 401.00 | 2.20 | 280.57 | 400.96 | 0.75 | -3.45 | -0.85 | 1.82 | 1.50 | 30.23 |
| 431.00 | 2.45 | 287.43 | 430.93 | 1.05 | -4.63 | -1.18 | 1.25 | 0.83 | 22.87 |
| 461.00 | 2.91 | 286.22 | 460.90 | 1.45 | -5.97 | -1.63 | 1.54 | 1.53 | -4.03 |
| 491.00 | 3.38 | 286.14 | 490.85 | 1.91 | -7.55 | -2.13 | 1.57 | 1.57 | -0.27 |
| 521.00 | 4.34 | 292.84 | 520.79 | 2.60 | -9.45 | -2.87 | 3.53 | 3.20 | 22.33 |
| 551.00 | 5.33 | 294.29 | 550.68 | 3.61 | -11.77 | -3.95 | 3.32 | 3.30 | 4.83 |
| 581.00 | 6.16 | 289.75 | 580.53 | 4.73 | -14.55 | -5.15 | 3.15 | 2.77 | -15.13 |
| 611.00 | 6.83 | 290.01 | 610.34 | 5.89 | -17.74 | -6.40 | 2.24 | 2.23 | 0.87 |
| 641.00 | 7.94 | 289.62 | 640.09 | 7.19 | -21.37 | -7.81 | 3.70 | 3.70 | -1.30 |
| 671.00 | 8.72 | 291.18 | 669.77 | 8.71 | -25.44 | -9.44 | 2.71 | 2.60 | 5.20 |
| 701.00 | 9.79 | 289.51 | 699.38 | 10.38 | -29.97 | -11.25 | 3.68 | 3.57 | -5.57 |
| 731.00 | 10.61 | 288.51 | 728.90 | 12.11 | -34.99 | -13.12 | 2.80 | 2.73 | -3.33 |
| 761.00 | 11.64 | 285.94 | 758.34 | 13.82 | -40.52 | -14.99 | 3.81 | 3.43 | -8.57 |
| 791.00 | 12.21 | 285.28 | 787.69 | 15.49 | -46.49 | -16.83 | 1.95 | 1.90 | -2.20 |
| 821.00 | 13.04 | 285.07 | 816.97 | 17.20 | -52.82 | -18.73 | 2.77 | 2.77 | -0.70 |
| 851.00 | 14.00 | 284.55 | 846.14 | 18.99 | -59.60 | -20.71 | 3.23 | 3.20 | -1.73 |
| 881.00 | 14.50 | 284.52 | 875.21 | 20.85 | -66.75 | -22.77 | 1.67 | 1.67 | -0.10 |
| 911.00 | 15.09 | 284.61 | 904.22 | 22.77 | -74.16 | -24.91 | 1.97 | 1.97 | 0.30 |
| 941.00 | 15.68 | 286.35 | 933.14 | 24.90 | -81.83 | -27.26 | 2.50 | 1.97 | 5.80 |
| 971.00 | 16.12 | 288.17 | 961.99 | 27.34 | -89.68 | -29.93 | 2.22 | 1.47 | 6.07 |
| 1,001.00 | 16.25 | 289.44 | 990.81 | 30.04 | -97.59 | -32.85 | 1.26 | 0.43 | 4.23 |
| 1,031.00 | 16.67 | 290.64 | 1,019.58 | 32.95 | -105.58 | -35.99 | 1.80 | 1.40 | 4.00 |
| 1,061.00 | 17.14 | 292.33 | 1,048.28 | 36.15 | -113.69 | -39.42 | 2.27 | 1.57 | 5.63 |
| 1,091.00 | 17.46 | 293.35 | 1,076.92 | 39.61 | -121.91 | -43.12 | 1.47 | 1.07 | 3.40 |
| 1,121.00 | 17.99 | 293.58 | 1,105.50 | 43.25 | -130.29 | -47.00 | 1.78 | 1.77 | 0.77 |
| 1,151.00 | 18.25 | 293.55 | 1,134.01 | 46.98 | -138.84 | -50.98 | 0.87 | 0.87 | -0.10 |
| 1,181.00 | 19.09 | 294.05 | 1,162.43 | 50.85 | -147.63 | -55.11 | 2.85 | 2.80 | 1.67 |
| 1,211.00 | 19.65 | 294.36 | 1,190.73 | 54.93 | -156.71 | -59.45 | 1.90 | 1.87 | 1.03 |
| 1,241.00 | 20.01 | 295.28 | 1,218.95 | 59.20 | -165.94 | -63.99 | 1.59 | 1.20 | 3.07 |
| 1,271.00 | 20.24 | 295.71 | 1,247.12 | 63.65 | -175.26 | -68.70 | 0.91 | 0.77 | 1.43 |
| 1,301.00 | 20.25 | 295.46 | 1,275.27 | 68.13 | -184.62 | -73.45 | 0.29 | 0.03 | -0.83 |
| 1,331.00 | 20.61 | 294.36 | 1,303.38 | 72.54 | -194.12 | -78.13 | 1.75 | 1.20 | -3.67 |
| 1,361.00 | 20.79 | 293.63 | 1,331.45 | 76.85 | -203.81 | -82.72 | 1.05 | 0.60 | -2.43 |
| 1,391.00 | 21.01 | 293.70 | 1,359.47 | 81.15 | -213.61 | -87.30 | 0.74 | 0.73 | 0.23 |
| 1,421.00 | 21.54 | 292.99 | 1,387.43 | 85.46 | -223.60 | -91.90 | 1.96 | 1.77 | -2.37 |
| 1,451.00 | 22.44 | 292.43 | 1,415.24 | 89.80 | -233.97 | -96.54 | 3.08 | 3.00 | -1.87 |
| 1,481.00 | 22.99 | 291.97 | 1,442.92 | 94.17 | -244.69 | -101.22 | 1.93 | 1.83 | -1.53 |
| 1,511.00 | 23.69 | 291.53 | 1,470.46 | 98.58 | -255.73 | -105.94 | 2.40 | 2.33 | -1.47 |
| 1,541.00 | 23.98 | 291.15 | 1,497.90 | 102.99 | -267.02 | -110.68 | 1.09 | 0.97 | -1.27 |
| 1,571.00 | 24.43 | 290.76 | 1,525.27 | 107.39 | -278.51 | -115.41 | 1.59 | 1.50 | -1.30 |
| 1,601.00 | 24.21 | 289.50 | 1,552.60 | 111.64 | -290.11 | -120.00 | 1.88 | -0.73 | -4.20 |
| 1,631.00 | 24.26 | 289.69 | 1,579.96 | 115.77 | -301.71 | -124.46 | 0.31 | 0.17 | 0.63 |
| 1,661.00 | 24.32 | 289.03 | 1,607.31 | 119.86 | -313.35 | -128.89 | 0.93 | 0.20 | -2.20 |
| 1,697.00 | 24.41 | 289.12 | 1,640.10 | 124.71 | -327.39 | -134.15 | 0.27 | 0.25 | 0.25 |
| Tie-onto Sfc Svcs & Hold @ 1697.00ft | | | | | | | | | |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 0112-02H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 4959.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 4959.00usft (RIG) |
| Site: | 9N-59W-01 TIMBRO 0101 PAD | North Reference: | True |
| Well: | TIMBRO 0112-02H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | 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) |
| 1,700.00 | 24.41 | 289.12 | 1,642.83 | 125.12 | -328.56 | -134.59 | 0.00 | 0.00 | 0.00 |
| 1,779.25 | 24.41 | 289.12 | 1,715.00 | 135.85 | -359.51 | -146.21 | 0.00 | 0.00 | 0.00 |
| 9 5/8" | | | | | | | | | |
| 1,797.00 | 24.41 | 289.12 | 1,731.16 | 138.25 | -366.44 | -148.81 | 0.00 | 0.00 | 0.00 |
| Begin Nudge to KOP @ 1797.00ft | | | | | | | | | |
| 1,800.00 | 24.44 | 289.00 | 1,733.89 | 138.66 | -367.61 | -149.25 | 2.00 | 1.02 | -4.16 |
| 1,858.75 | 25.06 | 286.61 | 1,787.24 | 146.17 | -391.02 | -157.43 | 2.00 | 1.05 | -4.06 |
| Hold Tangent @ 1858.75ft | | | | | | | | | |
| 1,900.00 | 25.06 | 286.61 | 1,824.61 | 151.16 | -407.77 | -162.91 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 25.06 | 286.61 | 1,915.20 | 163.27 | -448.36 | -176.19 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 25.06 | 286.61 | 2,005.79 | 175.38 | -488.95 | -189.47 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 25.06 | 286.61 | 2,096.37 | 187.49 | -529.54 | -202.75 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 25.06 | 286.61 | 2,186.96 | 199.59 | -570.13 | -216.03 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 25.06 | 286.61 | 2,277.55 | 211.70 | -610.71 | -229.30 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 25.06 | 286.61 | 2,368.13 | 223.81 | -651.30 | -242.58 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 25.06 | 286.61 | 2,458.72 | 235.92 | -691.89 | -255.86 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 25.06 | 286.61 | 2,549.30 | 248.03 | -732.48 | -269.14 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 25.06 | 286.61 | 2,639.89 | 260.13 | -773.07 | -282.42 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 25.06 | 286.61 | 2,730.48 | 272.24 | -813.66 | -295.70 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 25.06 | 286.61 | 2,821.06 | 284.35 | -854.25 | -308.98 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 25.06 | 286.61 | 2,911.65 | 296.46 | -894.84 | -322.26 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 25.06 | 286.61 | 3,002.24 | 308.57 | -935.43 | -335.53 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 25.06 | 286.61 | 3,092.82 | 320.67 | -976.02 | -348.81 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 25.06 | 286.61 | 3,183.41 | 332.78 | -1,016.61 | -362.09 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 25.06 | 286.61 | 3,274.00 | 344.89 | -1,057.20 | -375.37 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 25.06 | 286.61 | 3,364.58 | 357.00 | -1,097.79 | -388.65 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 25.06 | 286.61 | 3,455.17 | 369.10 | -1,138.38 | -401.93 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 25.06 | 286.61 | 3,545.76 | 381.21 | -1,178.96 | -415.21 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 25.06 | 286.61 | 3,636.34 | 393.32 | -1,219.55 | -428.48 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 25.06 | 286.61 | 3,726.93 | 405.43 | -1,260.14 | -441.76 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 25.06 | 286.61 | 3,817.52 | 417.54 | -1,300.73 | -455.04 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 25.06 | 286.61 | 3,908.10 | 429.64 | -1,341.32 | -468.32 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 25.06 | 286.61 | 3,998.69 | 441.75 | -1,381.91 | -481.60 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 25.06 | 286.61 | 4,089.27 | 453.86 | -1,422.50 | -494.88 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 25.06 | 286.61 | 4,179.86 | 465.97 | -1,463.09 | -508.16 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 25.06 | 286.61 | 4,270.45 | 478.08 | -1,503.68 | -521.43 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 25.06 | 286.61 | 4,361.03 | 490.18 | -1,544.27 | -534.71 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 25.06 | 286.61 | 4,451.62 | 502.29 | -1,584.86 | -547.99 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 25.06 | 286.61 | 4,542.21 | 514.40 | -1,625.45 | -561.27 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 25.06 | 286.61 | 4,632.79 | 526.51 | -1,666.04 | -574.55 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 25.06 | 286.61 | 4,723.38 | 538.62 | -1,706.63 | -587.83 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 25.06 | 286.61 | 4,813.97 | 550.72 | -1,747.21 | -601.11 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 25.06 | 286.61 | 4,904.55 | 562.83 | -1,787.80 | -614.38 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 25.06 | 286.61 | 4,995.14 | 574.94 | -1,828.39 | -627.66 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 25.06 | 286.61 | 5,085.73 | 587.05 | -1,868.98 | -640.94 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 25.06 | 286.61 | 5,176.31 | 599.15 | -1,909.57 | -654.22 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 25.06 | 286.61 | 5,266.90 | 611.26 | -1,950.16 | -667.50 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 25.06 | 286.61 | 5,357.49 | 623.37 | -1,990.75 | -680.78 | 0.00 | 0.00 | 0.00 |
| 5,836.88 | 25.06 | 286.61 | 5,390.89 | 627.84 | -2,005.72 | -685.68 | 0.00 | 0.00 | 0.00 |
| KOP @ 5836.88ft :: DLS = 9°/100' | | | | | | | | | |
| 5,850.00 | 24.75 | 283.91 | 5,402.79 | 629.29 | -2,011.05 | -687.28 | 9.00 | -2.39 | -20.61 |
| 5,900.00 | 24.02 | 273.14 | 5,448.36 | 632.36 | -2,031.38 | -690.94 | 9.00 | -1.46 | -21.54 |
| 5,950.00 | 24.07 | 262.08 | 5,494.04 | 631.51 | -2,051.64 | -690.68 | 9.00 | 0.11 | -22.12 |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 0112-02H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 4959.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 4959.00usft (RIG) |
| Site: | 9N-59W-01 TIMBRO 0101 PAD | North Reference: | True |
| Well: | TIMBRO 0112-02H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | 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) | |
| 6,000.00 | 24.90 | 251.39 | 5,539.57 | 626.75 | -2,071.73 | -686.50 | 9.00 | 1.66 | -21.37 | |
| 6,050.00 | 26.43 | 241.61 | 5,584.65 | 618.09 | -2,091.51 | -678.42 | 9.00 | 3.07 | -19.56 | |
| 6,100.00 | 28.56 | 233.01 | 5,629.02 | 605.60 | -2,110.85 | -666.50 | 9.00 | 4.25 | -17.21 | |
| 6,150.00 | 31.15 | 225.61 | 5,672.40 | 589.36 | -2,129.65 | -650.80 | 9.00 | 5.19 | -14.79 | |
| 6,200.00 | 34.11 | 219.31 | 5,714.51 | 569.45 | -2,147.78 | -631.43 | 9.00 | 5.91 | -12.60 | |
| 6,250.00 | 37.34 | 213.94 | 5,755.11 | 546.01 | -2,165.13 | -608.50 | 9.00 | 6.46 | -10.74 | |
| 6,300.00 | 40.78 | 209.32 | 5,793.94 | 519.18 | -2,181.60 | -582.16 | 9.00 | 6.88 | -9.22 | |
| 6,350.00 | 44.38 | 205.33 | 5,830.76 | 489.13 | -2,197.09 | -552.57 | 9.00 | 7.20 | -7.99 | |
| 6,400.00 | 48.10 | 201.82 | 5,865.34 | 456.03 | -2,211.49 | -519.91 | 9.00 | 7.44 | -7.01 | |
| 6,450.00 | 51.91 | 198.71 | 5,897.48 | 420.11 | -2,224.72 | -484.38 | 9.00 | 7.63 | -6.23 | |
| 6,500.00 | 55.80 | 195.90 | 5,926.97 | 381.56 | -2,236.71 | -446.20 | 9.00 | 7.78 | -5.61 | |
| 6,550.00 | 59.75 | 193.35 | 5,953.63 | 340.64 | -2,247.36 | -405.60 | 9.00 | 7.90 | -5.11 | |
| 6,600.00 | 63.74 | 190.99 | 5,977.29 | 297.60 | -2,256.63 | -362.84 | 9.00 | 7.99 | -4.71 | |
| 6,650.00 | 67.77 | 188.79 | 5,997.82 | 252.70 | -2,264.44 | -318.19 | 9.00 | 8.06 | -4.40 | |
| 6,700.00 | 71.83 | 186.72 | 6,015.08 | 206.21 | -2,270.76 | -271.91 | 9.00 | 8.11 | -4.15 | |
| 6,750.00 | 75.91 | 184.74 | 6,028.97 | 158.43 | -2,275.55 | -224.28 | 9.00 | 8.16 | -3.96 | |
| 6,800.00 | 80.00 | 182.83 | 6,039.40 | 109.65 | -2,278.77 | -175.62 | 9.00 | 8.19 | -3.82 | |
| 6,850.00 | 84.11 | 180.97 | 6,046.32 | 60.17 | -2,280.41 | -126.21 | 9.00 | 8.21 | -3.73 | |
| 6,900.00 | 88.22 | 179.13 | 6,049.66 | 10.30 | -2,280.45 | -76.35 | 9.00 | 8.22 | -3.67 | |
| 6,921.66 | 90.00 | 178.34 | 6,050.00 | -11.36 | -2,279.97 | -54.69 | 9.00 | 8.23 | -3.65 | |
| End Build/TPZ @ 6921.66ft | | | | | | | | | | |
| 7,000.00 | 90.00 | 178.34 | 6,050.00 | -89.66 | -2,277.70 | 23.64 | 0.00 | 0.00 | 0.00 | |
| 7,100.00 | 90.00 | 178.34 | 6,050.00 | -189.62 | -2,274.80 | 123.64 | 0.00 | 0.00 | 0.00 | |
| 7,200.00 | 90.00 | 178.34 | 6,050.00 | -289.58 | -2,271.91 | 223.64 | 0.00 | 0.00 | 0.00 | |
| 7,300.00 | 90.00 | 178.34 | 6,050.00 | -389.54 | -2,269.01 | 323.64 | 0.00 | 0.00 | 0.00 | |
| 7,400.00 | 90.00 | 178.34 | 6,050.00 | -489.49 | -2,266.11 | 423.64 | 0.00 | 0.00 | 0.00 | |
| 7,500.00 | 90.00 | 178.34 | 6,050.00 | -589.45 | -2,263.22 | 523.64 | 0.00 | 0.00 | 0.00 | |
| 7,600.00 | 90.00 | 178.34 | 6,050.00 | -689.41 | -2,260.32 | 623.64 | 0.00 | 0.00 | 0.00 | |
| 7,700.00 | 90.00 | 178.34 | 6,050.00 | -789.37 | -2,257.42 | 723.64 | 0.00 | 0.00 | 0.00 | |
| 7,800.00 | 90.00 | 178.34 | 6,050.00 | -889.33 | -2,254.53 | 823.64 | 0.00 | 0.00 | 0.00 | |
| 7,900.00 | 90.00 | 178.34 | 6,050.00 | -989.28 | -2,251.63 | 923.64 | 0.00 | 0.00 | 0.00 | |
| 8,000.00 | 90.00 | 178.34 | 6,050.00 | -1,089.24 | -2,248.73 | 1,023.64 | 0.00 | 0.00 | 0.00 | |
| 8,100.00 | 90.00 | 178.34 | 6,050.00 | -1,189.20 | -2,245.84 | 1,123.64 | 0.00 | 0.00 | 0.00 | |
| 8,200.00 | 90.00 | 178.34 | 6,050.00 | -1,289.16 | -2,242.94 | 1,223.64 | 0.00 | 0.00 | 0.00 | |
| 8,300.00 | 90.00 | 178.34 | 6,050.00 | -1,389.12 | -2,240.04 | 1,323.64 | 0.00 | 0.00 | 0.00 | |
| 8,400.00 | 90.00 | 178.34 | 6,050.00 | -1,489.07 | -2,237.15 | 1,423.64 | 0.00 | 0.00 | 0.00 | |
| 8,500.00 | 90.00 | 178.34 | 6,050.00 | -1,589.03 | -2,234.25 | 1,523.64 | 0.00 | 0.00 | 0.00 | |
| 8,600.00 | 90.00 | 178.34 | 6,050.00 | -1,688.99 | -2,231.35 | 1,623.64 | 0.00 | 0.00 | 0.00 | |
| 8,700.00 | 90.00 | 178.34 | 6,050.00 | -1,788.95 | -2,228.46 | 1,723.64 | 0.00 | 0.00 | 0.00 | |
| 8,800.00 | 90.00 | 178.34 | 6,050.00 | -1,888.91 | -2,225.56 | 1,823.64 | 0.00 | 0.00 | 0.00 | |
| 8,900.00 | 90.00 | 178.34 | 6,050.00 | -1,988.86 | -2,222.66 | 1,923.64 | 0.00 | 0.00 | 0.00 | |
| 9,000.00 | 90.00 | 178.34 | 6,050.00 | -2,088.82 | -2,219.77 | 2,023.64 | 0.00 | 0.00 | 0.00 | |
| 9,100.00 | 90.00 | 178.34 | 6,050.00 | -2,188.78 | -2,216.87 | 2,123.64 | 0.00 | 0.00 | 0.00 | |
| 9,200.00 | 90.00 | 178.34 | 6,050.00 | -2,288.74 | -2,213.97 | 2,223.64 | 0.00 | 0.00 | 0.00 | |
| 9,300.00 | 90.00 | 178.34 | 6,050.00 | -2,388.70 | -2,211.07 | 2,323.64 | 0.00 | 0.00 | 0.00 | |
| 9,400.00 | 90.00 | 178.34 | 6,050.00 | -2,488.65 | -2,208.18 | 2,423.64 | 0.00 | 0.00 | 0.00 | |
| 9,500.00 | 90.00 | 178.34 | 6,050.00 | -2,588.61 | -2,205.28 | 2,523.64 | 0.00 | 0.00 | 0.00 | |
| 9,600.00 | 90.00 | 178.34 | 6,050.00 | -2,688.57 | -2,202.38 | 2,623.64 | 0.00 | 0.00 | 0.00 | |
| 9,700.00 | 90.00 | 178.34 | 6,050.00 | -2,788.53 | -2,199.49 | 2,723.64 | 0.00 | 0.00 | 0.00 | |
| 9,800.00 | 90.00 | 178.34 | 6,050.00 | -2,888.49 | -2,196.59 | 2,823.64 | 0.00 | 0.00 | 0.00 | |
| 9,900.00 | 90.00 | 178.34 | 6,050.00 | -2,988.44 | -2,193.69 | 2,923.64 | 0.00 | 0.00 | 0.00 | |
| 10,000.00 | 90.00 | 178.34 | 6,050.00 | -3,088.40 | -2,190.80 | 3,023.64 | 0.00 | 0.00 | 0.00 | |
| 10,100.00 | 90.00 | 178.34 | 6,050.00 | -3,188.36 | -2,187.90 | 3,123.64 | 0.00 | 0.00 | 0.00 | |
| 10,200.00 | 90.00 | 178.34 | 6,050.00 | -3,288.32 | -2,185.00 | 3,223.64 | 0.00 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 0112-02H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 4959.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 4959.00usft (RIG) |
| Site: | 9N-59W-01 TIMBRO 0101 PAD | North Reference: | True |
| Well: | TIMBRO 0112-02H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | 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) |
| 10,300.00 | 90.00 | 178.34 | 6,050.00 | -3,388.28 | -2,182.11 | 3,323.64 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 90.00 | 178.34 | 6,050.00 | -3,488.23 | -2,179.21 | 3,423.64 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 90.00 | 178.34 | 6,050.00 | -3,588.19 | -2,176.31 | 3,523.64 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 90.00 | 178.34 | 6,050.00 | -3,688.15 | -2,173.42 | 3,623.64 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 90.00 | 178.34 | 6,050.00 | -3,788.11 | -2,170.52 | 3,723.64 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 90.00 | 178.34 | 6,050.00 | -3,888.07 | -2,167.62 | 3,823.64 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 90.00 | 178.34 | 6,050.00 | -3,988.02 | -2,164.73 | 3,923.64 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 90.00 | 178.34 | 6,050.00 | -4,087.98 | -2,161.83 | 4,023.64 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 90.00 | 178.34 | 6,050.00 | -4,187.94 | -2,158.93 | 4,123.64 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 90.00 | 178.34 | 6,050.00 | -4,287.90 | -2,156.04 | 4,223.64 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 90.00 | 178.34 | 6,050.00 | -4,387.86 | -2,153.14 | 4,323.64 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 90.00 | 178.34 | 6,050.00 | -4,487.81 | -2,150.24 | 4,423.64 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 90.00 | 178.34 | 6,050.00 | -4,587.77 | -2,147.35 | 4,523.64 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 90.00 | 178.34 | 6,050.00 | -4,687.73 | -2,144.45 | 4,623.64 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 90.00 | 178.34 | 6,050.00 | -4,787.69 | -2,141.55 | 4,723.64 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 90.00 | 178.34 | 6,050.00 | -4,887.65 | -2,138.66 | 4,823.64 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 90.00 | 178.34 | 6,050.00 | -4,987.61 | -2,135.76 | 4,923.64 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 90.00 | 178.34 | 6,050.00 | -5,087.56 | -2,132.86 | 5,023.64 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 90.00 | 178.34 | 6,050.00 | -5,187.52 | -2,129.97 | 5,123.64 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 90.00 | 178.34 | 6,050.00 | -5,287.48 | -2,127.07 | 5,223.64 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 90.00 | 178.34 | 6,050.00 | -5,387.44 | -2,124.17 | 5,323.64 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 90.00 | 178.34 | 6,050.00 | -5,487.40 | -2,121.28 | 5,423.64 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 90.00 | 178.34 | 6,050.00 | -5,587.35 | -2,118.38 | 5,523.64 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 90.00 | 178.34 | 6,050.00 | -5,687.31 | -2,115.48 | 5,623.64 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.00 | 178.34 | 6,050.00 | -5,787.27 | -2,112.59 | 5,723.64 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.00 | 178.34 | 6,050.00 | -5,887.23 | -2,109.69 | 5,823.64 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.00 | 178.34 | 6,050.00 | -5,987.19 | -2,106.79 | 5,923.64 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.00 | 178.34 | 6,050.00 | -6,087.14 | -2,103.90 | 6,023.64 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.00 | 178.34 | 6,050.00 | -6,187.10 | -2,101.00 | 6,123.64 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.00 | 178.34 | 6,050.00 | -6,287.06 | -2,098.10 | 6,223.64 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 90.00 | 178.34 | 6,050.00 | -6,387.02 | -2,095.20 | 6,323.64 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 90.00 | 178.34 | 6,050.00 | -6,486.98 | -2,092.31 | 6,423.64 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 90.00 | 178.34 | 6,050.00 | -6,586.93 | -2,089.41 | 6,523.64 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 90.00 | 178.34 | 6,050.00 | -6,686.89 | -2,086.51 | 6,623.64 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 90.00 | 178.34 | 6,050.00 | -6,786.85 | -2,083.62 | 6,723.64 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 90.00 | 178.34 | 6,050.00 | -6,886.81 | -2,080.72 | 6,823.64 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 90.00 | 178.34 | 6,050.00 | -6,986.77 | -2,077.82 | 6,923.64 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 90.00 | 178.34 | 6,050.00 | -7,086.72 | -2,074.93 | 7,023.64 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 90.00 | 178.34 | 6,050.00 | -7,186.68 | -2,072.03 | 7,123.64 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 90.00 | 178.34 | 6,050.00 | -7,286.64 | -2,069.13 | 7,223.64 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 90.00 | 178.34 | 6,050.00 | -7,386.60 | -2,066.24 | 7,323.64 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 90.00 | 178.34 | 6,050.00 | -7,486.56 | -2,063.34 | 7,423.64 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 90.00 | 178.34 | 6,050.00 | -7,586.51 | -2,060.44 | 7,523.64 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 90.00 | 178.34 | 6,050.00 | -7,686.47 | -2,057.55 | 7,623.64 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 90.00 | 178.34 | 6,050.00 | -7,786.43 | -2,054.65 | 7,723.64 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 90.00 | 178.34 | 6,050.00 | -7,886.39 | -2,051.75 | 7,823.64 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 90.00 | 178.34 | 6,050.00 | -7,986.35 | -2,048.86 | 7,923.64 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 90.00 | 178.34 | 6,050.00 | -8,086.30 | -2,045.96 | 8,023.64 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 90.00 | 178.34 | 6,050.00 | -8,186.26 | -2,043.06 | 8,123.64 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 90.00 | 178.34 | 6,050.00 | -8,286.22 | -2,040.17 | 8,223.64 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 90.00 | 178.34 | 6,050.00 | -8,386.18 | -2,037.27 | 8,323.64 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 90.00 | 178.34 | 6,050.00 | -8,486.14 | -2,034.37 | 8,423.64 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 90.00 | 178.34 | 6,050.00 | -8,586.09 | -2,031.48 | 8,523.64 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 90.00 | 178.34 | 6,050.00 | -8,686.05 | -2,028.58 | 8,623.64 | 0.00 | 0.00 | 0.00 |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 0112-02H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 4959.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 4959.00usft (RIG) |
| Site: | 9N-59W-01 TIMBRO 0101 PAD | North Reference: | True |
| Well: | TIMBRO 0112-02H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | 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) | |
| 15,700.00 | 90.00 | 178.34 | 6,050.00 | -8,786.01 | -2,025.68 | 8,723.64 | 0.00 | 0.00 | 0.00 | |
| 15,800.00 | 90.00 | 178.34 | 6,050.00 | -8,885.97 | -2,022.79 | 8,823.64 | 0.00 | 0.00 | 0.00 | |
| 15,900.00 | 90.00 | 178.34 | 6,050.00 | -8,985.93 | -2,019.89 | 8,923.64 | 0.00 | 0.00 | 0.00 | |
| 16,000.00 | 90.00 | 178.34 | 6,050.00 | -9,085.88 | -2,016.99 | 9,023.64 | 0.00 | 0.00 | 0.00 | |
| 16,100.00 | 90.00 | 178.34 | 6,050.00 | -9,185.84 | -2,014.10 | 9,123.64 | 0.00 | 0.00 | 0.00 | |
| 16,200.00 | 90.00 | 178.34 | 6,050.00 | -9,285.80 | -2,011.20 | 9,223.64 | 0.00 | 0.00 | 0.00 | |
| 16,300.00 | 90.00 | 178.34 | 6,050.00 | -9,385.76 | -2,008.30 | 9,323.64 | 0.00 | 0.00 | 0.00 | |
| 16,400.00 | 90.00 | 178.34 | 6,050.00 | -9,485.72 | -2,005.41 | 9,423.64 | 0.00 | 0.00 | 0.00 | |
| 16,500.00 | 90.00 | 178.34 | 6,050.00 | -9,585.67 | -2,002.51 | 9,523.64 | 0.00 | 0.00 | 0.00 | |
| 16,600.00 | 90.00 | 178.34 | 6,050.00 | -9,685.63 | -1,999.61 | 9,623.64 | 0.00 | 0.00 | 0.00 | |
| 16,700.00 | 90.00 | 178.34 | 6,050.00 | -9,785.59 | -1,996.72 | 9,723.64 | 0.00 | 0.00 | 0.00 | |
| 16,800.00 | 90.00 | 178.34 | 6,050.00 | -9,885.55 | -1,993.82 | 9,823.64 | 0.00 | 0.00 | 0.00 | |
| 16,900.00 | 90.00 | 178.34 | 6,050.00 | -9,985.51 | -1,990.92 | 9,923.64 | 0.00 | 0.00 | 0.00 | |
| 16,929.61 | 90.00 | 178.34 | 6,050.00 | -10,015.10 | -1,990.06 | 9,953.25 | 0.00 | 0.00 | 0.00 | |
| BPZ @ 16929.61ft | | | | | | | | | | |
| 17,000.00 | 90.00 | 178.34 | 6,050.00 | -10,085.47 | -1,988.03 | 10,023.64 | 0.00 | 0.00 | 0.00 | |
| 17,019.63 | 90.00 | 178.34 | 6,050.00 | -10,105.09 | -1,987.46 | 10,043.27 | 0.00 | 0.00 | 0.00 | |
| TD Well @ 17019.63ft | | | | | | | | | | |

| Casing Points | | | | | |
|-----------------------|-----------------------|--------|--|---------------------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name | | Casing Diameter (") | Hole Diameter (") |
| 1,779.25 | 1,715.00 | 9 5/8" | | 9-5/8 | 13-1/2 |

| Plan Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|--------------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | | |
| | | +N/-S (usft) | +E/-W (usft) | Comment | |
| 1,697.00 | 1,640.10 | 124.71 | -327.39 | Tie-onto Sfc Svys & Hold @ 1697.00ft | |
| 1,797.00 | 1,731.16 | 138.25 | -366.44 | Begin Nudge to KOP @ 1797.00ft | |
| 1,858.75 | 1,787.24 | 146.17 | -391.02 | Hold Tangent @ 1858.75ft | |
| 5,836.88 | 5,390.89 | 627.84 | -2,005.72 | KOP @ 5836.88ft :: DLS = 9°/100' | |
| 6,921.66 | 6,050.00 | -11.36 | -2,279.97 | End Build/TPZ @ 6921.66ft | |
| 16,929.61 | 6,050.00 | -10,015.10 | -1,990.06 | BPZ @ 16929.61ft | |
| 17,019.63 | 6,050.00 | -10,105.09 | -1,987.46 | TD Well @ 17019.63ft | |