

VERDAD RESOURCES

WATTENBERG FIELD

9N-59W-17 TIMBRO 1717 PAD

TIMBRO 1717-14H

Wellbore #1

Plan: Design #1

Standard Planning Report

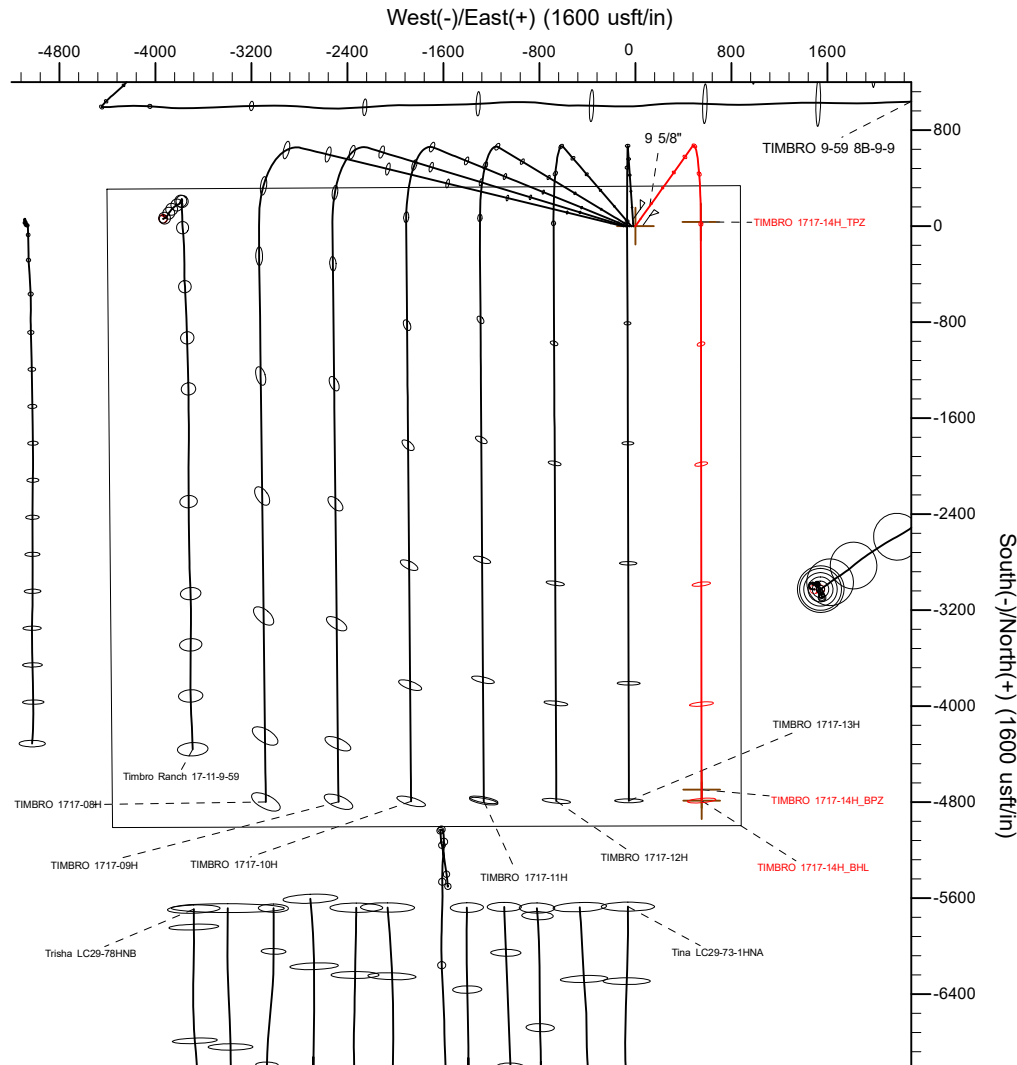
02 September, 2021

Project: WATTENBERG FIELD
 Site: 9N-59W-17 TIMBRO 1717 PAD
 Well: TIMBRO 1717-14H
 Wellbore: Wellbore #1
 Design: Design #1

VERDAD RESOURCES

CASING DETAILS

| TVD | MD | Name | Size |
|---------|---------|--------|-------|
| 1700.00 | 1715.37 | 9 5/8" | 9-5/8 |



SHL
334 FNL
876' FEL

TPZ
300' FNL
330' FEL

BPZ
300' FSL
330' FEL

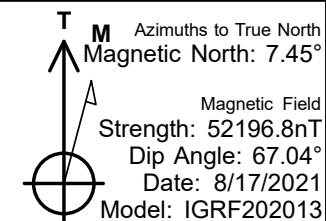
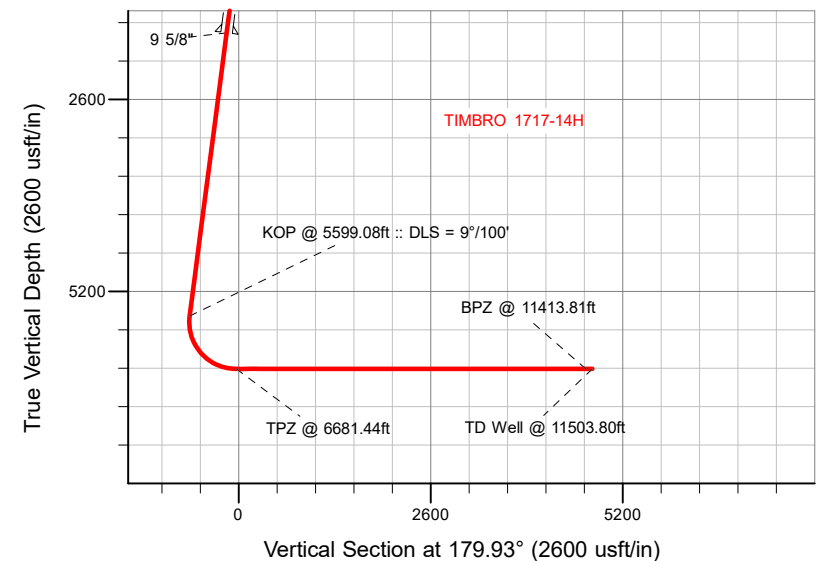
BHL
210' FSL
330' FEL

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Target |
|-----|----------|-------|--------|---------|----------|--------|------|--------|---------|---------------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 657.00 | 9.14 | 35.62 | 655.06 | 29.57 | 21.18 | 2.00 | 35.62 | -29.54 | |
| 4 | 5599.08 | 9.14 | 35.62 | 5534.40 | 667.72 | 478.39 | 0.00 | 0.00 | -667.14 | |
| 5 | 6681.44 | 90.00 | 179.93 | 6250.00 | 36.51 | 546.34 | 9.00 | 143.96 | -35.84 | |
| 6 | 11503.80 | 90.00 | 179.93 | 6250.00 | -4785.85 | 552.23 | 0.00 | 0.00 | 4786.52 | TIMBRO 1717-14H_BHL |

WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude |
|---------------------|---------|----------|--------|-----------|-------------|
| TIMBRO 1717-14H_SHL | 0.00 | 0.00 | 0.00 | 40.756876 | -103.995771 |
| TIMBRO 1717-14H_TPZ | 6250.00 | 36.51 | 546.34 | 40.756976 | -103.993799 |
| TIMBRO 1717-14H_BPZ | 6250.00 | -4695.86 | 552.09 | 40.743987 | -103.993778 |
| TIMBRO 1717-14H_BHL | 6250.00 | -4785.85 | 552.23 | 40.743740 | -103.993778 |



WELL DETAILS: TIMBRO 1717-14H

GL = 5011'

RKB = 20' @ 5031.00usft (RIG)

Plan: Design #1 (TIMBRO 1717-14H/Wellbore #1)

Date: 9/2/2021

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 1717-14H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 5031.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 5031.00usft (RIG) |
| Site: | 9N-59W-17 TIMBRO 1717 PAD | North Reference: | True |
| Well: | TIMBRO 1717-14H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| 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-17 TIMBRO 1717 PAD | | | |
| Site Position: | | Northing: | 1,522,135.25 usft | Latitude: | 40.756951 |
| From: | Lat/Long | Easting: | 3,416,606.55 usft | Longitude: | -103.996171 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16 " | | |

| Well | | TIMBRO 1717-14H | | | | |
|----------------------|-------|-----------------|---------------------|-------------------|---------------|---------------|
| Well Position | +N/-S | 0.00 usft | Northing: | 1,522,109.73 usft | Latitude: | 40.756876 |
| | +E/-W | 0.00 usft | Easting: | 3,416,718.01 usft | Longitude: | -103.995771 |
| Position Uncertainty | | 3.28 usft | Wellhead Elevation: | usft | Ground Level: | 5,011.00 usft |
| Grid Convergence: | | 0.97 ° | | | | |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF202013 | 8/17/2021 | 7.45 | 67.04 | 52,196.83539049 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| Design | Design #1 | | | | |
| Audit Notes: | | | | | |
| Version: | | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 179.93 | |

| | | | | | |
|---------------------------------|------------------------|--------------------------|-------------------------|-------------------------------|--|
| Plan Survey Tool Program | | Date | 9/2/2021 | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks | |
| 1 | 0.00 | 1,700.00 | Design #1 (Wellbore #1) | ISCWSA MWD | |
| | | | | Fixed:v2:standard declination | |
| 2 | 1,700.00 | 11,503.80 | Design #1 (Wellbore #1) | ISCWSA MWD | |
| | | | | Fixed:v2:standard declination | |

Planning Report

| | | | |
|-----------|----------------------------|------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 1717-14H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 5031.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 5031.00usft (RIG) |
| Site: | 9N-59W-17 TIMBRO 1717 PAD | North Reference: | True |
| Well: | TIMBRO 1717-14H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| 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 | |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 657.00 | 9.14 | 35.62 | 655.06 | 29.57 | 21.18 | 2.00 | 2.00 | 0.00 | 35.62 | |
| 5,599.08 | 9.14 | 35.62 | 5,534.40 | 667.72 | 478.39 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,681.44 | 90.00 | 179.93 | 6,250.00 | 36.51 | 546.34 | 9.00 | 7.47 | 13.33 | 143.96 | |
| 11,503.80 | 90.00 | 179.93 | 6,250.00 | -4,785.85 | 552.23 | 0.00 | 0.00 | 0.00 | 0.00 | TIMBRO 1717-14H_E |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 1717-14H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 5031.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 5031.00usft (RIG) |
| Site: | 9N-59W-17 TIMBRO 1717 PAD | North Reference: | True |
| Well: | TIMBRO 1717-14H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| 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 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Begin Nudge @ 200.00ft | | | | | | | | | |
| 300.00 | 2.00 | 35.62 | 299.98 | 1.42 | 1.02 | -1.42 | 2.00 | 2.00 | 0.00 |
| 400.00 | 4.00 | 35.62 | 399.84 | 5.67 | 4.06 | -5.67 | 2.00 | 2.00 | 0.00 |
| 500.00 | 6.00 | 35.62 | 499.45 | 12.76 | 9.14 | -12.75 | 2.00 | 2.00 | 0.00 |
| 600.00 | 8.00 | 35.62 | 598.70 | 22.66 | 16.24 | -22.64 | 2.00 | 2.00 | 0.00 |
| 657.00 | 9.14 | 35.62 | 655.06 | 29.57 | 21.18 | -29.54 | 2.00 | 2.00 | 0.00 |
| Hold Tangent @ 657.00ft | | | | | | | | | |
| 700.00 | 9.14 | 35.62 | 697.52 | 35.12 | 25.16 | -35.09 | 0.00 | 0.00 | 0.00 |
| 800.00 | 9.14 | 35.62 | 796.25 | 48.03 | 34.41 | -47.99 | 0.00 | 0.00 | 0.00 |
| 900.00 | 9.14 | 35.62 | 894.98 | 60.95 | 43.67 | -60.89 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 9.14 | 35.62 | 993.71 | 73.86 | 52.92 | -73.79 | 0.00 | 0.00 | 0.00 |
| 1,100.00 | 9.14 | 35.62 | 1,092.44 | 86.77 | 62.17 | -86.70 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 9.14 | 35.62 | 1,191.17 | 99.68 | 71.42 | -99.60 | 0.00 | 0.00 | 0.00 |
| 1,300.00 | 9.14 | 35.62 | 1,289.90 | 112.60 | 80.67 | -112.50 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 9.14 | 35.62 | 1,388.63 | 125.51 | 89.92 | -125.40 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 9.14 | 35.62 | 1,487.36 | 138.42 | 99.17 | -138.30 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 9.14 | 35.62 | 1,586.09 | 151.33 | 108.42 | -151.20 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 9.14 | 35.62 | 1,684.82 | 164.25 | 117.68 | -164.10 | 0.00 | 0.00 | 0.00 |
| 1,715.37 | 9.14 | 35.62 | 1,700.00 | 166.23 | 119.10 | -166.09 | 0.00 | 0.00 | 0.00 |
| 9 5/8" | | | | | | | | | |
| 1,800.00 | 9.14 | 35.62 | 1,783.55 | 177.16 | 126.93 | -177.00 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 9.14 | 35.62 | 1,882.28 | 190.07 | 136.18 | -189.91 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 9.14 | 35.62 | 1,981.01 | 202.99 | 145.43 | -202.81 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 9.14 | 35.62 | 2,079.74 | 215.90 | 154.68 | -215.71 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 9.14 | 35.62 | 2,178.47 | 228.81 | 163.93 | -228.61 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 9.14 | 35.62 | 2,277.20 | 241.72 | 173.18 | -241.51 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 9.14 | 35.62 | 2,375.93 | 254.64 | 182.44 | -254.41 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 9.14 | 35.62 | 2,474.66 | 267.55 | 191.69 | -267.31 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 9.14 | 35.62 | 2,573.39 | 280.46 | 200.94 | -280.22 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 9.14 | 35.62 | 2,672.12 | 293.37 | 210.19 | -293.12 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 9.14 | 35.62 | 2,770.85 | 306.29 | 219.44 | -306.02 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 9.14 | 35.62 | 2,869.59 | 319.20 | 228.69 | -318.92 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 9.14 | 35.62 | 2,968.32 | 332.11 | 237.94 | -331.82 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 9.14 | 35.62 | 3,067.05 | 345.02 | 247.20 | -344.72 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 9.14 | 35.62 | 3,165.78 | 357.94 | 256.45 | -357.62 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 9.14 | 35.62 | 3,264.51 | 370.85 | 265.70 | -370.52 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 9.14 | 35.62 | 3,363.24 | 383.76 | 274.95 | -383.43 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 9.14 | 35.62 | 3,461.97 | 396.68 | 284.20 | -396.33 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 9.14 | 35.62 | 3,560.70 | 409.59 | 293.45 | -409.23 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 9.14 | 35.62 | 3,659.43 | 422.50 | 302.70 | -422.13 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 9.14 | 35.62 | 3,758.16 | 435.41 | 311.96 | -435.03 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 9.14 | 35.62 | 3,856.89 | 448.33 | 321.21 | -447.93 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 9.14 | 35.62 | 3,955.62 | 461.24 | 330.46 | -460.83 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 9.14 | 35.62 | 4,054.35 | 474.15 | 339.71 | -473.74 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 9.14 | 35.62 | 4,153.08 | 487.06 | 348.96 | -486.64 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 9.14 | 35.62 | 4,251.81 | 499.98 | 358.21 | -499.54 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 9.14 | 35.62 | 4,350.54 | 512.89 | 367.46 | -512.44 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 9.14 | 35.62 | 4,449.27 | 525.80 | 376.71 | -525.34 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 9.14 | 35.62 | 4,548.00 | 538.71 | 385.97 | -538.24 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 9.14 | 35.62 | 4,646.73 | 551.63 | 395.22 | -551.14 | 0.00 | 0.00 | 0.00 |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 1717-14H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 5031.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 5031.00usft (RIG) |
| Site: | 9N-59W-17 TIMBRO 1717 PAD | North Reference: | True |
| Well: | TIMBRO 1717-14H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| 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) |
| 4,800.00 | 9.14 | 35.62 | 4,745.46 | 564.54 | 404.47 | -564.05 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 9.14 | 35.62 | 4,844.19 | 577.45 | 413.72 | -576.95 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 9.14 | 35.62 | 4,942.92 | 590.37 | 422.97 | -589.85 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 9.14 | 35.62 | 5,041.65 | 603.28 | 432.22 | -602.75 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 9.14 | 35.62 | 5,140.38 | 616.19 | 441.47 | -615.65 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 9.14 | 35.62 | 5,239.11 | 629.10 | 450.73 | -628.55 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 9.14 | 35.62 | 5,337.84 | 642.02 | 459.98 | -641.45 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 9.14 | 35.62 | 5,436.57 | 654.93 | 469.23 | -654.35 | 0.00 | 0.00 | 0.00 |
| 5,599.08 | 9.14 | 35.62 | 5,534.40 | 667.72 | 478.39 | -667.14 | 0.00 | 0.00 | 0.00 |
| KOP @ 5599.08ft :: DLS = 9°/100' | | | | | | | | | |
| 5,650.00 | 6.06 | 62.05 | 5,584.88 | 672.27 | 483.13 | -671.68 | 9.00 | -6.05 | 51.91 |
| 5,700.00 | 5.62 | 107.26 | 5,634.64 | 672.78 | 487.80 | -672.19 | 9.00 | -0.89 | 90.41 |
| 5,750.00 | 8.17 | 139.09 | 5,684.29 | 669.37 | 492.46 | -668.77 | 9.00 | 5.10 | 63.66 |
| 5,800.00 | 11.93 | 153.55 | 5,733.53 | 662.06 | 497.09 | -661.45 | 9.00 | 7.52 | 28.92 |
| 5,850.00 | 16.07 | 160.91 | 5,782.03 | 650.89 | 501.66 | -650.27 | 9.00 | 8.28 | 14.73 |
| 5,900.00 | 20.36 | 165.28 | 5,829.52 | 635.93 | 506.14 | -635.31 | 9.00 | 8.58 | 8.73 |
| 5,950.00 | 24.72 | 168.17 | 5,875.69 | 617.27 | 510.49 | -616.65 | 9.00 | 8.73 | 5.78 |
| 6,000.00 | 29.13 | 170.23 | 5,920.26 | 595.03 | 514.70 | -594.41 | 9.00 | 8.80 | 4.13 |
| 6,050.00 | 33.55 | 171.79 | 5,962.96 | 569.35 | 518.74 | -568.72 | 9.00 | 8.85 | 3.12 |
| 6,100.00 | 37.99 | 173.03 | 6,003.51 | 540.39 | 522.58 | -539.75 | 9.00 | 8.88 | 2.47 |
| 6,150.00 | 42.45 | 174.04 | 6,041.68 | 508.31 | 526.21 | -507.67 | 9.00 | 8.90 | 2.02 |
| 6,200.00 | 46.91 | 174.89 | 6,077.23 | 473.33 | 529.58 | -472.68 | 9.00 | 8.92 | 1.70 |
| 6,250.00 | 51.37 | 175.63 | 6,109.93 | 435.66 | 532.70 | -435.00 | 9.00 | 8.93 | 1.47 |
| 6,300.00 | 55.84 | 176.28 | 6,139.59 | 395.52 | 535.53 | -394.86 | 9.00 | 8.94 | 1.30 |
| 6,350.00 | 60.31 | 176.86 | 6,166.02 | 353.17 | 538.07 | -352.51 | 9.00 | 8.95 | 1.17 |
| 6,400.00 | 64.79 | 177.40 | 6,189.07 | 308.86 | 540.28 | -308.20 | 9.00 | 8.95 | 1.07 |
| 6,450.00 | 69.27 | 177.89 | 6,208.58 | 262.88 | 542.17 | -262.22 | 9.00 | 8.95 | 0.99 |
| 6,500.00 | 73.74 | 178.36 | 6,224.43 | 215.50 | 543.72 | -214.83 | 9.00 | 8.96 | 0.94 |
| 6,550.00 | 78.22 | 178.81 | 6,236.54 | 167.01 | 544.91 | -166.35 | 9.00 | 8.96 | 0.89 |
| 6,600.00 | 82.70 | 179.24 | 6,244.82 | 117.72 | 545.75 | -117.06 | 9.00 | 8.96 | 0.87 |
| 6,650.00 | 87.18 | 179.67 | 6,249.23 | 67.93 | 546.22 | -67.27 | 9.00 | 8.96 | 0.85 |
| 6,681.44 | 90.00 | 179.93 | 6,250.00 | 36.51 | 546.34 | -35.84 | 9.00 | 8.96 | 0.84 |
| TPZ @ 6681.44ft | | | | | | | | | |
| 6,700.00 | 90.00 | 179.93 | 6,250.00 | 17.95 | 546.36 | -17.28 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 90.00 | 179.93 | 6,250.00 | -82.05 | 546.48 | 82.72 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 90.00 | 179.93 | 6,250.00 | -182.05 | 546.60 | 182.72 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 90.00 | 179.93 | 6,250.00 | -282.05 | 546.72 | 282.72 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 90.00 | 179.93 | 6,250.00 | -382.05 | 546.85 | 382.72 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 90.00 | 179.93 | 6,250.00 | -482.05 | 546.97 | 482.72 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 90.00 | 179.93 | 6,250.00 | -582.05 | 547.09 | 582.72 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 90.00 | 179.93 | 6,250.00 | -682.05 | 547.21 | 682.72 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 90.00 | 179.93 | 6,250.00 | -782.05 | 547.34 | 782.72 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 90.00 | 179.93 | 6,250.00 | -882.05 | 547.46 | 882.72 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 90.00 | 179.93 | 6,250.00 | -982.05 | 547.58 | 982.72 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 90.00 | 179.93 | 6,250.00 | -1,082.05 | 547.70 | 1,082.72 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 90.00 | 179.93 | 6,250.00 | -1,182.05 | 547.82 | 1,182.72 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 90.00 | 179.93 | 6,250.00 | -1,282.05 | 547.95 | 1,282.72 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 90.00 | 179.93 | 6,250.00 | -1,382.05 | 548.07 | 1,382.72 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 90.00 | 179.93 | 6,250.00 | -1,482.05 | 548.19 | 1,482.72 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 90.00 | 179.93 | 6,250.00 | -1,582.05 | 548.31 | 1,582.72 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 90.00 | 179.93 | 6,250.00 | -1,682.05 | 548.44 | 1,682.72 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 90.00 | 179.93 | 6,250.00 | -1,782.05 | 548.56 | 1,782.72 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 90.00 | 179.93 | 6,250.00 | -1,882.05 | 548.68 | 1,882.72 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 90.00 | 179.93 | 6,250.00 | -1,982.05 | 548.80 | 1,982.72 | 0.00 | 0.00 | 0.00 |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 1717-14H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 5031.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 5031.00usft (RIG) |
| Site: | 9N-59W-17 TIMBRO 1717 PAD | North Reference: | True |
| Well: | TIMBRO 1717-14H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| 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) | |
| 8,800.00 | 90.00 | 179.93 | 6,250.00 | -2,082.05 | 548.92 | 2,082.72 | 0.00 | 0.00 | 0.00 | |
| 8,900.00 | 90.00 | 179.93 | 6,250.00 | -2,182.05 | 549.05 | 2,182.72 | 0.00 | 0.00 | 0.00 | |
| 9,000.00 | 90.00 | 179.93 | 6,250.00 | -2,282.05 | 549.17 | 2,282.72 | 0.00 | 0.00 | 0.00 | |
| 9,100.00 | 90.00 | 179.93 | 6,250.00 | -2,382.05 | 549.29 | 2,382.72 | 0.00 | 0.00 | 0.00 | |
| 9,200.00 | 90.00 | 179.93 | 6,250.00 | -2,482.05 | 549.41 | 2,482.72 | 0.00 | 0.00 | 0.00 | |
| 9,300.00 | 90.00 | 179.93 | 6,250.00 | -2,582.05 | 549.54 | 2,582.72 | 0.00 | 0.00 | 0.00 | |
| 9,400.00 | 90.00 | 179.93 | 6,250.00 | -2,682.05 | 549.66 | 2,682.72 | 0.00 | 0.00 | 0.00 | |
| 9,500.00 | 90.00 | 179.93 | 6,250.00 | -2,782.05 | 549.78 | 2,782.72 | 0.00 | 0.00 | 0.00 | |
| 9,600.00 | 90.00 | 179.93 | 6,250.00 | -2,882.05 | 549.90 | 2,882.72 | 0.00 | 0.00 | 0.00 | |
| 9,700.00 | 90.00 | 179.93 | 6,250.00 | -2,982.05 | 550.02 | 2,982.72 | 0.00 | 0.00 | 0.00 | |
| 9,800.00 | 90.00 | 179.93 | 6,250.00 | -3,082.05 | 550.15 | 3,082.72 | 0.00 | 0.00 | 0.00 | |
| 9,900.00 | 90.00 | 179.93 | 6,250.00 | -3,182.05 | 550.27 | 3,182.72 | 0.00 | 0.00 | 0.00 | |
| 10,000.00 | 90.00 | 179.93 | 6,250.00 | -3,282.05 | 550.39 | 3,282.72 | 0.00 | 0.00 | 0.00 | |
| 10,100.00 | 90.00 | 179.93 | 6,250.00 | -3,382.05 | 550.51 | 3,382.72 | 0.00 | 0.00 | 0.00 | |
| 10,200.00 | 90.00 | 179.93 | 6,250.00 | -3,482.05 | 550.64 | 3,482.72 | 0.00 | 0.00 | 0.00 | |
| 10,300.00 | 90.00 | 179.93 | 6,250.00 | -3,582.05 | 550.76 | 3,582.72 | 0.00 | 0.00 | 0.00 | |
| 10,400.00 | 90.00 | 179.93 | 6,250.00 | -3,682.05 | 550.88 | 3,682.72 | 0.00 | 0.00 | 0.00 | |
| 10,500.00 | 90.00 | 179.93 | 6,250.00 | -3,782.05 | 551.00 | 3,782.72 | 0.00 | 0.00 | 0.00 | |
| 10,600.00 | 90.00 | 179.93 | 6,250.00 | -3,882.05 | 551.12 | 3,882.72 | 0.00 | 0.00 | 0.00 | |
| 10,700.00 | 90.00 | 179.93 | 6,250.00 | -3,982.05 | 551.25 | 3,982.72 | 0.00 | 0.00 | 0.00 | |
| 10,800.00 | 90.00 | 179.93 | 6,250.00 | -4,082.05 | 551.37 | 4,082.72 | 0.00 | 0.00 | 0.00 | |
| 10,900.00 | 90.00 | 179.93 | 6,250.00 | -4,182.05 | 551.49 | 4,182.72 | 0.00 | 0.00 | 0.00 | |
| 11,000.00 | 90.00 | 179.93 | 6,250.00 | -4,282.05 | 551.61 | 4,282.72 | 0.00 | 0.00 | 0.00 | |
| 11,100.00 | 90.00 | 179.93 | 6,250.00 | -4,382.05 | 551.74 | 4,382.72 | 0.00 | 0.00 | 0.00 | |
| 11,200.00 | 90.00 | 179.93 | 6,250.00 | -4,482.05 | 551.86 | 4,482.72 | 0.00 | 0.00 | 0.00 | |
| 11,300.00 | 90.00 | 179.93 | 6,250.00 | -4,582.05 | 551.98 | 4,582.72 | 0.00 | 0.00 | 0.00 | |
| 11,400.00 | 90.00 | 179.93 | 6,250.00 | -4,682.05 | 552.10 | 4,682.72 | 0.00 | 0.00 | 0.00 | |
| 11,413.81 | 90.00 | 179.93 | 6,250.00 | -4,695.86 | 552.12 | 4,696.53 | 0.00 | 0.00 | 0.00 | |
| BPZ @ 11413.81ft | | | | | | | | | | |
| 11,503.80 | 90.00 | 179.93 | 6,250.00 | -4,785.85 | 552.23 | 4,786.52 | 0.00 | 0.00 | 0.00 | |
| TD Well @ 11503.80ft | | | | | | | | | | |

| Casing Points | | | | | |
|-----------------------|-----------------------|--------|--|---------------------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name | | Casing Diameter (") | Hole Diameter (") |
| 1,715.37 | 1,700.00 | 9 5/8" | | 9-5/8 | 13-1/2 |

| Plan Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment | |
| 200.00 | 200.00 | +N/-S (usft) | +E/-W (usft) | Begin Nudge @ 200.00ft | |
| 657.00 | 655.06 | 29.57 | 21.18 | Hold Tangent @ 657.00ft | |
| 5,599.08 | 5,534.40 | 667.72 | 478.39 | KOP @ 5599.08ft :: DLS = 9°/100' | |
| 6,681.44 | 6,250.00 | 36.51 | 546.34 | TPZ @ 6681.44ft | |
| 11,413.81 | 6,250.00 | -4,695.86 | 552.12 | BPZ @ 11413.81ft | |
| 11,503.80 | 6,250.00 | -4,785.85 | 552.23 | TD Well @ 11503.80ft | |