

VERDAD RESOURCES

WATTENBERG FIELD

9N-59W-17 TIMBRO 1717 PAD

TIMBRO 1717-11H

Plan B

Plan: Design #1

Standard Planning Report

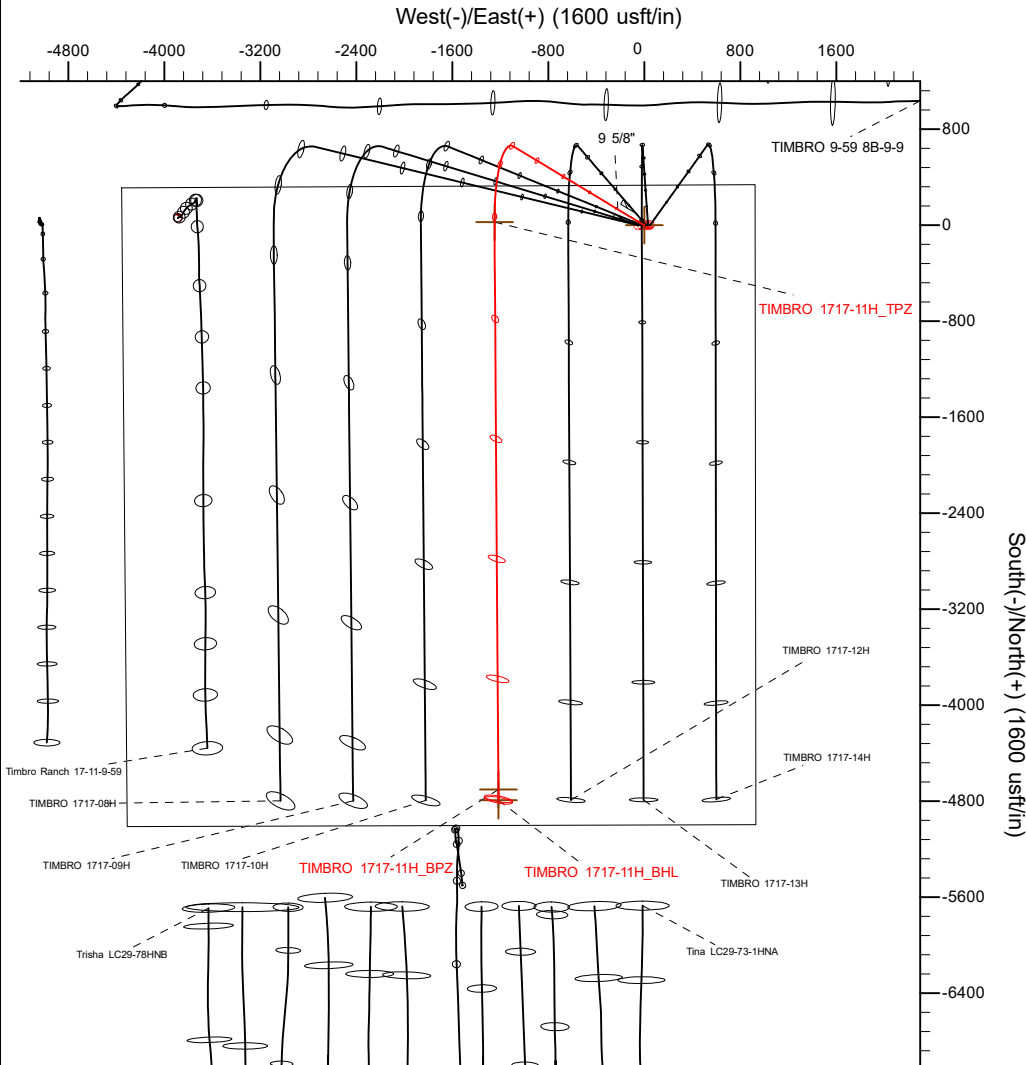
02 September, 2021

Project: WATTENBERG FIELD
 Site: 9N-59W-17 TIMBRO 1717 PAD
 Well: TIMBRO 1717-11H
 Wellbore: Plan B
 Design: Design #1

VERDAD RESOURCES

CASING DETAILS

| TVD | MD | Name | Size |
|---------|---------|--------|-------|
| 1700.00 | 1729.37 | 9 5/8" | 9-5/8 |



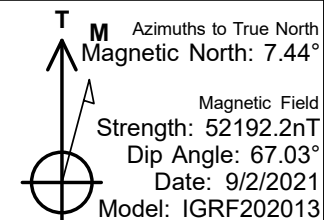
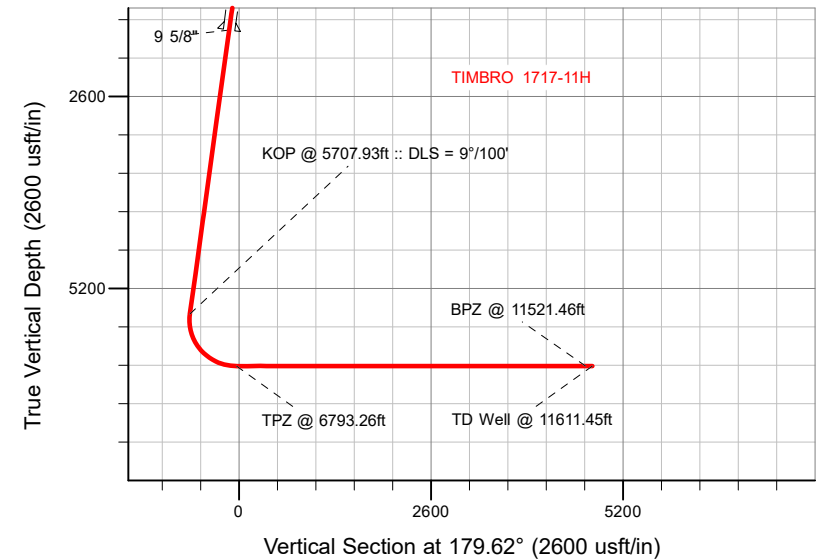
SHL 334 FNL 924' FEL
 TPZ 300' FNL 2172' FEL
 BPZ 300' FSL 2146' FEL
 BHL 210' FSL 2145' FEL

SECTION DETAILS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Target |
|----------|-------|--------|---------|----------|----------|------|---------|---------|---------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 354.00 | 0.00 | 0.00 | 354.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1095.50 | 14.83 | 301.09 | 1087.25 | 49.28 | -81.72 | 2.00 | 301.09 | -49.82 | |
| 5707.93 | 14.83 | 301.09 | 5546.04 | 658.90 | -1092.70 | 0.00 | 0.00 | -666.13 | |
| 6793.26 | 90.00 | 179.62 | 6250.00 | 26.94 | -1247.44 | 9.00 | -120.62 | -35.21 | |
| 11611.45 | 90.00 | 179.62 | 6250.00 | -4791.14 | -1215.16 | 0.00 | 0.00 | 4782.98 | TIMBRO 1717-11H_BHL |

WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude |
|---------------------|---------|----------|----------|-----------|-------------|
| TIMBRO 1717-11H_SHL | 0.00 | 0.00 | 0.00 | 40.756875 | -103.995944 |
| TIMBRO 1717-11H_TPZ | 6250.00 | 26.94 | -1247.44 | 40.756949 | -104.000447 |
| TIMBRO 1717-11H_BPZ | 6250.00 | -4701.15 | -1215.76 | 40.743972 | -104.000331 |
| TIMBRO 1717-11H_BHL | 6250.00 | -4791.14 | -1215.16 | 40.743725 | -104.000329 |



WELL DETAILS: TIMBRO 1717-11H

GL = 5010'

RKB = 20' @ 5030.00usft (RIG)

Plan: Design #1 (TIMBRO 1717-11H/Plan B)

Date: 9/02/2021

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 1717-11H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 5030.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 5030.00usft (RIG) |
| Site: | 9N-59W-17 TIMBRO 1717 PAD | North Reference: | True |
| Well: | TIMBRO 1717-11H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan B | | |
| 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 1717-11H | | | | |
|----------------------|-------|-----------------|---------------------|-------------------|---------------|---------------|
| Well Position | +N/-S | 0.00 usft | Northing: | 1,522,108.66 usft | Latitude: | 40.756875 |
| | +E/-W | 0.00 usft | Easting: | 3,416,670.03 usft | Longitude: | -103.995944 |
| Position Uncertainty | | 3.28 usft | Wellhead Elevation: | usft | Ground Level: | 5,010.00 usft |
| Grid Convergence: | | 0.97 ° | | | | |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Plan B | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF202013 | 9/2/2021 | 7.44 | 67.03 | 52,192.18686097 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| 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 | 179.62 | |

| | | | | | |
|---------------------------------|------------------------|--------------------------|--------------------|-------------------------------|--|
| 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 (Plan B) | ISCWSA MWD | |
| | | | | Fixed:v2:standard declination | |
| 2 | 1,700.00 | 11,611.45 | 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 1717-11H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 5030.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 5030.00usft (RIG) |
| Site: | 9N-59W-17 TIMBRO 1717 PAD | North Reference: | True |
| Well: | TIMBRO 1717-11H | 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 | |
| 354.00 | 0.00 | 0.00 | 354.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,095.50 | 14.83 | 301.09 | 1,087.25 | 49.28 | -81.72 | 2.00 | 2.00 | 0.00 | 301.09 | |
| 5,707.93 | 14.83 | 301.09 | 5,546.04 | 658.90 | -1,092.70 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,793.26 | 90.00 | 179.62 | 6,250.00 | 26.94 | -1,247.44 | 9.00 | 6.93 | -11.19 | -120.62 | |
| 11,611.45 | 90.00 | 179.62 | 6,250.00 | -4,791.14 | -1,215.16 | 0.00 | 0.00 | 0.00 | 0.00 | TIMBRO 1717-11H_B |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 1717-11H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 5030.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 5030.00usft (RIG) |
| Site: | 9N-59W-17 TIMBRO 1717 PAD | North Reference: | True |
| Well: | TIMBRO 1717-11H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan B | | |
| 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 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 354.00 | 0.00 | 0.00 | 354.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Begin Nudge @ 354.00ft | | | | | | | | | |
| 400.00 | 0.92 | 301.09 | 400.00 | 0.19 | -0.32 | -0.19 | 2.00 | 2.00 | 0.00 |
| 500.00 | 2.92 | 301.09 | 499.94 | 1.92 | -3.19 | -1.94 | 2.00 | 2.00 | 0.00 |
| 600.00 | 4.92 | 301.09 | 599.70 | 5.45 | -9.04 | -5.51 | 2.00 | 2.00 | 0.00 |
| 700.00 | 6.92 | 301.09 | 699.16 | 10.78 | -17.87 | -10.89 | 2.00 | 2.00 | 0.00 |
| 800.00 | 8.92 | 301.09 | 798.20 | 17.89 | -29.67 | -18.09 | 2.00 | 2.00 | 0.00 |
| 900.00 | 10.92 | 301.09 | 896.70 | 26.79 | -44.42 | -27.08 | 2.00 | 2.00 | 0.00 |
| 1,000.00 | 12.92 | 301.09 | 994.54 | 37.45 | -62.11 | -37.86 | 2.00 | 2.00 | 0.00 |
| 1,095.50 | 14.83 | 301.09 | 1,087.25 | 49.28 | -81.72 | -49.82 | 2.00 | 2.00 | 0.00 |
| Hold Tangent @ 1095.50ft | | | | | | | | | |
| 1,100.00 | 14.83 | 301.09 | 1,091.60 | 49.87 | -82.71 | -50.42 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 14.83 | 301.09 | 1,188.27 | 63.09 | -104.63 | -63.78 | 0.00 | 0.00 | 0.00 |
| 1,300.00 | 14.83 | 301.09 | 1,284.94 | 76.31 | -126.54 | -77.14 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 14.83 | 301.09 | 1,381.61 | 89.52 | -148.46 | -90.51 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 14.83 | 301.09 | 1,478.27 | 102.74 | -170.38 | -103.87 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 14.83 | 301.09 | 1,574.94 | 115.96 | -192.30 | -117.23 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 14.83 | 301.09 | 1,671.61 | 129.17 | -214.22 | -130.59 | 0.00 | 0.00 | 0.00 |
| 1,729.37 | 14.83 | 301.09 | 1,700.00 | 133.05 | -220.65 | -134.52 | 0.00 | 0.00 | 0.00 |
| 9 5/8" | | | | | | | | | |
| 1,800.00 | 14.83 | 301.09 | 1,768.28 | 142.39 | -236.14 | -143.95 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 14.83 | 301.09 | 1,864.95 | 155.61 | -258.06 | -157.32 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 14.83 | 301.09 | 1,961.62 | 168.82 | -279.97 | -170.68 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 14.83 | 301.09 | 2,058.29 | 182.04 | -301.89 | -184.04 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 14.83 | 301.09 | 2,154.96 | 195.26 | -323.81 | -197.40 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 14.83 | 301.09 | 2,251.63 | 208.48 | -345.73 | -210.76 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 14.83 | 301.09 | 2,348.29 | 221.69 | -367.65 | -224.13 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 14.83 | 301.09 | 2,444.96 | 234.91 | -389.57 | -237.49 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 14.83 | 301.09 | 2,541.63 | 248.13 | -411.49 | -250.85 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 14.83 | 301.09 | 2,638.30 | 261.34 | -433.40 | -264.21 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 14.83 | 301.09 | 2,734.97 | 274.56 | -455.32 | -277.57 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 14.83 | 301.09 | 2,831.64 | 287.78 | -477.24 | -290.94 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 14.83 | 301.09 | 2,928.31 | 300.99 | -499.16 | -304.30 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 14.83 | 301.09 | 3,024.98 | 314.21 | -521.08 | -317.66 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 14.83 | 301.09 | 3,121.65 | 327.43 | -543.00 | -331.02 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 14.83 | 301.09 | 3,218.32 | 340.64 | -564.92 | -344.38 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 14.83 | 301.09 | 3,314.98 | 353.86 | -586.83 | -357.75 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 14.83 | 301.09 | 3,411.65 | 367.08 | -608.75 | -371.11 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 14.83 | 301.09 | 3,508.32 | 380.30 | -630.67 | -384.47 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 14.83 | 301.09 | 3,604.99 | 393.51 | -652.59 | -397.83 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 14.83 | 301.09 | 3,701.66 | 406.73 | -674.51 | -411.19 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 14.83 | 301.09 | 3,798.33 | 419.95 | -696.43 | -424.56 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 14.83 | 301.09 | 3,895.00 | 433.16 | -718.35 | -437.92 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 14.83 | 301.09 | 3,991.67 | 446.38 | -740.27 | -451.28 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 14.83 | 301.09 | 4,088.34 | 459.60 | -762.18 | -464.64 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 14.83 | 301.09 | 4,185.01 | 472.81 | -784.10 | -478.00 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 14.83 | 301.09 | 4,281.67 | 486.03 | -806.02 | -491.37 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 14.83 | 301.09 | 4,378.34 | 499.25 | -827.94 | -504.73 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 14.83 | 301.09 | 4,475.01 | 512.47 | -849.86 | -518.09 | 0.00 | 0.00 | 0.00 |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 1717-11H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 5030.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 5030.00usft (RIG) |
| Site: | 9N-59W-17 TIMBRO 1717 PAD | North Reference: | True |
| Well: | TIMBRO 1717-11H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan B | | |
| 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) |
| 4,700.00 | 14.83 | 301.09 | 4,571.68 | 525.68 | -871.78 | -531.45 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 14.83 | 301.09 | 4,668.35 | 538.90 | -893.70 | -544.81 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 14.83 | 301.09 | 4,765.02 | 552.12 | -915.61 | -558.18 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 14.83 | 301.09 | 4,861.69 | 565.33 | -937.53 | -571.54 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 14.83 | 301.09 | 4,958.36 | 578.55 | -959.45 | -584.90 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 14.83 | 301.09 | 5,055.03 | 591.77 | -981.37 | -598.26 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 14.83 | 301.09 | 5,151.69 | 604.98 | -1,003.29 | -611.62 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 14.83 | 301.09 | 5,248.36 | 618.20 | -1,025.21 | -624.99 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 14.83 | 301.09 | 5,345.03 | 631.42 | -1,047.13 | -638.35 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 14.83 | 301.09 | 5,441.70 | 644.63 | -1,069.04 | -651.71 | 0.00 | 0.00 | 0.00 |
| 5,707.93 | 14.83 | 301.09 | 5,546.04 | 658.90 | -1,092.70 | -666.13 | 0.00 | 0.00 | 0.00 |
| KOP @ 5707.93ft :: DLS = 9°/100' | | | | | | | | | |
| 5,750.00 | 13.30 | 286.79 | 5,586.86 | 663.08 | -1,101.95 | -670.37 | 9.00 | -3.64 | -34.00 |
| 5,800.00 | 12.74 | 266.86 | 5,635.60 | 664.44 | -1,112.96 | -671.81 | 9.00 | -1.12 | -39.84 |
| 5,850.00 | 13.70 | 247.53 | 5,684.29 | 661.87 | -1,123.94 | -669.31 | 9.00 | 1.91 | -38.66 |
| 5,900.00 | 15.90 | 232.08 | 5,732.65 | 655.40 | -1,134.82 | -662.91 | 9.00 | 4.40 | -30.91 |
| 5,950.00 | 18.91 | 220.85 | 5,780.37 | 645.06 | -1,145.53 | -652.64 | 9.00 | 6.03 | -22.45 |
| 6,000.00 | 22.41 | 212.81 | 5,827.16 | 630.91 | -1,156.00 | -638.56 | 9.00 | 7.01 | -16.08 |
| 6,050.00 | 26.21 | 206.92 | 5,872.72 | 613.04 | -1,166.17 | -620.77 | 9.00 | 7.59 | -11.78 |
| 6,100.00 | 30.19 | 202.46 | 5,916.78 | 591.57 | -1,175.97 | -599.36 | 9.00 | 7.96 | -8.93 |
| 6,150.00 | 34.28 | 198.96 | 5,959.07 | 566.62 | -1,185.36 | -574.47 | 9.00 | 8.19 | -7.00 |
| 6,200.00 | 38.46 | 196.13 | 5,999.32 | 538.35 | -1,194.26 | -546.26 | 9.00 | 8.35 | -5.65 |
| 6,250.00 | 42.69 | 193.78 | 6,037.29 | 506.94 | -1,202.62 | -514.90 | 9.00 | 8.47 | -4.70 |
| 6,300.00 | 46.97 | 191.79 | 6,072.75 | 472.56 | -1,210.40 | -480.58 | 9.00 | 8.55 | -4.00 |
| 6,350.00 | 51.27 | 190.05 | 6,105.46 | 435.45 | -1,217.54 | -443.52 | 9.00 | 8.61 | -3.47 |
| 6,400.00 | 55.60 | 188.51 | 6,135.24 | 395.83 | -1,224.00 | -403.94 | 9.00 | 8.65 | -3.08 |
| 6,450.00 | 59.94 | 187.12 | 6,161.90 | 353.93 | -1,229.74 | -362.08 | 9.00 | 8.69 | -2.77 |
| 6,500.00 | 64.30 | 185.85 | 6,185.28 | 310.03 | -1,234.72 | -318.21 | 9.00 | 8.72 | -2.54 |
| 6,550.00 | 68.67 | 184.67 | 6,205.22 | 264.38 | -1,238.92 | -272.60 | 9.00 | 8.74 | -2.36 |
| 6,600.00 | 73.05 | 183.56 | 6,221.61 | 217.28 | -1,242.30 | -225.52 | 9.00 | 8.75 | -2.22 |
| 6,650.00 | 77.43 | 182.50 | 6,234.35 | 169.01 | -1,244.86 | -177.27 | 9.00 | 8.76 | -2.12 |
| 6,700.00 | 81.81 | 181.48 | 6,243.35 | 119.87 | -1,246.56 | -128.14 | 9.00 | 8.77 | -2.05 |
| 6,750.00 | 86.20 | 180.48 | 6,248.57 | 70.17 | -1,247.41 | -78.44 | 9.00 | 8.78 | -2.01 |
| 6,793.26 | 90.00 | 179.62 | 6,250.00 | 26.94 | -1,247.44 | -35.21 | 9.00 | 8.78 | -1.99 |
| TPZ @ 6793.26ft | | | | | | | | | |
| 6,800.00 | 90.00 | 179.62 | 6,250.00 | 20.20 | -1,247.39 | -28.47 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 90.00 | 179.62 | 6,250.00 | -79.80 | -1,246.72 | 71.53 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 90.00 | 179.62 | 6,250.00 | -179.80 | -1,246.05 | 171.53 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 90.00 | 179.62 | 6,250.00 | -279.79 | -1,245.38 | 271.53 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 90.00 | 179.62 | 6,250.00 | -379.79 | -1,244.71 | 371.53 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 90.00 | 179.62 | 6,250.00 | -479.79 | -1,244.04 | 471.53 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 90.00 | 179.62 | 6,250.00 | -579.79 | -1,243.37 | 571.53 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 90.00 | 179.62 | 6,250.00 | -679.79 | -1,242.70 | 671.53 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 90.00 | 179.62 | 6,250.00 | -779.78 | -1,242.03 | 771.53 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 90.00 | 179.62 | 6,250.00 | -879.78 | -1,241.36 | 871.53 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 90.00 | 179.62 | 6,250.00 | -979.78 | -1,240.69 | 971.53 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 90.00 | 179.62 | 6,250.00 | -1,079.78 | -1,240.02 | 1,071.53 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 90.00 | 179.62 | 6,250.00 | -1,179.77 | -1,239.35 | 1,171.53 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 90.00 | 179.62 | 6,250.00 | -1,279.77 | -1,238.68 | 1,271.53 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 90.00 | 179.62 | 6,250.00 | -1,379.77 | -1,238.01 | 1,371.53 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 90.00 | 179.62 | 6,250.00 | -1,479.77 | -1,237.34 | 1,471.53 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 90.00 | 179.62 | 6,250.00 | -1,579.76 | -1,236.67 | 1,571.53 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 90.00 | 179.62 | 6,250.00 | -1,679.76 | -1,236.00 | 1,671.53 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 90.00 | 179.62 | 6,250.00 | -1,779.76 | -1,235.34 | 1,771.53 | 0.00 | 0.00 | 0.00 |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 1717-11H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 5030.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 5030.00usft (RIG) |
| Site: | 9N-59W-17 TIMBRO 1717 PAD | North Reference: | True |
| Well: | TIMBRO 1717-11H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan B | | |
| 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) | |
| 8,700.00 | 90.00 | 179.62 | 6,250.00 | -1,879.76 | -1,234.67 | 1,871.53 | 0.00 | 0.00 | 0.00 | |
| 8,800.00 | 90.00 | 179.62 | 6,250.00 | -1,979.76 | -1,234.00 | 1,971.53 | 0.00 | 0.00 | 0.00 | |
| 8,900.00 | 90.00 | 179.62 | 6,250.00 | -2,079.75 | -1,233.33 | 2,071.53 | 0.00 | 0.00 | 0.00 | |
| 9,000.00 | 90.00 | 179.62 | 6,250.00 | -2,179.75 | -1,232.66 | 2,171.53 | 0.00 | 0.00 | 0.00 | |
| 9,100.00 | 90.00 | 179.62 | 6,250.00 | -2,279.75 | -1,231.99 | 2,271.53 | 0.00 | 0.00 | 0.00 | |
| 9,200.00 | 90.00 | 179.62 | 6,250.00 | -2,379.75 | -1,231.32 | 2,371.53 | 0.00 | 0.00 | 0.00 | |
| 9,300.00 | 90.00 | 179.62 | 6,250.00 | -2,479.74 | -1,230.65 | 2,471.53 | 0.00 | 0.00 | 0.00 | |
| 9,400.00 | 90.00 | 179.62 | 6,250.00 | -2,579.74 | -1,229.98 | 2,571.53 | 0.00 | 0.00 | 0.00 | |
| 9,500.00 | 90.00 | 179.62 | 6,250.00 | -2,679.74 | -1,229.31 | 2,671.53 | 0.00 | 0.00 | 0.00 | |
| 9,600.00 | 90.00 | 179.62 | 6,250.00 | -2,779.74 | -1,228.64 | 2,771.53 | 0.00 | 0.00 | 0.00 | |
| 9,700.00 | 90.00 | 179.62 | 6,250.00 | -2,879.74 | -1,227.97 | 2,871.53 | 0.00 | 0.00 | 0.00 | |
| 9,800.00 | 90.00 | 179.62 | 6,250.00 | -2,979.73 | -1,227.30 | 2,971.53 | 0.00 | 0.00 | 0.00 | |
| 9,900.00 | 90.00 | 179.62 | 6,250.00 | -3,079.73 | -1,226.63 | 3,071.53 | 0.00 | 0.00 | 0.00 | |
| 10,000.00 | 90.00 | 179.62 | 6,250.00 | -3,179.73 | -1,225.96 | 3,171.53 | 0.00 | 0.00 | 0.00 | |
| 10,100.00 | 90.00 | 179.62 | 6,250.00 | -3,279.73 | -1,225.29 | 3,271.53 | 0.00 | 0.00 | 0.00 | |
| 10,200.00 | 90.00 | 179.62 | 6,250.00 | -3,379.72 | -1,224.62 | 3,371.53 | 0.00 | 0.00 | 0.00 | |
| 10,300.00 | 90.00 | 179.62 | 6,250.00 | -3,479.72 | -1,223.95 | 3,471.53 | 0.00 | 0.00 | 0.00 | |
| 10,400.00 | 90.00 | 179.62 | 6,250.00 | -3,579.72 | -1,223.28 | 3,571.53 | 0.00 | 0.00 | 0.00 | |
| 10,500.00 | 90.00 | 179.62 | 6,250.00 | -3,679.72 | -1,222.61 | 3,671.53 | 0.00 | 0.00 | 0.00 | |
| 10,600.00 | 90.00 | 179.62 | 6,250.00 | -3,779.72 | -1,221.94 | 3,771.53 | 0.00 | 0.00 | 0.00 | |
| 10,700.00 | 90.00 | 179.62 | 6,250.00 | -3,879.71 | -1,221.27 | 3,871.53 | 0.00 | 0.00 | 0.00 | |
| 10,800.00 | 90.00 | 179.62 | 6,250.00 | -3,979.71 | -1,220.60 | 3,971.53 | 0.00 | 0.00 | 0.00 | |
| 10,900.00 | 90.00 | 179.62 | 6,250.00 | -4,079.71 | -1,219.93 | 4,071.53 | 0.00 | 0.00 | 0.00 | |
| 11,000.00 | 90.00 | 179.62 | 6,250.00 | -4,179.71 | -1,219.26 | 4,171.53 | 0.00 | 0.00 | 0.00 | |
| 11,100.00 | 90.00 | 179.62 | 6,250.00 | -4,279.70 | -1,218.59 | 4,271.53 | 0.00 | 0.00 | 0.00 | |
| 11,200.00 | 90.00 | 179.62 | 6,250.00 | -4,379.70 | -1,217.92 | 4,371.53 | 0.00 | 0.00 | 0.00 | |
| 11,300.00 | 90.00 | 179.62 | 6,250.00 | -4,479.70 | -1,217.25 | 4,471.53 | 0.00 | 0.00 | 0.00 | |
| 11,400.00 | 90.00 | 179.62 | 6,250.00 | -4,579.70 | -1,216.58 | 4,571.53 | 0.00 | 0.00 | 0.00 | |
| 11,500.00 | 90.00 | 179.62 | 6,250.00 | -4,679.70 | -1,215.91 | 4,671.53 | 0.00 | 0.00 | 0.00 | |
| 11,521.46 | 90.00 | 179.62 | 6,250.00 | -4,701.15 | -1,215.76 | 4,692.99 | 0.00 | 0.00 | 0.00 | |
| BPZ @ 11521.46ft | | | | | | | | | | |
| 11,600.00 | 90.00 | 179.62 | 6,250.00 | -4,779.69 | -1,215.24 | 4,771.53 | 0.00 | 0.00 | 0.00 | |
| 11,611.45 | 90.00 | 179.62 | 6,250.00 | -4,791.14 | -1,215.16 | 4,782.98 | 0.00 | 0.00 | 0.00 | |
| TD Well @ 11611.45ft | | | | | | | | | | |

| Casing Points | | | | | |
|-----------------------|-----------------------|--------|---------------------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") | |
| 1,729.37 | 1,700.00 | 9 5/8" | 9-5/8 | 13-1/2 | |

Planning Report

| | | | |
|-----------|----------------------------|------------------------------|-------------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well TIMBRO 1717-11H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 5030.00usft (RIG) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 5030.00usft (RIG) |
| Site: | 9N-59W-17 TIMBRO 1717 PAD | North Reference: | True |
| Well: | TIMBRO 1717-11H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan B | | |
| Design: | Design #1 | | |

| Plan Annotations | | | | |
|-----------------------------|-----------------------------|-------------------|-----------------|----------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 354.00 | 354.00 | 0.00 | 0.00 | Begin Nudge @ 354.00ft |
| 1,095.50 | 1,087.25 | 49.28 | -81.72 | Hold Tangent @ 1095.50ft |
| 5,707.93 | 5,546.04 | 658.90 | -1,092.70 | KOP @ 5707.93ft :: DLS = 9°/100' |
| 6,793.26 | 6,250.00 | 26.94 | -1,247.44 | TPZ @ 6793.26ft |
| 11,521.46 | 6,250.00 | -4,701.15 | -1,215.76 | BPZ @ 11521.46ft |
| 11,611.45 | 6,250.00 | -4,791.14 | -1,215.16 | TD Well @ 11611.45ft |