



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well TR 511-28-597 - Slot TR 511-28-597, True North
Vertical (TVD) Reference: RKB @ 30' @ 8513.0ft
Section (VS) Reference: Slot - TR 511-28-597(0.0N, 0.0E)
Measured Depth Reference: RKB @ 30' @ 8513.0ft
Calculation Method: Minimum Curvature

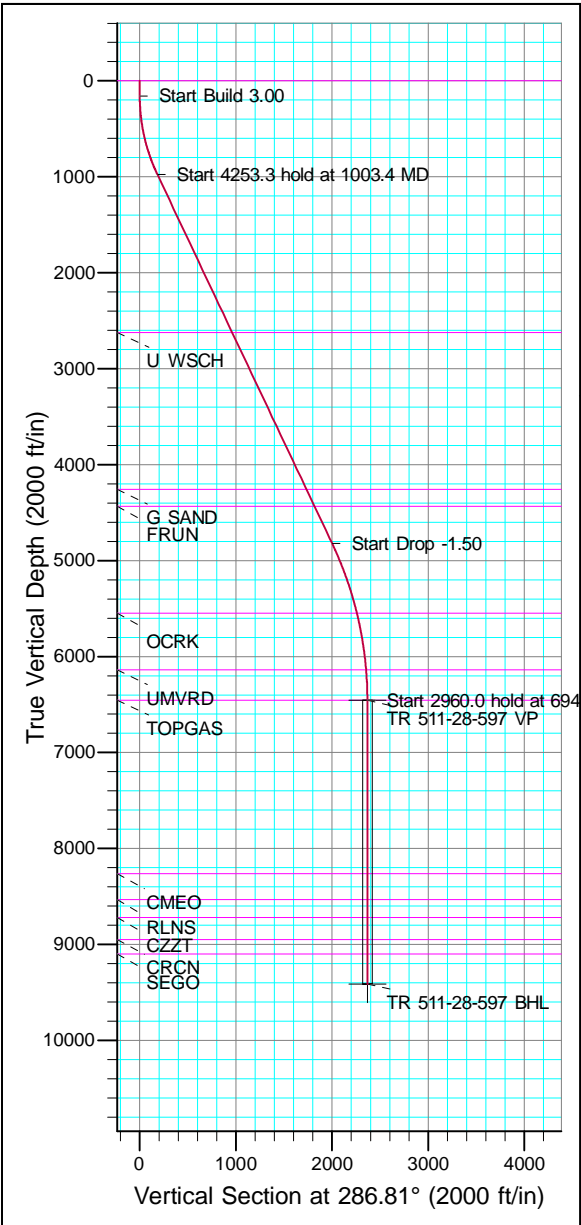


Project: Garfield County, CO (Nad 83)
Site: TR 32-28-597 Pad
Well: TR 511-28-597
Wellbore: OWB
Design: Plan

Azimuths to True North
Magnetic North: 9.23°
Magnetic Field

Strength: 51011.5nT
Dip Angle: 65.58°
Date: 6/5/2023
Model: HDGM

| WELL DETAILS: TR 511-28-597 | | | | | |
|-----------------------------|-------|-------------|-----------------------|---------------|-------------|
| +N/-S | +E/-W | Northing | Ground Level: Easting | Latitude | Longitude |
| 0.0 | 0.0 | 1650716.700 | 2216052.700 | 39.587052 | -108.282013 |
| | | | | Slot | |
| | | | | TR 511-28-597 | |

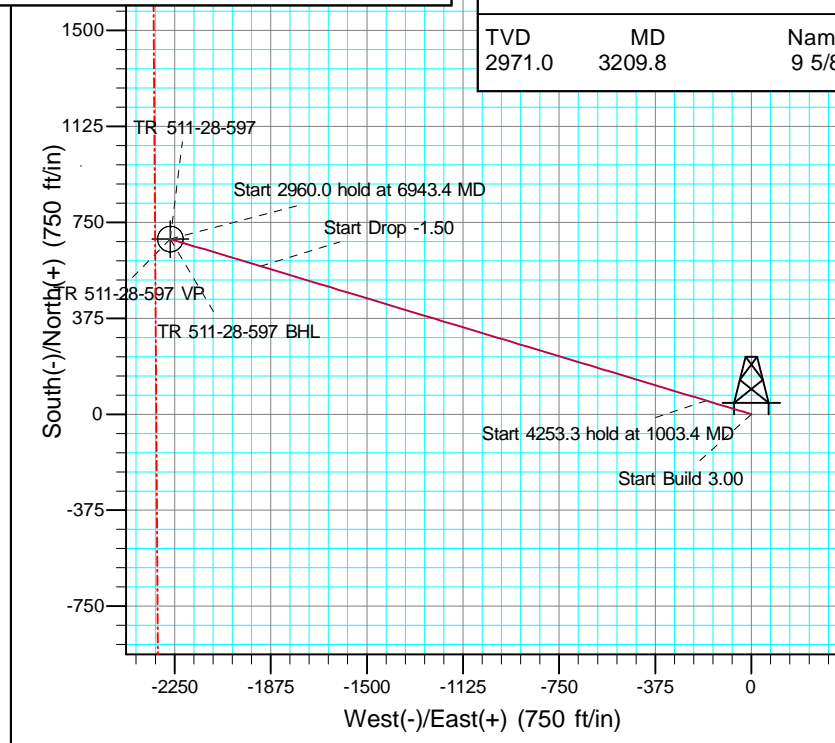
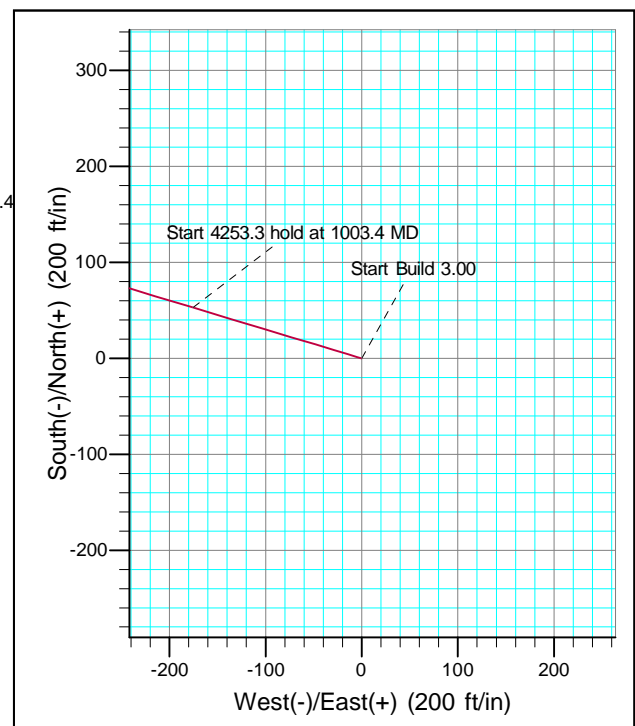


| ANNOTATIONS | | | | | | | | | |
|-------------|--------|-------|--------|-------|---------|--------|-----------|--------------------------------|--|
| TVD | MD | Inc | Azi | +N/-S | +E/-W | Vsect | Departure | Annotation | |
| 160.0 | 160.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | Start Build 3.00 | |
| 976.2 | 1003.4 | 25.30 | 286.81 | 53.0 | -175.4 | 183.2 | 183.2 | Start 4253.3 hold at 1003.4 MD | |
| 4821.5 | 5256.7 | 25.30 | 286.81 | 578.7 | -1915.5 | 2001.0 | 2001.0 | Start Drop -1.50 | |
| 6454.0 | 6943.4 | 0.00 | 0.00 | 684.6 | -2266.2 | 2367.4 | 2367.4 | Start 2960.0 hold at 6943.4 MD | |
| 9414.0 | 9903.4 | 0.00 | 0.00 | 684.6 | -2266.2 | 2367.4 | 2367.4 | TD at 9903.4 | |

| FORMATION TOP DETAILS | | |
|-----------------------|--------|-----------|
| TVDPath | MDPath | Formation |
| 0.0 | 0.0 | GRRV |
| 2621.0 | 2822.7 | U WSCH |
| 4255.0 | 4630.0 | G SAND |
| 4434.0 | 4828.0 | FRUN |
| 5548.0 | 6028.7 | OCRK |
| 6138.0 | 6627.1 | UMVRD |
| 6454.0 | 6943.4 | TOPGAS |
| 8263.0 | 8752.4 | CMEO |
| 8533.0 | 9022.4 | RLNS |
| 8720.0 | 9209.4 | CZZT |
| 8948.0 | 9437.4 | CRCN |
| 9098.0 | 9587.4 | SEGO |

| DESIGN TARGET DETAILS | | | | | | | | | |
|---------------------------|--------|-------|---------|-------------|-------------|-----------|-------------|-----------------------|--|
| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape | |
| VP | 6454.0 | 684.6 | -2266.2 | 1651470.400 | 2213808.500 | 39.588932 | -108.290055 | Point | |
| - plan hits target center | | | | | | | | | |
| BHL | 9414.0 | 684.6 | -2266.2 | 1651470.400 | 2213808.500 | 39.588932 | -108.290055 | Circle (Radius: 50.0) | |
| - plan hits target center | | | | | | | | | |

| CASING DETAILS | | |
|----------------|--------|--------|
| TVD | MD | Name |
| 2971.0 | 3209.8 | 9 5/8" |





Terra Energy Partners, LLP

Garfield County, CO (Nad 83)

TR 32-28-597 Pad

TR 511-28-597 - Slot TR 511-28-597

OWB

Plan: Plan

Standard Planning Report

13 June, 2023



| | | | |
|------------------|------------------------------|-------------------------------------|---|
| Database: | NN | Local Co-ordinate Reference: | Well TR 511-28-597 - Slot TR 511-28-597 |
| Company: | Terra Energy Partners, LLP | TVD Reference: | RKB @ 30' @ 8513.0ft |
| Project: | Garfield County, CO (Nad 83) | MD Reference: | RKB @ 30' @ 8513.0ft |
| Site: | TR 32-28-597 Pad | North Reference: | True |
| Well: | TR 511-28-597 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | Plan | | |

| | | | |
|--------------------|------------------------------|----------------------|----------------|
| Project | Garfield County, CO (Nad 83) | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | |

| | | | | |
|------------------------------|-------------------------------------|---------------------|--------------------|----------------------------------|
| Site | TR 32-28-597 Pad, Sec 28, T5S, R97W | | | |
| Site Position: | | Northing: | 1,650,709.300 usft | Latitude: 39.587032 |
| From: | Map | Easting: | 2,216,053.200 usft | Longitude: -108.282011 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13-3/16 " | Grid Convergence: -1.75 ° |

| | | | | | | |
|----------------------|------------------------------------|---------|---------------------|--------------------|---------------|-------------|
| Well | TR 511-28-597 - Slot TR 511-28-597 | | | | | |
| Well Position | +N/-S | 7.4 ft | Northing: | 1,650,716.700 usft | Latitude: | 39.587053 |
| | +E/-W | -0.7 ft | Easting: | 2,216,052.700 usft | Longitude: | -108.282014 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | 8,513.0 ft | Ground Level: | 8,483.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OWB | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM | 6/5/2023 | 9.23 | 65.58 | 51,012 |

| | | | | |
|--------------------------|-------------------------|--------------|----------------------|------------------|
| Design | Plan | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) | +N/-S | +E/-W | Direction |
| | (ft) | (ft) | (ft) | (°) |
| | 0.0 | 0.0 | 0.0 | 286.81 |

| Plan Sections | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-------------------------|------------------------|-----------------------|---------|-------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 160.0 | 0.00 | 0.00 | 160.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,003.4 | 25.30 | 286.81 | 976.2 | 53.0 | -175.4 | 3.00 | 3.00 | 0.00 | 286.81 | |
| 5,256.7 | 25.30 | 286.81 | 4,821.5 | 578.7 | -1,915.5 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,943.4 | 0.00 | 0.00 | 6,454.0 | 684.6 | -2,266.2 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 9,903.4 | 0.00 | 0.00 | 9,414.0 | 684.6 | -2,266.2 | 0.00 | 0.00 | 0.00 | 0.00 | TR 511-28-597 BHL |

| | | | |
|------------------|------------------------------|-------------------------------------|---|
| Database: | NN | Local Co-ordinate Reference: | Well TR 511-28-597 - Slot TR 511-28-597 |
| Company: | Terra Energy Partners, LLP | TVD Reference: | RKB @ 30' @ 8513.0ft |
| Project: | Garfield County, CO (Nad 83) | MD Reference: | RKB @ 30' @ 8513.0ft |
| Site: | TR 32-28-597 Pad | North Reference: | True |
| Well: | TR 511-28-597 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | Plan | | |

| Planned Survey | | | | | | | | | |
|--------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 160.0 | 0.00 | 0.00 | 160.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| Start Build 3.00 | | | | | | | | | |
| 200.0 | 1.20 | 286.81 | 200.0 | 0.1 | -0.4 | 0.4 | 3.00 | 3.00 | 0.00 |
| 300.0 | 4.20 | 286.81 | 299.9 | 1.5 | -4.9 | 5.1 | 3.00 | 3.00 | 0.00 |
| 400.0 | 7.20 | 286.81 | 399.4 | 4.4 | -14.4 | 15.1 | 3.00 | 3.00 | 0.00 |
| 500.0 | 10.20 | 286.81 | 498.2 | 8.7 | -28.9 | 30.2 | 3.00 | 3.00 | 0.00 |
| 600.0 | 13.20 | 286.81 | 596.1 | 14.6 | -48.3 | 50.5 | 3.00 | 3.00 | 0.00 |
| 700.0 | 16.20 | 286.81 | 692.8 | 21.9 | -72.6 | 75.8 | 3.00 | 3.00 | 0.00 |
| 800.0 | 19.20 | 286.81 | 788.1 | 30.7 | -101.7 | 106.2 | 3.00 | 3.00 | 0.00 |
| 900.0 | 22.20 | 286.81 | 881.6 | 40.9 | -135.5 | 141.6 | 3.00 | 3.00 | 0.00 |
| 1,000.0 | 25.20 | 286.81 | 973.2 | 52.6 | -174.0 | 181.8 | 3.00 | 3.00 | 0.00 |
| 1,003.4 | 25.30 | 286.81 | 976.2 | 53.0 | -175.4 | 183.2 | 3.00 | 3.00 | 0.00 |
| Start 4253.3 hold at 1003.4 MD | | | | | | | | | |
| 1,100.0 | 25.30 | 286.81 | 1,063.6 | 64.9 | -214.9 | 224.5 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 25.30 | 286.81 | 1,154.0 | 77.3 | -255.8 | 267.2 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 25.30 | 286.81 | 1,244.4 | 89.6 | -296.7 | 310.0 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 25.30 | 286.81 | 1,334.8 | 102.0 | -337.6 | 352.7 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 25.30 | 286.81 | 1,425.2 | 114.4 | -378.6 | 395.5 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 25.30 | 286.81 | 1,515.6 | 126.7 | -419.5 | 438.2 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 25.30 | 286.81 | 1,606.0 | 139.1 | -460.4 | 480.9 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 25.30 | 286.81 | 1,696.4 | 151.4 | -501.3 | 523.7 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 25.30 | 286.81 | 1,786.8 | 163.8 | -542.2 | 566.4 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 25.30 | 286.81 | 1,877.3 | 176.2 | -583.1 | 609.1 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 25.30 | 286.81 | 1,967.7 | 188.5 | -624.0 | 651.9 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 25.30 | 286.81 | 2,058.1 | 200.9 | -664.9 | 694.6 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 25.30 | 286.81 | 2,148.5 | 213.2 | -705.8 | 737.4 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 25.30 | 286.81 | 2,238.9 | 225.6 | -746.8 | 780.1 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 25.30 | 286.81 | 2,329.3 | 238.0 | -787.7 | 822.8 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 25.30 | 286.81 | 2,419.7 | 250.3 | -828.6 | 865.6 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 25.30 | 286.81 | 2,510.1 | 262.7 | -869.5 | 908.3 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 25.30 | 286.81 | 2,600.5 | 275.0 | -910.4 | 951.0 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 25.30 | 286.81 | 2,690.9 | 287.4 | -951.3 | 993.8 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 25.30 | 286.81 | 2,781.3 | 299.8 | -992.2 | 1,036.5 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 25.30 | 286.81 | 2,871.7 | 312.1 | -1,033.1 | 1,079.3 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 25.30 | 286.81 | 2,962.1 | 324.5 | -1,074.1 | 1,122.0 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 25.30 | 286.81 | 3,052.5 | 336.8 | -1,115.0 | 1,164.7 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 25.30 | 286.81 | 3,143.0 | 349.2 | -1,155.9 | 1,207.5 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 25.30 | 286.81 | 3,233.4 | 361.6 | -1,196.8 | 1,250.2 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 25.30 | 286.81 | 3,323.8 | 373.9 | -1,237.7 | 1,292.9 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 25.30 | 286.81 | 3,414.2 | 386.3 | -1,278.6 | 1,335.7 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 25.30 | 286.81 | 3,504.6 | 398.6 | -1,319.5 | 1,378.4 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 25.30 | 286.81 | 3,595.0 | 411.0 | -1,360.4 | 1,421.2 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 25.30 | 286.81 | 3,685.4 | 423.3 | -1,401.3 | 1,463.9 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 25.30 | 286.81 | 3,775.8 | 435.7 | -1,442.3 | 1,506.6 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 25.30 | 286.81 | 3,866.2 | 448.1 | -1,483.2 | 1,549.4 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 25.30 | 286.81 | 3,956.6 | 460.4 | -1,524.1 | 1,592.1 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 25.30 | 286.81 | 4,047.0 | 472.8 | -1,565.0 | 1,634.8 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 25.30 | 286.81 | 4,137.4 | 485.1 | -1,605.9 | 1,677.6 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 25.30 | 286.81 | 4,227.8 | 497.5 | -1,646.8 | 1,720.3 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 25.30 | 286.81 | 4,318.3 | 509.9 | -1,687.7 | 1,763.1 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 25.30 | 286.81 | 4,408.7 | 522.2 | -1,728.6 | 1,805.8 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 25.30 | 286.81 | 4,499.1 | 534.6 | -1,769.5 | 1,848.5 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|------------------------------|-------------------------------------|---|
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| Company: | Terra Energy Partners, LLP | TVD Reference: | RKB @ 30' @ 8513.0ft |
| Project: | Garfield County, CO (Nad 83) | MD Reference: | RKB @ 30' @ 8513.0ft |
| Site: | TR 32-28-597 Pad | North Reference: | True |
| Well: | TR 511-28-597 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | Plan | | |

| Planned Survey | | | | | | | | | |
|--------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 5,000.0 | 25.30 | 286.81 | 4,589.5 | 546.9 | -1,810.5 | 1,891.3 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 25.30 | 286.81 | 4,679.9 | 559.3 | -1,851.4 | 1,934.0 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 25.30 | 286.81 | 4,770.3 | 571.7 | -1,892.3 | 1,976.7 | 0.00 | 0.00 | 0.00 |
| 5,256.7 | 25.30 | 286.81 | 4,821.5 | 578.7 | -1,915.5 | 2,001.0 | 0.00 | 0.00 | 0.00 |
| Start Drop -1.50 | | | | | | | | | |
| 5,300.0 | 24.65 | 286.81 | 4,860.8 | 584.0 | -1,933.0 | 2,019.3 | 1.50 | -1.50 | 0.00 |
| 5,400.0 | 23.15 | 286.81 | 4,952.2 | 595.7 | -1,971.8 | 2,059.8 | 1.50 | -1.50 | 0.00 |
| 5,500.0 | 21.65 | 286.81 | 5,044.7 | 606.7 | -2,008.2 | 2,097.9 | 1.50 | -1.50 | 0.00 |
| 5,600.0 | 20.15 | 286.81 | 5,138.1 | 617.0 | -2,042.4 | 2,133.6 | 1.50 | -1.50 | 0.00 |
| 5,700.0 | 18.65 | 286.81 | 5,232.4 | 626.6 | -2,074.2 | 2,166.8 | 1.50 | -1.50 | 0.00 |
| 5,800.0 | 17.15 | 286.81 | 5,327.6 | 635.5 | -2,103.6 | 2,197.5 | 1.50 | -1.50 | 0.00 |
| 5,900.0 | 15.65 | 286.81 | 5,423.5 | 643.7 | -2,130.6 | 2,225.8 | 1.50 | -1.50 | 0.00 |
| 6,000.0 | 14.15 | 286.81 | 5,520.1 | 651.1 | -2,155.3 | 2,251.5 | 1.50 | -1.50 | 0.00 |
| 6,100.0 | 12.65 | 286.81 | 5,617.4 | 657.8 | -2,177.5 | 2,274.6 | 1.50 | -1.50 | 0.00 |
| 6,200.0 | 11.15 | 286.81 | 5,715.2 | 663.8 | -2,197.2 | 2,295.3 | 1.50 | -1.50 | 0.00 |
| 6,300.0 | 9.65 | 286.81 | 5,813.6 | 669.0 | -2,214.5 | 2,313.3 | 1.50 | -1.50 | 0.00 |
| 6,400.0 | 8.15 | 286.81 | 5,912.4 | 673.5 | -2,229.3 | 2,328.8 | 1.50 | -1.50 | 0.00 |
| 6,500.0 | 6.65 | 286.81 | 6,011.6 | 677.2 | -2,241.6 | 2,341.7 | 1.50 | -1.50 | 0.00 |
| 6,600.0 | 5.15 | 286.81 | 6,111.0 | 680.2 | -2,251.5 | 2,352.0 | 1.50 | -1.50 | 0.00 |
| 6,700.0 | 3.65 | 286.81 | 6,210.7 | 682.4 | -2,258.8 | 2,359.6 | 1.50 | -1.50 | 0.00 |
| 6,800.0 | 2.15 | 286.81 | 6,310.6 | 683.9 | -2,263.7 | 2,364.7 | 1.50 | -1.50 | 0.00 |
| 6,900.0 | 0.65 | 286.81 | 6,410.6 | 684.6 | -2,266.0 | 2,367.1 | 1.50 | -1.50 | 0.00 |
| 6,943.4 | 0.00 | 0.00 | 6,454.0 | 684.6 | -2,266.2 | 2,367.4 | 1.50 | -1.50 | 0.00 |
| Start 2960.0 hold at 6943.4 MD | | | | | | | | | |
| 7,000.0 | 0.00 | 0.00 | 6,510.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 0.00 | 0.00 | 6,610.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 0.00 | 0.00 | 6,710.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 7,300.0 | 0.00 | 0.00 | 6,810.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 0.00 | 0.00 | 6,910.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 0.00 | 0.00 | 7,010.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 0.00 | 0.00 | 7,110.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 0.00 | 0.00 | 7,210.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 0.00 | 0.00 | 7,310.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 0.00 | 0.00 | 7,410.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 0.00 | 0.00 | 7,510.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 0.00 | 0.00 | 7,610.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 0.00 | 0.00 | 7,710.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 0.00 | 0.00 | 7,810.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 0.00 | 0.00 | 7,910.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 0.00 | 0.00 | 8,010.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 0.00 | 0.00 | 8,110.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 0.00 | 0.00 | 8,210.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 0.00 | 0.00 | 8,310.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 0.00 | 0.00 | 8,410.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 0.00 | 0.00 | 8,510.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 0.00 | 0.00 | 8,610.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 0.00 | 0.00 | 8,710.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 0.00 | 0.00 | 8,810.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 0.00 | 0.00 | 8,910.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 0.00 | 0.00 | 9,010.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 0.00 | 0.00 | 9,110.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 0.00 | 0.00 | 9,210.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 0.00 | 0.00 | 9,310.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 0.00 | 0.00 | 9,410.6 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|------------------------------|-------------------------------------|---|
| Database: | NN | Local Co-ordinate Reference: | Well TR 511-28-597 - Slot TR 511-28-597 |
| Company: | Terra Energy Partners, LLP | TVD Reference: | RKB @ 30' @ 8513.0ft |
| Project: | Garfield County, CO (Nad 83) | MD Reference: | RKB @ 30' @ 8513.0ft |
| Site: | TR 32-28-597 Pad | North Reference: | True |
| Well: | TR 511-28-597 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | Plan | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 9,903.4 | 0.00 | 0.00 | 9,414.0 | 684.6 | -2,266.2 | 2,367.4 | 0.00 | 0.00 | 0.00 |
| TD at 9903.4 | | | | | | | | | |

| Design Targets | | | | | | | | | |
|--|---------------|--------------|----------|------------|------------|-----------------|----------------|-----------|-------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| TR 511-28-597 VP - plan hits target center - Point | 0.00 | 0.00 | 6,454.0 | 684.6 | -2,266.2 | 1,651,470.400 | 2,213,808.500 | 39.588932 | -108.290055 |
| TR 511-28-597 BHL - plan hits target center - Circle (radius 50.0) | 0.00 | 0.00 | 9,414.0 | 684.6 | -2,266.2 | 1,651,470.400 | 2,213,808.500 | 39.588932 | -108.290055 |

| Casing Points | | | | | |
|---------------------|---------------------|--------|---------------------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") | |
| 3,209.8 | 2,971.0 | 9 5/8" | 9-5/8 | 12-1/4 | |

| Formations | | | | | | |
|---------------------|---------------------|--------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 0.0 | 0.0 | GRRV | | 0.00 | | |
| 2,822.7 | 2,621.0 | U WSCH | | 0.00 | | |
| 4,630.0 | 4,255.0 | G SAND | | 0.00 | | |
| 4,828.0 | 4,434.0 | FRUN | | 0.00 | | |
| 6,028.7 | 5,548.0 | OCRK | | 0.00 | | |
| 6,627.1 | 6,138.0 | UMVRD | | 0.00 | | |
| 6,943.4 | 6,454.0 | TOPGAS | | 0.00 | | |
| 8,752.4 | 8,263.0 | CME0 | | 0.00 | | |
| 9,022.4 | 8,533.0 | RLNS | | 0.00 | | |
| 9,209.4 | 8,720.0 | CZZT | | 0.00 | | |
| 9,437.4 | 8,948.0 | CRCN | | 0.00 | | |
| 9,587.4 | 9,098.0 | SEGO | | 0.00 | | |

| Plan Annotations | | | | |
|---------------------|---------------------|------------|------------|--------------------------------|
| Measured Depth (ft) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Comment |
| 160.0 | 160.0 | 0.0 | 0.0 | Start Build 3.00 |
| 1,003.4 | 976.2 | 53.0 | -175.4 | Start 4253.3 hold at 1003.4 MD |
| 5,256.7 | 4,821.5 | 578.7 | -1,915.5 | Start Drop -1.50 |
| 6,943.4 | 6,454.0 | 684.6 | -2,266.2 | Start 2960.0 hold at 6943.4 MD |
| 9,903.4 | 9,414.0 | 684.6 | -2,266.2 | TD at 9903.4 |