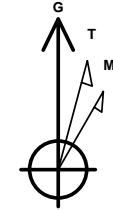




Company: B.P.
Project: La Plata County, CO NAD83
Site: Tiffany Pad
Well: Tiffany 1-4
Wellbore: Lateral 1
Design: Plan #1

PROJECT DETAILS: La Plata County, CO NAD83

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Southern Zone
System Datum: Mean Sea Level
Local North: Grid



Azimuths to Grid North
True North: 1.26°
Magnetic North: 10.56°

Magnetic Field
Strength: 50285.2snT
Dip Angle: 63.67°
Date: 12/7/2015
Model: HDGM

WELL DETAILS: Tiffany 1-4

GL 6479.14' & RKB 11' @ 6490.14usft (Aztec 507)

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|-------|-------|------------|------------|------------|--------------|
| 0.00 | 0.00 | 1164991.41 | 2400363.16 | 37.1016614 | -107.5561747 |

D

Plan: Plan #1 (Tiffany 1-4/Lateral 1)

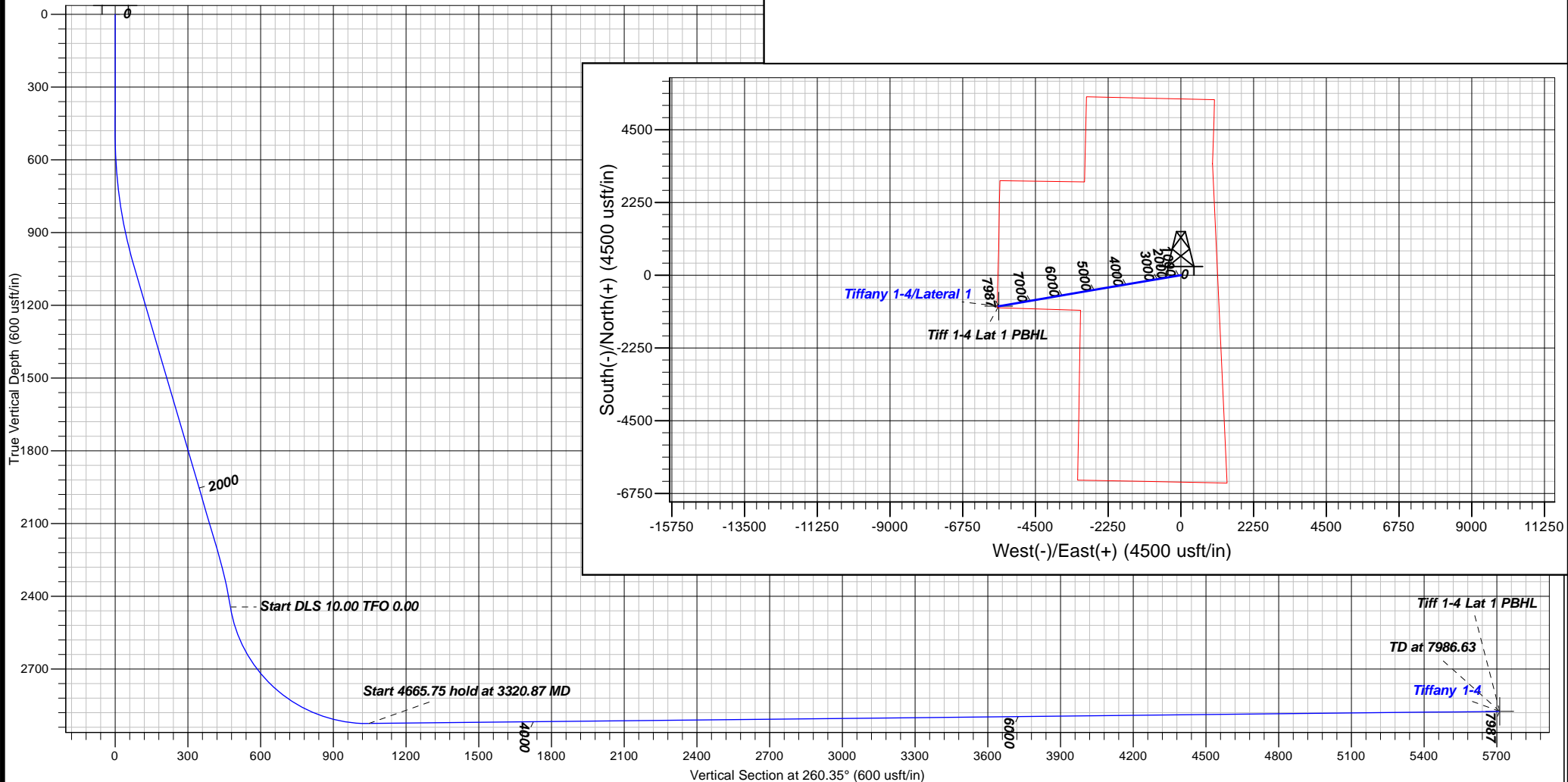
Created By: Janie Collins Date: 16:10, December 21 2015

DESIGN TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|---------------------|---------|---------|----------|------------|------------|------------|--------------|
| Tiff 1-4 Lat 1 PBHL | 2875.00 | -957.71 | -5631.30 | 1164033.70 | 2394731.86 | 37.0986898 | -107.5754053 |

SECTION DETAILS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Target | Annotation |
|---------|-------|--------|---------|---------|----------|-------|-------|---------|---------------------|------------|
| 2507.43 | 9.27 | 260.35 | 2444.36 | -79.65 | -468.33 | 0.00 | 0.00 | 475.06 | | |
| 3320.87 | 90.61 | 260.35 | 2925.00 | -175.49 | -1031.86 | 10.00 | 0.00 | 1046.67 | | |
| 7986.63 | 90.61 | 260.35 | 2875.00 | -957.71 | -5631.30 | 0.00 | 0.00 | 5712.16 | Tiff 1-4 Lat 1 PBHL | |





B.P.

La Plata County, CO NAD83

Tiffany Pad

Tiffany 1-4 - Slot D

Lateral 1

Plan: Plan #1

Standard Planning Report

21 December, 2015





| | | | |
|------------------|---------------------------|-------------------------------------|---|
| Database: | Grand Junction District | Local Co-ordinate Reference: | Well Tiffany 1-4 - Slot D |
| Company: | B.P. | TVD Reference: | GL 6479.14' & RKB 11' @ 6490.14usft (Aztec 507) |
| Project: | La Plata County, CO NAD83 | MD Reference: | GL 6479.14' & RKB 11' @ 6490.14usft (Aztec 507) |
| Site: | Tiffany Pad | North Reference: | Grid |
| Well: | Tiffany 1-4 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Lateral 1 | | |
| Design: | Plan #1 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | La Plata County, CO NAD83 | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Southern Zone | | |

| | | | | | |
|-----------------------|-----------|--------------|-------------------|-------------------|--------------|
| Site | | Tiffany Pad | | | |
| Site Position: | | Northing: | 1,165,118.91 usft | Latitude: | 37.1020115 |
| From: | Map | Easting: | 2,400,363.16 usft | Longitude: | -107.5561843 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.20 in | Grid Convergence: | -1.26 ° |

| Well | Tiffany 1-4 - Slot D | | | | | |
|----------------------|----------------------|--------------|---------------------|-------------------|---------------|---------------|
| Well Position | +N/-S | -127.50 usft | Northing: | 1,164,991.41 usft | Latitude: | 37.1016614 |
| | +E/-W | 0.00 usft | Easting: | 2,400,363.16 usft | Longitude: | -107.5561747 |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | 0.00 usft | Ground Level: | 6,479.14 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Lateral 1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM | 12/7/2015 | 9.30 | 63.67 | 50,285 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|--|
| Design | Plan #1 | | | | |
| Audit Notes: | | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 2,507.43 | |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 260.35 | |

| 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 |
| 2,507.43 | 9.27 | 260.35 | 2,444.36 | -79.65 | -468.33 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,320.87 | 90.61 | 260.35 | 2,925.00 | -175.49 | -1,031.86 | 10.00 | 10.00 | 0.00 | 0.00 | |
| 7,986.63 | 90.61 | 260.35 | 2,875.00 | -957.71 | -5,631.30 | 0.00 | 0.00 | 0.00 | 0.00 | Tiff 1-4 Lat 1 PBHL |



| | | | |
|------------------|---------------------------|-------------------------------------|---|
| Database: | Grand Junction District | Local Co-ordinate Reference: | Well Tiffany 1-4 - Slot D |
| Company: | B.P. | TVD Reference: | GL 6479.14' & RKB 11' @ 6490.14usft (Aztec 507) |
| Project: | La Plata County, CO NAD83 | MD Reference: | GL 6479.14' & RKB 11' @ 6490.14usft (Aztec 507) |
| Site: | Tiffany Pad | North Reference: | Grid |
| Well: | Tiffany 1-4 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Lateral 1 | | |
| Design: | Plan #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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 2,507.43 | 9.27 | 260.35 | 2,444.36 | -79.65 | -468.33 | 475.06 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 18.53 | 260.35 | 2,534.12 | -83.37 | -490.23 | 497.27 | 10.00 | 10.00 | 0.00 |
| 2,700.00 | 28.53 | 260.35 | 2,625.70 | -90.06 | -529.53 | 537.14 | 10.00 | 10.00 | 0.00 |
| 2,800.00 | 38.53 | 260.35 | 2,708.95 | -99.31 | -583.91 | 592.30 | 10.00 | 10.00 | 0.00 |
| 2,900.00 | 48.53 | 260.35 | 2,781.37 | -110.84 | -651.72 | 661.08 | 10.00 | 10.00 | 0.00 |
| 3,000.00 | 58.53 | 260.35 | 2,840.74 | -124.30 | -730.90 | 741.39 | 10.00 | 10.00 | 0.00 |
| 3,100.00 | 68.53 | 260.35 | 2,885.26 | -139.29 | -819.03 | 830.79 | 10.00 | 10.00 | 0.00 |
| 3,200.00 | 78.53 | 260.35 | 2,913.58 | -155.35 | -913.45 | 926.56 | 10.00 | 10.00 | 0.00 |
| 3,300.00 | 88.53 | 260.35 | 2,924.84 | -171.99 | -1,011.28 | 1,025.80 | 10.00 | 10.00 | 0.00 |
| 3,320.87 | 90.61 | 260.35 | 2,925.00 | -175.49 | -1,031.86 | 1,046.67 | 10.00 | 10.00 | 0.00 |
| 3,400.00 | 90.61 | 260.35 | 2,924.15 | -188.75 | -1,109.86 | 1,125.79 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 90.61 | 260.35 | 2,923.08 | -205.52 | -1,208.44 | 1,225.79 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 90.61 | 260.35 | 2,922.01 | -222.28 | -1,307.02 | 1,325.78 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 90.61 | 260.35 | 2,920.93 | -239.05 | -1,405.59 | 1,425.78 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 90.61 | 260.35 | 2,919.86 | -255.81 | -1,504.17 | 1,525.77 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 90.61 | 260.35 | 2,918.79 | -272.58 | -1,602.75 | 1,625.77 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 90.61 | 260.35 | 2,917.72 | -289.34 | -1,701.33 | 1,725.76 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 90.61 | 260.35 | 2,916.65 | -306.11 | -1,799.91 | 1,825.75 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 90.61 | 260.35 | 2,915.58 | -322.87 | -1,898.49 | 1,925.75 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 90.61 | 260.35 | 2,914.50 | -339.64 | -1,997.07 | 2,025.74 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 90.61 | 260.35 | 2,913.43 | -356.40 | -2,095.65 | 2,125.74 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 90.61 | 260.35 | 2,912.36 | -373.17 | -2,194.22 | 2,225.73 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 90.61 | 260.35 | 2,911.29 | -389.93 | -2,292.80 | 2,325.73 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 90.61 | 260.35 | 2,910.22 | -406.70 | -2,391.38 | 2,425.72 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 90.61 | 260.35 | 2,909.15 | -423.47 | -2,489.96 | 2,525.71 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 90.61 | 260.35 | 2,908.07 | -440.23 | -2,588.54 | 2,625.71 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 90.61 | 260.35 | 2,907.00 | -457.00 | -2,687.12 | 2,725.70 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 90.61 | 260.35 | 2,905.93 | -473.76 | -2,785.70 | 2,825.70 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 90.61 | 260.35 | 2,904.86 | -490.53 | -2,884.28 | 2,925.69 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 90.61 | 260.35 | 2,903.79 | -507.29 | -2,982.86 | 3,025.69 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 90.61 | 260.35 | 2,902.72 | -524.06 | -3,081.43 | 3,125.68 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 90.61 | 260.35 | 2,901.65 | -540.82 | -3,180.01 | 3,225.67 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 90.61 | 260.35 | 2,900.57 | -557.59 | -3,278.59 | 3,325.67 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 90.61 | 260.35 | 2,899.50 | -574.35 | -3,377.17 | 3,425.66 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 90.61 | 260.35 | 2,898.43 | -591.12 | -3,475.75 | 3,525.66 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 90.61 | 260.35 | 2,897.36 | -607.88 | -3,574.33 | 3,625.65 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 90.61 | 260.35 | 2,896.29 | -624.65 | -3,672.91 | 3,725.64 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 90.61 | 260.35 | 2,895.22 | -641.41 | -3,771.49 | 3,825.64 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 90.61 | 260.35 | 2,894.14 | -658.18 | -3,870.06 | 3,925.63 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 90.61 | 260.35 | 2,893.07 | -674.94 | -3,968.64 | 4,025.63 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 90.61 | 260.35 | 2,892.00 | -691.71 | -4,067.22 | 4,125.62 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 90.61 | 260.35 | 2,890.93 | -708.47 | -4,165.80 | 4,225.62 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 90.61 | 260.35 | 2,889.86 | -725.24 | -4,264.38 | 4,325.61 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 90.61 | 260.35 | 2,888.79 | -742.00 | -4,362.96 | 4,425.60 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 90.61 | 260.35 | 2,887.72 | -758.77 | -4,461.54 | 4,525.60 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 90.61 | 260.35 | 2,886.64 | -775.53 | -4,560.12 | 4,625.59 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 90.61 | 260.35 | 2,885.57 | -792.30 | -4,658.69 | 4,725.59 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 90.61 | 260.35 | 2,884.50 | -809.07 | -4,757.27 | 4,825.58 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 90.61 | 260.35 | 2,883.43 | -825.83 | -4,855.85 | 4,925.58 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 90.61 | 260.35 | 2,882.36 | -842.60 | -4,954.43 | 5,025.57 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 90.61 | 260.35 | 2,881.29 | -859.36 | -5,053.01 | 5,125.56 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 90.61 | 260.35 | 2,880.21 | -876.13 | -5,151.59 | 5,225.56 | 0.00 | 0.00 | 0.00 |



| | | | |
|------------------|---------------------------|-------------------------------------|---|
| Database: | Grand Junction District | Local Co-ordinate Reference: | Well Tiffany 1-4 - Slot D |
| Company: | B.P. | TVD Reference: | GL 6479.14' & RKB 11' @ 6490.14usft (Aztec 507) |
| Project: | La Plata County, CO NAD83 | MD Reference: | GL 6479.14' & RKB 11' @ 6490.14usft (Aztec 507) |
| Site: | Tiffany Pad | North Reference: | Grid |
| Well: | Tiffany 1-4 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Lateral 1 | | |
| Design: | Plan #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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 7,600.00 | 90.61 | 260.35 | 2,879.14 | -892.89 | -5,250.17 | 5,325.55 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 90.61 | 260.35 | 2,878.07 | -909.66 | -5,348.75 | 5,425.55 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 90.61 | 260.35 | 2,877.00 | -926.42 | -5,447.33 | 5,525.54 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 90.61 | 260.35 | 2,875.93 | -943.19 | -5,545.90 | 5,625.54 | 0.00 | 0.00 | 0.00 |
| 7,986.63 | 90.61 | 260.35 | 2,875.00 | -957.71 | -5,631.30 | 5,712.16 | 0.00 | 0.00 | 0.00 |
| Tiff 1-4 Lat 1 PBHL | | | | | | | | | |

Design Targets

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------|--------------|
| Tiff 1-4 Lat 1 PBHL - plan hits target center - Point | 0.00 | 360.00 | 2,875.00 | -957.71 | -5,631.30 | 1,164,033.70 | 2,394,731.86 | 37.0986898 | -107.5754053 |

Casing Points

| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (in) | Hole Diameter (in) |
|-----------------------|-----------------------|----------------|----------------------|--------------------|
| 350.00 | 350.00 | Surface Casing | 9.62 | 12.25 |
| 7,986.63 | 2,875.00 | 4 1/2" Casing | 4.50 | 6.13 |