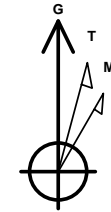




Company: B.P.  
Project: La Plata County, CO NAD83  
Site: Tiffany Pad 2  
Well: Tiffany 2-3  
Wellbore: Lateral 2  
Design: Plan #2

### 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: 1.24°  
Magnetic North: 10.53°

Magnetic Field  
Strength: 50251.6snT  
Dip Angle: 63.65°  
Date: 4/6/2016  
Model: HDGM

### WELL DETAILS: Tiffany 2-3

GL 6669.66' & RKB 11' @ 6680.66usft (Aztec 507)

| +N/-S | +E/-W | Northing   | Easting    | Latitude   | Longitude    |
|-------|-------|------------|------------|------------|--------------|
| 0.00  | 0.00  | 1163311.22 | 2408584.27 | 37.0975416 | -107.5278681 |

Tiffany 2-3

Plan: Plan #2 (Tiffany 2-3/Lateral 2)

Created By: Janie Collins Date: 16:26, April 21 2016

### DESIGN TARGET DETAILS

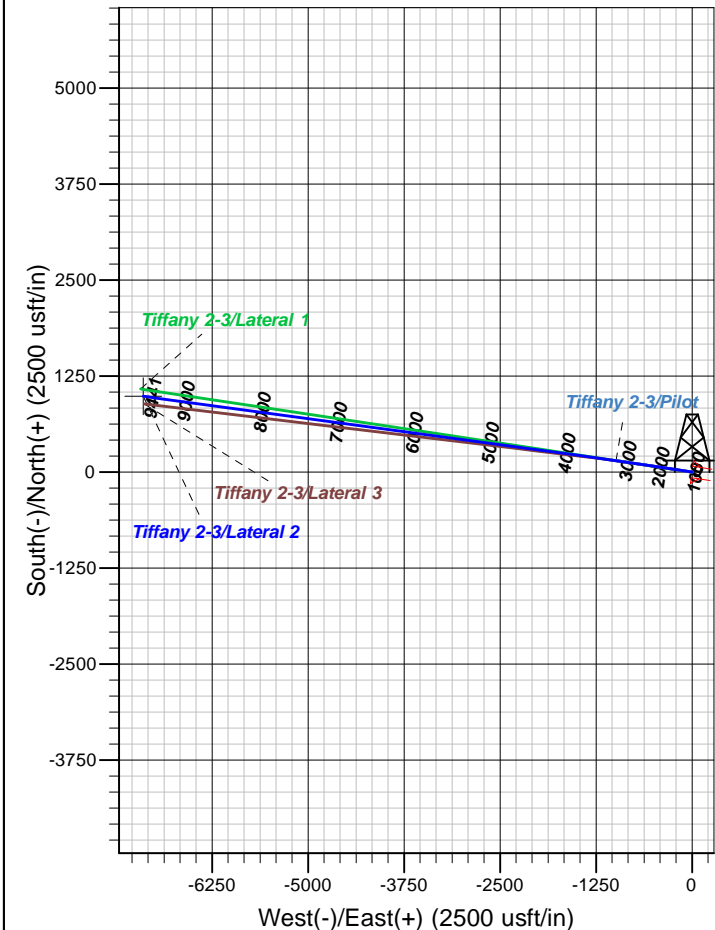
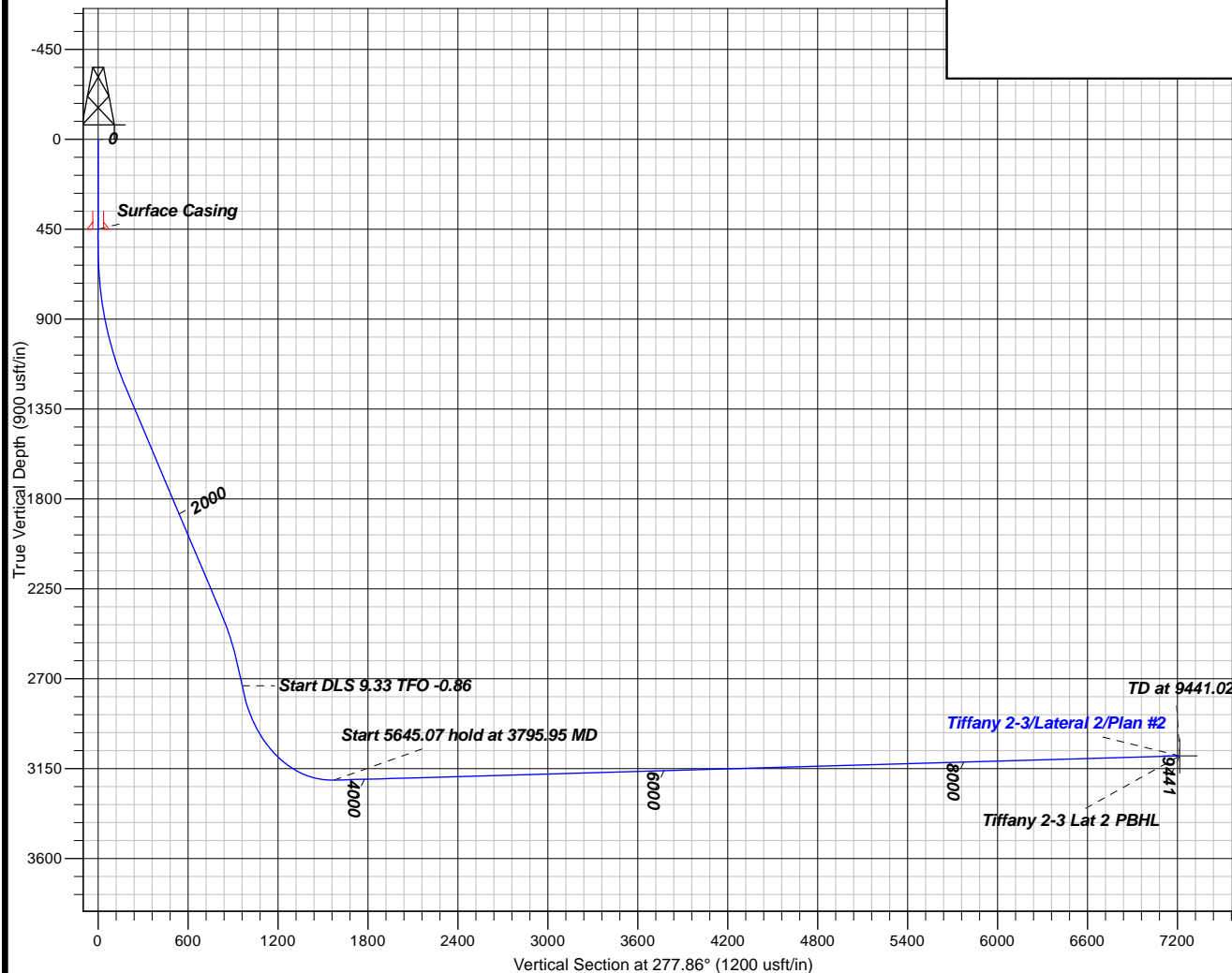
| Name                   | TVD     | +N/-S  | +E/-W    | Northing   | Easting    | Latitude   | Longitude    |
|------------------------|---------|--------|----------|------------|------------|------------|--------------|
| Tiffany 2-3 Lat 2 PBHL | 3086.00 | 986.86 | -7147.80 | 1164298.08 | 2401436.47 | 37.0998226 | -107.5524432 |

### SECTION DETAILS

| MD      | Inc   | Azi    | TVD     | +N/-S  | +E/-W    | Dleg | TFace | Vsect   | Target                 |
|---------|-------|--------|---------|--------|----------|------|-------|---------|------------------------|
| 2961.30 | 13.36 | 278.57 | 2735.06 | 143.29 | -950.51  | 0.00 | 0.00  | 961.17  |                        |
| 3795.95 | 91.23 | 277.74 | 3207.15 | 227.15 | -1555.40 | 9.33 | -0.86 | 1571.85 |                        |
| 9441.02 | 91.23 | 277.74 | 3086.00 | 986.86 | -7147.80 | 0.00 | 0.00  | 7215.60 | Tiffany 2-3 Lat 2 PBHL |

### FORMATION TOP DETAILS

No formation data is available





**B.P.**

La Plata County, CO NAD83

Tiffany Pad 2

Tiffany 2-3 - Slot Tiffany 2-3

Lateral 2

Plan: Plan #2

## **Standard Planning Report**

21 April, 2016





|                  |                           |                                     |                                                 |
|------------------|---------------------------|-------------------------------------|-------------------------------------------------|
| <b>Database:</b> | Grand Junction District   | <b>Local Co-ordinate Reference:</b> | Well Tiffany 2-3 - Slot Tiffany 2-3             |
| <b>Company:</b>  | B.P.                      | <b>TVD Reference:</b>               | GL 6669.66' & RKB 11' @ 6680.66usft (Aztec 507) |
| <b>Project:</b>  | La Plata County, CO NAD83 | <b>MD Reference:</b>                | GL 6669.66' & RKB 11' @ 6680.66usft (Aztec 507) |
| <b>Site:</b>     | Tiffany Pad 2             | <b>North Reference:</b>             | Grid                                            |
| <b>Well:</b>     | Tiffany 2-3               | <b>Survey Calculation Method:</b>   | Minimum Curvature                               |
| <b>Wellbore:</b> | Lateral 2                 |                                     |                                                 |
| <b>Design:</b>   | Plan #2                   |                                     |                                                 |

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

|                              |               |                     |                   |                                  |
|------------------------------|---------------|---------------------|-------------------|----------------------------------|
| <b>Site</b>                  | Tiffany Pad 2 |                     |                   |                                  |
| <b>Site Position:</b>        |               | <b>Northing:</b>    | 1,163,257.22 usft | <b>Latitude:</b> 37.0973972      |
| <b>From:</b> Map             |               | <b>Easting:</b>     | 2,408,649.91 usft | <b>Longitude:</b> -107.5276391   |
| <b>Position Uncertainty:</b> | 0.00 usft     | <b>Slot Radius:</b> | 13.20 in          | <b>Grid Convergence:</b> -1.24 ° |

|                             |                                |             |                            |                   |
|-----------------------------|--------------------------------|-------------|----------------------------|-------------------|
| <b>Well</b>                 | Tiffany 2-3 - Slot Tiffany 2-3 |             |                            |                   |
| <b>Well Position</b>        | <b>+N/-S</b>                   | 54.00 usft  | <b>Northing:</b>           | 1,163,311.22 usft |
|                             | <b>+E/-W</b>                   | -65.64 usft | <b>Easting:</b>            | 2,408,584.27 usft |
| <b>Position Uncertainty</b> | 0.00 usft                      |             | <b>Wellhead Elevation:</b> | 0.00 usft         |
|                             |                                |             | <b>Ground Level:</b>       | 6,669.66 usft     |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Lateral 2         |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | HDGM              | 4/6/2016           | 9.28                   | 63.65                | 50,252                     |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #2                        |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PLAN                | <b>Tie On Depth:</b> | 2,961.30             |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          | 0.00                           | 0.00                | 0.00                 | 277.86               |

| <b>Plan Sections</b>  |                 |             |                       |              |              |                         |                        |                       |         |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|-----------------------|
| 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                |
| 2,961.30              | 13.36           | 278.57      | 2,735.06              | 143.29       | -950.51      | 0.00                    | 0.00                   | 0.00                  | 0.00    |                       |
| 3,795.95              | 91.23           | 277.74      | 3,207.15              | 227.15       | -1,555.40    | 9.33                    | 9.33                   | -0.10                 | -0.86   |                       |
| 9,441.02              | 91.23           | 277.74      | 3,086.00              | 986.86       | -7,147.80    | 0.00                    | 0.00                   | 0.00                  | 0.00    | Tiffany 2-3 Lat 2 PBH |



|                  |                           |                                     |                                                 |
|------------------|---------------------------|-------------------------------------|-------------------------------------------------|
| <b>Database:</b> | Grand Junction District   | <b>Local Co-ordinate Reference:</b> | Well Tiffany 2-3 - Slot Tiffany 2-3             |
| <b>Company:</b>  | B.P.                      | <b>TVD Reference:</b>               | GL 6669.66' & RKB 11' @ 6680.66usft (Aztec 507) |
| <b>Project:</b>  | La Plata County, CO NAD83 | <b>MD Reference:</b>                | GL 6669.66' & RKB 11' @ 6680.66usft (Aztec 507) |
| <b>Site:</b>     | Tiffany Pad 2             | <b>North Reference:</b>             | Grid                                            |
| <b>Well:</b>     | Tiffany 2-3               | <b>Survey Calculation Method:</b>   | Minimum Curvature                               |
| <b>Wellbore:</b> | Lateral 2                 |                                     |                                                 |
| <b>Design:</b>   | Plan #2                   |                                     |                                                 |

## 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 2,961.30              | 13.36           | 278.57      | 2,735.06              | 143.29       | -950.51      | 961.18                  | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00              | 16.97           | 278.39      | 2,772.41              | 144.78       | -960.52      | 971.30                  | 9.33                    | 9.33                   | -0.48                 |
| 3,100.00              | 26.30           | 278.14      | 2,865.26              | 150.06       | -996.97      | 1,008.12                | 9.33                    | 9.33                   | -0.25                 |
| 3,200.00              | 35.63           | 278.02      | 2,950.92              | 157.28       | -1,047.85    | 1,059.51                | 9.33                    | 9.33                   | -0.12                 |
| 3,300.00              | 44.96           | 277.94      | 3,027.11              | 166.24       | -1,111.82    | 1,124.11                | 9.33                    | 9.33                   | -0.08                 |
| 3,400.00              | 54.29           | 277.88      | 3,091.82              | 176.71       | -1,187.19    | 1,200.21                | 9.33                    | 9.33                   | -0.06                 |
| 3,500.00              | 63.62           | 277.84      | 3,143.33              | 188.41       | -1,271.97    | 1,285.79                | 9.33                    | 9.33                   | -0.04                 |
| 3,600.00              | 72.95           | 277.80      | 3,180.30              | 201.03       | -1,363.91    | 1,378.58                | 9.33                    | 9.33                   | -0.04                 |
| 3,700.00              | 82.28           | 277.77      | 3,201.73              | 214.25       | -1,460.57    | 1,476.15                | 9.33                    | 9.33                   | -0.03                 |
| 3,795.95              | 91.23           | 277.74      | 3,207.15              | 227.15       | -1,555.40    | 1,571.85                | 9.33                    | 9.33                   | -0.03                 |
| 3,800.00              | 91.23           | 277.74      | 3,207.07              | 227.70       | -1,559.41    | 1,575.90                | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00              | 91.23           | 277.74      | 3,204.92              | 241.16       | -1,658.47    | 1,675.87                | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00              | 91.23           | 277.74      | 3,202.77              | 254.61       | -1,757.54    | 1,775.85                | 0.00                    | 0.00                   | 0.00                  |
| 4,100.00              | 91.23           | 277.74      | 3,200.63              | 268.07       | -1,856.61    | 1,875.83                | 0.00                    | 0.00                   | 0.00                  |
| 4,200.00              | 91.23           | 277.74      | 3,198.48              | 281.53       | -1,955.68    | 1,975.80                | 0.00                    | 0.00                   | 0.00                  |
| 4,300.00              | 91.23           | 277.74      | 3,196.34              | 294.99       | -2,054.74    | 2,075.78                | 0.00                    | 0.00                   | 0.00                  |
| 4,400.00              | 91.23           | 277.74      | 3,194.19              | 308.45       | -2,153.81    | 2,175.76                | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00              | 91.23           | 277.74      | 3,192.04              | 321.90       | -2,252.88    | 2,275.73                | 0.00                    | 0.00                   | 0.00                  |
| 4,600.00              | 91.23           | 277.74      | 3,189.90              | 335.36       | -2,351.94    | 2,375.71                | 0.00                    | 0.00                   | 0.00                  |
| 4,700.00              | 91.23           | 277.74      | 3,187.75              | 348.82       | -2,451.01    | 2,475.69                | 0.00                    | 0.00                   | 0.00                  |
| 4,800.00              | 91.23           | 277.74      | 3,185.60              | 362.28       | -2,550.08    | 2,575.66                | 0.00                    | 0.00                   | 0.00                  |
| 4,900.00              | 91.23           | 277.74      | 3,183.46              | 375.74       | -2,649.15    | 2,675.64                | 0.00                    | 0.00                   | 0.00                  |
| 5,000.00              | 91.23           | 277.74      | 3,181.31              | 389.19       | -2,748.21    | 2,775.62                | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00              | 91.23           | 277.74      | 3,179.17              | 402.65       | -2,847.28    | 2,875.59                | 0.00                    | 0.00                   | 0.00                  |
| 5,200.00              | 91.23           | 277.74      | 3,177.02              | 416.11       | -2,946.35    | 2,975.57                | 0.00                    | 0.00                   | 0.00                  |
| 5,300.00              | 91.23           | 277.74      | 3,174.87              | 429.57       | -3,045.41    | 3,075.55                | 0.00                    | 0.00                   | 0.00                  |
| 5,400.00              | 91.23           | 277.74      | 3,172.73              | 443.03       | -3,144.48    | 3,175.52                | 0.00                    | 0.00                   | 0.00                  |
| 5,500.00              | 91.23           | 277.74      | 3,170.58              | 456.48       | -3,243.55    | 3,275.50                | 0.00                    | 0.00                   | 0.00                  |
| 5,600.00              | 91.23           | 277.74      | 3,168.44              | 469.94       | -3,342.61    | 3,375.48                | 0.00                    | 0.00                   | 0.00                  |
| 5,700.00              | 91.23           | 277.74      | 3,166.29              | 483.40       | -3,441.68    | 3,475.45                | 0.00                    | 0.00                   | 0.00                  |
| 5,800.00              | 91.23           | 277.74      | 3,164.14              | 496.86       | -3,540.75    | 3,575.43                | 0.00                    | 0.00                   | 0.00                  |
| 5,900.00              | 91.23           | 277.74      | 3,162.00              | 510.31       | -3,639.82    | 3,675.41                | 0.00                    | 0.00                   | 0.00                  |
| 6,000.00              | 91.23           | 277.74      | 3,159.85              | 523.77       | -3,738.88    | 3,775.38                | 0.00                    | 0.00                   | 0.00                  |
| 6,100.00              | 91.23           | 277.74      | 3,157.70              | 537.23       | -3,837.95    | 3,875.36                | 0.00                    | 0.00                   | 0.00                  |
| 6,200.00              | 91.23           | 277.74      | 3,155.56              | 550.69       | -3,937.02    | 3,975.34                | 0.00                    | 0.00                   | 0.00                  |
| 6,300.00              | 91.23           | 277.74      | 3,153.41              | 564.15       | -4,036.08    | 4,075.31                | 0.00                    | 0.00                   | 0.00                  |
| 6,400.00              | 91.23           | 277.74      | 3,151.27              | 577.60       | -4,135.15    | 4,175.29                | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00              | 91.23           | 277.74      | 3,149.12              | 591.06       | -4,234.22    | 4,275.27                | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00              | 91.23           | 277.74      | 3,146.97              | 604.52       | -4,333.29    | 4,375.24                | 0.00                    | 0.00                   | 0.00                  |
| 6,700.00              | 91.23           | 277.74      | 3,144.83              | 617.98       | -4,432.35    | 4,475.22                | 0.00                    | 0.00                   | 0.00                  |
| 6,800.00              | 91.23           | 277.74      | 3,142.68              | 631.44       | -4,531.42    | 4,575.20                | 0.00                    | 0.00                   | 0.00                  |
| 6,900.00              | 91.23           | 277.74      | 3,140.53              | 644.89       | -4,630.49    | 4,675.17                | 0.00                    | 0.00                   | 0.00                  |
| 7,000.00              | 91.23           | 277.74      | 3,138.39              | 658.35       | -4,729.55    | 4,775.15                | 0.00                    | 0.00                   | 0.00                  |
| 7,100.00              | 91.23           | 277.74      | 3,136.24              | 671.81       | -4,828.62    | 4,875.13                | 0.00                    | 0.00                   | 0.00                  |
| 7,200.00              | 91.23           | 277.74      | 3,134.10              | 685.27       | -4,927.69    | 4,975.10                | 0.00                    | 0.00                   | 0.00                  |
| 7,300.00              | 91.23           | 277.74      | 3,131.95              | 698.72       | -5,026.75    | 5,075.08                | 0.00                    | 0.00                   | 0.00                  |
| 7,400.00              | 91.23           | 277.74      | 3,129.80              | 712.18       | -5,125.82    | 5,175.06                | 0.00                    | 0.00                   | 0.00                  |
| 7,500.00              | 91.23           | 277.74      | 3,127.66              | 725.64       | -5,224.89    | 5,275.04                | 0.00                    | 0.00                   | 0.00                  |
| 7,600.00              | 91.23           | 277.74      | 3,125.51              | 739.10       | -5,323.96    | 5,375.01                | 0.00                    | 0.00                   | 0.00                  |
| 7,700.00              | 91.23           | 277.74      | 3,123.37              | 752.56       | -5,423.02    | 5,474.99                | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00              | 91.23           | 277.74      | 3,121.22              | 766.01       | -5,522.09    | 5,574.97                | 0.00                    | 0.00                   | 0.00                  |
| 7,900.00              | 91.23           | 277.74      | 3,119.07              | 779.47       | -5,621.16    | 5,674.94                | 0.00                    | 0.00                   | 0.00                  |



|                  |                           |                                     |                                                 |
|------------------|---------------------------|-------------------------------------|-------------------------------------------------|
| <b>Database:</b> | Grand Junction District   | <b>Local Co-ordinate Reference:</b> | Well Tiffany 2-3 - Slot Tiffany 2-3             |
| <b>Company:</b>  | B.P.                      | <b>TVD Reference:</b>               | GL 6669.66' & RKB 11' @ 6680.66usft (Aztec 507) |
| <b>Project:</b>  | La Plata County, CO NAD83 | <b>MD Reference:</b>                | GL 6669.66' & RKB 11' @ 6680.66usft (Aztec 507) |
| <b>Site:</b>     | Tiffany Pad 2             | <b>North Reference:</b>             | Grid                                            |
| <b>Well:</b>     | Tiffany 2-3               | <b>Survey Calculation Method:</b>   | Minimum Curvature                               |
| <b>Wellbore:</b> | Lateral 2                 |                                     |                                                 |
| <b>Design:</b>   | Plan #2                   |                                     |                                                 |

**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) |
|------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 8,000.00               | 91.23           | 277.74      | 3,116.93              | 792.93       | -5,720.22    | 5,774.92                | 0.00                    | 0.00                   | 0.00                  |
| 8,100.00               | 91.23           | 277.74      | 3,114.78              | 806.39       | -5,819.29    | 5,874.90                | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00               | 91.23           | 277.74      | 3,112.63              | 819.85       | -5,918.36    | 5,974.87                | 0.00                    | 0.00                   | 0.00                  |
| 8,300.00               | 91.23           | 277.74      | 3,110.49              | 833.30       | -6,017.42    | 6,074.85                | 0.00                    | 0.00                   | 0.00                  |
| 8,400.00               | 91.23           | 277.74      | 3,108.34              | 846.76       | -6,116.49    | 6,174.83                | 0.00                    | 0.00                   | 0.00                  |
| 8,500.00               | 91.23           | 277.74      | 3,106.20              | 860.22       | -6,215.56    | 6,274.80                | 0.00                    | 0.00                   | 0.00                  |
| 8,600.00               | 91.23           | 277.74      | 3,104.05              | 873.68       | -6,314.63    | 6,374.78                | 0.00                    | 0.00                   | 0.00                  |
| 8,700.00               | 91.23           | 277.74      | 3,101.90              | 887.13       | -6,413.69    | 6,474.76                | 0.00                    | 0.00                   | 0.00                  |
| 8,800.00               | 91.23           | 277.74      | 3,099.76              | 900.59       | -6,512.76    | 6,574.73                | 0.00                    | 0.00                   | 0.00                  |
| 8,900.00               | 91.23           | 277.74      | 3,097.61              | 914.05       | -6,611.83    | 6,674.71                | 0.00                    | 0.00                   | 0.00                  |
| 9,000.00               | 91.23           | 277.74      | 3,095.47              | 927.51       | -6,710.89    | 6,774.69                | 0.00                    | 0.00                   | 0.00                  |
| 9,100.00               | 91.23           | 277.74      | 3,093.32              | 940.97       | -6,809.96    | 6,874.66                | 0.00                    | 0.00                   | 0.00                  |
| 9,200.00               | 91.23           | 277.74      | 3,091.17              | 954.42       | -6,909.03    | 6,974.64                | 0.00                    | 0.00                   | 0.00                  |
| 9,300.00               | 91.23           | 277.74      | 3,089.03              | 967.88       | -7,008.10    | 7,074.62                | 0.00                    | 0.00                   | 0.00                  |
| 9,400.00               | 91.23           | 277.74      | 3,086.88              | 981.34       | -7,107.16    | 7,174.59                | 0.00                    | 0.00                   | 0.00                  |
| 9,441.02               | 91.23           | 277.74      | 3,086.00              | 986.86       | -7,147.80    | 7,215.60                | 0.00                    | 0.00                   | 0.00                  |
| Tiffany 2-3 Lat 2 PBHL |                 |             |                       |              |              |                         |                         |                        |                       |

**Design Targets**

| Target Name<br>- hit/miss target<br>- Shape                    | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude   | Longitude    |
|----------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------|--------------|
| Tiffany 2-3 Lat 2 PBHL<br>- plan hits target center<br>- Point | 0.00          | 360.00       | 3,086.00   | 986.86       | -7,147.80    | 1,164,298.08    | 2,401,436.47   | 37.0998225 | -107.5524432 |

**Casing Points**

| Measured Depth (usft) | Vertical Depth (usft) | Name           | Casing Diameter (in) | Hole Diameter (in) |
|-----------------------|-----------------------|----------------|----------------------|--------------------|
| 450.00                | 450.00                | Surface Casing | 8.62                 | 12.25              |