



Ursa Operating Company, LLC

Rockies Region

Tompkins

BAT 32B-08-07-95

Wellbore #1

Plan: Design #1

Standard Planning Report

20 May, 2014



| | | | |
|------------------|-----------------------------|-------------------------------------|---|
| Database: | MasterDB | Local Co-ordinate Reference: | Well BAT 32B-08-07-95 |
| Company: | Ursa Operating Company, LLC | TVD Reference: | BAT 32B-08-07-95 @ 5547.4usft (Xtreme 15) |
| Project: | Rockies Region | MD Reference: | BAT 32B-08-07-95 @ 5547.4usft (Xtreme 15) |
| Site: | Tompkins | North Reference: | True |
| Well: | BAT 32B-08-07-95 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Rockies Region | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | |

| Site | | Tompkins | | | |
|-----------------------|----------|--------------|-------------------|-------------------|------------------|
| Site Position: | | Northing: | 1,602,267.15 usft | Latitude: | 39° 27' 36.106 N |
| From: | Lat/Long | Easting: | 2,290,225.27 usft | Longitude: | 108° 0' 51.048 W |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | -1.59 |

| | | | | | | |
|----------------------|--|------------|---------------------|-------------------|---------------|------------------|
| Well | BAT 32B-08-07-95, SHL LAT: 39.459963500 LONG: -108.013960600 | | | | | |
| Well Position | +N/-S | -24.0 usft | Northing: | 1,602,241.43 usft | Latitude: | 39° 27' 35.868 N |
| | +E/-W | 61.9 usft | Easting: | 2,290,286.50 usft | Longitude: | 108° 0' 50.258 W |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | 5,547.4 usft | Ground Level: | 5,532.0 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 5/19/2014 | 9.98 | 65.63 | 51,937 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | Design #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 215.43 |

| 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 |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,427.4 | 32.46 | 215.43 | 1,378.6 | -208.4 | -148.3 | 3.50 | 3.50 | 0.00 | 215.43 | |
| 4,879.6 | 32.46 | 215.43 | 4,291.4 | -1,718.0 | -1,222.4 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,807.0 | 0.00 | 0.00 | 5,170.0 | -1,926.4 | -1,370.7 | 3.50 | -3.50 | 0.00 | 180.00 | |
| 7,562.0 | 0.00 | 0.00 | 6,925.0 | -1,926.4 | -1,370.7 | 0.00 | 0.00 | 0.00 | 0.00 | |

| | | | |
|------------------|-----------------------------|-------------------------------------|---|
| Database: | MasterDB | Local Co-ordinate Reference: | Well BAT 32B-08-07-95 |
| Company: | Ursa Operating Company, LLC | TVD Reference: | BAT 32B-08-07-95 @ 5547.4usft (Xtreme 15) |
| Project: | Rockies Region | MD Reference: | BAT 32B-08-07-95 @ 5547.4usft (Xtreme 15) |
| Site: | Tompkins | North Reference: | True |
| Well: | BAT 32B-08-07-95 | 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) |
| 0.0 | 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 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| Start Build 3.50 | | | | | | | | | |
| 600.0 | 3.50 | 215.43 | 599.9 | -2.5 | -1.8 | 3.1 | 3.50 | 3.50 | 0.00 |
| 700.0 | 7.00 | 215.43 | 699.5 | -9.9 | -7.1 | 12.2 | 3.50 | 3.50 | 0.00 |
| 800.0 | 10.50 | 215.43 | 798.3 | -22.3 | -15.9 | 27.4 | 3.50 | 3.50 | 0.00 |
| 900.0 | 14.00 | 215.43 | 896.0 | -39.6 | -28.2 | 48.6 | 3.50 | 3.50 | 0.00 |
| 1,000.0 | 17.50 | 215.43 | 992.3 | -61.7 | -43.9 | 75.8 | 3.50 | 3.50 | 0.00 |
| 1,100.0 | 21.00 | 215.43 | 1,086.7 | -88.6 | -63.0 | 108.7 | 3.50 | 3.50 | 0.00 |
| 1,200.0 | 24.50 | 215.43 | 1,178.9 | -120.1 | -85.5 | 147.4 | 3.50 | 3.50 | 0.00 |
| 1,300.0 | 28.00 | 215.43 | 1,268.5 | -156.1 | -111.1 | 191.6 | 3.50 | 3.50 | 0.00 |
| 1,400.0 | 31.50 | 215.43 | 1,355.3 | -196.6 | -139.9 | 241.2 | 3.50 | 3.50 | 0.00 |
| 1,427.4 | 32.46 | 215.43 | 1,378.6 | -208.4 | -148.3 | 255.8 | 3.50 | 3.50 | 0.00 |
| Start 3452.1 hold at 1427.4 MD | | | | | | | | | |
| 1,500.0 | 32.46 | 215.43 | 1,439.8 | -240.1 | -170.9 | 294.7 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 32.46 | 215.43 | 1,524.2 | -283.9 | -202.0 | 348.4 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 32.46 | 215.43 | 1,608.6 | -327.6 | -233.1 | 402.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 32.46 | 215.43 | 1,693.0 | -371.3 | -264.2 | 455.7 | 0.00 | 0.00 | 0.00 |
| 1,808.3 | 32.46 | 215.43 | 1,700.0 | -375.0 | -266.8 | 460.2 | 0.00 | 0.00 | 0.00 |
| Surface Casing | | | | | | | | | |
| 1,900.0 | 32.46 | 215.43 | 1,777.3 | -415.1 | -295.3 | 509.4 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 32.46 | 215.43 | 1,861.7 | -458.8 | -326.4 | 563.1 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 32.46 | 215.43 | 1,946.1 | -502.5 | -357.5 | 616.7 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 32.46 | 215.43 | 2,030.5 | -546.2 | -388.7 | 670.4 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 32.46 | 215.43 | 2,114.9 | -590.0 | -419.8 | 724.1 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 32.46 | 215.43 | 2,199.2 | -633.7 | -450.9 | 777.7 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 32.46 | 215.43 | 2,283.6 | -677.4 | -482.0 | 831.4 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 32.46 | 215.43 | 2,368.0 | -721.2 | -513.1 | 885.1 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 32.46 | 215.43 | 2,452.4 | -764.9 | -544.2 | 938.8 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 32.46 | 215.43 | 2,536.7 | -808.6 | -575.4 | 992.4 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 32.46 | 215.43 | 2,621.1 | -852.4 | -606.5 | 1,046.1 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 32.46 | 215.43 | 2,705.5 | -896.1 | -637.6 | 1,099.8 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 32.46 | 215.43 | 2,789.9 | -939.8 | -668.7 | 1,153.4 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 32.46 | 215.43 | 2,874.2 | -983.6 | -699.8 | 1,207.1 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 32.46 | 215.43 | 2,958.6 | -1,027.3 | -730.9 | 1,260.8 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 32.46 | 215.43 | 3,043.0 | -1,071.0 | -762.0 | 1,314.5 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 32.46 | 215.43 | 3,127.4 | -1,114.7 | -793.2 | 1,368.1 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 32.46 | 215.43 | 3,211.8 | -1,158.5 | -824.3 | 1,421.8 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 32.46 | 215.43 | 3,296.1 | -1,202.2 | -855.4 | 1,475.5 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 32.46 | 215.43 | 3,380.5 | -1,245.9 | -886.5 | 1,529.1 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 32.46 | 215.43 | 3,464.9 | -1,289.7 | -917.6 | 1,582.8 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 32.46 | 215.43 | 3,549.3 | -1,333.4 | -948.7 | 1,636.5 | 0.00 | 0.00 | 0.00 |
| 4,035.7 | 32.46 | 215.43 | 3,579.4 | -1,349.0 | -959.9 | 1,655.7 | 0.00 | 0.00 | 0.00 |
| Williams Fork | | | | | | | | | |
| 4,100.0 | 32.46 | 215.43 | 3,633.6 | -1,377.1 | -979.9 | 1,690.2 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 32.46 | 215.43 | 3,718.0 | -1,420.9 | -1,011.0 | 1,743.8 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 32.46 | 215.43 | 3,802.4 | -1,464.6 | -1,042.1 | 1,797.5 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 32.46 | 215.43 | 3,886.8 | -1,508.3 | -1,073.2 | 1,851.2 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 32.46 | 215.43 | 3,971.1 | -1,552.1 | -1,104.3 | 1,904.8 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 32.46 | 215.43 | 4,055.5 | -1,595.8 | -1,135.4 | 1,958.5 | 0.00 | 0.00 | 0.00 |

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|------------------|-----------------------------|-------------------------------------|---|
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| Project: | Rockies Region | MD Reference: | BAT 32B-08-07-95 @ 5547.4usft (Xtreme 15) |
| Site: | Tompkins | North Reference: | True |
| Well: | BAT 32B-08-07-95 | 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) |
| 4,700.0 | 32.46 | 215.43 | 4,139.9 | -1,639.5 | -1,166.5 | 2,012.2 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 32.46 | 215.43 | 4,224.3 | -1,683.3 | -1,197.7 | 2,065.9 | 0.00 | 0.00 | 0.00 |
| 4,879.6 | 32.46 | 215.43 | 4,291.4 | -1,718.0 | -1,222.4 | 2,108.5 | 0.00 | 0.00 | 0.00 |
| Start Drop -3.50 | | | | | | | | | |
| 4,900.0 | 31.74 | 215.43 | 4,308.7 | -1,726.9 | -1,228.7 | 2,119.4 | 3.50 | -3.50 | 0.00 |
| 5,000.0 | 28.24 | 215.43 | 4,395.3 | -1,767.6 | -1,257.7 | 2,169.4 | 3.50 | -3.50 | 0.00 |
| 5,100.0 | 24.74 | 215.43 | 4,484.8 | -1,804.0 | -1,283.6 | 2,214.0 | 3.50 | -3.50 | 0.00 |
| 5,200.0 | 21.24 | 215.43 | 4,576.8 | -1,835.8 | -1,306.2 | 2,253.1 | 3.50 | -3.50 | 0.00 |
| 5,235.9 | 19.99 | 215.43 | 4,610.4 | -1,846.1 | -1,313.5 | 2,265.7 | 3.50 | -3.50 | 0.00 |
| Top of Gas | | | | | | | | | |
| 5,267.4 | 18.89 | 215.43 | 4,640.1 | -1,854.6 | -1,319.6 | 2,276.2 | 3.50 | -3.50 | 0.00 |
| BAT 32B-08-07-95 TGT | | | | | | | | | |
| 5,300.0 | 17.74 | 215.43 | 4,671.1 | -1,863.0 | -1,325.5 | 2,286.4 | 3.50 | -3.50 | 0.00 |
| 5,400.0 | 14.24 | 215.43 | 4,767.2 | -1,885.4 | -1,341.5 | 2,314.0 | 3.50 | -3.50 | 0.00 |
| 5,500.0 | 10.74 | 215.43 | 4,864.8 | -1,903.0 | -1,354.1 | 2,335.6 | 3.50 | -3.50 | 0.00 |
| 5,600.0 | 7.24 | 215.43 | 4,963.6 | -1,915.8 | -1,363.1 | 2,351.2 | 3.50 | -3.50 | 0.00 |
| 5,700.0 | 3.74 | 215.43 | 5,063.1 | -1,923.6 | -1,368.7 | 2,360.8 | 3.50 | -3.50 | 0.00 |
| 5,807.0 | 0.00 | 0.00 | 5,170.0 | -1,926.4 | -1,370.7 | 2,364.3 | 3.50 | -3.50 | 0.00 |
| Back to Vertical - Start 1755.0 hold at 5807.0 MD | | | | | | | | | |
| 5,900.0 | 0.00 | 0.00 | 5,263.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 0.00 | 0.00 | 5,363.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 0.00 | 0.00 | 5,463.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 0.00 | 0.00 | 5,563.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 0.00 | 0.00 | 5,663.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 0.00 | 0.00 | 5,763.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 0.00 | 0.00 | 5,863.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 0.00 | 0.00 | 5,963.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 6,700.0 | 0.00 | 0.00 | 6,063.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 6,764.4 | 0.00 | 0.00 | 6,127.4 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| Cameo | | | | | | | | | |
| 6,800.0 | 0.00 | 0.00 | 6,163.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 6,900.0 | 0.00 | 0.00 | 6,263.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 0.00 | 0.00 | 6,363.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 0.00 | 0.00 | 6,463.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 0.00 | 0.00 | 6,563.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 7,262.4 | 0.00 | 0.00 | 6,625.4 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| Rollins | | | | | | | | | |
| 7,300.0 | 0.00 | 0.00 | 6,663.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 0.00 | 0.00 | 6,763.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 0.00 | 0.00 | 6,863.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| 7,562.0 | 0.00 | 0.00 | 6,925.0 | -1,926.4 | -1,370.7 | 2,364.3 | 0.00 | 0.00 | 0.00 |
| TD at 7562.0 | | | | | | | | | |

| Design Targets | | | | | | | | | |
|--|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|-----------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| BAT 32B-08-07-95 TGT | 0.00 | 0.00 | 4,610.0 | -1,926.4 | -1,370.7 | 1,600,353.67 | 2,288,863.03 | 39° 27' 16.828 N | 108° 1' 7.734 W |
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| - plan misses target center by 93.1usft at 5267.4usft MD (4640.1 TVD, -1854.6 N, -1319.6 E) - Rectangle (sides W100.0 H40.0 D2,315.0) | | | | | | | | | |

| | | | |
|------------------|-----------------------------|-------------------------------------|---|
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| Company: | Ursa Operating Company, LLC | TVD Reference: | BAT 32B-08-07-95 @ 5547.4usft (Xtreme 15) |
| Project: | Rockies Region | MD Reference: | BAT 32B-08-07-95 @ 5547.4usft (Xtreme 15) |
| Site: | Tompkins | North Reference: | True |
| Well: | BAT 32B-08-07-95 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| Formations | | | | | |
|-----------------------|-----------------------|---------------|-----------|---------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| 4,035.7 | 3,579.4 | Williams Fork | | 0.00 | |
| 5,235.9 | 4,610.4 | Top of Gas | | 0.00 | |
| 6,764.4 | 6,127.4 | Cameo | | 0.00 | |
| 7,262.4 | 6,625.4 | Rollins | | 0.00 | |

| Plan Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|--------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | | |
| | | +N/-S (usft) | +E/-W (usft) | Comment | |
| 500.0 | 500.0 | 0.0 | 0.0 | Start Build 3.50 | |
| 1,427.4 | 1,378.6 | -208.4 | -148.3 | Start 3452.1 hold at 1427.4 MD | |
| 1,808.3 | 1,700.0 | -375.0 | -266.8 | Surface Casing | |
| 4,879.6 | 4,291.4 | -1,718.0 | -1,222.4 | Start Drop -3.50 | |
| 5,807.0 | 5,170.0 | -1,926.4 | -1,370.7 | Back to Vertical | |
| 5,807.0 | 5,170.0 | -1,926.4 | -1,370.7 | Start 1755.0 hold at 5807.0 MD | |
| 7,562.0 | 6,925.0 | -1,926.4 | -1,370.7 | TD at 7562.0 | |



Well Name: BAT 32B-08-07-95
Surface Location: Tompkins
North American Datum 1983, US State Plane 1983, Colorado Central Zone
Ground Elevation: 5532.0
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1602241.44 2290286.50 39° 27' 35.868 N 108° 0' 50.258 W
Xtreme 15 BAT 32B-08-07-95 @ 5547.4usft (Xtreme 15)



Azimuths to True North
Magnetic North: 9.98°
Magnetic Field
Strength: 51936.6snT
Dip Angle: 65.63°
Date: 5/19/2014
Model: IGRF2010

Tompkins
BAT 32B-08-07-95
Design #1
20:55, May 20 2014

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape |
|------------------|--------|---------|---------|------------|------------|------------------|-----------------|---------------------------------|
| BAT 32B-08-07-95 | 4330.0 | -1926.4 | -1370.7 | 1600353.67 | 2288863.03 | 39° 27' 16.828 N | 108° 1' 7.734 W | Rectangle (Sides: L40.0 W100.0) |

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Target |
|-----|--------|-------|--------|--------|---------|---------|------|--------|--------|--------|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 1427.4 | 32.46 | 215.43 | 1378.6 | -208.4 | -148.3 | 3.50 | 215.43 | 255.8 | |
| 4 | 4879.6 | 32.46 | 215.43 | 4291.4 | -1718.0 | -1222.4 | 0.00 | 0.00 | 2108.5 | |
| 5 | 5807.0 | 0.00 | 0.00 | 5170.0 | -1926.4 | -1370.7 | 3.50 | 180.00 | 2364.3 | |
| 6 | 7562.0 | 0.00 | 0.00 | 6925.0 | -1926.4 | -1370.7 | 0.00 | 0.00 | 2364.3 | |

ANNOTATIONS

| TVD | MD | Annotation |
|--------|--------|--------------------------------|
| 500.0 | 500.0 | Start Build 3.50 |
| 1378.6 | 1427.4 | Start 3452.1 hold at 1427.4 MD |
| 1700.0 | 1808.3 | Surface Casing |
| 4291.4 | 4879.6 | Start Drop -3.50 |
| 5170.0 | 5807.0 | Back to Vertical |
| 5170.0 | 5807.0 | Start 1755.0 hold at 5807.0 MD |
| 6925.0 | 7562.0 | TD at 7562.0 |

FORMATION TOP DETAILS

| TVDPath | MDPath | Formation | DipAngle | DipDir |
|---------|--------|---------------|----------|--------|
| 3579.4 | 4035.7 | Williams Fork | 0.00 | |
| 4610.4 | 5235.9 | Top of Gas | 0.00 | |
| 6127.4 | 6764.4 | Cameo | 0.00 | |
| 6625.4 | 7262.4 | Rollins | 0.00 | |

