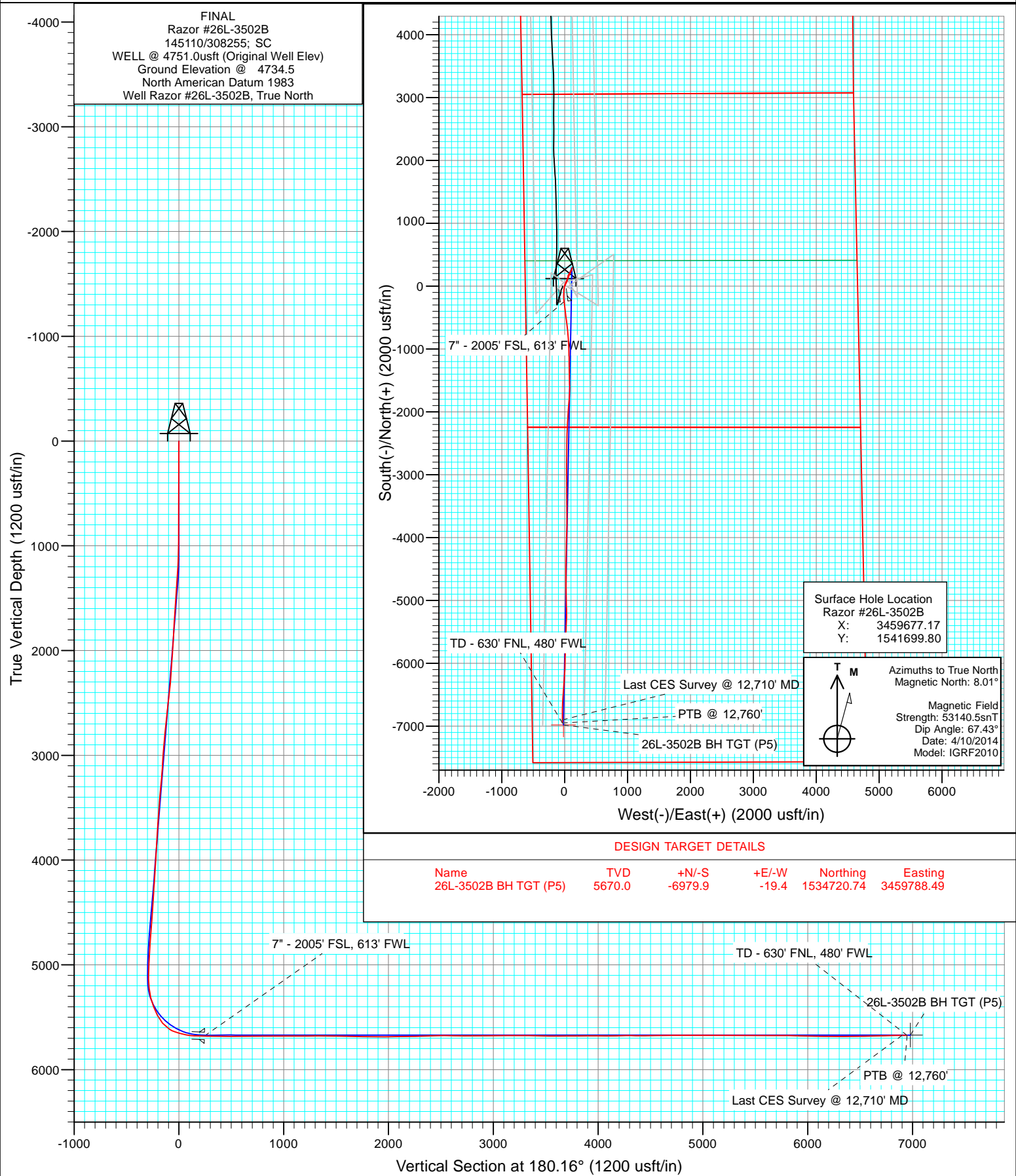


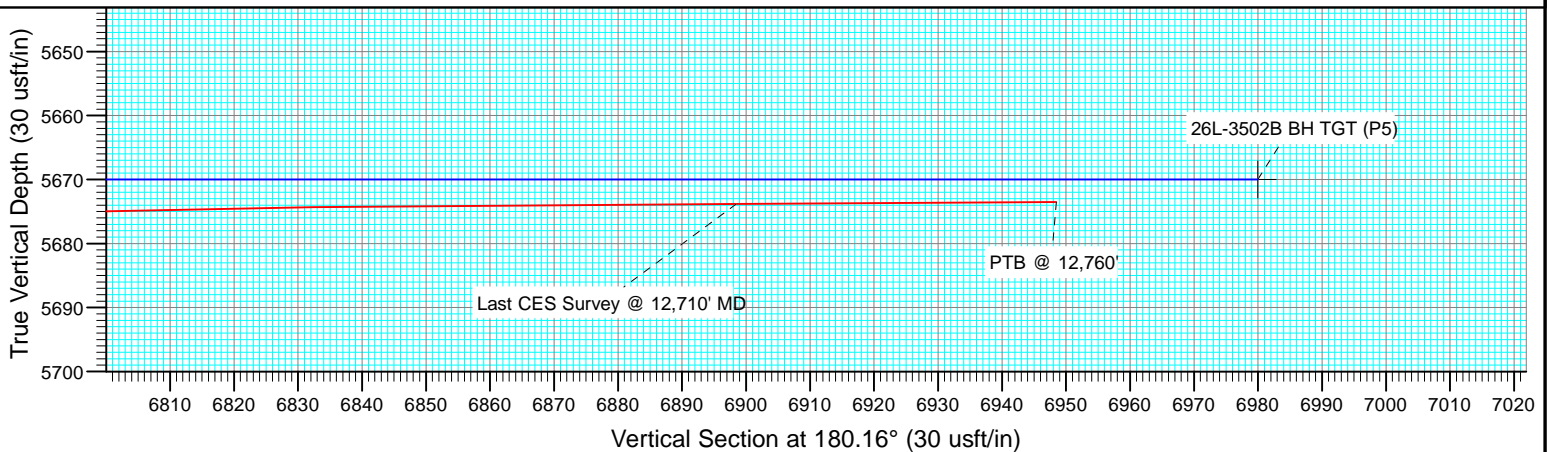
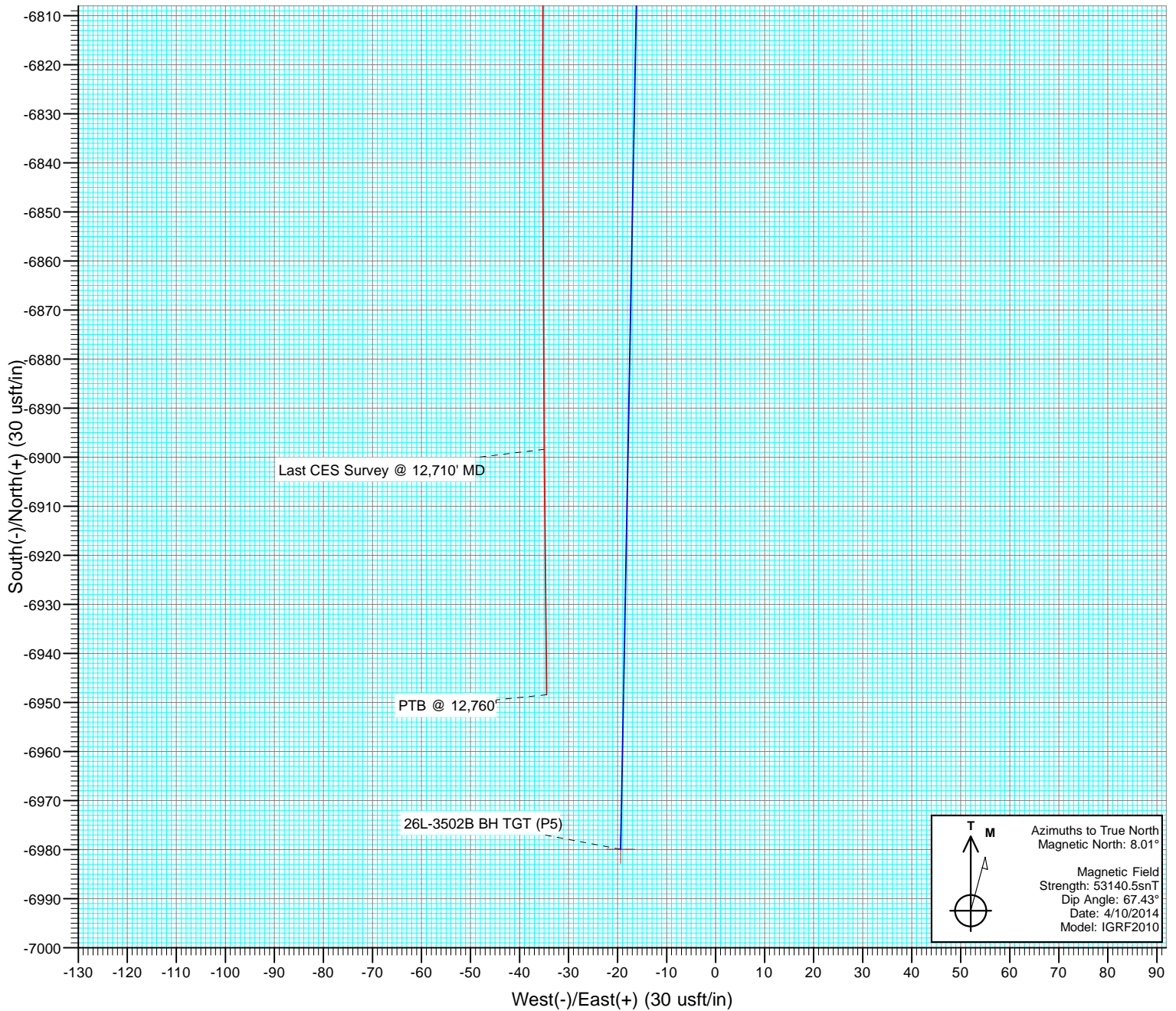


Project: Weld County, CO
 Site: S26-T10N-R58W
 Well: Razor #26L-3502B
 Wellbore: HZ
 Design: FINAL





Project: Weld County, CO
Site: S26-T10N-R58W
Well: Razor #26L-3502B
Wellbore: HZ
Design: FINAL



Survey Report

| | | | |
|------------------|-------------------------------|-------------------------------------|--|
| Company: | Whiting Petroleum Corporation | Local Co-ordinate Reference: | Well Razor #26L-3502B |
| Project: | Weld County, CO | TVD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Site: | S26-T10N-R58W | MD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Well: | Razor #26L-3502B | North Reference: | True |
| Wellbore: | HZ | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL | Database: | USA EDM 5000 Multi Users DB |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Weld County, CO | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| | | | | | |
|-----------------------|----------|---------------|-------------------|-------------------|-------------|
| Site | | S26-T10N-R58W | | | |
| Site Position: | | Northing: | 1,541,774.28 usft | Latitude: | 40.808739 |
| From: | Lat/Long | Easting: | 3,459,642.55 usft | Longitude: | -103.839531 |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | 1.07 ° |

| | | | | | | |
|----------------------|------------------|----------|---------------------|-------------------|---------------|--------------|
| Well | Razor #26L-3502B | | | | | |
| Well Position | +N/-S | 0.0 usft | Northing: | 1,541,699.80 usft | Latitude: | 40.808533 |
| | +E/-W | 0.0 usft | Easting: | 3,459,677.17 usft | Longitude: | -103.839411 |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | usft | Ground Level: | 4,734.5 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | HZ | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 4/10/2014 | 8.00 | 67.43 | 53,141 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|-----|
| Design | FINAL | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) | |
| | 0.0 | 0.0 | 0.0 | 180.16 | |

| | | | | | |
|-----------------------|------------------|--------------------------|------------------|--------------------|--|
| Survey Program | Date | 5/2/2014 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 507.0 | 12,760.0 | Survey #1 (HZ) | ISCWSA MWD | MWD - ISCWSA | |

| | | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|-------------------------------|----------------------------|------------------------------|--|
| Survey | | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usf) | Build Rate (°/100u) | Formations / Comments | |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | | |
| 507.0 | 0.44 | 346.16 | 507.0 | 1.9 | -0.5 | -1.9 | 0.09 | 0.09 | | |
| 965.0 | 0.53 | 92.03 | 965.0 | 3.5 | 1.2 | -3.5 | 0.17 | 0.02 | | |
| 1,056.0 | 1.14 | 17.97 | 1,056.0 | 4.4 | 1.9 | -4.4 | 1.23 | 0.67 | | |
| 1,148.0 | 2.64 | 24.56 | 1,147.9 | 7.2 | 3.1 | -7.2 | 1.64 | 1.63 | | |
| 1,239.0 | 4.44 | 23.45 | 1,238.7 | 12.3 | 5.4 | -12.3 | 1.98 | 1.98 | | |
| 1,740.0 | 4.04 | 29.32 | 1,738.4 | 45.5 | 21.7 | -45.5 | 0.12 | -0.08 | | |
| 1,853.0 | 3.08 | 24.53 | 1,851.2 | 51.7 | 24.9 | -51.8 | 0.89 | -0.85 | | |
| 1,944.0 | 3.43 | 24.17 | 1,942.0 | 56.4 | 27.1 | -56.5 | 0.39 | 0.38 | | |
| 2,036.0 | 5.14 | 28.43 | 2,033.7 | 62.6 | 30.2 | -62.6 | 1.89 | 1.86 | | |
| 2,127.0 | 4.35 | 23.65 | 2,124.4 | 69.3 | 33.5 | -69.4 | 0.97 | -0.87 | | |
| 2,219.0 | 3.74 | 25.12 | 2,216.2 | 75.2 | 36.2 | -75.3 | 0.67 | -0.66 | | |
| 2,310.0 | 5.32 | 24.72 | 2,306.9 | 81.7 | 39.2 | -81.8 | 1.74 | 1.74 | | |

Survey Report

| | | | |
|------------------|-------------------------------|-------------------------------------|--|
| Company: | Whiting Petroleum Corporation | Local Co-ordinate Reference: | Well Razor #26L-3502B |
| Project: | Weld County, CO | TVD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Site: | S26-T10N-R58W | MD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Well: | Razor #26L-3502B | North Reference: | True |
| Wellbore: | HZ | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL | Database: | USA EDM 5000 Multi Users DB |

| Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|---------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usf) | Build Rate (°/100u) | Formations / Comments |
| 2,402.0 | 6.77 | 15.94 | 2,398.4 | 90.8 | 42.5 | -90.9 | 1.86 | 1.58 | |
| 2,493.0 | 6.64 | 14.07 | 2,488.8 | 101.1 | 45.2 | -101.2 | 0.28 | -0.14 | |
| 2,584.0 | 6.42 | 11.42 | 2,579.2 | 111.2 | 47.5 | -111.3 | 0.41 | -0.24 | |
| 2,676.0 | 5.89 | 10.94 | 2,670.7 | 120.9 | 49.4 | -121.0 | 0.58 | -0.58 | |
| 2,767.0 | 5.41 | 8.39 | 2,761.2 | 129.7 | 50.9 | -129.8 | 0.60 | -0.53 | |
| 2,858.0 | 5.98 | 14.90 | 2,851.8 | 138.5 | 52.8 | -138.7 | 0.95 | 0.63 | |
| 2,950.0 | 4.57 | 3.93 | 2,943.4 | 146.8 | 54.2 | -146.9 | 1.88 | -1.53 | |
| 3,041.0 | 3.03 | 352.19 | 3,034.2 | 152.8 | 54.2 | -152.9 | 1.89 | -1.69 | |
| 3,133.0 | 4.09 | 0.95 | 3,126.0 | 158.5 | 53.9 | -158.6 | 1.29 | 1.15 | |
| 3,225.0 | 5.10 | 11.56 | 3,217.7 | 165.8 | 54.8 | -165.9 | 1.43 | 1.10 | |
| 3,316.0 | 5.19 | 30.32 | 3,308.3 | 173.3 | 57.7 | -173.4 | 1.84 | 0.10 | |
| 3,408.0 | 5.54 | 33.16 | 3,399.9 | 180.6 | 62.2 | -180.8 | 0.48 | 0.38 | |
| 3,499.0 | 5.58 | 31.22 | 3,490.5 | 188.1 | 66.9 | -188.2 | 0.21 | 0.04 | |
| 3,590.0 | 5.23 | 34.56 | 3,581.1 | 195.3 | 71.5 | -195.5 | 0.52 | -0.38 | |
| 3,682.0 | 4.88 | 30.59 | 3,672.8 | 202.1 | 75.9 | -202.3 | 0.54 | -0.38 | |
| 3,773.0 | 4.31 | 33.47 | 3,763.5 | 208.3 | 79.7 | -208.5 | 0.68 | -0.63 | |
| 3,864.0 | 2.99 | 41.13 | 3,854.3 | 212.9 | 83.2 | -213.1 | 1.54 | -1.45 | |
| 3,956.0 | 3.96 | 31.47 | 3,946.1 | 217.4 | 86.4 | -217.7 | 1.23 | 1.05 | |
| 4,048.0 | 3.43 | 29.24 | 4,037.9 | 222.5 | 89.4 | -222.8 | 0.60 | -0.58 | |
| 4,139.0 | 4.44 | 20.19 | 4,128.7 | 228.2 | 92.0 | -228.5 | 1.30 | 1.11 | |
| 4,231.0 | 5.05 | 30.37 | 4,220.4 | 235.0 | 95.3 | -235.3 | 1.13 | 0.66 | |
| 4,323.0 | 3.43 | 29.08 | 4,312.1 | 240.9 | 98.6 | -241.2 | 1.76 | -1.76 | |
| 4,414.0 | 3.82 | 30.36 | 4,402.9 | 245.9 | 101.5 | -246.2 | 0.44 | 0.43 | |
| 4,506.0 | 5.63 | 41.27 | 4,494.6 | 252.0 | 106.0 | -252.3 | 2.19 | 1.97 | |
| 4,597.0 | 5.67 | 26.34 | 4,585.2 | 259.4 | 111.0 | -259.7 | 1.61 | 0.04 | |
| 4,688.0 | 4.57 | 17.20 | 4,675.8 | 266.9 | 114.0 | -267.2 | 1.50 | -1.21 | |
| 4,780.0 | 3.78 | 13.11 | 4,767.6 | 273.3 | 115.8 | -273.6 | 0.92 | -0.86 | |
| 4,871.0 | 2.99 | 4.61 | 4,858.4 | 278.6 | 116.7 | -278.9 | 1.03 | -0.87 | |
| 4,963.0 | 2.59 | 3.34 | 4,950.3 | 283.1 | 117.0 | -283.4 | 0.44 | -0.43 | |
| 5,055.0 | 2.55 | 2.10 | 5,042.2 | 287.2 | 117.2 | -287.5 | 0.07 | -0.04 | |
| 5,146.0 | 0.62 | 6.96 | 5,133.2 | 289.7 | 117.3 | -290.0 | 2.12 | -2.12 | |
| 5,237.0 | 7.38 | 188.22 | 5,224.0 | 284.4 | 116.5 | -284.7 | 8.79 | 7.43 | |
| 5,328.0 | 14.51 | 197.43 | 5,313.2 | 267.7 | 112.3 | -268.0 | 8.04 | 7.84 | |
| 5,419.0 | 21.85 | 202.59 | 5,399.6 | 241.2 | 102.3 | -241.4 | 8.25 | 8.07 | |
| 5,510.0 | 30.15 | 204.63 | 5,481.4 | 204.7 | 86.3 | -204.9 | 9.17 | 9.12 | |
| 5,603.0 | 42.33 | 206.07 | 5,556.2 | 155.1 | 62.7 | -155.3 | 13.13 | 13.10 | |
| 5,695.0 | 59.56 | 204.14 | 5,614.0 | 90.6 | 32.6 | -90.7 | 18.80 | 18.73 | |
| 5,726.0 | 66.55 | 202.59 | 5,628.0 | 65.3 | 21.7 | -65.3 | 22.98 | 22.55 | |
| 5,756.0 | 70.95 | 200.16 | 5,638.9 | 39.2 | 11.5 | -39.3 | 16.49 | 14.67 | |
| 5,786.0 | 73.70 | 197.84 | 5,648.0 | 12.2 | 2.2 | -12.2 | 11.76 | 9.17 | |
| 5,817.0 | 75.70 | 192.53 | 5,656.2 | -16.6 | -5.6 | 16.6 | 17.74 | 6.45 | |
| 5,846.0 | 76.88 | 186.76 | 5,663.1 | -44.4 | -10.3 | 44.4 | 19.75 | 4.07 | |
| 5,876.0 | 78.99 | 182.82 | 5,669.4 | -73.6 | -12.8 | 73.7 | 14.64 | 7.03 | |
| 5,907.0 | 83.21 | 181.42 | 5,674.1 | -104.2 | -13.9 | 104.3 | 14.33 | 13.61 | |
| 5,937.0 | 87.56 | 181.06 | 5,676.6 | -134.1 | -14.5 | 134.1 | 14.55 | 14.50 | |
| 5,968.0 | 89.23 | 178.71 | 5,677.4 | -165.1 | -14.5 | 165.1 | 9.30 | 5.39 | |
| 6,008.0 | 88.97 | 174.23 | 5,678.1 | -205.0 | -12.0 | 205.0 | 11.22 | -0.65 | |
| 6,084.0 | 88.22 | 172.23 | 5,679.9 | -280.4 | -3.1 | 280.4 | 2.81 | -0.99 | |
| 6,179.0 | 88.70 | 173.23 | 5,682.5 | -374.6 | 9.0 | 374.6 | 1.17 | 0.51 | |
| 6,274.0 | 90.59 | 173.56 | 5,683.1 | -469.0 | 19.9 | 468.9 | 2.02 | 1.99 | |
| 6,369.0 | 90.64 | 173.32 | 5,682.0 | -563.4 | 30.7 | 563.3 | 0.26 | 0.05 | |
| 6,464.0 | 90.37 | 172.86 | 5,681.2 | -657.7 | 42.2 | 657.6 | 0.56 | -0.28 | |
| 6,558.0 | 90.20 | 174.62 | 5,680.7 | -751.1 | 52.4 | 751.0 | 1.88 | -0.18 | |

Survey Report

| | | | |
|------------------|-------------------------------|-------------------------------------|--|
| Company: | Whiting Petroleum Corporation | Local Co-ordinate Reference: | Well Razor #26L-3502B |
| Project: | Weld County, CO | TVD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Site: | S26-T10N-R58W | MD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Well: | Razor #26L-3502B | North Reference: | True |
| Wellbore: | HZ | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL | Database: | USA EDM 5000 Multi Users DB |

| Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|---------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usf) | Build Rate (°/100u) | Formations / Comments |
| 6,653.0 | 89.71 | 176.69 | 5,680.8 | -845.8 | 59.6 | 845.7 | 2.24 | -0.52 | |
| 6,748.0 | 90.73 | 177.99 | 5,680.4 | -940.7 | 64.0 | 940.6 | 1.74 | 1.07 | |
| 6,843.0 | 90.15 | 177.24 | 5,679.7 | -1,035.6 | 68.0 | 1,035.5 | 1.00 | -0.61 | |
| 6,937.0 | 90.33 | 180.03 | 5,679.3 | -1,129.6 | 70.2 | 1,129.4 | 2.97 | 0.19 | |
| 7,032.0 | 89.71 | 178.92 | 5,679.3 | -1,224.6 | 71.1 | 1,224.4 | 1.34 | -0.65 | |
| 7,127.0 | 90.11 | 179.02 | 5,679.4 | -1,319.6 | 72.8 | 1,319.4 | 0.43 | 0.42 | |
| 7,222.0 | 89.80 | 178.34 | 5,679.5 | -1,414.6 | 75.0 | 1,414.3 | 0.79 | -0.33 | |
| 7,317.0 | 89.80 | 178.06 | 5,679.8 | -1,509.5 | 78.0 | 1,509.3 | 0.29 | 0.00 | |
| 7,412.0 | 88.22 | 179.08 | 5,681.5 | -1,604.5 | 80.3 | 1,604.2 | 1.98 | -1.66 | |
| 7,507.0 | 88.18 | 182.85 | 5,684.5 | -1,699.4 | 78.7 | 1,699.2 | 3.97 | -0.04 | |
| 7,602.0 | 89.01 | 184.32 | 5,686.8 | -1,794.2 | 72.8 | 1,794.0 | 1.78 | 0.87 | |
| 7,694.0 | 90.86 | 184.43 | 5,686.9 | -1,885.9 | 65.8 | 1,885.7 | 2.01 | 2.01 | |
| 7,787.0 | 90.73 | 184.00 | 5,685.6 | -1,978.6 | 58.9 | 1,978.5 | 0.48 | -0.14 | |
| 7,879.0 | 90.59 | 183.75 | 5,684.6 | -2,070.4 | 52.7 | 2,070.3 | 0.31 | -0.15 | |
| 7,972.0 | 90.86 | 183.03 | 5,683.4 | -2,163.3 | 47.2 | 2,163.1 | 0.83 | 0.29 | |
| 8,064.0 | 91.34 | 183.32 | 5,681.6 | -2,255.1 | 42.1 | 2,255.0 | 0.61 | 0.52 | |
| 8,156.0 | 91.43 | 180.94 | 5,679.4 | -2,347.0 | 38.7 | 2,346.9 | 2.59 | 0.10 | |
| 8,248.0 | 92.09 | 181.04 | 5,676.6 | -2,438.9 | 37.1 | 2,438.8 | 0.73 | 0.72 | |
| 8,339.0 | 89.23 | 180.89 | 5,675.5 | -2,529.9 | 35.6 | 2,529.8 | 3.15 | -3.14 | |
| 8,431.0 | 89.49 | 180.75 | 5,676.5 | -2,621.9 | 34.3 | 2,621.8 | 0.32 | 0.28 | |
| 8,522.0 | 89.71 | 180.32 | 5,677.2 | -2,712.9 | 33.4 | 2,712.8 | 0.53 | 0.24 | |
| 8,613.0 | 90.02 | 180.27 | 5,677.4 | -2,803.9 | 33.0 | 2,803.8 | 0.35 | 0.34 | |
| 8,705.0 | 90.33 | 180.58 | 5,677.1 | -2,895.9 | 32.3 | 2,895.8 | 0.48 | 0.34 | |
| 8,796.0 | 91.08 | 180.38 | 5,676.0 | -2,986.9 | 31.5 | 2,986.8 | 0.85 | 0.82 | |
| 8,888.0 | 90.20 | 179.46 | 5,675.0 | -3,078.9 | 31.6 | 3,078.8 | 1.38 | -0.96 | |
| 8,979.0 | 89.71 | 179.34 | 5,675.0 | -3,169.9 | 32.6 | 3,169.8 | 0.55 | -0.54 | |
| 9,071.0 | 89.63 | 179.57 | 5,675.6 | -3,261.9 | 33.5 | 3,261.7 | 0.26 | -0.09 | |
| 9,162.0 | 89.49 | 179.44 | 5,676.3 | -3,352.8 | 34.3 | 3,352.7 | 0.21 | -0.15 | |
| 9,253.0 | 88.92 | 179.13 | 5,677.5 | -3,443.8 | 35.4 | 3,443.7 | 0.71 | -0.63 | |
| 9,345.0 | 88.53 | 179.50 | 5,679.6 | -3,535.8 | 36.5 | 3,535.7 | 0.58 | -0.42 | |
| 9,436.0 | 90.73 | 179.93 | 5,680.2 | -3,626.8 | 36.9 | 3,626.7 | 2.46 | 2.42 | |
| 9,527.0 | 90.77 | 179.79 | 5,679.0 | -3,717.8 | 37.2 | 3,717.7 | 0.16 | 0.04 | |
| 9,619.0 | 90.24 | 179.36 | 5,678.2 | -3,809.8 | 37.9 | 3,809.7 | 0.74 | -0.58 | |
| 9,711.0 | 90.20 | 181.87 | 5,677.8 | -3,901.8 | 36.9 | 3,901.6 | 2.73 | -0.04 | |
| 9,803.0 | 89.63 | 182.45 | 5,677.9 | -3,993.7 | 33.4 | 3,993.6 | 0.88 | -0.62 | |
| 9,894.0 | 89.49 | 182.49 | 5,678.6 | -4,084.6 | 29.5 | 4,084.5 | 0.16 | -0.15 | |
| 9,986.0 | 92.00 | 182.17 | 5,677.4 | -4,176.5 | 25.7 | 4,176.4 | 2.75 | 2.73 | |
| 10,077.0 | 90.59 | 180.82 | 5,675.4 | -4,267.5 | 23.4 | 4,267.4 | 2.14 | -1.55 | |
| 10,168.0 | 89.01 | 179.72 | 5,675.7 | -4,358.5 | 22.9 | 4,358.4 | 2.12 | -1.74 | |
| 10,260.0 | 91.03 | 180.80 | 5,675.7 | -4,450.4 | 22.5 | 4,450.4 | 2.49 | 2.20 | |
| 10,351.0 | 90.55 | 180.11 | 5,674.4 | -4,541.4 | 21.8 | 4,541.4 | 0.92 | -0.53 | |
| 10,442.0 | 90.42 | 179.80 | 5,673.7 | -4,632.4 | 21.9 | 4,632.4 | 0.37 | -0.14 | |
| 10,534.0 | 90.59 | 179.33 | 5,672.8 | -4,724.4 | 22.6 | 4,724.3 | 0.54 | 0.18 | |
| 10,625.0 | 91.03 | 179.27 | 5,671.6 | -4,815.4 | 23.7 | 4,815.3 | 0.49 | 0.48 | |
| 10,717.0 | 89.19 | 178.75 | 5,671.4 | -4,907.4 | 25.3 | 4,907.3 | 2.08 | -2.00 | |
| 10,809.0 | 89.05 | 178.28 | 5,672.8 | -4,999.3 | 27.7 | 4,999.3 | 0.53 | -0.15 | |
| 10,901.0 | 89.71 | 179.04 | 5,673.8 | -5,091.3 | 29.8 | 5,091.2 | 1.09 | 0.72 | |
| 10,992.0 | 89.85 | 180.16 | 5,674.1 | -5,182.3 | 30.4 | 5,182.2 | 1.24 | 0.15 | |
| 11,083.0 | 89.89 | 180.25 | 5,674.3 | -5,273.3 | 30.1 | 5,273.2 | 0.11 | 0.04 | |
| 11,174.0 | 90.15 | 183.26 | 5,674.3 | -5,364.3 | 27.3 | 5,364.2 | 3.32 | 0.29 | |
| 11,266.0 | 89.98 | 182.79 | 5,674.2 | -5,456.1 | 22.5 | 5,456.0 | 0.54 | -0.18 | |
| 11,358.0 | 89.89 | 182.01 | 5,674.3 | -5,548.0 | 18.6 | 5,548.0 | 0.85 | -0.10 | |
| 11,449.0 | 89.98 | 181.63 | 5,674.4 | -5,639.0 | 15.7 | 5,638.9 | 0.43 | 0.10 | |

Survey Report

| | | | |
|------------------|-------------------------------|-------------------------------------|--|
| Company: | Whiting Petroleum Corporation | Local Co-ordinate Reference: | Well Razor #26L-3502B |
| Project: | Weld County, CO | TVD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Site: | S26-T10N-R58W | MD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Well: | Razor #26L-3502B | North Reference: | True |
| Wellbore: | HZ | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL | Database: | USA EDM 5000 Multi Users DB |

| Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|---------------------|---|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usf) | Build Rate (°/100u) | Formations / Comments |
| 11,541.0 | 89.76 | 181.02 | 5,674.6 | -5,731.0 | 13.6 | 5,730.9 | 0.70 | -0.24 | |
| 11,632.0 | 89.32 | 182.13 | 5,675.4 | -5,821.9 | 11.1 | 5,821.9 | 1.31 | -0.48 | |
| 11,723.0 | 88.88 | 181.39 | 5,676.8 | -5,912.9 | 8.3 | 5,912.8 | 0.95 | -0.48 | |
| 11,814.0 | 88.26 | 181.01 | 5,679.1 | -6,003.8 | 6.4 | 6,003.8 | 0.80 | -0.68 | |
| 11,905.0 | 88.44 | 181.99 | 5,681.7 | -6,094.8 | 4.0 | 6,094.7 | 1.09 | 0.20 | |
| 11,997.0 | 89.67 | 183.24 | 5,683.2 | -6,186.7 | -0.2 | 6,186.6 | 1.91 | 1.34 | |
| 12,088.0 | 90.46 | 185.42 | 5,683.1 | -6,277.4 | -7.0 | 6,277.4 | 2.55 | 0.87 | |
| 12,180.0 | 89.98 | 183.20 | 5,682.7 | -6,369.1 | -14.0 | 6,369.1 | 2.47 | -0.52 | |
| 12,271.0 | 90.24 | 184.55 | 5,682.6 | -6,459.9 | -20.1 | 6,459.9 | 1.51 | 0.29 | |
| 12,363.0 | 91.30 | 182.84 | 5,681.3 | -6,551.7 | -26.0 | 6,551.8 | 2.19 | 1.15 | |
| 12,454.0 | 91.65 | 183.09 | 5,679.0 | -6,642.6 | -30.7 | 6,642.6 | 0.47 | 0.38 | |
| 12,549.0 | 91.74 | 181.29 | 5,676.2 | -6,737.4 | -34.4 | 6,737.5 | 1.90 | 0.09 | |
| 12,644.0 | 90.51 | 179.85 | 5,674.3 | -6,832.4 | -35.3 | 6,832.5 | 1.99 | -1.29 | |
| 12,710.0 | 90.33 | 179.48 | 5,673.8 | -6,898.4 | -34.9 | 6,898.5 | 0.62 | -0.27 | Last CES Survey @ 12,710' MD |
| 12,760.0 | 90.33 | 179.48 | 5,673.5 | -6,948.4 | -34.5 | 6,948.5 | 0.00 | 0.00 | PTB @ 12,760' - TD - 630' FNL, 480' FWL |

Survey Report

| | | | |
|------------------|-------------------------------|-------------------------------------|--|
| Company: | Whiting Petroleum Corporation | Local Co-ordinate Reference: | Well Razor #26L-3502B |
| Project: | Weld County, CO | TVD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Site: | S26-T10N-R58W | MD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Well: | Razor #26L-3502B | North Reference: | True |
| Wellbore: | HZ | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL | Database: | USA EDM 5000 Multi Users DB |

| Targets | | | | | | | | | |
|--|-----------|----------|---------|----------|--------|--------------|--------------|-----------|-------------|
| Target Name | | | | | | | | | |
| - hit/miss target | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - Shape | (°) | (°) | (usft) | (usft) | (usft) | (usft) | (usft) | | |
| 26L-3502B VP (P5) | 0.00 | 1.07 | 5,049.1 | 297.9 | 116.9 | 1,541,999.80 | 3,459,788.49 | 40.809350 | -103.838989 |
| - actual wellpath misses target center by 10.4usft at 5062.2usft MD (5049.4 TVD, 287.5 N, 117.2 E) | | | | | | | | | |
| - Point | | | | | | | | | |
| 26L-3502B BH TGT | 0.00 | 1.07 | 5,675.0 | -6,979.9 | -19.4 | 1,534,720.74 | 3,459,788.49 | 40.789375 | -103.839481 |
| - actual wellpath misses target center by 35.0usft at 12760.0usft MD (5673.5 TVD, -6948.4 N, -34.5 E) | | | | | | | | | |
| - Point | | | | | | | | | |
| 26L-3502B BH TGT (P5) | 0.00 | 1.07 | 5,670.0 | -6,979.9 | -19.4 | 1,534,720.74 | 3,459,788.49 | 40.789375 | -103.839481 |
| - actual wellpath misses target center by 35.1usft at 12760.0usft MD (5673.5 TVD, -6948.4 N, -34.5 E) | | | | | | | | | |
| - Point | | | | | | | | | |
| 26L-3502B BHL | 0.00 | 1.07 | 5,675.0 | -7,479.8 | -11.6 | 1,534,221.10 | 3,459,805.61 | 40.788003 | -103.839453 |
| - actual wellpath misses target center by 531.9usft at 12760.0usft MD (5673.5 TVD, -6948.4 N, -34.5 E) | | | | | | | | | |
| - Point | | | | | | | | | |
| 26L-3502B VP | 0.00 | 1.07 | 5,054.1 | 297.9 | 116.9 | 1,541,999.80 | 3,459,788.49 | 40.809350 | -103.838989 |
| - actual wellpath misses target center by 10.2usft at 5067.2usft MD (5054.4 TVD, 287.7 N, 117.2 E) | | | | | | | | | |
| - Point | | | | | | | | | |

| Casing Points | | | | |
|-----------------------|-----------------------|--------------------------|---------------------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") |
| 6,047.0 | 5,678.9 | 7" - 2005' FSL, 613' FWL | 0 | 0 |

| Design Annotations | | | | |
|-----------------------|-----------------------|-------------------|--------------|------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 12,710.0 | 5,673.8 | -6,898.4 | -34.9 | Last CES Survey @ 12,710' MD |
| 12,760.0 | 5,673.5 | -6,948.4 | -34.5 | PTB @ 12,760' |
| 12,760.0 | 5,673.5 | -6,948.4 | -34.5 | TD - 630' FNL, 480' FWL |

Checked By: _____ Approved By: _____ Date: _____

Whiting Petroleum Corporation

Weld County, CO

S26-T10N-R58W

Razor #26L-3502B

HZ

Design: FINAL

Survey Report - Geographic

02 May, 2014

Survey Report - Geographic

| | | | |
|------------------|-------------------------------|-------------------------------------|--|
| Company: | Whiting Petroleum Corporation | Local Co-ordinate Reference: | Well Razor #26L-3502B |
| Project: | Weld County, CO | TVD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Site: | S26-T10N-R58W | MD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Well: | Razor #26L-3502B | North Reference: | True |
| Wellbore: | HZ | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL | Database: | USA EDM 5000 Multi Users DB |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Weld County, CO | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| | | | | | | | | | |
|-----------------------|----------|---------------|--------------|--------------|------------|-------------|-------------------|------|---|
| Site | | S26-T10N-R58W | | | | | | | |
| Site Position: | | Northing: | 1,541,774.28 | usft | Latitude: | 40.808739 | | | |
| From: | Lat/Long | Easting: | 3,459,642.55 | usft | Longitude: | -103.839531 | | | |
| Position Uncertainty: | | 0.0 | usft | Slot Radius: | 13-3/16 | " | Grid Convergence: | 1.07 | ° |

| Well | | Razor #26L-3502B | | | | |
|----------------------|-------|------------------|---------------------|-------------------|---------------|--------------|
| Well Position | +N/-S | 0.0 usft | Northing: | 1,541,699.80 usft | Latitude: | 40.808533 |
| | +E/-W | 0.0 usft | Easting: | 3,459,677.17 usft | Longitude: | -103.839411 |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | usft | Ground Level: | 4,734.5 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | HZ | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 4/10/2014 | 8.00 | 67.43 | 53,141 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|-----|
| Design | FINAL | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) | |
| | 0.0 | 0.0 | 0.0 | 180.16 | |

| | | | | | |
|-----------------------|------------------|--------------------------|------------------|--------------------|--|
| Survey Program | Date | 5/2/2014 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 507.0 | 12,760.0 | Survey #1 (HZ) | ISCWSA MWD | MWD - ISCWSA | |

| | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|----------------------------|---------------------------|-----------------|------------------|
| Survey | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 1,541,699.80 | 3,459,677.17 | 40.808533 | -103.839411 |
| 507.0 | 0.44 | 346.16 | 507.0 | 1.9 | -0.5 | 1,541,701.68 | 3,459,676.67 | 40.808538 | -103.839413 |
| 965.0 | 0.53 | 92.03 | 965.0 | 3.5 | 1.2 | 1,541,703.35 | 3,459,678.33 | 40.808543 | -103.839407 |
| 1,056.0 | 1.14 | 17.97 | 1,056.0 | 4.4 | 1.9 | 1,541,704.21 | 3,459,679.02 | 40.808545 | -103.839404 |
| 1,148.0 | 2.64 | 24.56 | 1,147.9 | 7.2 | 3.1 | 1,541,707.03 | 3,459,680.13 | 40.808553 | -103.839400 |
| 1,239.0 | 4.44 | 23.45 | 1,238.7 | 12.3 | 5.4 | 1,541,712.21 | 3,459,682.30 | 40.808567 | -103.839392 |
| 1,740.0 | 4.04 | 29.32 | 1,738.4 | 45.5 | 21.7 | 1,541,745.68 | 3,459,698.04 | 40.808658 | -103.839333 |
| 1,853.0 | 3.08 | 24.53 | 1,851.2 | 51.7 | 24.9 | 1,541,751.98 | 3,459,701.13 | 40.808675 | -103.839321 |
| 1,944.0 | 3.43 | 24.17 | 1,942.0 | 56.4 | 27.1 | 1,541,756.72 | 3,459,703.17 | 40.808688 | -103.839313 |
| 2,036.0 | 5.14 | 28.43 | 2,033.7 | 62.6 | 30.2 | 1,541,762.92 | 3,459,706.15 | 40.808705 | -103.839302 |
| 2,127.0 | 4.35 | 23.65 | 2,124.4 | 69.3 | 33.5 | 1,541,769.72 | 3,459,709.34 | 40.808723 | -103.839290 |
| 2,219.0 | 3.74 | 25.12 | 2,216.2 | 75.2 | 36.2 | 1,541,775.68 | 3,459,711.91 | 40.808739 | -103.839281 |

Survey Report - Geographic

| | | | |
|------------------|-------------------------------|-------------------------------------|--|
| Company: | Whiting Petroleum Corporation | Local Co-ordinate Reference: | Well Razor #26L-3502B |
| Project: | Weld County, CO | TVD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Site: | S26-T10N-R58W | MD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Well: | Razor #26L-3502B | North Reference: | True |
| Wellbore: | HZ | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL | Database: | USA EDM 5000 Multi Users DB |

| Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------|-------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude | |
| 2,310.0 | 5.32 | 24.72 | 2,306.9 | 81.7 | 39.2 | 1,541,782.26 | 3,459,714.81 | 40.808757 | -103.839270 | |
| 2,402.0 | 6.77 | 15.94 | 2,398.4 | 90.8 | 42.5 | 1,541,791.41 | 3,459,717.91 | 40.808782 | -103.839258 | |
| 2,493.0 | 6.64 | 14.07 | 2,488.8 | 101.1 | 45.2 | 1,541,801.72 | 3,459,720.47 | 40.808810 | -103.839248 | |
| 2,584.0 | 6.42 | 11.42 | 2,579.2 | 111.2 | 47.5 | 1,541,811.85 | 3,459,722.57 | 40.808838 | -103.839240 | |
| 2,676.0 | 5.89 | 10.94 | 2,670.7 | 120.9 | 49.4 | 1,541,821.56 | 3,459,724.30 | 40.808865 | -103.839233 | |
| 2,767.0 | 5.41 | 8.39 | 2,761.2 | 129.7 | 50.9 | 1,541,830.42 | 3,459,725.65 | 40.808889 | -103.839227 | |
| 2,858.0 | 5.98 | 14.90 | 2,851.8 | 138.5 | 52.8 | 1,541,839.27 | 3,459,727.33 | 40.808913 | -103.839221 | |
| 2,950.0 | 4.57 | 3.93 | 2,943.4 | 146.8 | 54.2 | 1,541,847.59 | 3,459,728.65 | 40.808936 | -103.839215 | |
| 3,041.0 | 3.03 | 352.19 | 3,034.2 | 152.8 | 54.2 | 1,541,853.59 | 3,459,728.46 | 40.808952 | -103.839216 | |
| 3,133.0 | 4.09 | 0.95 | 3,126.0 | 158.5 | 53.9 | 1,541,859.27 | 3,459,728.08 | 40.808968 | -103.839217 | |
| 3,225.0 | 5.10 | 11.56 | 3,217.7 | 165.8 | 54.8 | 1,541,866.57 | 3,459,728.82 | 40.808988 | -103.839213 | |
| 3,316.0 | 5.19 | 30.32 | 3,308.3 | 173.3 | 57.7 | 1,541,874.14 | 3,459,731.56 | 40.809009 | -103.839203 | |
| 3,408.0 | 5.54 | 33.16 | 3,399.9 | 180.6 | 62.2 | 1,541,881.53 | 3,459,735.96 | 40.809029 | -103.839187 | |
| 3,499.0 | 5.58 | 31.22 | 3,490.5 | 188.1 | 66.9 | 1,541,889.08 | 3,459,740.51 | 40.809049 | -103.839170 | |
| 3,590.0 | 5.23 | 34.56 | 3,581.1 | 195.3 | 71.5 | 1,541,896.37 | 3,459,745.02 | 40.809069 | -103.839153 | |
| 3,682.0 | 4.88 | 30.59 | 3,672.8 | 202.1 | 75.9 | 1,541,903.27 | 3,459,749.26 | 40.809088 | -103.839137 | |
| 3,773.0 | 4.31 | 33.47 | 3,763.5 | 208.3 | 79.7 | 1,541,909.52 | 3,459,753.00 | 40.809105 | -103.839123 | |
| 3,864.0 | 2.99 | 41.13 | 3,854.3 | 212.9 | 83.2 | 1,541,914.23 | 3,459,756.36 | 40.809117 | -103.839111 | |
| 3,956.0 | 3.96 | 31.47 | 3,946.1 | 217.4 | 86.4 | 1,541,918.80 | 3,459,759.51 | 40.809130 | -103.839099 | |
| 4,048.0 | 3.43 | 29.24 | 4,037.9 | 222.5 | 89.4 | 1,541,923.97 | 3,459,762.42 | 40.809144 | -103.839088 | |
| 4,139.0 | 4.44 | 20.19 | 4,128.7 | 228.2 | 92.0 | 1,541,929.70 | 3,459,764.86 | 40.809159 | -103.839079 | |
| 4,231.0 | 5.05 | 30.37 | 4,220.4 | 235.0 | 95.3 | 1,541,936.59 | 3,459,768.01 | 40.809178 | -103.839067 | |
| 4,323.0 | 3.43 | 29.08 | 4,312.1 | 240.9 | 98.6 | 1,541,942.56 | 3,459,771.28 | 40.809194 | -103.839055 | |
| 4,414.0 | 3.82 | 30.36 | 4,402.9 | 245.9 | 101.5 | 1,541,947.60 | 3,459,774.04 | 40.809208 | -103.839045 | |
| 4,506.0 | 5.63 | 41.27 | 4,494.6 | 252.0 | 106.0 | 1,541,953.72 | 3,459,778.45 | 40.809225 | -103.839028 | |
| 4,597.0 | 5.67 | 26.34 | 4,585.2 | 259.4 | 111.0 | 1,541,961.20 | 3,459,783.25 | 40.809245 | -103.839010 | |
| 4,688.0 | 4.57 | 17.20 | 4,675.8 | 266.9 | 114.0 | 1,541,968.75 | 3,459,786.18 | 40.809265 | -103.838999 | |
| 4,780.0 | 3.78 | 13.11 | 4,767.6 | 273.3 | 115.8 | 1,541,975.23 | 3,459,787.83 | 40.809283 | -103.838993 | |
| 4,871.0 | 2.99 | 4.61 | 4,858.4 | 278.6 | 116.7 | 1,541,980.54 | 3,459,788.60 | 40.809298 | -103.838990 | |
| 4,963.0 | 2.59 | 3.34 | 4,950.3 | 283.1 | 117.0 | 1,541,985.01 | 3,459,788.83 | 40.809310 | -103.838989 | |
| 5,055.0 | 2.55 | 2.10 | 5,042.2 | 287.2 | 117.2 | 1,541,989.13 | 3,459,788.95 | 40.809321 | -103.838988 | |
| 5,146.0 | 0.62 | 6.96 | 5,133.2 | 289.7 | 117.3 | 1,541,991.65 | 3,459,789.04 | 40.809328 | -103.838987 | |
| 5,237.0 | 7.38 | 188.22 | 5,224.0 | 284.4 | 116.5 | 1,541,986.33 | 3,459,788.36 | 40.809314 | -103.838990 | |
| 5,328.0 | 14.51 | 197.43 | 5,313.2 | 267.7 | 112.3 | 1,541,969.57 | 3,459,784.42 | 40.809268 | -103.839006 | |
| 5,419.0 | 21.85 | 202.59 | 5,399.6 | 241.2 | 102.3 | 1,541,942.84 | 3,459,774.98 | 40.809195 | -103.839042 | |
| 5,510.0 | 30.15 | 204.63 | 5,481.4 | 204.7 | 86.3 | 1,541,906.07 | 3,459,759.61 | 40.809095 | -103.839100 | |
| 5,603.0 | 42.33 | 206.07 | 5,556.2 | 155.1 | 62.7 | 1,541,856.09 | 3,459,736.96 | 40.808959 | -103.839185 | |
| 5,695.0 | 59.56 | 204.14 | 5,614.0 | 90.6 | 32.6 | 1,541,791.03 | 3,459,708.11 | 40.808782 | -103.839293 | |
| 5,726.0 | 66.55 | 202.59 | 5,628.0 | 65.3 | 21.7 | 1,541,765.47 | 3,459,697.64 | 40.808712 | -103.839333 | |
| 5,756.0 | 70.95 | 200.16 | 5,638.9 | 39.2 | 11.5 | 1,541,739.25 | 3,459,687.95 | 40.808641 | -103.839370 | |
| 5,786.0 | 73.70 | 197.84 | 5,648.0 | 12.2 | 2.2 | 1,541,712.06 | 3,459,679.16 | 40.808566 | -103.839403 | |
| 5,817.0 | 75.70 | 192.53 | 5,656.2 | -16.6 | -5.6 | 1,541,683.07 | 3,459,671.88 | 40.808487 | -103.839431 | |
| 5,846.0 | 76.88 | 186.76 | 5,663.1 | -44.4 | -10.3 | 1,541,655.23 | 3,459,667.69 | 40.808411 | -103.839449 | |
| 5,876.0 | 78.99 | 182.82 | 5,669.4 | -73.6 | -12.8 | 1,541,625.96 | 3,459,665.79 | 40.808331 | -103.839457 | |
| 5,907.0 | 83.21 | 181.42 | 5,674.1 | -104.2 | -13.9 | 1,541,595.35 | 3,459,665.23 | 40.808247 | -103.839461 | |
| 5,937.0 | 87.56 | 181.06 | 5,676.6 | -134.1 | -14.5 | 1,541,565.45 | 3,459,665.15 | 40.808165 | -103.839464 | |
| 5,968.0 | 89.23 | 178.71 | 5,677.4 | -165.1 | -14.5 | 1,541,534.47 | 3,459,665.79 | 40.808080 | -103.839464 | |
| 6,008.0 | 88.97 | 174.23 | 5,678.1 | -205.0 | -12.0 | 1,541,494.62 | 3,459,669.00 | 40.807970 | -103.839455 | |
| 6,084.0 | 88.22 | 172.23 | 5,679.9 | -280.4 | -3.1 | 1,541,419.35 | 3,459,679.36 | 40.807763 | -103.839422 | |
| 6,179.0 | 88.70 | 173.23 | 5,682.5 | -374.6 | 9.0 | 1,541,325.40 | 3,459,693.14 | 40.807505 | -103.839379 | |
| 6,274.0 | 90.59 | 173.56 | 5,683.1 | -469.0 | 19.9 | 1,541,231.25 | 3,459,705.83 | 40.807246 | -103.839339 | |
| 6,369.0 | 90.64 | 173.32 | 5,682.0 | -563.4 | 30.7 | 1,541,137.10 | 3,459,718.45 | 40.806987 | -103.839300 | |
| 6,464.0 | 90.37 | 172.86 | 5,681.2 | -657.7 | 42.2 | 1,541,043.03 | 3,459,731.65 | 40.806728 | -103.839259 | |
| 6,558.0 | 90.20 | 174.62 | 5,680.7 | -751.1 | 52.4 | 1,540,949.80 | 3,459,743.64 | 40.806471 | -103.839222 | |
| 6,653.0 | 89.71 | 176.69 | 5,680.8 | -845.8 | 59.6 | 1,540,855.23 | 3,459,752.61 | 40.806211 | -103.839196 | |

Survey Report - Geographic

| | | | |
|------------------|-------------------------------|-------------------------------------|--|
| Company: | Whiting Petroleum Corporation | Local Co-ordinate Reference: | Well Razor #26L-3502B |
| Project: | Weld County, CO | TVD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Site: | S26-T10N-R58W | MD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Well: | Razor #26L-3502B | North Reference: | True |
| Wellbore: | HZ | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL | Database: | USA EDM 5000 Multi Users DB |

| Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------|-------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 6,748.0 | 90.73 | 177.99 | 5,680.4 | -940.7 | 64.0 | 1,540,760.43 | 3,459,758.80 | 40.805951 | -103.839180 |
| 6,843.0 | 90.15 | 177.24 | 5,679.7 | -1,035.6 | 68.0 | 1,540,665.61 | 3,459,764.53 | 40.805690 | -103.839166 |
| 6,937.0 | 90.33 | 180.03 | 5,679.3 | -1,129.6 | 70.2 | 1,540,571.71 | 3,459,768.52 | 40.805432 | -103.839158 |
| 7,032.0 | 89.71 | 178.92 | 5,679.3 | -1,224.6 | 71.1 | 1,540,476.75 | 3,459,771.17 | 40.805172 | -103.839154 |
| 7,127.0 | 90.11 | 179.02 | 5,679.4 | -1,319.6 | 72.8 | 1,540,381.81 | 3,459,774.66 | 40.804911 | -103.839148 |
| 7,222.0 | 89.80 | 178.34 | 5,679.5 | -1,414.6 | 75.0 | 1,540,286.89 | 3,459,778.63 | 40.804650 | -103.839140 |
| 7,317.0 | 89.80 | 178.06 | 5,679.8 | -1,509.5 | 78.0 | 1,540,192.01 | 3,459,783.39 | 40.804390 | -103.839130 |
| 7,412.0 | 88.22 | 179.08 | 5,681.5 | -1,604.5 | 80.3 | 1,540,097.12 | 3,459,787.54 | 40.804129 | -103.839121 |
| 7,507.0 | 88.18 | 182.85 | 5,684.5 | -1,699.4 | 78.7 | 1,540,002.19 | 3,459,787.71 | 40.803869 | -103.839127 |
| 7,602.0 | 89.01 | 184.32 | 5,686.8 | -1,794.2 | 72.8 | 1,539,907.31 | 3,459,783.55 | 40.803608 | -103.839148 |
| 7,694.0 | 90.86 | 184.43 | 5,686.9 | -1,885.9 | 65.8 | 1,539,815.47 | 3,459,778.25 | 40.803357 | -103.839174 |
| 7,787.0 | 90.73 | 184.00 | 5,685.6 | -1,978.6 | 58.9 | 1,539,722.62 | 3,459,773.16 | 40.803102 | -103.839198 |
| 7,879.0 | 90.59 | 183.75 | 5,684.6 | -2,070.4 | 52.7 | 1,539,630.73 | 3,459,768.66 | 40.802850 | -103.839221 |
| 7,972.0 | 90.86 | 183.03 | 5,683.4 | -2,163.3 | 47.2 | 1,539,537.82 | 3,459,764.90 | 40.802595 | -103.839241 |
| 8,064.0 | 91.34 | 183.32 | 5,681.6 | -2,255.1 | 42.1 | 1,539,445.90 | 3,459,761.53 | 40.802343 | -103.839259 |
| 8,156.0 | 91.43 | 180.94 | 5,679.4 | -2,347.0 | 38.7 | 1,539,353.94 | 3,459,759.83 | 40.802091 | -103.839271 |
| 8,248.0 | 92.09 | 181.04 | 5,676.6 | -2,438.9 | 37.1 | 1,539,261.99 | 3,459,759.96 | 40.801839 | -103.839277 |
| 8,339.0 | 89.23 | 180.89 | 5,675.5 | -2,529.9 | 35.6 | 1,539,171.00 | 3,459,760.13 | 40.801589 | -103.839283 |
| 8,431.0 | 89.49 | 180.75 | 5,676.5 | -2,621.9 | 34.3 | 1,539,079.01 | 3,459,760.54 | 40.801337 | -103.839287 |
| 8,522.0 | 89.71 | 180.32 | 5,677.2 | -2,712.9 | 33.4 | 1,538,988.02 | 3,459,761.39 | 40.801087 | -103.839291 |
| 8,613.0 | 90.02 | 180.27 | 5,677.4 | -2,803.9 | 33.0 | 1,538,897.03 | 3,459,762.63 | 40.800837 | -103.839292 |
| 8,705.0 | 90.33 | 180.58 | 5,677.1 | -2,895.9 | 32.3 | 1,538,805.03 | 3,459,763.67 | 40.800585 | -103.839295 |
| 8,796.0 | 91.08 | 180.38 | 5,676.0 | -2,986.9 | 31.5 | 1,538,714.04 | 3,459,764.61 | 40.800335 | -103.839297 |
| 8,888.0 | 90.20 | 179.46 | 5,675.0 | -3,078.9 | 31.6 | 1,538,622.07 | 3,459,766.46 | 40.800082 | -103.839297 |
| 8,979.0 | 89.71 | 179.34 | 5,675.0 | -3,169.9 | 32.6 | 1,538,531.11 | 3,459,769.12 | 40.799833 | -103.839294 |
| 9,071.0 | 89.63 | 179.57 | 5,675.6 | -3,261.9 | 33.5 | 1,538,439.15 | 3,459,771.72 | 40.799580 | -103.839290 |
| 9,162.0 | 89.49 | 179.44 | 5,676.3 | -3,352.8 | 34.3 | 1,538,348.19 | 3,459,774.21 | 40.799330 | -103.839288 |
| 9,253.0 | 88.92 | 179.13 | 5,677.5 | -3,443.8 | 35.4 | 1,538,257.24 | 3,459,777.05 | 40.799081 | -103.839283 |
| 9,345.0 | 88.53 | 179.50 | 5,679.6 | -3,535.8 | 36.5 | 1,538,165.31 | 3,459,779.87 | 40.798828 | -103.839279 |
| 9,436.0 | 90.73 | 179.93 | 5,680.2 | -3,626.8 | 36.9 | 1,538,074.34 | 3,459,782.02 | 40.798578 | -103.839278 |
| 9,527.0 | 90.77 | 179.79 | 5,679.0 | -3,717.8 | 37.2 | 1,537,983.37 | 3,459,783.95 | 40.798329 | -103.839277 |
| 9,619.0 | 90.24 | 179.36 | 5,678.2 | -3,809.8 | 37.9 | 1,537,891.40 | 3,459,786.36 | 40.798076 | -103.839275 |
| 9,711.0 | 90.20 | 181.87 | 5,677.8 | -3,901.8 | 36.9 | 1,537,799.41 | 3,459,787.09 | 40.797824 | -103.839278 |
| 9,803.0 | 89.63 | 182.45 | 5,677.9 | -3,993.7 | 33.4 | 1,537,707.43 | 3,459,785.35 | 40.797571 | -103.839291 |
| 9,894.0 | 89.49 | 182.49 | 5,678.6 | -4,084.6 | 29.5 | 1,537,616.46 | 3,459,783.13 | 40.797322 | -103.839305 |
| 9,986.0 | 92.00 | 182.17 | 5,677.4 | -4,176.5 | 25.7 | 1,537,524.50 | 3,459,781.11 | 40.797070 | -103.839318 |
| 10,077.0 | 90.59 | 180.82 | 5,675.4 | -4,267.5 | 23.4 | 1,537,433.53 | 3,459,780.44 | 40.796820 | -103.839327 |
| 10,168.0 | 89.01 | 179.72 | 5,675.7 | -4,358.5 | 22.9 | 1,537,342.54 | 3,459,781.71 | 40.796570 | -103.839328 |
| 10,260.0 | 91.03 | 180.80 | 5,675.7 | -4,450.4 | 22.5 | 1,537,250.56 | 3,459,783.02 | 40.796318 | -103.839330 |
| 10,351.0 | 90.55 | 180.11 | 5,674.4 | -4,541.4 | 21.8 | 1,537,159.57 | 3,459,784.00 | 40.796068 | -103.839333 |
| 10,442.0 | 90.42 | 179.80 | 5,673.7 | -4,632.4 | 21.9 | 1,537,068.59 | 3,459,785.78 | 40.795818 | -103.839332 |
| 10,534.0 | 90.59 | 179.33 | 5,672.8 | -4,724.4 | 22.6 | 1,536,976.63 | 3,459,788.20 | 40.795566 | -103.839330 |
| 10,625.0 | 91.03 | 179.27 | 5,671.6 | -4,815.4 | 23.7 | 1,536,885.68 | 3,459,791.01 | 40.795316 | -103.839326 |
| 10,717.0 | 89.19 | 178.75 | 5,671.4 | -4,907.4 | 25.3 | 1,536,793.75 | 3,459,794.32 | 40.795064 | -103.839320 |
| 10,809.0 | 89.05 | 178.28 | 5,672.8 | -4,999.3 | 27.7 | 1,536,701.85 | 3,459,798.43 | 40.794811 | -103.839311 |
| 10,901.0 | 89.71 | 179.04 | 5,673.8 | -5,091.3 | 29.8 | 1,536,609.94 | 3,459,802.30 | 40.794559 | -103.839304 |
| 10,992.0 | 89.85 | 180.16 | 5,674.1 | -5,182.3 | 30.4 | 1,536,518.97 | 3,459,804.64 | 40.794309 | -103.839301 |
| 11,083.0 | 89.89 | 180.25 | 5,674.3 | -5,273.3 | 30.1 | 1,536,427.98 | 3,459,806.02 | 40.794059 | -103.839303 |
| 11,174.0 | 90.15 | 183.26 | 5,674.3 | -5,364.3 | 27.3 | 1,536,337.00 | 3,459,804.94 | 40.793810 | -103.839313 |
| 11,266.0 | 89.98 | 182.79 | 5,674.2 | -5,456.1 | 22.5 | 1,536,245.05 | 3,459,801.80 | 40.793557 | -103.839330 |
| 11,358.0 | 89.89 | 182.01 | 5,674.3 | -5,548.0 | 18.6 | 1,536,153.08 | 3,459,799.67 | 40.793305 | -103.839344 |
| 11,449.0 | 89.98 | 181.63 | 5,674.4 | -5,639.0 | 15.7 | 1,536,062.08 | 3,459,798.49 | 40.793056 | -103.839354 |
| 11,541.0 | 89.76 | 181.02 | 5,674.6 | -5,731.0 | 13.6 | 1,535,970.08 | 3,459,798.08 | 40.792803 | -103.839362 |
| 11,632.0 | 89.32 | 182.13 | 5,675.4 | -5,821.9 | 11.1 | 1,535,879.09 | 3,459,797.28 | 40.792553 | -103.839371 |
| 11,723.0 | 88.88 | 181.39 | 5,676.8 | -5,912.9 | 8.3 | 1,535,788.11 | 3,459,796.19 | 40.792304 | -103.839381 |

Survey Report - Geographic

| | | | |
|------------------|-------------------------------|-------------------------------------|--|
| Company: | Whiting Petroleum Corporation | Local Co-ordinate Reference: | Well Razor #26L-3502B |
| Project: | Weld County, CO | TVD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Site: | S26-T10N-R58W | MD Reference: | WELL @ 4751.0usft (Original Well Elev) |
| Well: | Razor #26L-3502B | North Reference: | True |
| Wellbore: | HZ | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL | Database: | USA EDM 5000 Multi Users DB |

| Survey | | | | | | | | | |
|--|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------|-------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 11,814.0 | 88.26 | 181.01 | 5,679.1 | -6,003.8 | 6.4 | 1,535,697.14 | 3,459,795.99 | 40.792054 | -103.839388 |
| 11,905.0 | 88.44 | 181.99 | 5,681.7 | -6,094.8 | 4.0 | 1,535,606.18 | 3,459,795.31 | 40.791805 | -103.839397 |
| 11,997.0 | 89.67 | 183.24 | 5,683.2 | -6,186.7 | -0.2 | 1,535,514.23 | 3,459,792.84 | 40.791552 | -103.839412 |
| 12,088.0 | 90.46 | 185.42 | 5,683.1 | -6,277.4 | -7.0 | 1,535,423.38 | 3,459,787.67 | 40.791303 | -103.839437 |
| 12,180.0 | 89.98 | 183.20 | 5,682.7 | -6,369.1 | -14.0 | 1,535,331.54 | 3,459,782.47 | 40.791052 | -103.839462 |
| 12,271.0 | 90.24 | 184.55 | 5,682.6 | -6,459.9 | -20.1 | 1,535,240.65 | 3,459,778.03 | 40.790802 | -103.839484 |
| 12,363.0 | 91.30 | 182.84 | 5,681.3 | -6,551.7 | -26.0 | 1,535,148.76 | 3,459,773.82 | 40.790550 | -103.839505 |
| 12,454.0 | 91.65 | 183.09 | 5,679.0 | -6,642.6 | -30.7 | 1,535,057.84 | 3,459,770.81 | 40.790301 | -103.839522 |
| 12,549.0 | 91.74 | 181.29 | 5,676.2 | -6,737.4 | -34.4 | 1,534,962.90 | 3,459,768.96 | 40.790041 | -103.839535 |
| 12,644.0 | 90.51 | 179.85 | 5,674.3 | -6,832.4 | -35.3 | 1,534,867.93 | 3,459,769.80 | 40.789780 | -103.839539 |
| 12,710.0 | 90.33 | 179.48 | 5,673.8 | -6,898.4 | -34.9 | 1,534,801.95 | 3,459,771.42 | 40.789599 | -103.839537 |
| Last CES Survey @ 12,710' MD | | | | | | | | | |
| 12,760.0 | 90.33 | 179.48 | 5,673.5 | -6,948.4 | -34.5 | 1,534,751.97 | 3,459,772.81 | 40.789462 | -103.839536 |
| PTB @ 12,760' - TD - 630' FNL, 480' FWL | | | | | | | | | |

| Design Targets | | | | | | | | | |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| 26L-3502B BH TGT (P5) | 0.00 | 1.07 | 5,670.0 | -6,979.9 | -19.4 | 1,534,720.74 | 3,459,788.49 | 40.789375 | -103.839481 |
| - actual wellpath misses target center by 35.1usft at 12760.0usft MD (5673.5 TVD, -6948.4 N, -34.5 E) | | | | | | | | | |
| - Point | | | | | | | | | |

| Casing Points | | | | | |
|-----------------------|-----------------------|--------------------------|---------------------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") | |
| 6,047.0 | 5,678.9 | 7" - 2005' FSL, 613' FWL | 0 | 0 | |

| Design Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment | |
| | | +N/-S (usft) | +E/-W (usft) | | |
| 12,710.0 | 5,673.8 | -6,898.4 | -34.9 | Last CES Survey @ 12,710' MD | |
| 12,760.0 | 5,673.5 | -6,948.4 | -34.5 | PTB @ 12,760' | |
| 12,760.0 | 5,673.5 | -6,948.4 | -34.5 | TD - 630' FNL, 480' FWL | |

Checked By: _____ Approved By: _____ Date: _____