

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_WEICHEL 3 PAD

WEICHEL 34C-11HZ

WEICHEL 34C-11HZ

Plan: WEICHEL 34C-11HZ (wp01)

Standard Planning Report

05 December, 2011

Anadarko Petroleum Corp

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|-----------------------|
| Database: | edmp | Local Co-ordinate Reference: | Well WEICHEL 34C-11HZ |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | GL + RKB @ 4910.00ft |
| Project: | COLORADO NORTHERN ZONE - 83 | MD Reference: | GL + RKB @ 4910.00ft |
| Site: | WELD_WEICHEL 3 PAD | North Reference: | True |
| Well: | WEICHEL 34C-11HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | WEICHEL 34C-11HZ | | |
| Design: | WEICHEL 34C-11HZ (wp01) | | |

| | | | |
|--------------------|-----------------------------|----------------------|----------------|
| Project | COLORADO NORTHERN ZONE - 83 | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| | | | | | |
|-----------------------|----------|--------------------|-------------------|-------------------|-------------|
| Site | | WELD_WEICHEL 3 PAD | | | |
| Site Position: | | Northing: | 1,292,398.97 usft | Latitude: | 40.132701 |
| From: | Lat/Long | Easting: | 3,245,181.03 usft | Longitude: | -104.623113 |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 13-3/16 " | Grid Convergence: | 0.57 ° |

| Well | WEICHEL 34C-11HZ | | | | | |
|----------------------|------------------|--------------|---------------------|-------------------|---------------|-------------|
| Well Position | +N/-S | -108.87 ft | Northing: | 1,292,244.79 usft | Latitude: | 40.132401 |
| | +E/-W | -4,583.09 ft | Easting: | 3,240,599.24 usft | Longitude: | -104.639504 |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | | Ground Level: | 4,893.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | WEICHEL 34C-11HZ | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 12/5/2011 | 8.71 | 66.84 | 52,954 |

| | | | | |
|--------------------------|-------------------------|--------------|----------------------|------------------|
| Design | WEICHEL 34C-11HZ (wp01) | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) | +N/-S | +E/-W | Direction |
| | (ft) | (ft) | (ft) | (°) |
| | 0.00 | 0.00 | 0.00 | 358.18 |

| Plan Sections | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-------------------------|------------------------|-----------------------|---------|------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,500.00 | 0.00 | 0.00 | 1,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,704.89 | 4.10 | 205.18 | 1,704.71 | -6.63 | -3.12 | 2.00 | 2.00 | 0.00 | 205.18 | |
| 6,572.90 | 4.10 | 205.18 | 6,560.28 | -321.43 | -151.11 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,509.65 | 89.97 | 359.97 | 7,170.00 | 250.00 | -170.00 | 10.00 | 9.17 | 16.52 | 154.74 | |
| 7,510.84 | 89.97 | 359.98 | 7,170.00 | 251.18 | -170.00 | 1.00 | -0.15 | 0.99 | 98.56 | |
| 12,649.19 | 89.97 | 359.98 | 7,173.00 | 5,389.54 | -171.64 | 0.00 | 0.00 | 0.00 | 0.00 | WEICHEL 34C-11HZ |

Anadarko Petroleum Corp

Planning Report

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| Company: | US ROCKIES REGION PLANNING | TVD Reference: | GL + RKB @ 4910.00ft |
| Project: | COLORADO NORTHERN ZONE - 83 | MD Reference: | GL + RKB @ 4910.00ft |
| Site: | WELD_WEICHEL 3 PAD | North Reference: | True |
| Well: | WEICHEL 34C-11HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | WEICHEL 34C-11HZ | | |
| Design: | WEICHEL 34C-11HZ (wp01) | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 5/8" | | | | | | | | | |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 0.00 | 0.00 | 1,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 0.00 | 0.00 | 1,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 2.00 | 205.18 | 1,599.98 | -1.58 | -0.74 | -1.55 | 2.00 | 2.00 | 0.00 |
| 1,700.00 | 4.00 | 205.18 | 1,699.84 | -6.32 | -2.97 | -6.22 | 2.00 | 2.00 | 0.00 |
| 1,704.89 | 4.10 | 205.18 | 1,704.71 | -6.63 | -3.12 | -6.53 | 2.00 | 2.00 | 0.00 |
| 1,800.00 | 4.10 | 205.18 | 1,799.58 | -12.78 | -6.01 | -12.58 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 4.10 | 205.18 | 1,899.33 | -19.25 | -9.05 | -18.95 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 4.10 | 205.18 | 1,999.07 | -25.71 | -12.09 | -25.31 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 4.10 | 205.18 | 2,098.82 | -32.18 | -15.13 | -31.68 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 4.10 | 205.18 | 2,198.56 | -38.65 | -18.17 | -38.05 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 4.10 | 205.18 | 2,298.30 | -45.11 | -21.21 | -44.41 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 4.10 | 205.18 | 2,398.05 | -51.58 | -24.25 | -50.78 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 4.10 | 205.18 | 2,497.79 | -58.05 | -27.29 | -57.15 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 4.10 | 205.18 | 2,597.54 | -64.51 | -30.33 | -63.52 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 4.10 | 205.18 | 2,697.28 | -70.98 | -33.37 | -69.88 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 4.10 | 205.18 | 2,797.03 | -77.45 | -36.41 | -76.25 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 4.10 | 205.18 | 2,896.77 | -83.91 | -39.45 | -82.62 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 4.10 | 205.18 | 2,996.51 | -90.38 | -42.49 | -88.98 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 4.10 | 205.18 | 3,096.26 | -96.85 | -45.53 | -95.35 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 4.10 | 205.18 | 3,196.00 | -103.31 | -48.57 | -101.72 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 4.10 | 205.18 | 3,295.75 | -109.78 | -51.61 | -108.08 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 4.10 | 205.18 | 3,395.49 | -116.25 | -54.65 | -114.45 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 4.10 | 205.18 | 3,495.24 | -122.71 | -57.69 | -120.82 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 4.10 | 205.18 | 3,594.98 | -129.18 | -60.73 | -127.18 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 4.10 | 205.18 | 3,694.73 | -135.65 | -63.77 | -133.55 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 4.10 | 205.18 | 3,794.47 | -142.12 | -66.81 | -139.92 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 4.10 | 205.18 | 3,894.21 | -148.58 | -69.85 | -146.28 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 4.10 | 205.18 | 3,993.96 | -155.05 | -72.89 | -152.65 | 0.00 | 0.00 | 0.00 |
| 4,029.12 | 4.10 | 205.18 | 4,023.00 | -156.93 | -73.77 | -154.50 | 0.00 | 0.00 | 0.00 |
| PARKMAN | | | | | | | | | |
| 4,100.00 | 4.10 | 205.18 | 4,093.70 | -161.52 | -75.93 | -159.02 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 4.10 | 205.18 | 4,193.45 | -167.98 | -78.97 | -165.38 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 4.10 | 205.18 | 4,293.19 | -174.45 | -82.01 | -171.75 | 0.00 | 0.00 | 0.00 |
| 4,379.01 | 4.10 | 205.18 | 4,372.00 | -179.56 | -84.41 | -176.78 | 0.00 | 0.00 | 0.00 |
| SUSSEX | | | | | | | | | |
| 4,400.00 | 4.10 | 205.18 | 4,392.94 | -180.92 | -85.05 | -178.12 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 4.10 | 205.18 | 4,492.68 | -187.38 | -88.09 | -184.48 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 4.10 | 205.18 | 4,592.42 | -193.85 | -91.13 | -190.85 | 0.00 | 0.00 | 0.00 |

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| Project: | COLORADO NORTHERN ZONE - 83 | MD Reference: | GL + RKB @ 4910.00ft |
| Site: | WELD_WEICHEL 3 PAD | North Reference: | True |
| Well: | WEICHEL 34C-11HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | WEICHEL 34C-11HZ | | |
| Design: | WEICHEL 34C-11HZ (wp01) | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 4,700.00 | 4.10 | 205.18 | 4,692.17 | -200.32 | -94.17 | -197.22 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 4.10 | 205.18 | 4,791.91 | -206.78 | -97.21 | -203.58 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 4.10 | 205.18 | 4,891.66 | -213.25 | -100.25 | -209.95 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 4.10 | 205.18 | 4,991.40 | -219.72 | -103.29 | -216.32 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 4.10 | 205.18 | 5,091.15 | -226.18 | -106.33 | -222.68 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 4.10 | 205.18 | 5,190.89 | -232.65 | -109.37 | -229.05 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 4.10 | 205.18 | 5,290.64 | -239.12 | -112.41 | -235.42 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 4.10 | 205.18 | 5,390.38 | -245.58 | -115.45 | -241.78 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 4.10 | 205.18 | 5,490.12 | -252.05 | -118.49 | -248.15 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 4.10 | 205.18 | 5,589.87 | -258.52 | -121.53 | -254.52 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 4.10 | 205.18 | 5,689.61 | -264.98 | -124.57 | -260.89 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 4.10 | 205.18 | 5,789.36 | -271.45 | -127.61 | -267.25 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 4.10 | 205.18 | 5,889.10 | -277.92 | -130.65 | -273.62 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 4.10 | 205.18 | 5,988.85 | -284.39 | -133.69 | -279.99 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 4.10 | 205.18 | 6,088.59 | -290.85 | -136.73 | -286.35 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 4.10 | 205.18 | 6,188.33 | -297.32 | -139.77 | -292.72 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 4.10 | 205.18 | 6,288.08 | -303.79 | -142.81 | -299.09 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 4.10 | 205.18 | 6,387.82 | -310.25 | -145.85 | -305.45 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 4.10 | 205.18 | 6,487.57 | -316.72 | -148.89 | -311.82 | 0.00 | 0.00 | 0.00 |
| 6,572.90 | 4.10 | 205.18 | 6,560.28 | -321.43 | -151.11 | -316.46 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 2.01 | 240.26 | 6,587.34 | -322.55 | -151.93 | -317.55 | 10.00 | -7.70 | 129.46 |
| 6,700.00 | 9.17 | 349.08 | 6,686.93 | -315.58 | -154.97 | -310.48 | 10.00 | 7.16 | 108.81 |
| 6,800.00 | 19.08 | 354.91 | 6,783.79 | -291.41 | -157.94 | -286.24 | 10.00 | 9.91 | 5.83 |
| 6,842.06 | 23.27 | 355.90 | 6,823.00 | -276.27 | -159.15 | -271.06 | 10.00 | 9.96 | 2.36 |
| SHARON SPRINGS | | | | | | | | | |
| 6,900.00 | 29.05 | 356.82 | 6,874.98 | -250.79 | -160.74 | -245.54 | 10.00 | 9.98 | 1.59 |
| 6,902.31 | 29.28 | 356.85 | 6,877.00 | -249.66 | -160.81 | -244.41 | 10.00 | 9.98 | 1.28 |
| NIOBRARA A | | | | | | | | | |
| 6,943.30 | 33.37 | 357.32 | 6,912.00 | -228.38 | -161.89 | -223.12 | 10.00 | 9.98 | 1.13 |
| NIOBRARA B | | | | | | | | | |
| 7,000.00 | 39.04 | 357.81 | 6,957.74 | -194.93 | -163.30 | -189.64 | 10.00 | 9.99 | 0.88 |
| 7,068.15 | 45.84 | 358.27 | 7,008.00 | -149.00 | -164.85 | -143.68 | 10.00 | 9.99 | 0.67 |
| NIOBRARA C | | | | | | | | | |
| 7,100.00 | 49.03 | 358.45 | 7,029.54 | -125.55 | -165.52 | -120.22 | 10.00 | 9.99 | 0.56 |
| 7,200.00 | 59.02 | 358.92 | 7,088.22 | -44.75 | -167.36 | -39.40 | 10.00 | 9.99 | 0.47 |
| 7,300.00 | 69.01 | 359.30 | 7,131.97 | 45.01 | -168.74 | 50.36 | 10.00 | 9.99 | 0.38 |
| 7,333.33 | 72.34 | 359.41 | 7,143.00 | 76.47 | -169.09 | 81.81 | 10.00 | 9.99 | 0.34 |
| FORT HAYS | | | | | | | | | |
| 7,400.00 | 79.01 | 359.63 | 7,159.48 | 141.02 | -169.62 | 146.35 | 10.00 | 10.00 | 0.33 |
| 7,434.20 | 82.43 | 359.74 | 7,165.00 | 174.77 | -169.81 | 180.09 | 10.00 | 10.00 | 0.31 |
| CODELL | | | | | | | | | |
| 7,500.00 | 89.00 | 359.94 | 7,169.91 | 240.35 | -169.99 | 245.64 | 10.00 | 10.00 | 0.31 |
| 7,509.65 | 89.97 | 359.97 | 7,170.00 | 250.00 | -170.00 | 255.28 | 10.00 | 10.00 | 0.31 |
| 7" | | | | | | | | | |
| 7,510.84 | 89.97 | 359.98 | 7,170.00 | 251.18 | -170.00 | 256.47 | 0.99 | -0.11 | 0.99 |
| 7,600.00 | 89.97 | 359.98 | 7,170.05 | 340.35 | -170.03 | 345.59 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 89.97 | 359.98 | 7,170.11 | 440.35 | -170.06 | 445.54 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 89.97 | 359.98 | 7,170.17 | 540.35 | -170.09 | 545.49 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 89.97 | 359.98 | 7,170.23 | 640.35 | -170.12 | 645.44 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 89.97 | 359.98 | 7,170.29 | 740.35 | -170.16 | 745.39 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 89.97 | 359.98 | 7,170.34 | 840.35 | -170.19 | 845.34 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 89.97 | 359.98 | 7,170.40 | 940.35 | -170.22 | 945.29 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 89.97 | 359.98 | 7,170.46 | 1,040.35 | -170.25 | 1,045.24 | 0.00 | 0.00 | 0.00 |

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| Database: | edmp | Local Co-ordinate Reference: | Well WEICHEL 34C-11HZ |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | GL + RKB @ 4910.00ft |
| Project: | COLORADO NORTHERN ZONE - 83 | MD Reference: | GL + RKB @ 4910.00ft |
| Site: | WELD_WEICHEL 3 PAD | North Reference: | True |
| Well: | WEICHEL 34C-11HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | WEICHEL 34C-11HZ | | |
| Design: | WEICHEL 34C-11HZ (wp01) | | |

| Planned Survey | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 8,400.00 | 89.97 | 359.98 | 7,170.52 | 1,140.35 | -170.28 | 1,145.19 | 0.00 | 0.00 | 0.00 | |
| 8,500.00 | 89.97 | 359.98 | 7,170.58 | 1,240.35 | -170.32 | 1,245.14 | 0.00 | 0.00 | 0.00 | |
| 8,600.00 | 89.97 | 359.98 | 7,170.64 | 1,340.35 | -170.35 | 1,345.09 | 0.00 | 0.00 | 0.00 | |
| 8,700.00 | 89.97 | 359.98 | 7,170.69 | 1,440.35 | -170.38 | 1,445.04 | 0.00 | 0.00 | 0.00 | |
| 8,800.00 | 89.97 | 359.98 | 7,170.75 | 1,540.35 | -170.41 | 1,544.99 | 0.00 | 0.00 | 0.00 | |
| 8,900.00 | 89.97 | 359.98 | 7,170.81 | 1,640.35 | -170.44 | 1,644.94 | 0.00 | 0.00 | 0.00 | |
| 9,000.00 | 89.97 | 359.98 | 7,170.87 | 1,740.35 | -170.48 | 1,744.89 | 0.00 | 0.00 | 0.00 | |
| 9,100.00 | 89.97 | 359.98 | 7,170.93 | 1,840.35 | -170.51 | 1,844.84 | 0.00 | 0.00 | 0.00 | |
| 9,200.00 | 89.97 | 359.98 | 7,170.99 | 1,940.35 | -170.54 | 1,944.79 | 0.00 | 0.00 | 0.00 | |
| 9,300.00 | 89.97 | 359.98 | 7,171.05 | 2,040.35 | -170.57 | 2,044.74 | 0.00 | 0.00 | 0.00 | |
| 9,400.00 | 89.97 | 359.98 | 7,171.10 | 2,140.35 | -170.60 | 2,144.69 | 0.00 | 0.00 | 0.00 | |
| 9,500.00 | 89.97 | 359.98 | 7,171.16 | 2,240.35 | -170.64 | 2,244.64 | 0.00 | 0.00 | 0.00 | |
| 9,600.00 | 89.97 | 359.98 | 7,171.22 | 2,340.34 | -170.67 | 2,344.59 | 0.00 | 0.00 | 0.00 | |
| 9,700.00 | 89.97 | 359.98 | 7,171.28 | 2,440.34 | -170.70 | 2,444.54 | 0.00 | 0.00 | 0.00 | |
| 9,800.00 | 89.97 | 359.98 | 7,171.34 | 2,540.34 | -170.73 | 2,544.49 | 0.00 | 0.00 | 0.00 | |
| 9,900.00 | 89.97 | 359.98 | 7,171.40 | 2,640.34 | -170.76 | 2,644.44 | 0.00 | 0.00 | 0.00 | |
| 10,000.00 | 89.97 | 359.98 | 7,171.45 | 2,740.34 | -170.80 | 2,744.39 | 0.00 | 0.00 | 0.00 | |
| 10,100.00 | 89.97 | 359.98 | 7,171.51 | 2,840.34 | -170.83 | 2,844.34 | 0.00 | 0.00 | 0.00 | |
| 10,200.00 | 89.97 | 359.98 | 7,171.57 | 2,940.34 | -170.86 | 2,944.29 | 0.00 | 0.00 | 0.00 | |
| 10,300.00 | 89.97 | 359.98 | 7,171.63 | 3,040.34 | -170.89 | 3,044.24 | 0.00 | 0.00 | 0.00 | |
| 10,400.00 | 89.97 | 359.98 | 7,171.69 | 3,140.34 | -170.92 | 3,144.19 | 0.00 | 0.00 | 0.00 | |
| 10,500.00 | 89.97 | 359.98 | 7,171.75 | 3,240.34 | -170.96 | 3,244.14 | 0.00 | 0.00 | 0.00 | |
| 10,600.00 | 89.97 | 359.98 | 7,171.80 | 3,340.34 | -170.99 | 3,344.09 | 0.00 | 0.00 | 0.00 | |
| 10,700.00 | 89.97 | 359.98 | 7,171.86 | 3,440.34 | -171.02 | 3,444.05 | 0.00 | 0.00 | 0.00 | |
| 10,800.00 | 89.97 | 359.98 | 7,171.92 | 3,540.34 | -171.05 | 3,544.00 | 0.00 | 0.00 | 0.00 | |
| 10,900.00 | 89.97 | 359.98 | 7,171.98 | 3,640.34 | -171.08 | 3,643.95 | 0.00 | 0.00 | 0.00 | |
| 11,000.00 | 89.97 | 359.98 | 7,172.04 | 3,740.34 | -171.12 | 3,743.90 | 0.00 | 0.00 | 0.00 | |
| 11,100.00 | 89.97 | 359.98 | 7,172.10 | 3,840.34 | -171.15 | 3,843.85 | 0.00 | 0.00 | 0.00 | |
| 11,200.00 | 89.97 | 359.98 | 7,172.15 | 3,940.34 | -171.18 | 3,943.80 | 0.00 | 0.00 | 0.00 | |
| 11,300.00 | 89.97 | 359.98 | 7,172.21 | 4,040.34 | -171.21 | 4,043.75 | 0.00 | 0.00 | 0.00 | |
| 11,400.00 | 89.97 | 359.98 | 7,172.27 | 4,140.34 | -171.24 | 4,143.70 | 0.00 | 0.00 | 0.00 | |
| 11,500.00 | 89.97 | 359.98 | 7,172.33 | 4,240.34 | -171.28 | 4,243.65 | 0.00 | 0.00 | 0.00 | |
| 11,600.00 | 89.97 | 359.98 | 7,172.39 | 4,340.34 | -171.31 | 4,343.60 | 0.00 | 0.00 | 0.00 | |
| 11,700.00 | 89.97 | 359.98 | 7,172.45 | 4,440.34 | -171.34 | 4,443.55 | 0.00 | 0.00 | 0.00 | |
| 11,800.00 | 89.97 | 359.98 | 7,172.50 | 4,540.34 | -171.37 | 4,543.50 | 0.00 | 0.00 | 0.00 | |
| 11,900.00 | 89.97 | 359.98 | 7,172.56 | 4,640.34 | -171.40 | 4,643.45 | 0.00 | 0.00 | 0.00 | |
| 12,000.00 | 89.97 | 359.98 | 7,172.62 | 4,740.34 | -171.44 | 4,743.40 | 0.00 | 0.00 | 0.00 | |
| 12,100.00 | 89.97 | 359.98 | 7,172.68 | 4,840.34 | -171.47 | 4,843.35 | 0.00 | 0.00 | 0.00 | |
| 12,200.00 | 89.97 | 359.98 | 7,172.74 | 4,940.34 | -171.50 | 4,943.30 | 0.00 | 0.00 | 0.00 | |
| 12,300.00 | 89.97 | 359.98 | 7,172.80 | 5,040.34 | -171.53 | 5,043.25 | 0.00 | 0.00 | 0.00 | |
| 12,400.00 | 89.97 | 359.98 | 7,172.85 | 5,140.34 | -171.56 | 5,143.20 | 0.00 | 0.00 | 0.00 | |
| 12,500.00 | 89.97 | 359.98 | 7,172.91 | 5,240.34 | -171.60 | 5,243.15 | 0.00 | 0.00 | 0.00 | |
| 12,600.00 | 89.97 | 359.98 | 7,172.97 | 5,340.34 | -171.63 | 5,343.10 | 0.00 | 0.00 | 0.00 | |
| 12,649.19 | 89.97 | 359.98 | 7,173.00 | 5,389.54 | -171.64 | 5,392.27 | 0.00 | 0.00 | 0.00 | |
| WEICHEL 34C-11HZ BHL | | | | | | | | | | |

Anadarko Petroleum Corp

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|-----------------------|
| Database: | edmp | Local Co-ordinate Reference: | Well WEICHEL 34C-11HZ |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | GL + RKB @ 4910.00ft |
| Project: | COLORADO NORTHERN ZONE - 83 | MD Reference: | GL + RKB @ 4910.00ft |
| Site: | WELD_WEICHEL 3 PAD | North Reference: | True |
| Well: | WEICHEL 34C-11HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | WEICHEL 34C-11HZ | | |
| Design: | WEICHEL 34C-11HZ (wp01) | | |

| Design Targets | | | | | | | | | |
|---------------------------|-----------|----------|----------|----------|---------|--------------|--------------|-----------|-------------|
| Target Name | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - hit/miss target | (°) | (°) | (ft) | (ft) | (ft) | (usft) | (usft) | | |
| - Shape | | | | | | | | | |
| WEICHEL 34C-11HZ Bf | 0.00 | 0.00 | 7,173.00 | 5,389.54 | -171.64 | 1,297,632.40 | 3,240,375.31 | 40.147196 | -104.640118 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

| Casing Points | | | | | |
|----------------|----------------|--------|--|-----------------|---------------|
| Measured Depth | Vertical Depth | Name | | Casing Diameter | Hole Diameter |
| (ft) | (ft) | | | (") | (") |
| 900.00 | 900.00 | 9 5/8" | | 9-5/8 | 12-1/4 |
| 7,509.65 | 7,170.00 | 7" | | 7 | 8-3/4 |

| Formations | | | | | | |
|----------------|----------------|----------------|--|-----------|------|---------------|
| Measured Depth | Vertical Depth | Name | | Lithology | Dip | Dip Direction |
| (ft) | (ft) | | | | (°) | (°) |
| 4,029.12 | 4,023.00 | PARKMAN | | | 0.00 | |
| 4,379.01 | 4,372.00 | SUSSEX | | | 0.00 | |
| 6,842.06 | 6,823.00 | SHARON SPRINGS | | | 0.00 | |
| 6,902.31 | 6,877.00 | NIOBRARA A | | | 0.00 | |
| 6,943.30 | 6,912.00 | NIOBRARA B | | | 0.00 | |
| 7,068.15 | 7,008.00 | NIOBRARA C | | | 0.00 | |
| 7,333.33 | 7,143.00 | FORT HAYS | | | 0.00 | |
| 7,434.20 | 7,165.00 | CODELL | | | 0.00 | |