

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_DECHANT 35-36 HZ PAD

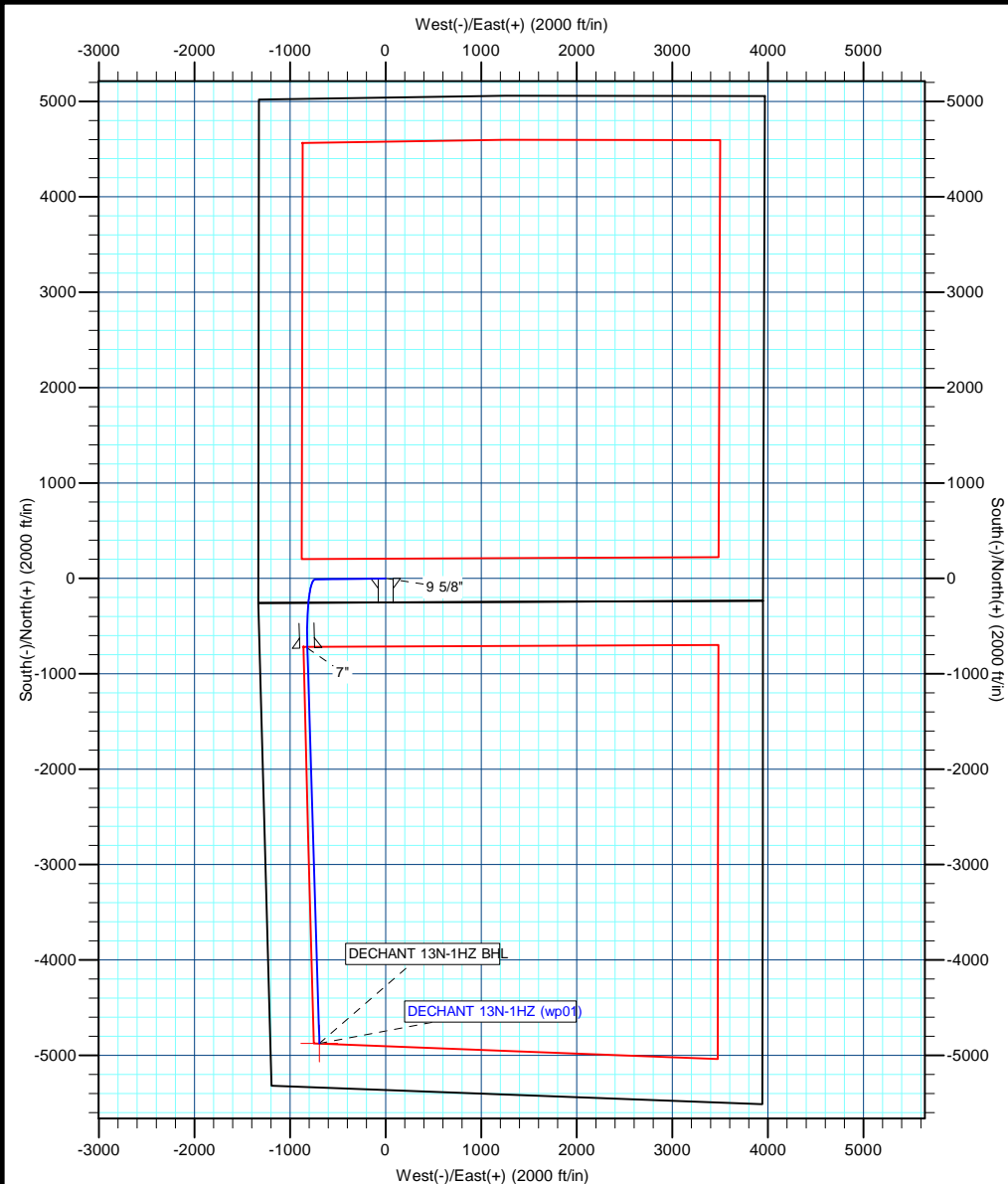
DECHANT 13N-1HZ

DECHANT 13N-1HZ (wp01)

Plan: DECHANT 13N-1HZ (wp01)

Standard Planning Report

22 March, 2012



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Azimuths to True North

Magnetic North: 8.66°

Magnetic Field

Strength: 52947.9snT

Dip Angle: 66.87°

Date: 3/22/2012

Model: IGRF2010



Project: COLORADO NORTHERN ZONE - 83

Site: WELD_DECHANT 35-36 HZ PAD

Well: DECHANT 13N-1HZ

Wellbore: DECHANT 13N-1HZ (wp01)

Section:

SHL:

Design: DECHANT 13N-1HZ (wp01)

Latitude: 40.174996

Longitude: -104.617015

GL: 4829.00

KB: GL + RKB @ 4846.00ft

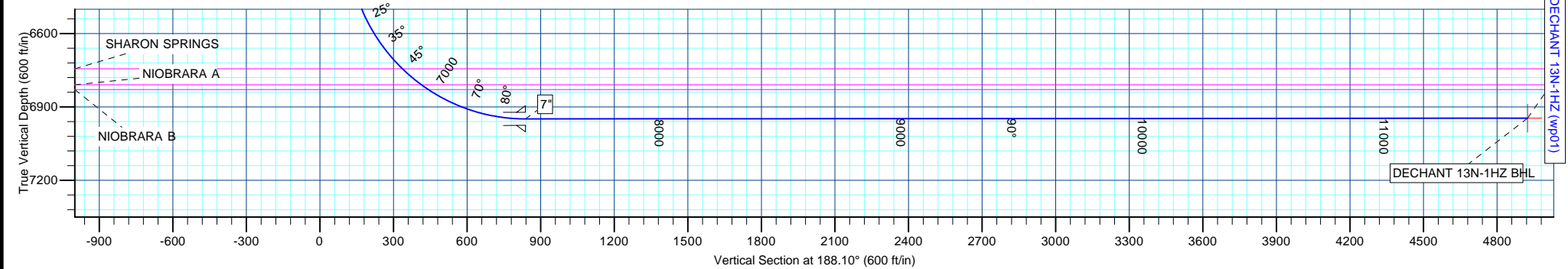
| WELL DETAILS: DECHANT 13N-1HZ | | | | | | |
|-------------------------------|-------|------------|--------------------------|---------------------|-------------|------|
| +N/-S | +E/-W | Northing | Ground Level: Easting | 4829.00 Latitude | Longitude | Slot |
| 0.00 | 0.00 | 1307822.38 | 3246732.58 | 40.174996 | -104.617015 | |

| SECTION DETAILS | | | | | | | | |
|-----------------|-------|--------|---------|----------|---------|------|--------|---------|
| MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect |
| 0.00 | 0.00 | 0.00 | 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 |
| 1309.81 | 8.20 | 269.18 | 1308.41 | -0.42 | -29.26 | 2.00 | 269.18 | 4.53 |
| 6290.79 | 8.20 | 269.18 | 6238.51 | -10.53 | -739.29 | 0.00 | 0.00 | 114.58 |
| 7417.93 | 90.04 | 178.27 | 6949.00 | -730.00 | -820.00 | 8.00 | -90.90 | 838.24 |
| 7419.47 | 90.04 | 178.25 | 6949.00 | -731.54 | -819.95 | 1.00 | -89.26 | 839.76 |
| 1564.66 | 90.04 | 178.25 | 6946.00 | -4874.81 | -693.69 | 0.00 | 0.00 | 4923.92 |

| WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG) | | | | | | |
|---|---------|----------|---------|-----------|-------------|-------|
| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | Shape |
| DECHANT 13N-1HZ BHL | 6946.00 | -4874.81 | -693.69 | 40.161614 | -104.619497 | Point |

| FORMATION TOP DETAILS | | |
|-----------------------|---------|----------------|
| TVDPath | MDPath | Formation |
| 3849.00 | 3876.61 | PARKMAN |
| 4391.00 | 4424.21 | SUSSEX |
| 6744.00 | 6858.67 | SHARON SPRINGS |
| 6809.00 | 6959.53 | NIOBRARA A |
| 6829.00 | 6994.57 | NIOBRARA B |

| CASING DETAILS | | | |
|----------------|---------|--------|-------|
| TVD | MD | Name | Size |
| 550.00 | 550.00 | 9 5/8" | 9-5/8 |
| 6949.00 | 7417.93 | 7" | 7 |



Anadarko Petroleum Corp

Planning Report

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|------------------|-----------------------------|-------------------------------------|----------------------|
| Database: | edmp | Local Co-ordinate Reference: | Well DECHANT 13N-1HZ |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | GL + RKB @ 4846.00ft |
| Project: | COLORADO NORTHERN ZONE - 83 | MD Reference: | GL + RKB @ 4846.00ft |
| Site: | WELD_DECHANT 35-36 HZ PAD | North Reference: | True |
| Well: | DECHANT 13N-1HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DECHANT 13N-1HZ (wp01) | | |
| Design: | DECHANT 13N-1HZ (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_DECHANT 35-36 HZ PAD | | | |
| Site Position: | | Northing: | 1,307,822.38 usft | Latitude: 40.174996 |
| From: | Lat/Long | Easting: | 3,246,732.58 usft | Longitude: -104.617015 |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 13-3/16 " | Grid Convergence: 0.57 ° |

| | | | | |
|-----------------------------|-----------------|---------|----------------------------|----------------------------------|
| Well | DECHANT 13N-1HZ | | | |
| Well Position | +N/-S | 0.00 ft | Northing: | 1,307,822.37 usft |
| | +E/-W | 0.00 ft | Easting: | 3,246,732.58 usft |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | Ground Level: 4,829.00 ft |

| | | | | | |
|------------------|------------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | DECHANT 13N-1HZ (wp01) | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 3/22/2012 | 8.66 | 66.87 | 52,948 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | DECHANT 13N-1HZ (wp01) | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 188.10 |

| 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 | |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,309.81 | 8.20 | 269.18 | 1,308.41 | -0.42 | -29.26 | 2.00 | 2.00 | 0.00 | 269.18 | |
| 6,290.79 | 8.20 | 269.18 | 6,238.51 | -10.53 | -739.29 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,417.93 | 90.04 | 178.27 | 6,949.00 | -730.00 | -820.00 | 8.00 | 7.26 | -8.07 | -90.90 | |
| 7,419.47 | 90.04 | 178.25 | 6,949.00 | -731.54 | -819.95 | 1.00 | 0.01 | -1.00 | -89.26 | |
| 11,564.66 | 90.04 | 178.25 | 6,946.00 | -4,874.81 | -693.69 | 0.00 | 0.00 | 0.00 | 0.00 | DECHANT 13N-1HZ I |

Anadarko Petroleum Corp

Planning Report

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|------------------|-----------------------------|-------------------------------------|----------------------|
| Database: | edmp | Local Co-ordinate Reference: | Well DECHANT 13N-1HZ |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | GL + RKB @ 4846.00ft |
| Project: | COLORADO NORTHERN ZONE - 83 | MD Reference: | GL + RKB @ 4846.00ft |
| Site: | WELD_DECHANT 35-36 HZ PAD | North Reference: | True |
| Well: | DECHANT 13N-1HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DECHANT 13N-1HZ (wp01) | | |
| Design: | DECHANT 13N-1HZ (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 |
| 550.00 | 0.00 | 0.00 | 550.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 5/8" | | | | | | | | | |
| 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 |
| Start Build 2.00 | | | | | | | | | |
| 1,000.00 | 2.00 | 269.18 | 999.98 | -0.02 | -1.74 | 0.27 | 2.00 | 2.00 | 0.00 |
| 1,100.00 | 4.00 | 269.18 | 1,099.84 | -0.10 | -6.98 | 1.08 | 2.00 | 2.00 | 0.00 |
| 1,200.00 | 6.00 | 269.18 | 1,199.45 | -0.22 | -15.69 | 2.43 | 2.00 | 2.00 | 0.00 |
| 1,300.00 | 8.00 | 269.18 | 1,298.70 | -0.40 | -27.88 | 4.32 | 2.00 | 2.00 | 0.00 |
| 1,309.81 | 8.20 | 269.18 | 1,308.41 | -0.42 | -29.26 | 4.53 | 2.00 | 2.00 | 0.00 |
| Start 4980.98 hold at 1309.81 MD | | | | | | | | | |
| 1,400.00 | 8.20 | 269.18 | 1,397.68 | -0.60 | -42.12 | 6.53 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 8.20 | 269.18 | 1,496.66 | -0.80 | -56.37 | 8.74 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 8.20 | 269.18 | 1,595.64 | -1.01 | -70.62 | 10.95 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 8.20 | 269.18 | 1,694.62 | -1.21 | -84.88 | 13.15 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 8.20 | 269.18 | 1,793.60 | -1.41 | -99.13 | 15.36 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 8.20 | 269.18 | 1,892.58 | -1.61 | -113.39 | 17.57 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 8.20 | 269.18 | 1,991.55 | -1.82 | -127.64 | 19.78 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 8.20 | 269.18 | 2,090.53 | -2.02 | -141.90 | 21.99 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 8.20 | 269.18 | 2,189.51 | -2.22 | -156.15 | 24.20 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 8.20 | 269.18 | 2,288.49 | -2.43 | -170.41 | 26.41 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 8.20 | 269.18 | 2,387.47 | -2.63 | -184.66 | 28.62 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 8.20 | 269.18 | 2,486.45 | -2.83 | -198.92 | 30.83 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 8.20 | 269.18 | 2,585.43 | -3.04 | -213.17 | 33.04 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 8.20 | 269.18 | 2,684.40 | -3.24 | -227.43 | 35.25 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 8.20 | 269.18 | 2,783.38 | -3.44 | -241.68 | 37.46 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 8.20 | 269.18 | 2,882.36 | -3.64 | -255.94 | 39.67 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 8.20 | 269.18 | 2,981.34 | -3.85 | -270.19 | 41.87 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 8.20 | 269.18 | 3,080.32 | -4.05 | -284.45 | 44.08 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 8.20 | 269.18 | 3,179.30 | -4.25 | -298.70 | 46.29 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 8.20 | 269.18 | 3,278.28 | -4.46 | -312.96 | 48.50 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 8.20 | 269.18 | 3,377.25 | -4.66 | -327.21 | 50.71 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 8.20 | 269.18 | 3,476.23 | -4.86 | -341.47 | 52.92 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 8.20 | 269.18 | 3,575.21 | -5.07 | -355.72 | 55.13 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 8.20 | 269.18 | 3,674.19 | -5.27 | -369.98 | 57.34 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 8.20 | 269.18 | 3,773.17 | -5.47 | -384.23 | 59.55 | 0.00 | 0.00 | 0.00 |
| 3,876.61 | 8.20 | 269.18 | 3,849.00 | -5.63 | -395.15 | 61.24 | 0.00 | 0.00 | 0.00 |
| PARKMAN | | | | | | | | | |
| 3,900.00 | 8.20 | 269.18 | 3,872.15 | -5.67 | -398.49 | 61.76 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 8.20 | 269.18 | 3,971.13 | -5.88 | -412.74 | 63.97 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 8.20 | 269.18 | 4,070.10 | -6.08 | -427.00 | 66.18 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 8.20 | 269.18 | 4,169.08 | -6.28 | -441.25 | 68.39 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 8.20 | 269.18 | 4,268.06 | -6.49 | -455.51 | 70.60 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 8.20 | 269.18 | 4,367.04 | -6.69 | -469.76 | 72.80 | 0.00 | 0.00 | 0.00 |
| 4,424.21 | 8.20 | 269.18 | 4,391.00 | -6.74 | -473.21 | 73.34 | 0.00 | 0.00 | 0.00 |
| SUSSEX | | | | | | | | | |

Anadarko Petroleum Corp

Planning Report

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|------------------|-----------------------------|-------------------------------------|----------------------|
| Database: | edmp | Local Co-ordinate Reference: | Well DECHANT 13N-1HZ |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | GL + RKB @ 4846.00ft |
| Project: | COLORADO NORTHERN ZONE - 83 | MD Reference: | GL + RKB @ 4846.00ft |
| Site: | WELD_DECHANT 35-36 HZ PAD | North Reference: | True |
| Well: | DECHANT 13N-1HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DECHANT 13N-1HZ (wp01) | | |
| Design: | DECHANT 13N-1HZ (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) |
| 4,500.00 | 8.20 | 269.18 | 4,466.02 | -6.89 | -484.01 | 75.01 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 8.20 | 269.18 | 4,565.00 | -7.10 | -498.27 | 77.22 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 8.20 | 269.18 | 4,663.98 | -7.30 | -512.52 | 79.43 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 8.20 | 269.18 | 4,762.95 | -7.50 | -526.78 | 81.64 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 8.20 | 269.18 | 4,861.93 | -7.71 | -541.03 | 83.85 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 8.20 | 269.18 | 4,960.91 | -7.91 | -555.29 | 86.06 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 8.20 | 269.18 | 5,059.89 | -8.11 | -569.54 | 88.27 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 8.20 | 269.18 | 5,158.87 | -8.31 | -583.80 | 90.48 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 8.20 | 269.18 | 5,257.85 | -8.52 | -598.05 | 92.69 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 8.20 | 269.18 | 5,356.83 | -8.72 | -612.31 | 94.90 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 8.20 | 269.18 | 5,455.80 | -8.92 | -626.56 | 97.11 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 8.20 | 269.18 | 5,554.78 | -9.13 | -640.82 | 99.32 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 8.20 | 269.18 | 5,653.76 | -9.33 | -655.07 | 101.52 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 8.20 | 269.18 | 5,752.74 | -9.53 | -669.33 | 103.73 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 8.20 | 269.18 | 5,851.72 | -9.74 | -683.58 | 105.94 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 8.20 | 269.18 | 5,950.70 | -9.94 | -697.84 | 108.15 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 8.20 | 269.18 | 6,049.68 | -10.14 | -712.09 | 110.36 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 8.20 | 269.18 | 6,148.65 | -10.34 | -726.35 | 112.57 | 0.00 | 0.00 | 0.00 |
| 6,290.79 | 8.20 | 269.18 | 6,238.51 | -10.53 | -739.29 | 114.58 | 0.00 | 0.00 | 0.00 |
| Start DLS 8.00 TFO -90.90 | | | | | | | | | |
| 6,300.00 | 8.22 | 264.02 | 6,247.63 | -10.61 | -740.60 | 114.84 | 8.00 | 0.23 | -56.04 |
| 6,400.00 | 11.86 | 221.56 | 6,346.21 | -19.06 | -754.55 | 125.17 | 8.00 | 3.65 | -42.47 |
| 6,500.00 | 18.47 | 203.82 | 6,442.73 | -41.27 | -767.79 | 149.03 | 8.00 | 6.60 | -17.74 |
| 6,600.00 | 25.86 | 195.56 | 6,535.30 | -76.83 | -780.05 | 185.96 | 8.00 | 7.39 | -8.26 |
| 6,700.00 | 33.51 | 190.84 | 6,622.12 | -125.02 | -791.11 | 235.23 | 8.00 | 7.66 | -4.73 |
| 6,800.00 | 41.29 | 187.72 | 6,701.51 | -184.93 | -800.75 | 295.89 | 8.00 | 7.77 | -3.12 |
| 6,858.67 | 45.88 | 186.30 | 6,744.00 | -225.06 | -805.66 | 336.32 | 8.00 | 7.83 | -2.41 |
| SHARON SPRINGS | | | | | | | | | |
| 6,900.00 | 49.12 | 185.44 | 6,771.92 | -255.37 | -808.77 | 366.76 | 8.00 | 7.85 | -2.10 |
| 6,959.53 | 53.80 | 184.33 | 6,809.00 | -301.75 | -812.72 | 413.24 | 8.00 | 7.87 | -1.87 |
| NIOBRARA A | | | | | | | | | |
| 6,994.57 | 56.56 | 183.73 | 6,829.00 | -330.44 | -814.74 | 441.93 | 8.00 | 7.88 | -1.69 |
| NIOBRARA B | | | | | | | | | |
| 7,000.00 | 56.99 | 183.64 | 6,831.98 | -334.98 | -815.03 | 446.46 | 8.00 | 7.88 | -1.63 |
| 7,100.00 | 64.88 | 182.15 | 6,880.52 | -422.20 | -819.40 | 533.43 | 8.00 | 7.89 | -1.50 |
| 7,200.00 | 72.79 | 180.83 | 6,916.59 | -515.35 | -821.79 | 625.99 | 8.00 | 7.91 | -1.31 |
| 7,300.00 | 80.70 | 179.63 | 6,939.50 | -612.61 | -822.16 | 722.33 | 8.00 | 7.91 | -1.21 |
| 7,400.00 | 88.62 | 178.47 | 6,948.79 | -712.08 | -820.51 | 820.57 | 8.00 | 7.92 | -1.15 |
| 7,417.93 | 90.04 | 178.27 | 6,949.00 | -730.00 | -820.00 | 838.24 | 8.00 | 7.92 | -1.14 |
| Start DLS 1.00 TFO -89.26 - 7" | | | | | | | | | |
| 7,419.47 | 90.04 | 178.25 | 6,949.00 | -731.54 | -819.95 | 839.76 | 1.00 | 0.01 | -1.00 |
| Start 4145.19 hold at 7419.47 MD | | | | | | | | | |
| 7,500.00 | 90.04 | 178.25 | 6,948.94 | -812.03 | -817.50 | 919.11 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 90.04 | 178.25 | 6,948.87 | -911.99 | -814.45 | 1,017.63 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 90.04 | 178.25 | 6,948.80 | -1,011.94 | -811.41 | 1,116.16 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 90.04 | 178.25 | 6,948.72 | -1,111.89 | -808.36 | 1,214.69 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 90.04 | 178.25 | 6,948.65 | -1,211.85 | -805.32 | 1,313.22 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 90.04 | 178.25 | 6,948.58 | -1,311.80 | -802.27 | 1,411.74 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 90.04 | 178.25 | 6,948.51 | -1,411.76 | -799.22 | 1,510.27 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 90.04 | 178.25 | 6,948.43 | -1,511.71 | -796.18 | 1,608.80 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 90.04 | 178.25 | 6,948.36 | -1,611.66 | -793.13 | 1,707.33 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 90.04 | 178.25 | 6,948.29 | -1,711.62 | -790.09 | 1,805.85 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 90.04 | 178.25 | 6,948.22 | -1,811.57 | -787.04 | 1,904.38 | 0.00 | 0.00 | 0.00 |

Anadarko Petroleum Corp

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|----------------------|
| Database: | edmp | Local Co-ordinate Reference: | Well DECHANT 13N-1HZ |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | GL + RKB @ 4846.00ft |
| Project: | COLORADO NORTHERN ZONE - 83 | MD Reference: | GL + RKB @ 4846.00ft |
| Site: | WELD_DECHANT 35-36 HZ PAD | North Reference: | True |
| Well: | DECHANT 13N-1HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DECHANT 13N-1HZ (wp01) | | |
| Design: | DECHANT 13N-1HZ (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) | |
| 8,600.00 | 90.04 | 178.25 | 6,948.14 | -1,911.52 | -784.00 | 2,002.91 | 0.00 | 0.00 | 0.00 | |
| 8,700.00 | 90.04 | 178.25 | 6,948.07 | -2,011.48 | -780.95 | 2,101.44 | 0.00 | 0.00 | 0.00 | |
| 8,800.00 | 90.04 | 178.25 | 6,948.00 | -2,111.43 | -777.90 | 2,199.96 | 0.00 | 0.00 | 0.00 | |
| 8,900.00 | 90.04 | 178.25 | 6,947.93 | -2,211.38 | -774.86 | 2,298.49 | 0.00 | 0.00 | 0.00 | |
| 9,000.00 | 90.04 | 178.25 | 6,947.86 | -2,311.34 | -771.81 | 2,397.02 | 0.00 | 0.00 | 0.00 | |
| 9,100.00 | 90.04 | 178.25 | 6,947.78 | -2,411.29 | -768.77 | 2,495.55 | 0.00 | 0.00 | 0.00 | |
| 9,200.00 | 90.04 | 178.25 | 6,947.71 | -2,511.24 | -765.72 | 2,594.08 | 0.00 | 0.00 | 0.00 | |
| 9,300.00 | 90.04 | 178.25 | 6,947.64 | -2,611.20 | -762.67 | 2,692.60 | 0.00 | 0.00 | 0.00 | |
| 9,400.00 | 90.04 | 178.25 | 6,947.57 | -2,711.15 | -759.63 | 2,791.13 | 0.00 | 0.00 | 0.00 | |
| 9,500.00 | 90.04 | 178.25 | 6,947.49 | -2,811.11 | -756.58 | 2,889.66 | 0.00 | 0.00 | 0.00 | |
| 9,600.00 | 90.04 | 178.25 | 6,947.42 | -2,911.06 | -753.54 | 2,988.19 | 0.00 | 0.00 | 0.00 | |
| 9,700.00 | 90.04 | 178.25 | 6,947.35 | -3,011.01 | -750.49 | 3,086.71 | 0.00 | 0.00 | 0.00 | |
| 9,800.00 | 90.04 | 178.25 | 6,947.28 | -3,110.97 | -747.44 | 3,185.24 | 0.00 | 0.00 | 0.00 | |
| 9,900.00 | 90.04 | 178.25 | 6,947.20 | -3,210.92 | -744.40 | 3,283.77 | 0.00 | 0.00 | 0.00 | |
| 10,000.00 | 90.04 | 178.25 | 6,947.13 | -3,310.87 | -741.35 | 3,382.30 | 0.00 | 0.00 | 0.00 | |
| 10,100.00 | 90.04 | 178.25 | 6,947.06 | -3,410.83 | -738.31 | 3,480.82 | 0.00 | 0.00 | 0.00 | |
| 10,200.00 | 90.04 | 178.25 | 6,946.99 | -3,510.78 | -735.26 | 3,579.35 | 0.00 | 0.00 | 0.00 | |
| 10,300.00 | 90.04 | 178.25 | 6,946.92 | -3,610.73 | -732.22 | 3,677.88 | 0.00 | 0.00 | 0.00 | |
| 10,400.00 | 90.04 | 178.25 | 6,946.84 | -3,710.69 | -729.17 | 3,776.41 | 0.00 | 0.00 | 0.00 | |
| 10,500.00 | 90.04 | 178.25 | 6,946.77 | -3,810.64 | -726.12 | 3,874.93 | 0.00 | 0.00 | 0.00 | |
| 10,600.00 | 90.04 | 178.25 | 6,946.70 | -3,910.59 | -723.08 | 3,973.46 | 0.00 | 0.00 | 0.00 | |
| 10,700.00 | 90.04 | 178.25 | 6,946.63 | -4,010.55 | -720.03 | 4,071.99 | 0.00 | 0.00 | 0.00 | |
| 10,800.00 | 90.04 | 178.25 | 6,946.55 | -4,110.50 | -716.99 | 4,170.52 | 0.00 | 0.00 | 0.00 | |
| 10,900.00 | 90.04 | 178.25 | 6,946.48 | -4,210.46 | -713.94 | 4,269.04 | 0.00 | 0.00 | 0.00 | |
| 11,000.00 | 90.04 | 178.25 | 6,946.41 | -4,310.41 | -710.89 | 4,367.57 | 0.00 | 0.00 | 0.00 | |
| 11,100.00 | 90.04 | 178.25 | 6,946.34 | -4,410.36 | -707.85 | 4,466.10 | 0.00 | 0.00 | 0.00 | |
| 11,200.00 | 90.04 | 178.25 | 6,946.26 | -4,510.32 | -704.80 | 4,564.63 | 0.00 | 0.00 | 0.00 | |
| 11,300.00 | 90.04 | 178.25 | 6,946.19 | -4,610.27 | -701.76 | 4,663.15 | 0.00 | 0.00 | 0.00 | |
| 11,400.00 | 90.04 | 178.25 | 6,946.12 | -4,710.22 | -698.71 | 4,761.68 | 0.00 | 0.00 | 0.00 | |
| 11,500.00 | 90.04 | 178.25 | 6,946.05 | -4,810.18 | -695.66 | 4,860.21 | 0.00 | 0.00 | 0.00 | |
| 11,564.66 | 90.04 | 178.25 | 6,946.00 | -4,874.81 | -693.69 | 4,923.92 | 0.00 | 0.00 | 0.00 | |
| TD at 11564.66 - DECHANT 13N-1HZ BHL | | | | | | | | | | |

| Design Targets | | | | | | | | | |
|--|---------------|--------------|----------|------------|------------|-----------------|----------------|-----------|-------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| DECHANT 13N-1HZ BH - hit/miss target - Shape - plan hits target center - Point | 0.00 | 0.00 | 6,946.00 | -4,874.81 | -693.69 | 1,302,940.91 | 3,246,087.46 | 40.161614 | -104.619497 |

| Casing Points | | | | | |
|---------------------|---------------------|--------|---------------------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") | |
| 550.00 | 550.00 | 9 5/8" | 9-5/8 | 12-1/4 | |
| 7,417.93 | 6,949.00 | 7" | 7 | 8-3/4 | |

Anadarko Petroleum Corp

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|----------------------|
| Database: | edmp | Local Co-ordinate Reference: | Well DECHANT 13N-1HZ |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | GL + RKB @ 4846.00ft |
| Project: | COLORADO NORTHERN ZONE - 83 | MD Reference: | GL + RKB @ 4846.00ft |
| Site: | WELD_DECHANT 35-36 HZ PAD | North Reference: | True |
| Well: | DECHANT 13N-1HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DECHANT 13N-1HZ (wp01) | | |
| Design: | DECHANT 13N-1HZ (wp01) | | |

| Formations | | | | | |
|---------------------|---------------------|----------------|-----------|---------|-------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| 3,876.61 | 3,849.00 | PARKMAN | | 0.00 | |
| 4,424.21 | 4,391.00 | SUSSEX | | 0.00 | |
| 6,858.67 | 6,744.00 | SHARON SPRINGS | | 0.00 | |
| 6,959.53 | 6,809.00 | NIOBRARA A | | 0.00 | |
| 6,994.57 | 6,829.00 | NIOBRARA B | | 0.00 | |

| Plan Annotations | | | | | |
|---------------------|---------------------|-------------------|------------|----------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | | |
| | | +N/-S (ft) | +E/-W (ft) | Comment | |
| 900.00 | 900.00 | 0.00 | 0.00 | Start Build 2.00 | |
| 1,309.81 | 1,308.41 | -0.42 | -29.26 | Start 4980.98 hold at 1309.81 MD | |
| 6,290.79 | 6,238.51 | -10.53 | -739.29 | Start DLS 8.00 TFO -90.90 | |
| 7,417.93 | 6,949.00 | -730.00 | -820.00 | Start DLS 1.00 TFO -89.26 | |
| 7,419.47 | 6,949.00 | -731.54 | -819.95 | Start 4145.19 hold at 7419.47 MD | |
| 11,564.66 | 6,946.00 | -4,874.81 | -693.69 | TD at 11564.66 | |