

# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**WELD\_RATTLER PAD 1**

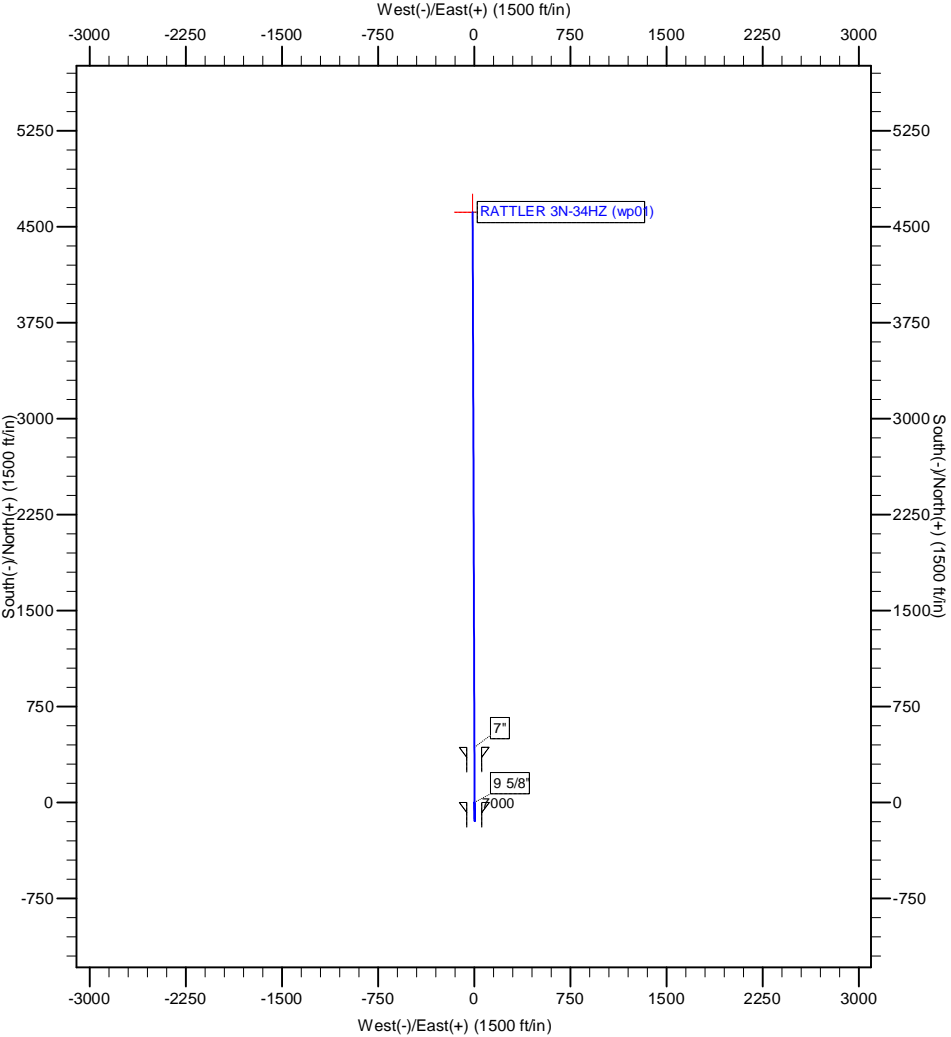
**RATTLER 3N-34HZ**

**RATTLER 3N-34HZ**

**Plan: RATTLER 3N-34HZ (wp01)**

## **Standard Planning Report**

**24 October, 2011**



Azimuths to True North  
Magnetic North: 8.80°

Magnetic Field  
Strength: 52973.8snT  
Dip Angle: 66.86°  
Date: 10/24/2011  
Model: IGRF2010



Project: COLORADO NORTHERN ZONE - 83  
Site: WELD\_RATTLER PAD 1  
Well: RATTLER 3N-34HZ  
Wellbore: RATTLER 3N-34HZ  
Section:  
SHL:  
Design: RATTLER 3N-34HZ (wp01)  
Latitude: 40.174920  
Longitude: -104.765624  
GL: 4990.00  
KB: gl + rkb @ 5007.00ft

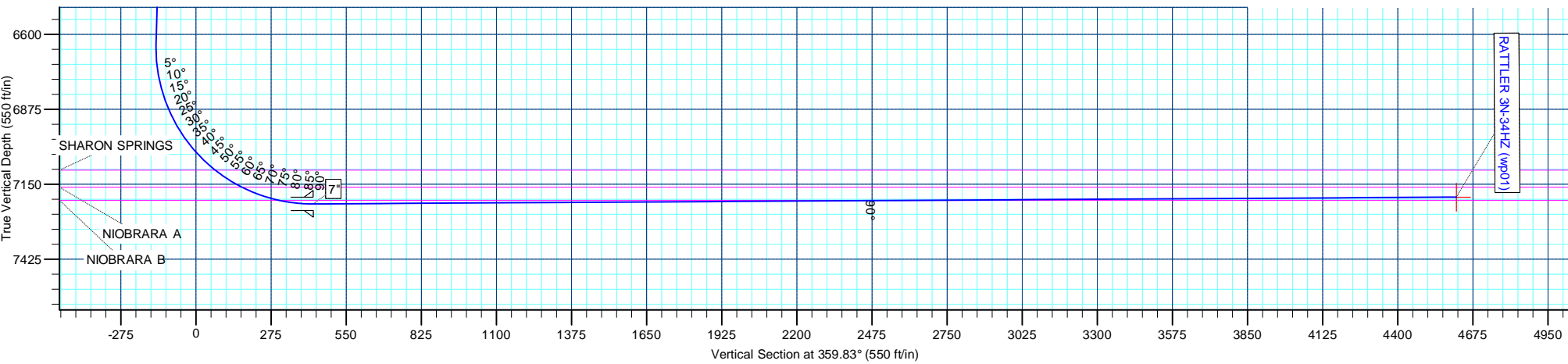
WELL DETAILS: RATTLER 3N-34HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	4990.00 Latitude	Longitude	Slot
0.00	0.00	1307415.99	3205208.02	40.174920	-104.765624	

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
1050.00	0.00	0.00	1050.00	0.00	0.00	0.00	0.00	0.00
1125.43	1.51	179.30	1125.42	-0.99	0.01	2.00	179.30	-0.99
6635.89	1.51	179.30	6633.97	-146.05	1.77	0.00	0.00	-146.05
7554.26	90.33	359.81	7222.00	430.00	0.00	10.00	-179.49	430.00
7555.62	90.34	359.81	7221.99	431.36	0.00	1.00	10.87	431.36
11739.10	90.34	359.81	7197.00	4614.74	-13.69	0.00	0.00	4614.76

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)							
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape	
RATTLER 3N-34HZ BHL	7197.00	4614.74	-13.69	40.187588	-104.765673	Point	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2649.00	2649.54	PARKMAN
4707.00	4708.25	SUSSEX
7098.00	7166.85	SHARON SPRINGS
7161.00	7284.16	NIOBRARA A
7209.00	7428.64	NIOBRARA B

CASING DETAILS			
TVD	MD	Name	Size
900.00	900.00	9 5/8"	9-5/8
7222.00	7554.26	7"	7



# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well RATTLER 3N-34HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	gl + rkb @ 5007.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	gl + rkb @ 5007.00ft
<b>Site:</b>	WELD_RATTLER PAD 1	<b>North Reference:</b>	True
<b>Well:</b>	RATTLER 3N-34HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	RATTLER 3N-34HZ		
<b>Design:</b>	RATTLER 3N-34HZ (wp01)		

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

<b>Site</b>	WELD_RATTLER PAD 1			
<b>Site Position:</b>		<b>Northing:</b>	1,307,415.13 usft	<b>Latitude:</b> 40.174919
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,205,148.23 usft	<b>Longitude:</b> -104.765838
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b> 0.47 °

<b>Well</b>	RATTLER 3N-34HZ			
<b>Well Position</b>	<b>+N/-S</b>	0.36 ft	<b>Northing:</b>	1,307,415.99 usft
	<b>+E/-W</b>	59.80 ft	<b>Easting:</b>	3,205,208.03 usft
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	<b>Latitude:</b> 40.174920
				<b>Longitude:</b> -104.765624
				<b>Ground Level:</b> 4,990.00 ft

<b>Wellbore</b>	RATTLER 3N-34HZ				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	10/24/2011	8.80	66.86	52,974

<b>Design</b>	RATTLER 3N-34HZ (wp01)			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	359.83

<b>Plan Sections</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,050.00	0.00	0.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,125.43	1.51	179.30	1,125.42	-0.99	0.01	2.00	2.00	0.00	179.30	
6,635.89	1.51	179.30	6,633.97	-146.05	1.77	0.00	0.00	0.00	0.00	
7,554.26	90.33	359.81	7,222.00	430.00	0.00	10.00	9.67	-19.54	-179.49	
7,555.62	90.34	359.81	7,221.99	431.36	0.00	1.00	0.98	0.19	10.87	
11,739.10	90.34	359.81	7,197.00	4,614.74	-13.69	0.00	0.00	0.00	0.00	RATTLER 3N-34HZ E

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well RATTLER 3N-34HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	gl + rkb @ 5007.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	gl + rkb @ 5007.00ft
<b>Site:</b>	WELD_RATTLER PAD 1	<b>North Reference:</b>	True
<b>Well:</b>	RATTLER 3N-34HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	RATTLER 3N-34HZ		
<b>Design:</b>	RATTLER 3N-34HZ (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
1,050.00	0.00	0.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,100.00	1.00	179.30	1,100.00	-0.44	0.01	-0.44	2.00	2.00	0.00
1,125.43	1.51	179.30	1,125.42	-0.99	0.01	-0.99	2.00	2.00	0.00
Start 5510.46 hold at 1125.43 MD									
1,200.00	1.51	179.30	1,199.97	-2.96	0.04	-2.96	0.00	0.00	0.00
1,300.00	1.51	179.30	1,299.93	-5.59	0.07	-5.59	0.00	0.00	0.00
1,400.00	1.51	179.30	1,399.90	-8.22	0.10	-8.22	0.00	0.00	0.00
1,500.00	1.51	179.30	1,499.86	-10.85	0.13	-10.85	0.00	0.00	0.00
1,600.00	1.51	179.30	1,599.83	-13.49	0.16	-13.49	0.00	0.00	0.00
1,700.00	1.51	179.30	1,699.79	-16.12	0.20	-16.12	0.00	0.00	0.00
1,800.00	1.51	179.30	1,799.76	-18.75	0.23	-18.75	0.00	0.00	0.00
1,900.00	1.51	179.30	1,899.72	-21.38	0.26	-21.38	0.00	0.00	0.00
2,000.00	1.51	179.30	1,999.69	-24.01	0.29	-24.02	0.00	0.00	0.00
2,100.00	1.51	179.30	2,099.65	-26.65	0.32	-26.65	0.00	0.00	0.00
2,200.00	1.51	179.30	2,199.62	-29.28	0.36	-29.28	0.00	0.00	0.00
2,300.00	1.51	179.30	2,299.58	-31.91	0.39	-31.91	0.00	0.00	0.00
2,400.00	1.51	179.30	2,399.55	-34.54	0.42	-34.55	0.00	0.00	0.00
2,500.00	1.51	179.30	2,499.51	-37.18	0.45	-37.18	0.00	0.00	0.00
2,600.00	1.51	179.30	2,599.48	-39.81	0.48	-39.81	0.00	0.00	0.00
2,649.54	1.51	179.30	2,649.00	-41.11	0.50	-41.11	0.00	0.00	0.00
PARKMAN									
2,700.00	1.51	179.30	2,699.45	-42.44	0.52	-42.44	0.00	0.00	0.00
2,800.00	1.51	179.30	2,799.41	-45.07	0.55	-45.07	0.00	0.00	0.00
2,900.00	1.51	179.30	2,899.38	-47.71	0.58	-47.71	0.00	0.00	0.00
3,000.00	1.51	179.30	2,999.34	-50.34	0.61	-50.34	0.00	0.00	0.00
3,100.00	1.51	179.30	3,099.31	-52.97	0.64	-52.97	0.00	0.00	0.00
3,200.00	1.51	179.30	3,199.27	-55.60	0.67	-55.60	0.00	0.00	0.00
3,300.00	1.51	179.30	3,299.24	-58.23	0.71	-58.24	0.00	0.00	0.00
3,400.00	1.51	179.30	3,399.20	-60.87	0.74	-60.87	0.00	0.00	0.00
3,500.00	1.51	179.30	3,499.17	-63.50	0.77	-63.50	0.00	0.00	0.00
3,600.00	1.51	179.30	3,599.13	-66.13	0.80	-66.13	0.00	0.00	0.00
3,700.00	1.51	179.30	3,699.10	-68.76	0.83	-68.77	0.00	0.00	0.00
3,800.00	1.51	179.30	3,799.06	-71.40	0.87	-71.40	0.00	0.00	0.00
3,900.00	1.51	179.30	3,899.03	-74.03	0.90	-74.03	0.00	0.00	0.00
4,000.00	1.51	179.30	3,999.00	-76.66	0.93	-76.66	0.00	0.00	0.00
4,100.00	1.51	179.30	4,098.96	-79.29	0.96	-79.30	0.00	0.00	0.00
4,200.00	1.51	179.30	4,198.93	-81.93	0.99	-81.93	0.00	0.00	0.00
4,300.00	1.51	179.30	4,298.89	-84.56	1.03	-84.56	0.00	0.00	0.00
4,400.00	1.51	179.30	4,398.86	-87.19	1.06	-87.19	0.00	0.00	0.00
4,500.00	1.51	179.30	4,498.82	-89.82	1.09	-89.83	0.00	0.00	0.00
4,600.00	1.51	179.30	4,598.79	-92.46	1.12	-92.46	0.00	0.00	0.00
4,700.00	1.51	179.30	4,698.75	-95.09	1.15	-95.09	0.00	0.00	0.00

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well RATTLER 3N-34HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	gl + rkb @ 5007.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	gl + rkb @ 5007.00ft
<b>Site:</b>	WELD_RATTLER PAD 1	<b>North Reference:</b>	True
<b>Well:</b>	RATTLER 3N-34HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	RATTLER 3N-34HZ		
<b>Design:</b>	RATTLER 3N-34HZ (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)	
4,708.25	1.51	179.30	4,707.00	-95.30	1.16	-95.31	0.00	0.00	0.00	
<b>SUSSEX</b>										
4,800.00	1.51	179.30	4,798.72	-97.72	1.19	-97.72	0.00	0.00	0.00	
4,900.00	1.51	179.30	4,898.68	-100.35	1.22	-100.36	0.00	0.00	0.00	
5,000.00	1.51	179.30	4,998.65	-102.98	1.25	-102.99	0.00	0.00	0.00	
5,100.00	1.51	179.30	5,098.61	-105.62	1.28	-105.62	0.00	0.00	0.00	
5,200.00	1.51	179.30	5,198.58	-108.25	1.31	-108.25	0.00	0.00	0.00	
5,300.00	1.51	179.30	5,298.54	-110.88	1.35	-110.89	0.00	0.00	0.00	
5,400.00	1.51	179.30	5,398.51	-113.51	1.38	-113.52	0.00	0.00	0.00	
5,500.00	1.51	179.30	5,498.48	-116.15	1.41	-116.15	0.00	0.00	0.00	
5,600.00	1.51	179.30	5,598.44	-118.78	1.44	-118.78	0.00	0.00	0.00	
5,700.00	1.51	179.30	5,698.41	-121.41	1.47	-121.42	0.00	0.00	0.00	
5,800.00	1.51	179.30	5,798.37	-124.04	1.51	-124.05	0.00	0.00	0.00	
5,900.00	1.51	179.30	5,898.34	-126.68	1.54	-126.68	0.00	0.00	0.00	
6,000.00	1.51	179.30	5,998.30	-129.31	1.57	-129.31	0.00	0.00	0.00	
6,100.00	1.51	179.30	6,098.27	-131.94	1.60	-131.94	0.00	0.00	0.00	
6,200.00	1.51	179.30	6,198.23	-134.57	1.63	-134.58	0.00	0.00	0.00	
6,300.00	1.51	179.30	6,298.20	-137.21	1.67	-137.21	0.00	0.00	0.00	
6,400.00	1.51	179.30	6,398.16	-139.84	1.70	-139.84	0.00	0.00	0.00	
6,500.00	1.51	179.30	6,498.13	-142.47	1.73	-142.47	0.00	0.00	0.00	
6,600.00	1.51	179.30	6,598.09	-145.10	1.76	-145.11	0.00	0.00	0.00	
6,635.89	1.51	179.30	6,633.97	-146.05	1.77	-146.05	0.00	0.00	0.00	
<b>Start DLS 10.00 TFO -179.49</b>										
6,700.00	4.90	359.97	6,698.02	-144.15	1.78	-144.15	10.00	5.29	-279.72	
6,800.00	14.90	359.86	6,796.41	-126.97	1.75	-126.98	10.00	10.00	-0.11	
6,900.00	24.90	359.84	6,890.31	-92.97	1.66	-92.98	10.00	10.00	-0.02	
7,000.00	34.90	359.83	6,976.89	-43.18	1.51	-43.19	10.00	10.00	-0.01	
7,100.00	44.90	359.82	7,053.51	20.88	1.32	20.88	10.00	10.00	-0.01	
7,166.85	51.59	359.82	7,098.00	70.73	1.16	70.72	10.00	10.00	0.00	
<b>SHARON SPRINGS</b>										
7,200.00	54.90	359.82	7,117.83	97.28	1.08	97.28	10.00	10.00	0.00	
7,284.16	63.32	359.82	7,161.00	169.44	0.85	169.44	10.00	10.00	0.00	
<b>NIOBRARA A</b>										
7,300.00	64.90	359.82	7,167.92	183.69	0.80	183.69	10.00	10.00	0.00	
7,390.37	73.94	359.81	7,199.65	268.20	0.53	268.20	10.00	10.00	0.00	
<b>RATTLER 3N-34HZ heel</b>										
7,400.00	74.90	359.81	7,202.23	277.48	0.50	277.48	10.00	10.00	0.00	
7,428.64	77.77	359.81	7,209.00	305.31	0.41	305.31	10.00	10.00	0.00	
<b>NIOBRARA B</b>										
7,500.00	84.90	359.81	7,219.74	375.81	0.18	375.80	10.00	10.00	0.00	
7,554.26	90.33	359.81	7,222.00	430.00	0.00	430.00	10.00	10.00	0.00	
<b>Start DLS 1.00 TFO 10.87 - 7"</b>										
7,555.62	90.34	359.81	7,221.99	431.36	0.00	431.36	1.01	0.99	0.19	
<b>Start 4183.48 hold at 7555.62 MD</b>										
7,600.00	90.34	359.81	7,221.73	475.74	-0.15	475.74	0.00	0.00	0.00	
7,700.00	90.34	359.81	7,221.13	575.73	-0.48	575.73	0.00	0.00	0.00	
7,800.00	90.34	359.81	7,220.53	675.73	-0.80	675.73	0.00	0.00	0.00	
7,900.00	90.34	359.81	7,219.93	775.73	-1.13	775.73	0.00	0.00	0.00	
8,000.00	90.34	359.81	7,219.34	875.73	-1.46	875.73	0.00	0.00	0.00	
8,100.00	90.34	359.81	7,218.74	975.73	-1.79	975.73	0.00	0.00	0.00	
8,200.00	90.34	359.81	7,218.14	1,075.72	-2.11	1,075.72	0.00	0.00	0.00	
8,300.00	90.34	359.81	7,217.55	1,175.72	-2.44	1,175.72	0.00	0.00	0.00	
8,400.00	90.34	359.81	7,216.95	1,275.72	-2.77	1,275.72	0.00	0.00	0.00	
8,500.00	90.34	359.81	7,216.35	1,375.72	-3.09	1,375.72	0.00	0.00	0.00	

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well RATTLER 3N-34HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	gl + rkb @ 5007.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	gl + rkb @ 5007.00ft
<b>Site:</b>	WELD_RATTLER PAD 1	<b>North Reference:</b>	True
<b>Well:</b>	RATTLER 3N-34HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	RATTLER 3N-34HZ		
<b>Design:</b>	RATTLER 3N-34HZ (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	90.34	359.81	7,215.75	1,475.71	-3.42	1,475.72	0.00	0.00	0.00
8,700.00	90.34	359.81	7,215.16	1,575.71	-3.75	1,575.72	0.00	0.00	0.00
8,800.00	90.34	359.81	7,214.56	1,675.71	-4.08	1,675.71	0.00	0.00	0.00
8,900.00	90.34	359.81	7,213.96	1,775.71	-4.40	1,775.71	0.00	0.00	0.00
9,000.00	90.34	359.81	7,213.36	1,875.70	-4.73	1,875.71	0.00	0.00	0.00
9,100.00	90.34	359.81	7,212.77	1,975.70	-5.06	1,975.71	0.00	0.00	0.00
9,200.00	90.34	359.81	7,212.17	2,075.70	-5.38	2,075.71	0.00	0.00	0.00
9,300.00	90.34	359.81	7,211.57	2,175.70	-5.71	2,175.71	0.00	0.00	0.00
9,400.00	90.34	359.81	7,210.97	2,275.70	-6.04	2,275.70	0.00	0.00	0.00
9,500.00	90.34	359.81	7,210.38	2,375.69	-6.37	2,375.70	0.00	0.00	0.00
9,600.00	90.34	359.81	7,209.78	2,475.69	-6.69	2,475.70	0.00	0.00	0.00
9,700.00	90.34	359.81	7,209.18	2,575.69	-7.02	2,575.70	0.00	0.00	0.00
9,800.00	90.34	359.81	7,208.58	2,675.69	-7.35	2,675.70	0.00	0.00	0.00
9,900.00	90.34	359.81	7,207.99	2,775.68	-7.67	2,775.69	0.00	0.00	0.00
10,000.00	90.34	359.81	7,207.39	2,875.68	-8.00	2,875.69	0.00	0.00	0.00
10,100.00	90.34	359.81	7,206.79	2,975.68	-8.33	2,975.69	0.00	0.00	0.00
10,200.00	90.34	359.81	7,206.19	3,075.68	-8.65	3,075.69	0.00	0.00	0.00
10,300.00	90.34	359.81	7,205.60	3,175.67	-8.98	3,175.69	0.00	0.00	0.00
10,400.00	90.34	359.81	7,205.00	3,275.67	-9.31	3,275.69	0.00	0.00	0.00
10,500.00	90.34	359.81	7,204.40	3,375.67	-9.64	3,375.68	0.00	0.00	0.00
10,600.00	90.34	359.81	7,203.81	3,475.67	-9.96	3,475.68	0.00	0.00	0.00
10,700.00	90.34	359.81	7,203.21	3,575.67	-10.29	3,575.68	0.00	0.00	0.00
10,800.00	90.34	359.81	7,202.61	3,675.66	-10.62	3,675.68	0.00	0.00	0.00
10,900.00	90.34	359.81	7,202.01	3,775.66	-10.94	3,775.68	0.00	0.00	0.00
11,000.00	90.34	359.81	7,201.42	3,875.66	-11.27	3,875.67	0.00	0.00	0.00
11,100.00	90.34	359.81	7,200.82	3,975.66	-11.60	3,975.67	0.00	0.00	0.00
11,200.00	90.34	359.81	7,200.22	4,075.65	-11.93	4,075.67	0.00	0.00	0.00
11,300.00	90.34	359.81	7,199.62	4,175.65	-12.25	4,175.67	0.00	0.00	0.00
11,400.00	90.34	359.81	7,199.03	4,275.65	-12.58	4,275.67	0.00	0.00	0.00
11,500.00	90.34	359.81	7,198.43	4,375.65	-12.91	4,375.67	0.00	0.00	0.00
11,600.00	90.34	359.81	7,197.83	4,475.64	-13.23	4,475.66	0.00	0.00	0.00
11,700.00	90.34	359.81	7,197.23	4,575.64	-13.56	4,575.66	0.00	0.00	0.00
11,739.10	90.34	359.81	7,197.00	4,614.74	-13.69	4,614.76	0.00	0.00	0.00
TD at 11739.10 - RATTLER 3N-34HZ BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
RATTLER 3N-34HZ BHL	0.00	0.00	7,197.00	4,614.74	-13.69	1,312,030.45	3,205,156.12	40.187588	-104.765673
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
900.00	900.00	9 5/8"	9-5/8	12-1/4	
7,554.26	7,222.00	7"	7	8-3/4	

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well RATTLER 3N-34HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	gl + rkb @ 5007.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	gl + rkb @ 5007.00ft
<b>Site:</b>	WELD_RATTLER PAD 1	<b>North Reference:</b>	True
<b>Well:</b>	RATTLER 3N-34HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	RATTLER 3N-34HZ		
<b>Design:</b>	RATTLER 3N-34HZ (wp01)		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,649.54	2,649.00	PARKMAN		0.00	
4,708.25	4,707.00	SUSSEX		0.00	
7,166.85	7,098.00	SHARON SPRINGS		0.00	
7,284.16	7,161.00	NIOBRARA A		0.00	
7,428.64	7,209.00	NIOBRARA B		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,050.00	1,050.00	0.00	0.00	Start Build 2.00
1,125.43	1,125.42	-0.99	0.01	Start 5510.46 hold at 1125.43 MD
6,635.89	6,633.97	-146.05	1.77	Start DLS 10.00 TFO -179.49
7,554.26	7,222.00	430.00	0.00	Start DLS 1.00 TFO 10.87
7,555.62	7,221.99	431.36	0.00	Start 4183.48 hold at 7555.62 MD
11,739.10	7,197.00	4,614.74	-13.69	TD at 11739.10