

# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**WELD\_USA FED 15-26HZ PAD**

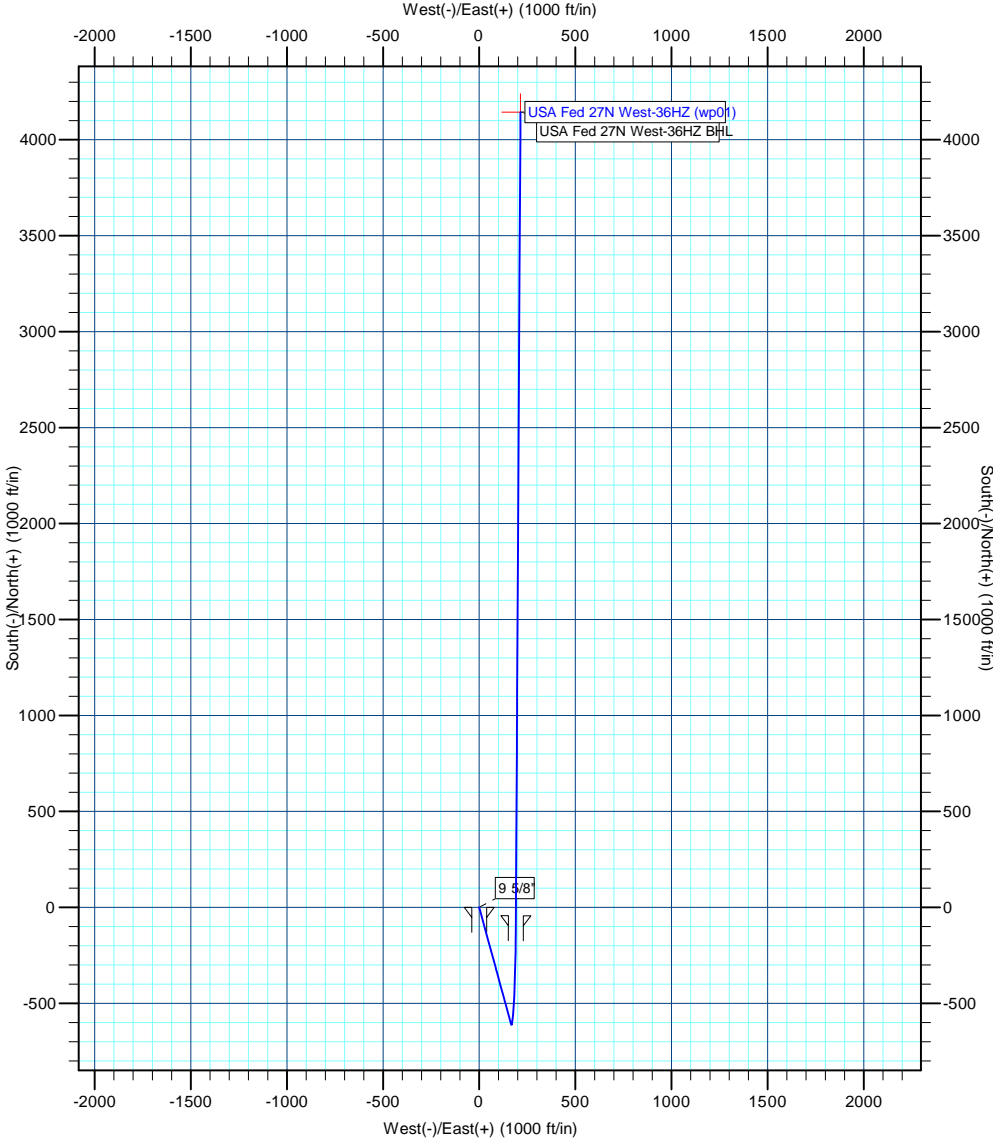
**USA Fed 27N West-36HZ**

**USA Fed 27N West-36HZ**

**Plan: USA Fed 27N West-36HZ (wp01)**

## **Standard Planning Report**

**29 March, 2012**



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Azimuths to True North

Magnetic North: 8.72°

Magnetic Field

Strength: 52933.9snT

Dip Angle: 66.85°

Date: 3/29/2012

Model: IGRF2010



Project: COLORADO NORTHERN ZONE - 83

Site: WELD USA FED 15-26HZ PAD

Well: USA Fed 27N West-36HZ

Wellbore: USA Fed 27N West-36HZ

Section:

SHL:

Design: USA Fed 27N West-36HZ (wp01)

Latitude: 40.176496

Longitude: -104.722742

GL: 4995.00

KB: GL + RKB @ 5012.00ft

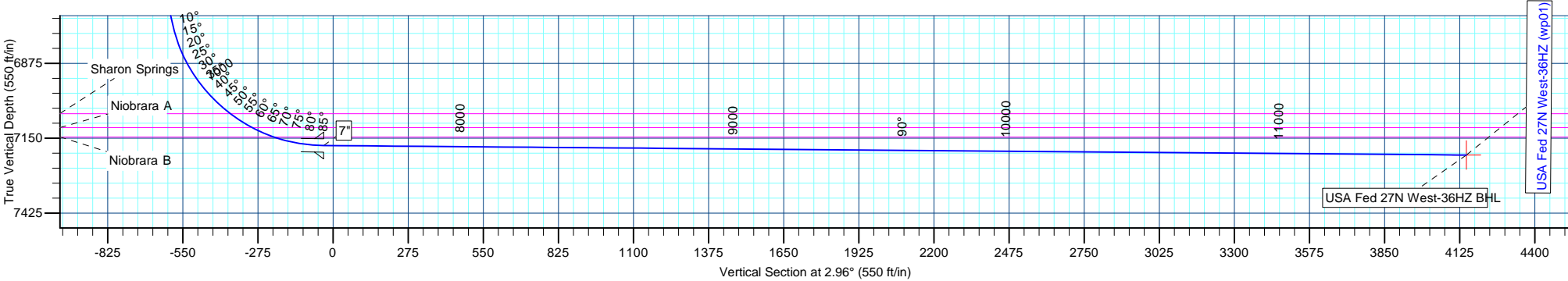
WELL DETAILS: USA Fed 27N West-36HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	4995.00 Latitude	Longitude	Slot
0.00	0.00	1308092.21	3217185.29	40.176496	-104.722742	

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
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00
1870.03	7.40	164.76	1869.00	-23.03	6.27	2.00	164.76	-22.67
6573.56	7.40	164.76	6533.35	-607.56	165.55	0.00	0.00	-598.19
7540.00	89.52	0.33	7177.00	-44.00	191.00	10.00	-164.32	-34.06
7540.62	89.52	0.32	7177.01	-43.39	191.00	1.00	-33.95	-33.45
11727.94	89.52	0.32	7212.00	4143.72	214.57	0.00	0.00	4149.27

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
USA Fed 27N West-36HZ BHL	7212.00	4143.72	214.57	40.187871	-104.721974	Point

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4035.00	4054.22	Parkman
4465.00	4487.84	Sussex
7060.00	7172.00	Sharon Springs
7111.00	7267.00	Niobrara A
7146.00	7355.39	Niobrara B

CASING DETAILS			
TVD	MD	Name	Size
800.00	800.00	9 5/8"	9-5/8
7177.00	7540.00	7"	7



# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well USA Fed 27N West-36HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL + RKB @ 5012.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	GL + RKB @ 5012.00ft
<b>Site:</b>	WELD_USA FED 15-26HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	USA Fed 27N West-36HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	USA Fed 27N West-36HZ		
<b>Design:</b>	USA Fed 27N West-36HZ (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		

Site		WELD_USA FED 15-26HZ PAD			
Site Position:		Northing:	1,308,092.21 usft	Latitude:	40.176496
From:	Lat/Long	Easting:	3,217,185.29 usft	Longitude:	-104.722742
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.50 °

Well		USA Fed 27N West-36HZ				
Well Position	+N/-S	0.00 ft	Northing:	1,308,092.21 usft	Latitude:	40.176496
	+E/-W	0.00 ft	Easting:	3,217,185.29 usft	Longitude:	-104.722742
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,995.00 ft

<b>Wellbore</b>	USA Fed 27N West-36HZ				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	3/29/2012	8.72	66.85	52,934

<b>Design</b>	USA Fed 27N West-36HZ (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	2.96

<b>Plan Sections</b>										
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	
1,870.03	7.40	164.76	1,869.00	-23.03	6.27	2.00	2.00	0.00	164.76	
6,573.56	7.40	164.76	6,533.35	-607.56	165.55	0.00	0.00	0.00	0.00	
7,540.00	89.52	0.33	7,177.00	-44.00	191.00	10.00	8.50	-17.01	-164.32	
7,540.62	89.52	0.32	7,177.01	-43.39	191.00	1.00	0.83	-0.56	-33.95	
11,727.94	89.52	0.32	7,212.00	4,143.72	214.57	0.00	0.00	0.00	0.00	USA Fed 27N West-3

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well USA Fed 27N West-36HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL + RKB @ 5012.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	GL + RKB @ 5012.00ft
<b>Site:</b>	WELD_USA FED 15-26HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	USA Fed 27N West-36HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	USA Fed 27N West-36HZ		
<b>Design:</b>	USA Fed 27N West-36HZ (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
9 5/8"									
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Start Build 2.00									
1,600.00	2.00	164.76	1,599.98	-1.68	0.46	-1.66	2.00	2.00	0.00
1,700.00	4.00	164.76	1,699.84	-6.73	1.83	-6.63	2.00	2.00	0.00
1,800.00	6.00	164.76	1,799.45	-15.14	4.13	-14.91	2.00	2.00	0.00
1,870.03	7.40	164.76	1,869.00	-23.03	6.27	-22.67	2.00	2.00	0.00
Start 4703.53 hold at 1870.03 MD									
1,900.00	7.40	164.76	1,898.72	-26.75	7.29	-26.34	0.00	0.00	0.00
2,000.00	7.40	164.76	1,997.89	-39.18	10.67	-38.57	0.00	0.00	0.00
2,100.00	7.40	164.76	2,097.06	-51.60	14.06	-50.81	0.00	0.00	0.00
2,200.00	7.40	164.76	2,196.22	-64.03	17.45	-63.04	0.00	0.00	0.00
2,300.00	7.40	164.76	2,295.39	-76.46	20.83	-75.28	0.00	0.00	0.00
2,400.00	7.40	164.76	2,394.56	-88.89	24.22	-87.52	0.00	0.00	0.00
2,500.00	7.40	164.76	2,493.72	-101.31	27.61	-99.75	0.00	0.00	0.00
2,600.00	7.40	164.76	2,592.89	-113.74	30.99	-111.99	0.00	0.00	0.00
2,700.00	7.40	164.76	2,692.06	-126.17	34.38	-124.22	0.00	0.00	0.00
2,800.00	7.40	164.76	2,791.23	-138.60	37.76	-136.46	0.00	0.00	0.00
2,900.00	7.40	164.76	2,890.39	-151.02	41.15	-148.69	0.00	0.00	0.00
3,000.00	7.40	164.76	2,989.56	-163.45	44.54	-160.93	0.00	0.00	0.00
3,100.00	7.40	164.76	3,088.73	-175.88	47.92	-173.17	0.00	0.00	0.00
3,200.00	7.40	164.76	3,187.89	-188.31	51.31	-185.40	0.00	0.00	0.00
3,300.00	7.40	164.76	3,287.06	-200.74	54.70	-197.64	0.00	0.00	0.00
3,400.00	7.40	164.76	3,386.23	-213.16	58.08	-209.87	0.00	0.00	0.00
3,500.00	7.40	164.76	3,485.39	-225.59	61.47	-222.11	0.00	0.00	0.00
3,600.00	7.40	164.76	3,584.56	-238.02	64.85	-234.35	0.00	0.00	0.00
3,700.00	7.40	164.76	3,683.73	-250.45	68.24	-246.58	0.00	0.00	0.00
3,800.00	7.40	164.76	3,782.89	-262.87	71.63	-258.82	0.00	0.00	0.00
3,900.00	7.40	164.76	3,882.06	-275.30	75.01	-271.05	0.00	0.00	0.00
4,000.00	7.40	164.76	3,981.23	-287.73	78.40	-283.29	0.00	0.00	0.00
4,054.22	7.40	164.76	4,035.00	-294.47	80.24	-289.92	0.00	0.00	0.00
Parkman									
4,100.00	7.40	164.76	4,080.40	-300.16	81.79	-295.52	0.00	0.00	0.00
4,200.00	7.40	164.76	4,179.56	-312.58	85.17	-307.76	0.00	0.00	0.00
4,300.00	7.40	164.76	4,278.73	-325.01	88.56	-320.00	0.00	0.00	0.00
4,400.00	7.40	164.76	4,377.90	-337.44	91.94	-332.23	0.00	0.00	0.00
4,487.84	7.40	164.76	4,465.00	-348.35	94.92	-342.98	0.00	0.00	0.00
Sussex									
4,500.00	7.40	164.76	4,477.06	-349.87	95.33	-344.47	0.00	0.00	0.00

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well USA Fed 27N West-36HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL + RKB @ 5012.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	GL + RKB @ 5012.00ft
<b>Site:</b>	WELD_USA FED 15-26HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	USA Fed 27N West-36HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	USA Fed 27N West-36HZ		
<b>Design:</b>	USA Fed 27N West-36HZ (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)
4,600.00	7.40	164.76	4,576.23	-362.29	98.72	-356.70	0.00	0.00	0.00
4,700.00	7.40	164.76	4,675.40	-374.72	102.10	-368.94	0.00	0.00	0.00
4,800.00	7.40	164.76	4,774.56	-387.15	105.49	-381.18	0.00	0.00	0.00
4,900.00	7.40	164.76	4,873.73	-399.58	108.88	-393.41	0.00	0.00	0.00
5,000.00	7.40	164.76	4,972.90	-412.00	112.26	-405.65	0.00	0.00	0.00
5,100.00	7.40	164.76	5,072.07	-424.43	115.65	-417.88	0.00	0.00	0.00
5,200.00	7.40	164.76	5,171.23	-436.86	119.03	-430.12	0.00	0.00	0.00
5,300.00	7.40	164.76	5,270.40	-449.29	122.42	-442.35	0.00	0.00	0.00
5,400.00	7.40	164.76	5,369.57	-461.71	125.81	-454.59	0.00	0.00	0.00
5,500.00	7.40	164.76	5,468.73	-474.14	129.19	-466.83	0.00	0.00	0.00
5,600.00	7.40	164.76	5,567.90	-486.57	132.58	-479.06	0.00	0.00	0.00
5,700.00	7.40	164.76	5,667.07	-499.00	135.97	-491.30	0.00	0.00	0.00
5,800.00	7.40	164.76	5,766.23	-511.42	139.35	-503.53	0.00	0.00	0.00
5,900.00	7.40	164.76	5,865.40	-523.85	142.74	-515.77	0.00	0.00	0.00
6,000.00	7.40	164.76	5,964.57	-536.28	146.12	-528.01	0.00	0.00	0.00
6,100.00	7.40	164.76	6,063.74	-548.71	149.51	-540.24	0.00	0.00	0.00
6,200.00	7.40	164.76	6,162.90	-561.13	152.90	-552.48	0.00	0.00	0.00
6,300.00	7.40	164.76	6,262.07	-573.56	156.28	-564.71	0.00	0.00	0.00
6,400.00	7.40	164.76	6,361.24	-585.99	159.67	-576.95	0.00	0.00	0.00
6,500.00	7.40	164.76	6,460.40	-598.42	163.06	-589.18	0.00	0.00	0.00
6,573.56	7.40	164.76	6,533.35	-607.56	165.55	-598.19	0.00	0.00	0.00
Start DLS 10.00 TFO -164.32									
6,600.00	4.91	156.38	6,559.64	-610.24	166.45	-600.81	10.00	-9.43	-31.69
6,700.00	5.86	20.13	6,659.45	-609.36	169.93	-599.76	10.00	0.96	-136.25
6,800.00	15.64	7.45	6,757.58	-591.15	173.44	-581.39	10.00	9.78	-12.67
6,900.00	25.59	4.48	6,851.06	-556.17	176.89	-546.28	10.00	9.95	-2.98
7,000.00	35.56	3.10	6,937.05	-505.47	180.16	-495.48	10.00	9.98	-1.38
7,100.00	45.55	2.27	7,012.93	-440.60	183.15	-430.54	10.00	9.99	-0.83
7,172.00	52.74	1.83	7,060.00	-386.21	185.08	-376.13	10.00	9.99	-0.61
Sharon Springs									
7,200.00	55.54	1.68	7,076.40	-363.54	185.77	-353.44	10.00	9.99	-0.53
7,267.00	62.23	1.36	7,111.00	-306.23	187.29	-296.13	10.00	9.99	-0.48
Niobrara A									
7,300.00	65.53	1.22	7,125.53	-276.61	187.95	-266.52	10.00	9.99	-0.43
7,355.39	71.07	0.99	7,146.00	-225.17	188.94	-215.10	10.00	9.99	-0.40
Niobrara B									
7,400.00	75.52	0.82	7,158.82	-182.46	189.62	-172.41	10.00	9.99	-0.38
7,500.00	85.52	0.47	7,175.27	-83.96	190.72	-73.98	10.00	9.99	-0.36
7,540.00	89.52	0.33	7,177.00	-44.00	191.00	-34.07	10.00	9.99	-0.35
Start DLS 1.00 TFO -33.95 - 7"									
7,540.62	89.52	0.32	7,177.01	-43.39	191.00	-33.45	1.06	0.90	-0.56
Start 4187.32 hold at 7540.62 MD									
7,600.00	89.52	0.32	7,177.50	15.99	191.34	25.87	0.00	0.00	0.00
7,700.00	89.52	0.32	7,178.34	115.99	191.90	125.76	0.00	0.00	0.00
7,800.00	89.52	0.32	7,179.17	215.98	192.46	225.65	0.00	0.00	0.00
7,900.00	89.52	0.32	7,180.01	315.98	193.03	325.54	0.00	0.00	0.00
8,000.00	89.52	0.32	7,180.84	415.97	193.59	425.43	0.00	0.00	0.00
8,100.00	89.52	0.32	7,181.68	515.97	194.15	525.32	0.00	0.00	0.00
8,200.00	89.52	0.32	7,182.52	615.96	194.71	625.21	0.00	0.00	0.00
8,300.00	89.52	0.32	7,183.35	715.96	195.28	725.10	0.00	0.00	0.00
8,400.00	89.52	0.32	7,184.19	815.95	195.84	824.99	0.00	0.00	0.00
8,500.00	89.52	0.32	7,185.02	915.95	196.40	924.88	0.00	0.00	0.00
8,600.00	89.52	0.32	7,185.86	1,015.94	196.96	1,024.77	0.00	0.00	0.00

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well USA Fed 27N West-36HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL + RKB @ 5012.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	GL + RKB @ 5012.00ft
<b>Site:</b>	WELD_USA FED 15-26HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	USA Fed 27N West-36HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	USA Fed 27N West-36HZ		
<b>Design:</b>	USA Fed 27N West-36HZ (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)
8,700.00	89.52	0.32	7,186.69	1,115.94	197.53	1,124.66	0.00	0.00	0.00
8,800.00	89.52	0.32	7,187.53	1,215.93	198.09	1,224.55	0.00	0.00	0.00
8,900.00	89.52	0.32	7,188.37	1,315.93	198.65	1,324.44	0.00	0.00	0.00
9,000.00	89.52	0.32	7,189.20	1,415.92	199.22	1,424.33	0.00	0.00	0.00
9,100.00	89.52	0.32	7,190.04	1,515.92	199.78	1,524.22	0.00	0.00	0.00
9,200.00	89.52	0.32	7,190.87	1,615.91	200.34	1,624.11	0.00	0.00	0.00
9,300.00	89.52	0.32	7,191.71	1,715.91	200.90	1,724.00	0.00	0.00	0.00
9,400.00	89.52	0.32	7,192.54	1,815.90	201.47	1,823.89	0.00	0.00	0.00
9,500.00	89.52	0.32	7,193.38	1,915.90	202.03	1,923.78	0.00	0.00	0.00
9,600.00	89.52	0.32	7,194.22	2,015.89	202.59	2,023.67	0.00	0.00	0.00
9,700.00	89.52	0.32	7,195.05	2,115.89	203.15	2,123.56	0.00	0.00	0.00
9,800.00	89.52	0.32	7,195.89	2,215.88	203.72	2,223.45	0.00	0.00	0.00
9,900.00	89.52	0.32	7,196.72	2,315.88	204.28	2,323.34	0.00	0.00	0.00
10,000.00	89.52	0.32	7,197.56	2,415.87	204.84	2,423.23	0.00	0.00	0.00
10,100.00	89.52	0.32	7,198.39	2,515.87	205.41	2,523.12	0.00	0.00	0.00
10,200.00	89.52	0.32	7,199.23	2,615.86	205.97	2,623.01	0.00	0.00	0.00
10,300.00	89.52	0.32	7,200.07	2,715.86	206.53	2,722.90	0.00	0.00	0.00
10,400.00	89.52	0.32	7,200.90	2,815.85	207.09	2,822.79	0.00	0.00	0.00
10,500.00	89.52	0.32	7,201.74	2,915.85	207.66	2,922.68	0.00	0.00	0.00
10,600.00	89.52	0.32	7,202.57	3,015.84	208.22	3,022.57	0.00	0.00	0.00
10,700.00	89.52	0.32	7,203.41	3,115.84	208.78	3,122.46	0.00	0.00	0.00
10,800.00	89.52	0.32	7,204.25	3,215.83	209.34	3,222.35	0.00	0.00	0.00
10,900.00	89.52	0.32	7,205.08	3,315.82	209.91	3,322.24	0.00	0.00	0.00
11,000.00	89.52	0.32	7,205.92	3,415.82	210.47	3,422.13	0.00	0.00	0.00
11,100.00	89.52	0.32	7,206.75	3,515.81	211.03	3,522.02	0.00	0.00	0.00
11,200.00	89.52	0.32	7,207.59	3,615.81	211.59	3,621.91	0.00	0.00	0.00
11,300.00	89.52	0.32	7,208.42	3,715.80	212.16	3,721.80	0.00	0.00	0.00
11,400.00	89.52	0.32	7,209.26	3,815.80	212.72	3,821.69	0.00	0.00	0.00
11,500.00	89.52	0.32	7,210.10	3,915.79	213.28	3,921.58	0.00	0.00	0.00
11,600.00	89.52	0.32	7,210.93	4,015.79	213.85	4,021.47	0.00	0.00	0.00
11,700.00	89.52	0.32	7,211.77	4,115.78	214.41	4,121.37	0.00	0.00	0.00
11,727.94	89.52	0.32	7,212.00	4,143.72	214.57	4,149.27	0.00	0.00	0.00
TD at 11727.94 - USA Fed 27N West-36HZ BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
USA Fed 27N West-36H	0.00	0.00	7,212.00	4,143.72	214.57	1,312,237.65	3,217,363.53	40.187871	-104.721974
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
800.00	800.00	9 5/8"	9-5/8	12-1/4	
7,540.00	7,177.00	7"	7	8-3/4	

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well USA Fed 27N West-36HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL + RKB @ 5012.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	GL + RKB @ 5012.00ft
<b>Site:</b>	WELD_USA FED 15-26HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	USA Fed 27N West-36HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	USA Fed 27N West-36HZ		
<b>Design:</b>	USA Fed 27N West-36HZ (wp01)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,054.22	4,035.00	Parkman				
4,487.84	4,465.00	Sussex				
7,172.00	7,060.00	Sharon Springs				
7,267.00	7,111.00	Niobrara A				
7,355.39	7,146.00	Niobrara B				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,500.00	1,500.00	0.00	0.00	Start Build 2.00	
1,870.03	1,869.00	-23.03	6.27	Start 4703.53 hold at 1870.03 MD	
6,573.56	6,533.35	-607.56	165.55	Start DLS 10.00 TFO -164.32	
7,540.00	7,177.00	-44.00	191.00	Start DLS 1.00 TFO -33.95	
7,540.62	7,177.01	-43.39	191.00	Start 4187.32 hold at 7540.62 MD	
11,727.94	7,212.00	4,143.72	214.57	TD at 11727.94	