

# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**WELD\_SARCHET 1-32HZ Pad**

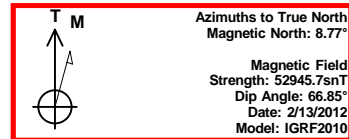
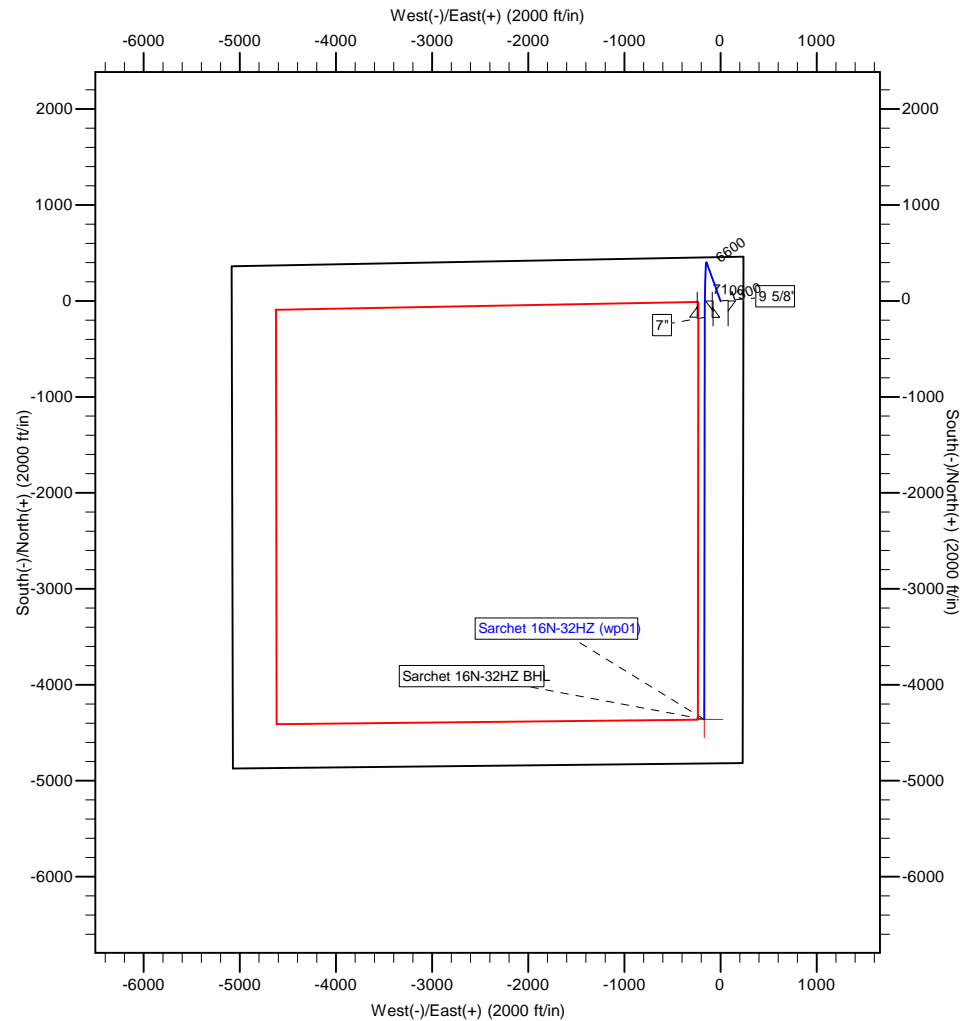
**Sarchet 16N-32HZ**

**Sarchet 16N-32HZ**

**Plan: Sarchet 16N-32HZ (wp01)**

## **Standard Planning Report**

**13 February, 2012**



Project: COLORADO NORTHERN ZONE - 83  
Site: WELD\_SARCHET 1-32HZ Pad  
Well: Sarchet 16N-32HZ  
Wellbore: Sarchet 16N-32HZ  
Section:  
SHL:  
Design: Sarchet 16N-32HZ (wp01)  
Latitude: 40.187406  
Longitude: -104.792453  
GL: 4924.00  
KB: rkb + GL @ 4940.00ft

#### WELL DETAILS: Sarchet 16N-32HZ

+N/-S	+E/-W	Northing	Ground Level: Easting	4924.00 Latitude	Longitude	Slot
0.00	0.00	1311903.31	3197675.02	40.187406	-104.792453	

#### 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
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00
1432.44	4.65	340.06	1432.18	8.86	-3.21	2.00	340.06	-8.73
6596.90	4.65	340.06	6579.65	402.32	-145.99	0.00	0.00	-396.32
7541.62	90.11	180.08	7196.00	-170.00	-164.00	10.00	-159.91	176.27
7542.16	90.11	180.08	7196.00	-170.54	-164.00	1.00	37.66	176.81
1731.72	90.11	180.08	7188.00	-4360.09	-170.17	0.00	0.00	4363.41

#### WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

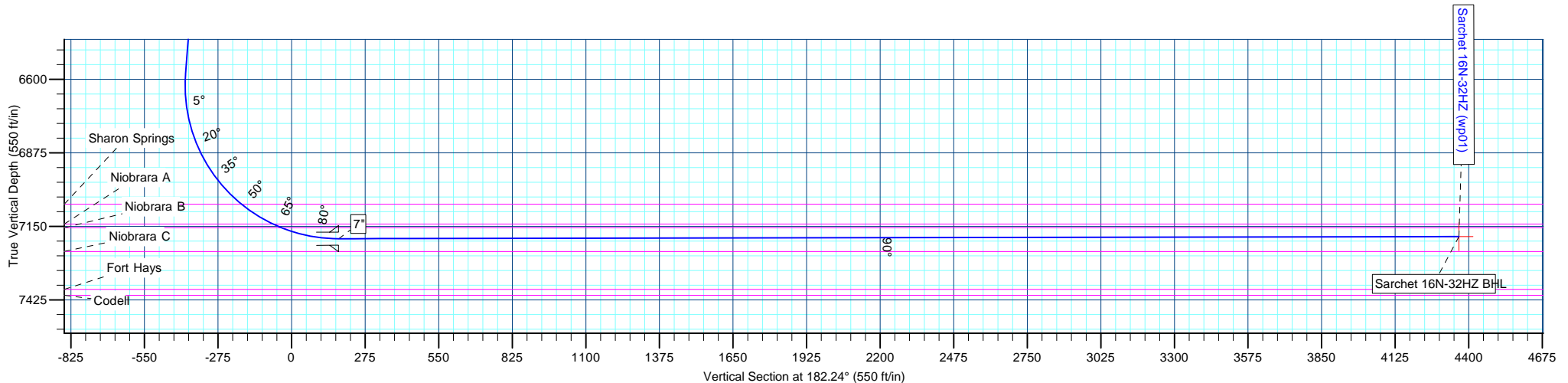
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Sarchet 16N-32HZ BHL	7188.00	-4360.09	-170.17	40.175437	-104.793062	Point

#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3918.00	3926.46	Parkman
4357.00	4366.91	Sussex
7067.00	7148.41	Sharon Springs
7141.00	7287.42	Niobrara A
7155.00	7322.46	Niobrara B

#### CASING DETAILS

TVD	MD	Name	Size
750.00	750.00	9 5/8"	9-5/8
7196.00	7541.62	7"	7



# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well Sarchet 16N-32HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	rkb + GL @ 4940.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	rkb + GL @ 4940.00ft
<b>Site:</b>	WELD_SARCHET 1-32HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	Sarchet 16N-32HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Sarchet 16N-32HZ		
<b>Design:</b>	Sarchet 16N-32HZ (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_SARCHET 1-32HZ Pad			
Site Position:		Northing:	1,311,901.75 usft	Latitude:	40.187403
From:	Lat/Long	Easting:	3,197,615.24 usft	Longitude:	-104.792667
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.46 °

Well		Sarchet 16N-32HZ				
Well Position	+N/-S	1.08 ft	Northing:	1,311,903.31 usft	Latitude:	40.187406
	+E/-W	59.79 ft	Easting:	3,197,675.02 usft	Longitude:	-104.792453
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,924.00 ft

<b>Wellbore</b>	Sarchet 16N-32HZ				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2/13/2012	8.77	66.85	52,946

<b>Design</b>	Sarchet 16N-32HZ (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	182.24

<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	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,432.44	4.65	340.06	1,432.18	8.86	-3.21	2.00	2.00	0.00	340.06	
6,596.90	4.65	340.06	6,579.65	402.32	-145.99	0.00	0.00	0.00	0.00	
7,541.62	90.11	180.08	7,196.00	-170.00	-164.00	10.00	9.05	-16.93	-159.91	
7,542.16	90.11	180.08	7,196.00	-170.54	-164.00	1.00	0.79	0.61	37.66	
11,731.72	90.11	180.08	7,188.00	-4,360.09	-170.17	0.00	0.00	0.00	0.00	Sarchet 16N-32HZ Bt

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well Sarchet 16N-32HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	rkb + GL @ 4940.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	rkb + GL @ 4940.00ft
<b>Site:</b>	WELD_SARCHET 1-32HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	Sarchet 16N-32HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Sarchet 16N-32HZ		
<b>Design:</b>	Sarchet 16N-32HZ (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
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
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
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	2.00	340.06	1,299.98	1.64	-0.60	-1.62	2.00	2.00	0.00
1,400.00	4.00	340.06	1,399.84	6.56	-2.38	-6.46	2.00	2.00	0.00
1,432.44	4.65	340.06	1,432.18	8.86	-3.21	-8.73	2.00	2.00	0.00
1,500.00	4.65	340.06	1,499.52	14.01	-5.08	-13.80	0.00	0.00	0.00
1,600.00	4.65	340.06	1,599.19	21.63	-7.85	-21.30	0.00	0.00	0.00
1,700.00	4.65	340.06	1,698.86	29.24	-10.61	-28.81	0.00	0.00	0.00
1,800.00	4.65	340.06	1,798.54	36.86	-13.38	-36.31	0.00	0.00	0.00
1,900.00	4.65	340.06	1,898.21	44.48	-16.14	-43.82	0.00	0.00	0.00
2,000.00	4.65	340.06	1,997.88	52.10	-18.91	-51.32	0.00	0.00	0.00
2,100.00	4.65	340.06	2,097.55	59.72	-21.67	-58.83	0.00	0.00	0.00
2,200.00	4.65	340.06	2,197.22	67.34	-24.44	-66.33	0.00	0.00	0.00
2,300.00	4.65	340.06	2,296.89	74.96	-27.20	-73.84	0.00	0.00	0.00
2,400.00	4.65	340.06	2,396.56	82.57	-29.96	-81.34	0.00	0.00	0.00
2,500.00	4.65	340.06	2,496.23	90.19	-32.73	-88.85	0.00	0.00	0.00
2,600.00	4.65	340.06	2,595.90	97.81	-35.49	-96.35	0.00	0.00	0.00
2,700.00	4.65	340.06	2,695.58	105.43	-38.26	-103.86	0.00	0.00	0.00
2,800.00	4.65	340.06	2,795.25	113.05	-41.02	-111.36	0.00	0.00	0.00
2,900.00	4.65	340.06	2,894.92	120.67	-43.79	-118.87	0.00	0.00	0.00
3,000.00	4.65	340.06	2,994.59	128.29	-46.55	-126.37	0.00	0.00	0.00
3,100.00	4.65	340.06	3,094.26	135.90	-49.32	-133.88	0.00	0.00	0.00
3,200.00	4.65	340.06	3,193.93	143.52	-52.08	-141.38	0.00	0.00	0.00
3,300.00	4.65	340.06	3,293.60	151.14	-54.85	-148.89	0.00	0.00	0.00
3,400.00	4.65	340.06	3,393.27	158.76	-57.61	-156.39	0.00	0.00	0.00
3,500.00	4.65	340.06	3,492.94	166.38	-60.38	-163.90	0.00	0.00	0.00
3,600.00	4.65	340.06	3,592.61	174.00	-63.14	-171.40	0.00	0.00	0.00
3,700.00	4.65	340.06	3,692.29	181.62	-65.91	-178.91	0.00	0.00	0.00
3,800.00	4.65	340.06	3,791.96	189.24	-68.67	-186.41	0.00	0.00	0.00
3,900.00	4.65	340.06	3,891.63	196.85	-71.43	-193.92	0.00	0.00	0.00
3,926.46	4.65	340.06	3,918.00	198.87	-72.17	-195.90	0.00	0.00	0.00
Parkman									
4,000.00	4.65	340.06	3,991.30	204.47	-74.20	-201.42	0.00	0.00	0.00
4,100.00	4.65	340.06	4,090.97	212.09	-76.96	-208.93	0.00	0.00	0.00
4,200.00	4.65	340.06	4,190.64	219.71	-79.73	-216.43	0.00	0.00	0.00
4,300.00	4.65	340.06	4,290.31	227.33	-82.49	-223.94	0.00	0.00	0.00
4,366.91	4.65	340.06	4,357.00	232.43	-84.34	-228.96	0.00	0.00	0.00
Sussex									
4,400.00	4.65	340.06	4,389.98	234.95	-85.26	-231.44	0.00	0.00	0.00
4,500.00	4.65	340.06	4,489.65	242.57	-88.02	-238.95	0.00	0.00	0.00

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well Sarchet 16N-32HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	rkb + GL @ 4940.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	rkb + GL @ 4940.00ft
<b>Site:</b>	WELD_SARCHET 1-32HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	Sarchet 16N-32HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Sarchet 16N-32HZ		
<b>Design:</b>	Sarchet 16N-32HZ (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	4.65	340.06	4,589.32	250.18	-90.79	-246.45	0.00	0.00	0.00
4,700.00	4.65	340.06	4,689.00	257.80	-93.55	-253.96	0.00	0.00	0.00
4,800.00	4.65	340.06	4,788.67	265.42	-96.32	-261.46	0.00	0.00	0.00
4,900.00	4.65	340.06	4,888.34	273.04	-99.08	-268.97	0.00	0.00	0.00
5,000.00	4.65	340.06	4,988.01	280.66	-101.85	-276.47	0.00	0.00	0.00
5,100.00	4.65	340.06	5,087.68	288.28	-104.61	-283.98	0.00	0.00	0.00
5,200.00	4.65	340.06	5,187.35	295.90	-107.38	-291.48	0.00	0.00	0.00
5,300.00	4.65	340.06	5,287.02	303.52	-110.14	-298.99	0.00	0.00	0.00
5,400.00	4.65	340.06	5,386.69	311.13	-112.90	-306.49	0.00	0.00	0.00
5,500.00	4.65	340.06	5,486.36	318.75	-115.67	-314.00	0.00	0.00	0.00
5,600.00	4.65	340.06	5,586.03	326.37	-118.43	-321.50	0.00	0.00	0.00
5,700.00	4.65	340.06	5,685.71	333.99	-121.20	-329.01	0.00	0.00	0.00
5,800.00	4.65	340.06	5,785.38	341.61	-123.96	-336.51	0.00	0.00	0.00
5,900.00	4.65	340.06	5,885.05	349.23	-126.73	-344.02	0.00	0.00	0.00
6,000.00	4.65	340.06	5,984.72	356.85	-129.49	-351.52	0.00	0.00	0.00
6,100.00	4.65	340.06	6,084.39	364.46	-132.26	-359.03	0.00	0.00	0.00
6,200.00	4.65	340.06	6,184.06	372.08	-135.02	-366.53	0.00	0.00	0.00
6,300.00	4.65	340.06	6,283.73	379.70	-137.79	-374.04	0.00	0.00	0.00
6,400.00	4.65	340.06	6,383.40	387.32	-140.55	-381.54	0.00	0.00	0.00
6,500.00	4.65	340.06	6,483.07	394.94	-143.32	-389.05	0.00	0.00	0.00
6,596.90	4.65	340.06	6,579.65	402.32	-145.99	-396.32	0.00	0.00	0.00
6,600.00	4.36	338.65	6,582.75	402.55	-146.08	-396.55	10.00	-9.35	-45.20
6,700.00	6.15	195.06	6,682.57	400.91	-148.86	-394.80	10.00	1.79	-143.60
6,800.00	16.02	185.65	6,780.59	381.95	-151.62	-375.75	10.00	9.87	-9.41
6,900.00	25.99	183.36	6,873.82	346.26	-154.27	-339.98	10.00	9.97	-2.29
7,000.00	35.97	182.28	6,959.45	294.91	-156.73	-288.57	10.00	9.99	-1.08
7,100.00	45.96	181.63	7,034.86	229.46	-158.93	-223.09	10.00	9.99	-0.66
7,148.41	50.80	181.39	7,067.00	193.30	-159.87	-186.92	10.00	9.99	-0.50
Sharon Springs									
7,200.00	55.96	181.16	7,097.77	151.91	-160.79	-145.53	10.00	9.99	-0.43
7,287.42	64.70	180.84	7,141.00	76.05	-162.11	-69.67	10.00	9.99	-0.37
Niobrara A									
7,300.00	65.95	180.80	7,146.25	64.61	-162.27	-58.24	10.00	10.00	-0.34
7,322.46	68.20	180.72	7,155.00	43.93	-162.54	-37.56	10.00	10.00	-0.33
Niobrara B									
7,400.00	75.95	180.48	7,178.85	-29.79	-163.32	36.13	10.00	10.00	-0.31
7,500.00	85.94	180.20	7,194.57	-128.41	-163.90	134.71	10.00	10.00	-0.29
7,541.62	90.10	180.08	7,196.00	-170.00	-164.00	176.27	10.00	10.00	-0.28
7"									
7,542.16	90.11	180.08	7,196.00	-170.54	-164.00	176.81	1.02	0.82	0.61
7,600.00	90.11	180.08	7,195.89	-228.38	-164.09	234.60	0.00	0.00	0.00
7,700.00	90.11	180.08	7,195.70	-328.38	-164.23	334.53	0.00	0.00	0.00
7,800.00	90.11	180.08	7,195.51	-428.38	-164.38	434.46	0.00	0.00	0.00
7,900.00	90.11	180.08	7,195.32	-528.38	-164.53	534.39	0.00	0.00	0.00
8,000.00	90.11	180.08	7,195.13	-628.38	-164.68	634.32	0.00	0.00	0.00
8,100.00	90.11	180.08	7,194.93	-728.38	-164.82	734.25	0.00	0.00	0.00
8,200.00	90.11	180.08	7,194.74	-828.38	-164.97	834.18	0.00	0.00	0.00
8,300.00	90.11	180.08	7,194.55	-928.38	-165.12	934.11	0.00	0.00	0.00
8,400.00	90.11	180.08	7,194.36	-1,028.38	-165.26	1,034.04	0.00	0.00	0.00
8,500.00	90.11	180.08	7,194.17	-1,128.38	-165.41	1,133.97	0.00	0.00	0.00
8,600.00	90.11	180.08	7,193.98	-1,228.38	-165.56	1,233.90	0.00	0.00	0.00
8,700.00	90.11	180.08	7,193.79	-1,328.38	-165.71	1,333.83	0.00	0.00	0.00
8,800.00	90.11	180.08	7,193.60	-1,428.37	-165.85	1,433.76	0.00	0.00	0.00
8,900.00	90.11	180.08	7,193.41	-1,528.37	-166.00	1,533.69	0.00	0.00	0.00

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well Sarchet 16N-32HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	rkb + GL @ 4940.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	rkb + GL @ 4940.00ft
<b>Site:</b>	WELD_SARCHET 1-32HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	Sarchet 16N-32HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Sarchet 16N-32HZ		
<b>Design:</b>	Sarchet 16N-32HZ (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)	
9,000.00	90.11	180.08	7,193.22	-1,628.37	-166.15	1,633.62	0.00	0.00	0.00	
9,100.00	90.11	180.08	7,193.02	-1,728.37	-166.30	1,733.54	0.00	0.00	0.00	
9,200.00	90.11	180.08	7,192.83	-1,828.37	-166.44	1,833.47	0.00	0.00	0.00	
9,300.00	90.11	180.08	7,192.64	-1,928.37	-166.59	1,933.40	0.00	0.00	0.00	
9,400.00	90.11	180.08	7,192.45	-2,028.37	-166.74	2,033.33	0.00	0.00	0.00	
9,500.00	90.11	180.08	7,192.26	-2,128.37	-166.89	2,133.26	0.00	0.00	0.00	
9,600.00	90.11	180.08	7,192.07	-2,228.37	-167.03	2,233.19	0.00	0.00	0.00	
9,700.00	90.11	180.08	7,191.88	-2,328.37	-167.18	2,333.12	0.00	0.00	0.00	
9,800.00	90.11	180.08	7,191.69	-2,428.37	-167.33	2,433.05	0.00	0.00	0.00	
9,900.00	90.11	180.08	7,191.50	-2,528.37	-167.48	2,532.98	0.00	0.00	0.00	
10,000.00	90.11	180.08	7,191.31	-2,628.37	-167.62	2,632.91	0.00	0.00	0.00	
10,100.00	90.11	180.08	7,191.12	-2,728.37	-167.77	2,732.84	0.00	0.00	0.00	
10,200.00	90.11	180.08	7,190.92	-2,828.37	-167.92	2,832.77	0.00	0.00	0.00	
10,300.00	90.11	180.08	7,190.73	-2,928.37	-168.07	2,932.70	0.00	0.00	0.00	
10,400.00	90.11	180.08	7,190.54	-3,028.37	-168.21	3,032.63	0.00	0.00	0.00	
10,500.00	90.11	180.08	7,190.35	-3,128.37	-168.36	3,132.56	0.00	0.00	0.00	
10,600.00	90.11	180.08	7,190.16	-3,228.37	-168.51	3,232.49	0.00	0.00	0.00	
10,700.00	90.11	180.08	7,189.97	-3,328.37	-168.65	3,332.41	0.00	0.00	0.00	
10,800.00	90.11	180.08	7,189.78	-3,428.37	-168.80	3,432.34	0.00	0.00	0.00	
10,900.00	90.11	180.08	7,189.59	-3,528.37	-168.95	3,532.27	0.00	0.00	0.00	
11,000.00	90.11	180.08	7,189.40	-3,628.37	-169.10	3,632.20	0.00	0.00	0.00	
11,100.00	90.11	180.08	7,189.21	-3,728.37	-169.24	3,732.13	0.00	0.00	0.00	
11,200.00	90.11	180.08	7,189.02	-3,828.37	-169.39	3,832.06	0.00	0.00	0.00	
11,300.00	90.11	180.08	7,188.82	-3,928.37	-169.54	3,931.99	0.00	0.00	0.00	
11,400.00	90.11	180.08	7,188.63	-4,028.37	-169.69	4,031.92	0.00	0.00	0.00	
11,500.00	90.11	180.08	7,188.44	-4,128.37	-169.83	4,131.85	0.00	0.00	0.00	
11,600.00	90.11	180.08	7,188.25	-4,228.37	-169.98	4,231.78	0.00	0.00	0.00	
11,700.00	90.11	180.08	7,188.06	-4,328.37	-170.13	4,331.71	0.00	0.00	0.00	
11,731.72	90.11	180.08	7,188.00	-4,360.09	-170.17	4,363.41	0.00	0.00	0.00	
Sarchet 16N-32HZ 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										
Sarchet 16N-32HZ BHL	0.00	0.00	7,188.00	-4,360.09	-170.17	1,307,542.01	3,197,539.64	40.175437	-104.793062	
- plan hits target center										
- Point										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name			Casing Diameter (")	Hole Diameter (")
750.00	750.00	9 5/8"			9-5/8	12-1/4
7,541.62	7,196.00	7"			7	8-3/4

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well Sarchet 16N-32HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	rkb + GL @ 4940.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	rkb + GL @ 4940.00ft
<b>Site:</b>	WELD_SARCHET 1-32HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	Sarchet 16N-32HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Sarchet 16N-32HZ		
<b>Design:</b>	Sarchet 16N-32HZ (wp01)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,926.46	3,908.00	Parkman		0.00		
4,366.91	4,347.00	Sussex		0.00		
7,148.41	7,057.00	Sharon Springs		0.00		
7,287.42	7,131.00	Niobrara A		0.00		
7,322.46	7,145.00	Niobrara B		0.00		