

# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

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

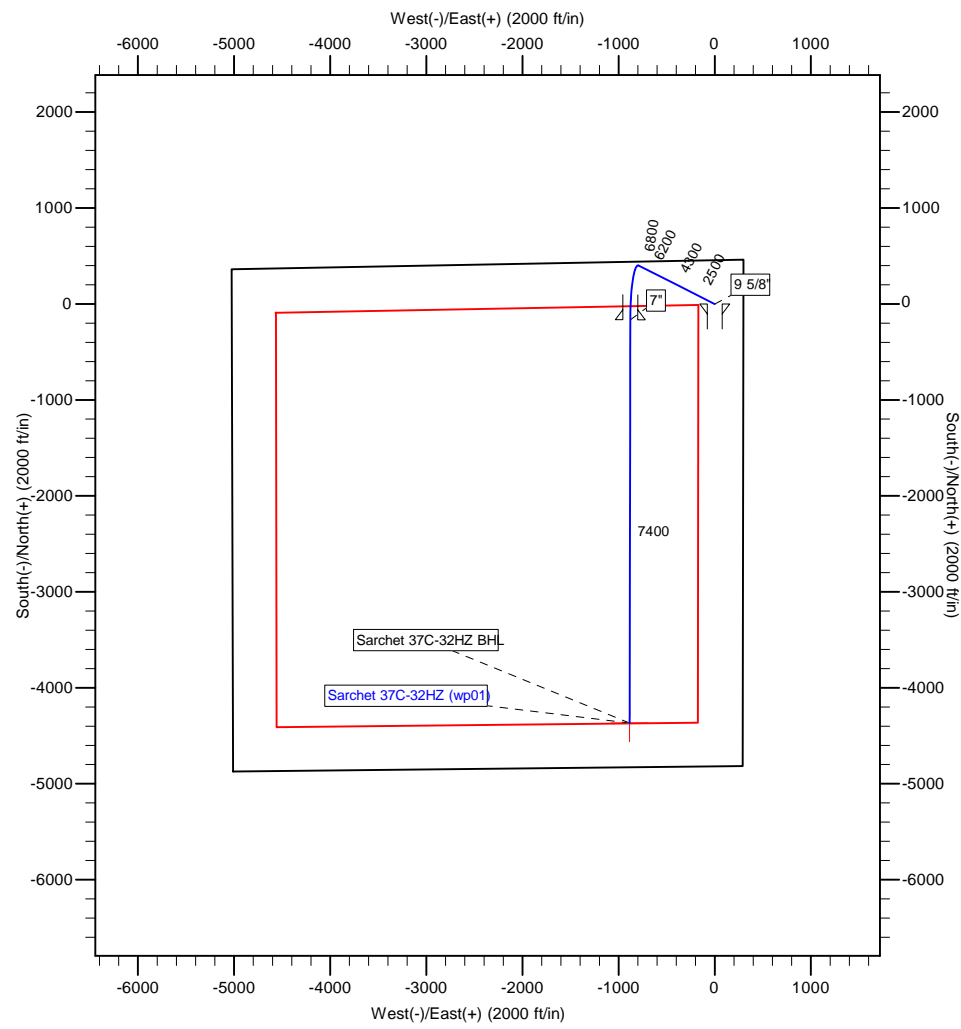
**Sarchet 37C-32HZ**

**Sarchet 37C-32HZ**

**Plan: Sarchet 37C-32HZ (wp01)**

## **Standard Planning Report**

**13 February, 2012**



**Azimuths to True North**  
Magnetic North: 8.77°

Magnetic Field  
Strength: 52945.7nT  
Dip Angle: 66.85°  
Date: 2/13/2012  
Model: IGRF2010



**Project:** COLORADO NORTHERN ZONE - 83

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

**Well:** Sarchet 37C-32HZ

**Wellbore:** Sarchet 37C-32HZ

**Section:**

**SHL:**

**Design:** Sarchet 37C-32HZ (wp01)

**Latitude:** 40.187403

**Longitude:** -104.792667

**GL:** 4924.00

**KB:** rkb + gl @ 4940.00ft

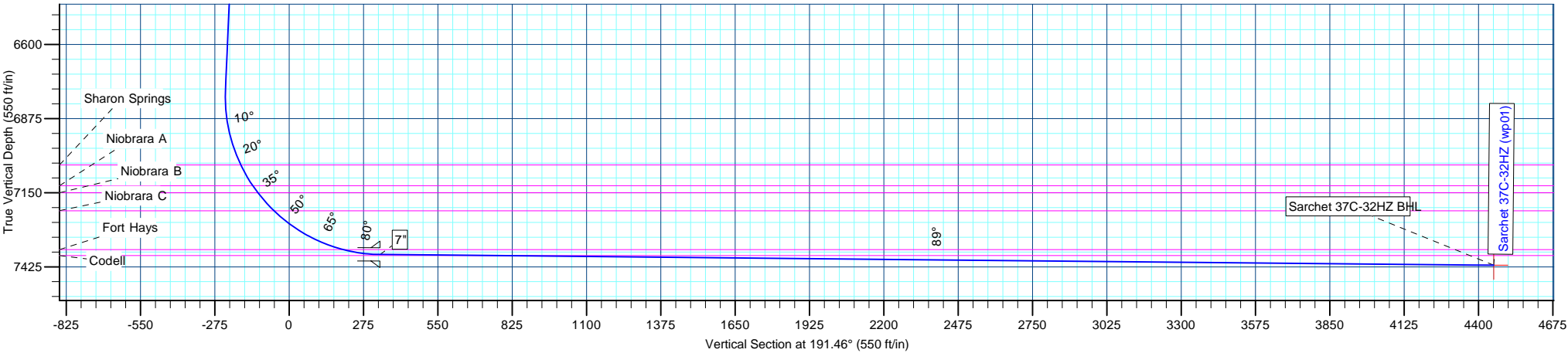
WELL DETAILS: Sarchet 37C-32HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	4924.00 Latitude	Longitude	Slot
0.00	0.00	1311901.75	3197615.24	40.187403	-104.792667	

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
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00
1455.00	9.10	296.86	1453.09	16.29	-32.17	2.00	296.86	-9.58
6841.00	9.10	296.86	6771.30	401.18	-792.09	0.00	0.00	-235.83
7776.67	89.48	180.08	7379.00	-165.00	-879.00	10.00	-116.56	336.33
7778.76	89.45	180.09	7379.02	-167.09	-879.00	1.00	171.13	338.37
1979.24	89.45	180.09	7419.00	-4367.37	-885.25	0.00	0.00	4456.18

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Sarchet 37C-32HZ BHL	7419.00	-4367.37	-885.25	40.175414	-104.795835	Point

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3983.00	4017.16	Parkman
4352.00	4390.86	Sussex
7047.00	7126.93	Sharon Springs
7124.00	7215.90	Niobrara A
7150.00	7247.97	Niobrara B
7217.00	7337.87	Niobrara C
7361.00	7637.15	Fort Hays
7383.00	8196.97	Codell

CASING DETAILS			
TVD	MD	Name	Size
750.00	750.00	9 5/8"	9-5/8
7379.00	7776.68	7"	7



# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well Sarchet 37C-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 37C-32HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Sarchet 37C-32HZ		
<b>Design:</b>	Sarchet 37C-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 37C-32HZ				
Well Position	+N/-S	0.00 ft	Northing:	1,311,901.75 usft	Latitude:	40.187403
	+E/-W	0.00 ft	Easting:	3,197,615.24 usft	Longitude:	-104.792667
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,924.00 ft

<b>Wellbore</b>	Sarchet 37C-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 37C-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	191.46

<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	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,455.00	9.10	296.86	1,453.09	16.29	-32.17	2.00	2.00	0.00	296.86	
6,841.00	9.10	296.86	6,771.30	401.18	-792.09	0.00	0.00	0.00	0.00	
7,776.67	89.48	180.08	7,379.00	-165.00	-879.00	10.00	8.59	-12.48	-116.56	
7,778.76	89.45	180.09	7,379.02	-167.09	-879.00	1.00	-0.99	0.15	171.13	
11,979.24	89.45	180.09	7,419.00	-4,367.37	-885.25	0.00	0.00	0.00	0.00	Sarchet 37C-32HZ Bt

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## Planning Report

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<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 37C-32HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Sarchet 37C-32HZ		
<b>Design:</b>	Sarchet 37C-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	2.00	296.86	1,099.98	0.79	-1.56	-0.46	2.00	2.00	0.00
1,200.00	4.00	296.86	1,199.84	3.15	-6.23	-1.85	2.00	2.00	0.00
1,300.00	6.00	296.86	1,299.45	7.09	-14.00	-4.17	2.00	2.00	0.00
1,400.00	8.00	296.86	1,398.70	12.60	-24.87	-7.41	2.00	2.00	0.00
1,455.00	9.10	296.86	1,453.09	16.29	-32.17	-9.58	2.00	2.00	0.00
1,500.00	9.10	296.86	1,497.52	19.51	-38.52	-11.47	0.00	0.00	0.00
1,600.00	9.10	296.86	1,596.26	26.65	-52.62	-15.67	0.00	0.00	0.00
1,700.00	9.10	296.86	1,695.01	33.80	-66.73	-19.87	0.00	0.00	0.00
1,800.00	9.10	296.86	1,793.75	40.95	-80.84	-24.07	0.00	0.00	0.00
1,900.00	9.10	296.86	1,892.49	48.09	-94.95	-28.27	0.00	0.00	0.00
2,000.00	9.10	296.86	1,991.23	55.24	-109.06	-32.47	0.00	0.00	0.00
2,100.00	9.10	296.86	2,089.97	62.38	-123.17	-36.67	0.00	0.00	0.00
2,200.00	9.10	296.86	2,188.71	69.53	-137.28	-40.87	0.00	0.00	0.00
2,300.00	9.10	296.86	2,287.45	76.68	-151.39	-45.07	0.00	0.00	0.00
2,400.00	9.10	296.86	2,386.20	83.82	-165.50	-49.27	0.00	0.00	0.00
2,500.00	9.10	296.86	2,484.94	90.97	-179.61	-53.48	0.00	0.00	0.00
2,600.00	9.10	296.86	2,583.68	98.12	-193.72	-57.68	0.00	0.00	0.00
2,700.00	9.10	296.86	2,682.42	105.26	-207.83	-61.88	0.00	0.00	0.00
2,800.00	9.10	296.86	2,781.16	112.41	-221.94	-66.08	0.00	0.00	0.00
2,900.00	9.10	296.86	2,879.90	119.55	-236.05	-70.28	0.00	0.00	0.00
3,000.00	9.10	296.86	2,978.64	126.70	-250.15	-74.48	0.00	0.00	0.00
3,100.00	9.10	296.86	3,077.39	133.85	-264.26	-78.68	0.00	0.00	0.00
3,200.00	9.10	296.86	3,176.13	140.99	-278.37	-82.88	0.00	0.00	0.00
3,300.00	9.10	296.86	3,274.87	148.14	-292.48	-87.08	0.00	0.00	0.00
3,400.00	9.10	296.86	3,373.61	155.28	-306.59	-91.28	0.00	0.00	0.00
3,500.00	9.10	296.86	3,472.35	162.43	-320.70	-95.48	0.00	0.00	0.00
3,600.00	9.10	296.86	3,571.09	169.58	-334.81	-99.68	0.00	0.00	0.00
3,700.00	9.10	296.86	3,669.83	176.72	-348.92	-103.89	0.00	0.00	0.00
3,800.00	9.10	296.86	3,768.58	183.87	-363.03	-108.09	0.00	0.00	0.00
3,900.00	9.10	296.86	3,867.32	191.02	-377.14	-112.29	0.00	0.00	0.00
4,000.00	9.10	296.86	3,966.06	198.16	-391.25	-116.49	0.00	0.00	0.00
4,017.16	9.10	296.86	3,983.00	199.39	-393.67	-117.21	0.00	0.00	0.00
Parkman									
4,100.00	9.10	296.86	4,064.80	205.31	-405.36	-120.69	0.00	0.00	0.00
4,200.00	9.10	296.86	4,163.54	212.45	-419.47	-124.89	0.00	0.00	0.00
4,300.00	9.10	296.86	4,262.28	219.60	-433.57	-129.09	0.00	0.00	0.00
4,390.86	9.10	296.86	4,352.00	226.09	-446.39	-132.91	0.00	0.00	0.00
Sussex									
4,400.00	9.10	296.86	4,361.02	226.75	-447.68	-133.29	0.00	0.00	0.00
4,500.00	9.10	296.86	4,459.76	233.89	-461.79	-137.49	0.00	0.00	0.00

# Anadarko Petroleum Corp

## Planning Report

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<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 37C-32HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Sarchet 37C-32HZ		
<b>Design:</b>	Sarchet 37C-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	9.10	296.86	4,558.51	241.04	-475.90	-141.69	0.00	0.00	0.00
4,700.00	9.10	296.86	4,657.25	248.18	-490.01	-145.89	0.00	0.00	0.00
4,800.00	9.10	296.86	4,755.99	255.33	-504.12	-150.10	0.00	0.00	0.00
4,900.00	9.10	296.86	4,854.73	262.48	-518.23	-154.30	0.00	0.00	0.00
5,000.00	9.10	296.86	4,953.47	269.62	-532.34	-158.50	0.00	0.00	0.00
5,100.00	9.10	296.86	5,052.21	276.77	-546.45	-162.70	0.00	0.00	0.00
5,200.00	9.10	296.86	5,150.95	283.91	-560.56	-166.90	0.00	0.00	0.00
5,300.00	9.10	296.86	5,249.70	291.06	-574.67	-171.10	0.00	0.00	0.00
5,400.00	9.10	296.86	5,348.44	298.21	-588.78	-175.30	0.00	0.00	0.00
5,500.00	9.10	296.86	5,447.18	305.35	-602.89	-179.50	0.00	0.00	0.00
5,600.00	9.10	296.86	5,545.92	312.50	-617.00	-183.70	0.00	0.00	0.00
5,700.00	9.10	296.86	5,644.66	319.65	-631.10	-187.90	0.00	0.00	0.00
5,800.00	9.10	296.86	5,743.40	326.79	-645.21	-192.10	0.00	0.00	0.00
5,900.00	9.10	296.86	5,842.14	333.94	-659.32	-196.30	0.00	0.00	0.00
6,000.00	9.10	296.86	5,940.89	341.08	-673.43	-200.51	0.00	0.00	0.00
6,100.00	9.10	296.86	6,039.63	348.23	-687.54	-204.71	0.00	0.00	0.00
6,200.00	9.10	296.86	6,138.37	355.38	-701.65	-208.91	0.00	0.00	0.00
6,300.00	9.10	296.86	6,237.11	362.52	-715.76	-213.11	0.00	0.00	0.00
6,400.00	9.10	296.86	6,335.85	369.67	-729.87	-217.31	0.00	0.00	0.00
6,500.00	9.10	296.86	6,434.59	376.81	-743.98	-221.51	0.00	0.00	0.00
6,600.00	9.10	296.86	6,533.33	383.96	-758.09	-225.71	0.00	0.00	0.00
6,700.00	9.10	296.86	6,632.08	391.11	-772.20	-229.91	0.00	0.00	0.00
6,800.00	9.10	296.86	6,730.82	398.25	-786.31	-234.11	0.00	0.00	0.00
6,841.00	9.10	296.86	6,771.30	401.18	-792.09	-235.83	0.00	0.00	0.00
6,900.00	8.33	257.46	6,829.67	402.37	-800.43	-235.34	10.00	-1.31	-66.78
7,000.00	14.30	214.10	6,927.84	390.54	-814.46	-220.96	10.00	5.97	-43.36
7,100.00	23.20	199.48	7,022.49	361.67	-827.99	-189.97	10.00	8.90	-14.62
7,126.93	25.73	197.26	7,047.00	351.08	-831.49	-178.90	10.00	9.40	-8.27
<b>Sharon Springs</b>									
7,200.00	32.72	192.86	7,110.74	316.63	-840.61	-143.33	10.00	9.56	-6.02
7,215.90	34.26	192.12	7,124.00	308.07	-842.50	-134.56	10.00	9.67	-4.65
<b>Niobrara A</b>									
7,247.97	37.37	190.79	7,150.00	289.68	-846.22	-115.80	10.00	9.70	-4.14
<b>Niobrara B</b>									
7,300.00	42.44	189.00	7,189.90	256.81	-851.93	-82.45	10.00	9.75	-3.45
7,337.87	46.15	187.90	7,217.00	230.65	-855.80	-56.04	10.00	9.79	-2.90
<b>Niobrara C</b>									
7,400.00	52.25	186.36	7,257.58	184.00	-861.61	-9.17	10.00	9.82	-2.48
7,500.00	62.11	184.34	7,311.71	100.43	-869.35	74.28	10.00	9.86	-2.01
7,600.00	71.99	182.67	7,350.66	8.63	-874.93	165.35	10.00	9.88	-1.67
7,637.15	75.67	182.10	7,361.00	-27.01	-876.41	200.57	10.00	9.89	-1.53
<b>Fort Hays</b>									
7,700.00	81.89	181.17	7,373.23	-88.60	-878.17	261.29	10.00	9.90	-1.47
7,776.68	89.48	180.08	7,379.00	-165.00	-879.00	336.33	10.00	9.90	-1.42
<b>7"</b>									
7,778.76	89.45	180.09	7,379.02	-167.09	-879.00	338.37	1.00	-0.99	0.15
7,800.00	89.45	180.09	7,379.22	-188.32	-879.03	359.20	0.00	0.00	0.00
7,900.00	89.45	180.09	7,380.17	-288.32	-879.18	457.23	0.00	0.00	0.00
8,000.00	89.45	180.09	7,381.13	-388.32	-879.33	555.26	0.00	0.00	0.00
8,100.00	89.45	180.09	7,382.08	-488.31	-879.48	653.29	0.00	0.00	0.00
8,196.97	89.45	180.09	7,383.00	-585.27	-879.62	748.35	0.00	0.00	0.00
<b>Codell</b>									
8,200.00	89.45	180.09	7,383.03	-588.31	-879.63	751.32	0.00	0.00	0.00

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## Planning Report

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<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 37C-32HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Sarchet 37C-32HZ		
<b>Design:</b>	Sarchet 37C-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)	
8,300.00	89.45	180.09	7,383.98	-688.30	-879.78	849.36	0.00	0.00	0.00	
8,400.00	89.45	180.09	7,384.93	-788.30	-879.93	947.39	0.00	0.00	0.00	
8,500.00	89.45	180.09	7,385.88	-888.29	-880.07	1,045.42	0.00	0.00	0.00	
8,600.00	89.45	180.09	7,386.84	-988.29	-880.22	1,143.45	0.00	0.00	0.00	
8,700.00	89.45	180.09	7,387.79	-1,088.28	-880.37	1,241.48	0.00	0.00	0.00	
8,800.00	89.45	180.09	7,388.74	-1,188.28	-880.52	1,339.52	0.00	0.00	0.00	
8,900.00	89.45	180.09	7,389.69	-1,288.27	-880.67	1,437.55	0.00	0.00	0.00	
9,000.00	89.45	180.09	7,390.64	-1,388.27	-880.82	1,535.58	0.00	0.00	0.00	
9,100.00	89.45	180.09	7,391.60	-1,488.26	-880.97	1,633.61	0.00	0.00	0.00	
9,200.00	89.45	180.09	7,392.55	-1,588.26	-881.12	1,731.64	0.00	0.00	0.00	
9,300.00	89.45	180.09	7,393.50	-1,688.25	-881.26	1,829.67	0.00	0.00	0.00	
9,400.00	89.45	180.09	7,394.45	-1,788.25	-881.41	1,927.71	0.00	0.00	0.00	
9,500.00	89.45	180.09	7,395.40	-1,888.25	-881.56	2,025.74	0.00	0.00	0.00	
9,600.00	89.45	180.09	7,396.35	-1,988.24	-881.71	2,123.77	0.00	0.00	0.00	
9,700.00	89.45	180.09	7,397.31	-2,088.24	-881.86	2,221.80	0.00	0.00	0.00	
9,800.00	89.45	180.09	7,398.26	-2,188.23	-882.01	2,319.83	0.00	0.00	0.00	
9,900.00	89.45	180.09	7,399.21	-2,288.23	-882.16	2,417.87	0.00	0.00	0.00	
10,000.00	89.45	180.09	7,400.16	-2,388.22	-882.30	2,515.90	0.00	0.00	0.00	
10,100.00	89.45	180.09	7,401.11	-2,488.22	-882.45	2,613.93	0.00	0.00	0.00	
10,200.00	89.45	180.09	7,402.07	-2,588.21	-882.60	2,711.96	0.00	0.00	0.00	
10,300.00	89.45	180.09	7,403.02	-2,688.21	-882.75	2,809.99	0.00	0.00	0.00	
10,400.00	89.45	180.09	7,403.97	-2,788.20	-882.90	2,908.03	0.00	0.00	0.00	
10,500.00	89.45	180.09	7,404.92	-2,888.20	-883.05	3,006.06	0.00	0.00	0.00	
10,600.00	89.45	180.09	7,405.87	-2,988.19	-883.20	3,104.09	0.00	0.00	0.00	
10,700.00	89.45	180.09	7,406.82	-3,088.19	-883.34	3,202.12	0.00	0.00	0.00	
10,800.00	89.45	180.09	7,407.78	-3,188.19	-883.49	3,300.15	0.00	0.00	0.00	
10,900.00	89.45	180.09	7,408.73	-3,288.18	-883.64	3,398.19	0.00	0.00	0.00	
11,000.00	89.45	180.09	7,409.68	-3,388.18	-883.79	3,496.22	0.00	0.00	0.00	
11,100.00	89.45	180.09	7,410.63	-3,488.17	-883.94	3,594.25	0.00	0.00	0.00	
11,200.00	89.45	180.09	7,411.58	-3,588.17	-884.09	3,692.28	0.00	0.00	0.00	
11,300.00	89.45	180.09	7,412.54	-3,688.16	-884.24	3,790.31	0.00	0.00	0.00	
11,400.00	89.45	180.09	7,413.49	-3,788.16	-884.38	3,888.35	0.00	0.00	0.00	
11,500.00	89.45	180.09	7,414.44	-3,888.15	-884.53	3,986.38	0.00	0.00	0.00	
11,600.00	89.45	180.09	7,415.39	-3,988.15	-884.68	4,084.41	0.00	0.00	0.00	
11,700.00	89.45	180.09	7,416.34	-4,088.14	-884.83	4,182.44	0.00	0.00	0.00	
11,800.00	89.45	180.09	7,417.29	-4,188.14	-884.98	4,280.47	0.00	0.00	0.00	
11,900.00	89.45	180.09	7,418.25	-4,288.13	-885.13	4,378.50	0.00	0.00	0.00	
11,979.24	89.45	180.09	7,419.00	-4,367.37	-885.25	4,456.18	0.00	0.00	0.00	
Sarchet 37C-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 37C-32HZ BHL	0.00	0.00	7,419.00	-4,367.37	-885.25	1,307,527.47	3,196,764.86	40.175414		-104.795835
- plan hits target center										
- Point										

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well Sarchet 37C-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 37C-32HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Sarchet 37C-32HZ		
<b>Design:</b>	Sarchet 37C-32HZ (wp01)		

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	
7,776.68	7,379.00	7"	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,017.16	3,983.00	Parkman		0.00	
4,390.86	4,352.00	Sussex		0.00	
7,126.93	7,047.00	Sharon Springs		0.00	
7,215.90	7,124.00	Niobrara A		0.00	
7,247.97	7,150.00	Niobrara B		0.00	
7,337.87	7,217.00	Niobrara C		0.00	
7,637.15	7,361.00	Fort Hays		0.00	
8,196.97	7,383.00	Codell		0.00	