

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_SARCHET 1-32HZ Pad

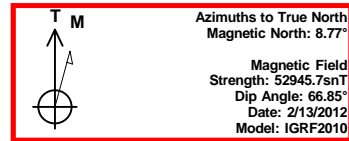
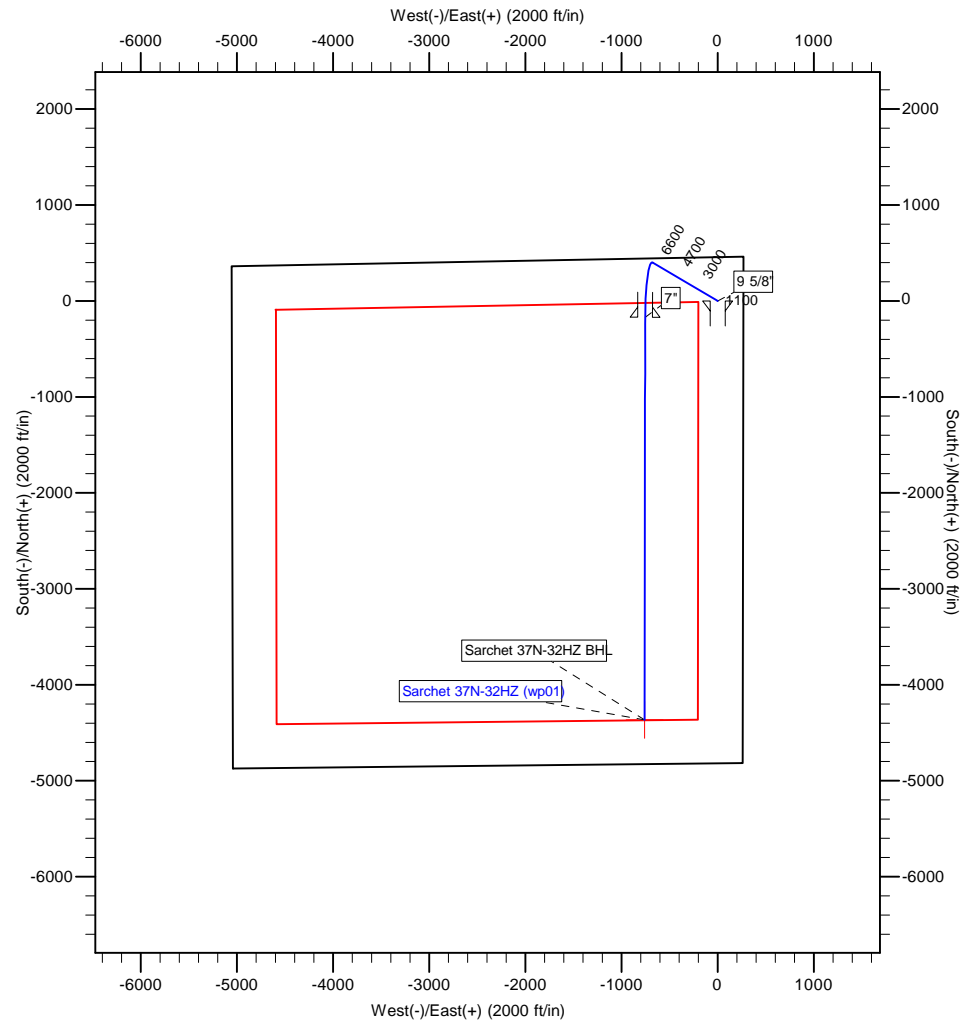
Sarchet 37N-32HZ

Sarchet 37N-32HZ

Plan: Sarchet 37N-32HZ (wp01)

Standard Planning Report

13 February, 2012



Project: COLORADO NORTHERN ZONE - 83
 Site: WELD_SARCHET 1-32HZ Pad
 Well: Sarchet 37N-32HZ
 Wellbore: Sarchet 37N-32HZ
 Section:
 SHL:
 Design: Sarchet 37N-32HZ (wp01)
 Latitude: 40.187404
 Longitude: -104.792560
 GL: 4924.00
 KB: gl + rkb @ 4940.00ft

WELL DETAILS: Sarchet 37N-32HZ

+N/-S	+E/-W	Northing	Ground Level: Easting	4924.00 Latitude	Longitude	Slot
0.00	0.00	1311902.34	3197645.13	40.187404	-104.792560	

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
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00
1518.66	8.37	300.69	1517.18	15.59	-26.26	2.00	300.69	-10.85
6706.22	8.37	300.69	6649.43	401.14	-675.88	0.00	0.00	-279.28
7648.62	89.99	180.08	7260.00	-170.00	-754.00	10.00	-120.34	296.80
7648.94	89.99	180.08	7260.00	-170.33	-754.00	1.00	99.37	297.12
1844.53	89.99	180.08	7261.00	-4365.91	-760.06	0.00	0.00	4431.57

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

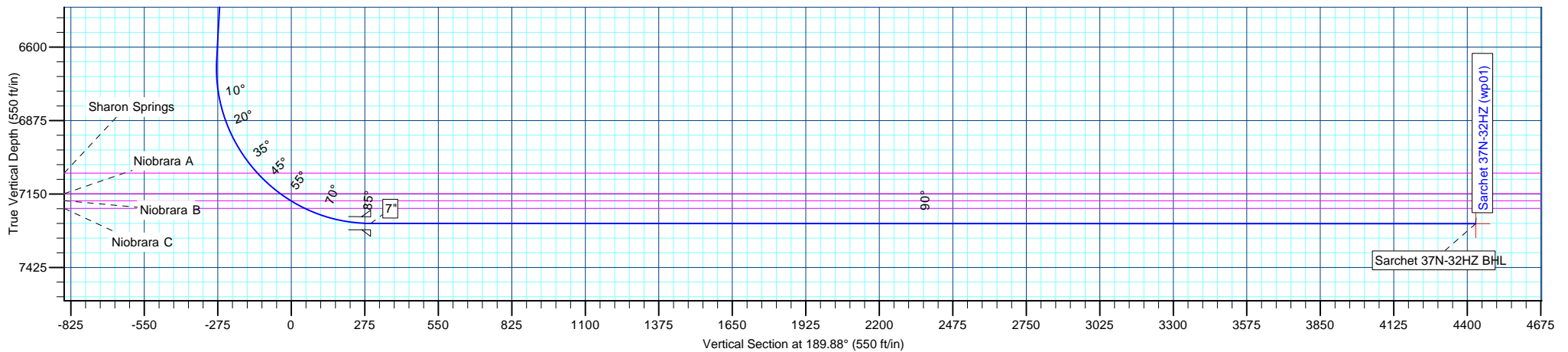
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Sarchet 37N-32HZ BHL	7261.00	-4365.91	-760.06	40.175419	-104.795280	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3918.00	3945.36	Parkman
4377.00	4409.30	Sussex
7072.00	7168.84	Sharon Springs
7149.00	7284.58	Niobrara A
7175.00	7331.37	Niobrara B
7204.00	7392.28	Niobrara C

CASING DETAILS

TVD	MD	Name	Size
750.00	750.00	9 5/8"	9-5/8
7260.00	7648.62	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Sarchet 37N-32HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl + rkb @ 4940.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl + rkb @ 4940.00ft
Site:	WELD_SARCHET 1-32HZ Pad	North Reference:	True
Well:	Sarchet 37N-32HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Sarchet 37N-32HZ		
Design:	Sarchet 37N-32HZ (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_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 37N-32HZ					
Well Position	+N/-S	0.35 ft	Northing:	1,311,902.34 usft	Latitude:	40.187404
	+E/-W	29.89 ft	Easting:	3,197,645.13 usft	Longitude:	-104.792560
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,924.00 ft

Wellbore	Sarchet 37N-32HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/13/2012	8.77	66.85	52,946

Design	Sarchet 37N-32HZ (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	189.88

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	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,518.66	8.37	300.69	1,517.18	15.59	-26.26	2.00	2.00	0.00	300.69	
6,706.22	8.37	300.69	6,649.43	401.14	-675.88	0.00	0.00	0.00	0.00	
7,648.62	89.99	180.08	7,260.00	-170.00	-754.00	10.00	8.66	-12.80	-120.34	
7,648.94	89.99	180.08	7,260.00	-170.33	-754.00	1.00	-0.16	0.99	99.37	
11,844.53	89.99	180.08	7,261.00	-4,365.91	-760.06	0.00	0.00	0.00	0.00	Sarchet 37N-32HZ Bt

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Sarchet 37N-32HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl + rkb @ 4940.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl + rkb @ 4940.00ft
Site:	WELD_SARCHET 1-32HZ Pad	North Reference:	True
Well:	Sarchet 37N-32HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Sarchet 37N-32HZ		
Design:	Sarchet 37N-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	2.00	300.69	1,199.98	0.89	-1.50	-0.62	2.00	2.00	0.00
1,300.00	4.00	300.69	1,299.84	3.56	-6.00	-2.48	2.00	2.00	0.00
1,400.00	6.00	300.69	1,399.45	8.01	-13.50	-5.58	2.00	2.00	0.00
1,500.00	8.00	300.69	1,498.70	14.23	-23.98	-9.91	2.00	2.00	0.00
1,518.66	8.37	300.69	1,517.18	15.59	-26.26	-10.85	2.00	2.00	0.00
1,600.00	8.37	300.69	1,597.64	21.63	-36.45	-15.06	0.00	0.00	0.00
1,700.00	8.37	300.69	1,696.58	29.06	-48.97	-20.23	0.00	0.00	0.00
1,800.00	8.37	300.69	1,795.51	36.50	-61.49	-25.41	0.00	0.00	0.00
1,900.00	8.37	300.69	1,894.45	43.93	-74.01	-30.58	0.00	0.00	0.00
2,000.00	8.37	300.69	1,993.38	51.36	-86.54	-35.76	0.00	0.00	0.00
2,100.00	8.37	300.69	2,092.31	58.79	-99.06	-40.93	0.00	0.00	0.00
2,200.00	8.37	300.69	2,191.25	66.23	-111.58	-46.11	0.00	0.00	0.00
2,300.00	8.37	300.69	2,290.18	73.66	-124.10	-51.28	0.00	0.00	0.00
2,400.00	8.37	300.69	2,389.12	81.09	-136.63	-56.46	0.00	0.00	0.00
2,500.00	8.37	300.69	2,488.05	88.52	-149.15	-61.63	0.00	0.00	0.00
2,600.00	8.37	300.69	2,586.98	95.95	-161.67	-66.80	0.00	0.00	0.00
2,700.00	8.37	300.69	2,685.92	103.39	-174.19	-71.98	0.00	0.00	0.00
2,800.00	8.37	300.69	2,784.85	110.82	-186.72	-77.15	0.00	0.00	0.00
2,900.00	8.37	300.69	2,883.79	118.25	-199.24	-82.33	0.00	0.00	0.00
3,000.00	8.37	300.69	2,982.72	125.68	-211.76	-87.50	0.00	0.00	0.00
3,100.00	8.37	300.69	3,081.65	133.12	-224.29	-92.68	0.00	0.00	0.00
3,200.00	8.37	300.69	3,180.59	140.55	-236.81	-97.85	0.00	0.00	0.00
3,300.00	8.37	300.69	3,279.52	147.98	-249.33	-103.03	0.00	0.00	0.00
3,400.00	8.37	300.69	3,378.46	155.41	-261.85	-108.20	0.00	0.00	0.00
3,500.00	8.37	300.69	3,477.39	162.85	-274.38	-113.37	0.00	0.00	0.00
3,600.00	8.37	300.69	3,576.33	170.28	-286.90	-118.55	0.00	0.00	0.00
3,700.00	8.37	300.69	3,675.26	177.71	-299.42	-123.72	0.00	0.00	0.00
3,800.00	8.37	300.69	3,774.19	185.14	-311.94	-128.90	0.00	0.00	0.00
3,900.00	8.37	300.69	3,873.13	192.58	-324.47	-134.07	0.00	0.00	0.00
3,945.36	8.37	300.69	3,918.00	195.95	-330.15	-136.42	0.00	0.00	0.00
Parkman									
4,000.00	8.37	300.69	3,972.06	200.01	-336.99	-139.25	0.00	0.00	0.00
4,100.00	8.37	300.69	4,071.00	207.44	-349.51	-144.42	0.00	0.00	0.00
4,200.00	8.37	300.69	4,169.93	214.87	-362.03	-149.60	0.00	0.00	0.00
4,300.00	8.37	300.69	4,268.86	222.30	-374.56	-154.77	0.00	0.00	0.00
4,400.00	8.37	300.69	4,367.80	229.74	-387.08	-159.94	0.00	0.00	0.00
4,409.30	8.37	300.69	4,377.00	230.43	-388.24	-160.43	0.00	0.00	0.00
Sussex									
4,500.00	8.37	300.69	4,466.73	237.17	-399.60	-165.12	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Sarchet 37N-32HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl + rkb @ 4940.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl + rkb @ 4940.00ft
Site:	WELD_SARCHET 1-32HZ Pad	North Reference:	True
Well:	Sarchet 37N-32HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Sarchet 37N-32HZ		
Design:	Sarchet 37N-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	8.37	300.69	4,565.67	244.60	-412.12	-170.29	0.00	0.00	0.00
4,700.00	8.37	300.69	4,664.60	252.03	-424.65	-175.47	0.00	0.00	0.00
4,800.00	8.37	300.69	4,763.53	259.47	-437.17	-180.64	0.00	0.00	0.00
4,900.00	8.37	300.69	4,862.47	266.90	-449.69	-185.82	0.00	0.00	0.00
5,000.00	8.37	300.69	4,961.40	274.33	-462.22	-190.99	0.00	0.00	0.00
5,100.00	8.37	300.69	5,060.34	281.76	-474.74	-196.17	0.00	0.00	0.00
5,200.00	8.37	300.69	5,159.27	289.20	-487.26	-201.34	0.00	0.00	0.00
5,300.00	8.37	300.69	5,258.20	296.63	-499.78	-206.52	0.00	0.00	0.00
5,400.00	8.37	300.69	5,357.14	304.06	-512.31	-211.69	0.00	0.00	0.00
5,500.00	8.37	300.69	5,456.07	311.49	-524.83	-216.86	0.00	0.00	0.00
5,600.00	8.37	300.69	5,555.01	318.93	-537.35	-222.04	0.00	0.00	0.00
5,700.00	8.37	300.69	5,653.94	326.36	-549.87	-227.21	0.00	0.00	0.00
5,800.00	8.37	300.69	5,752.87	333.79	-562.40	-232.39	0.00	0.00	0.00
5,900.00	8.37	300.69	5,851.81	341.22	-574.92	-237.56	0.00	0.00	0.00
6,000.00	8.37	300.69	5,950.74	348.65	-587.44	-242.74	0.00	0.00	0.00
6,100.00	8.37	300.69	6,049.68	356.09	-599.96	-247.91	0.00	0.00	0.00
6,200.00	8.37	300.69	6,148.61	363.52	-612.49	-253.09	0.00	0.00	0.00
6,300.00	8.37	300.69	6,247.54	370.95	-625.01	-258.26	0.00	0.00	0.00
6,400.00	8.37	300.69	6,346.48	378.38	-637.53	-263.43	0.00	0.00	0.00
6,500.00	8.37	300.69	6,445.41	385.82	-650.05	-268.61	0.00	0.00	0.00
6,600.00	8.37	300.69	6,544.35	393.25	-662.58	-273.78	0.00	0.00	0.00
6,700.00	8.37	300.69	6,643.28	400.68	-675.10	-278.96	0.00	0.00	0.00
6,706.22	8.37	300.69	6,649.43	401.14	-675.88	-279.28	0.00	0.00	0.00
6,800.00	8.85	234.56	6,742.36	400.45	-687.65	-276.57	10.00	0.50	-70.51
6,900.00	16.72	205.01	6,839.90	382.90	-700.03	-257.17	10.00	7.88	-29.55
7,000.00	26.08	195.08	6,932.93	348.56	-711.86	-221.30	10.00	9.35	-9.93
7,100.00	35.77	190.21	7,018.63	298.45	-722.79	-170.06	10.00	9.69	-4.87
7,168.84	42.51	188.02	7,072.00	255.56	-729.61	-126.64	10.00	9.80	-3.18
Sharon Springs									
7,200.00	45.58	187.21	7,094.39	234.09	-732.47	-105.00	10.00	9.84	-2.60
7,284.58	53.92	185.37	7,149.00	169.99	-739.48	-40.64	10.00	9.86	-2.17
Niobrara A									
7,300.00	55.44	185.08	7,157.92	157.46	-740.62	-28.10	10.00	9.88	-1.89
7,331.37	58.54	184.52	7,175.00	131.25	-742.82	-1.90	10.00	9.89	-1.79
Niobrara B									
7,392.28	64.57	183.53	7,204.00	77.85	-746.57	51.35	10.00	9.90	-1.63
Niobrara C									
7,400.00	65.34	183.41	7,207.27	70.87	-746.99	58.30	10.00	9.90	-1.53
7,500.00	75.25	181.99	7,240.95	-23.05	-751.39	151.58	10.00	9.91	-1.42
7,600.00	85.16	180.69	7,257.94	-121.44	-753.67	248.91	10.00	9.92	-1.30
7,648.62	89.99	180.08	7,260.00	-170.00	-754.00	296.80	10.00	9.92	-1.26
7"									
7,648.94	89.99	180.08	7,260.00	-170.33	-754.00	297.12	1.02	-0.17	1.00
7,700.00	89.99	180.08	7,260.01	-221.38	-754.07	347.44	0.00	0.00	0.00
7,800.00	89.99	180.08	7,260.04	-321.38	-754.22	445.98	0.00	0.00	0.00
7,900.00	89.99	180.08	7,260.06	-421.38	-754.36	544.52	0.00	0.00	0.00
8,000.00	89.99	180.08	7,260.08	-521.38	-754.51	643.06	0.00	0.00	0.00
8,100.00	89.99	180.08	7,260.11	-621.38	-754.65	741.61	0.00	0.00	0.00
8,200.00	89.99	180.08	7,260.13	-721.38	-754.80	840.15	0.00	0.00	0.00
8,300.00	89.99	180.08	7,260.16	-821.38	-754.94	938.69	0.00	0.00	0.00
8,400.00	89.99	180.08	7,260.18	-921.38	-755.09	1,037.24	0.00	0.00	0.00
8,500.00	89.99	180.08	7,260.20	-1,021.38	-755.23	1,135.78	0.00	0.00	0.00
8,600.00	89.99	180.08	7,260.23	-1,121.38	-755.37	1,234.32	0.00	0.00	0.00
8,700.00	89.99	180.08	7,260.25	-1,221.38	-755.52	1,332.86	0.00	0.00	0.00

Anadarko Petroleum Corp

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl + rkb @ 4940.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl + rkb @ 4940.00ft
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Well:	Sarchet 37N-32HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Sarchet 37N-32HZ		
Design:	Sarchet 37N-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)
8,800.00	89.99	180.08	7,260.27	-1,321.38	-755.66	1,431.41	0.00	0.00	0.00
8,900.00	89.99	180.08	7,260.30	-1,421.38	-755.81	1,529.95	0.00	0.00	0.00
9,000.00	89.99	180.08	7,260.32	-1,521.38	-755.95	1,628.49	0.00	0.00	0.00
9,100.00	89.99	180.08	7,260.35	-1,621.38	-756.10	1,727.04	0.00	0.00	0.00
9,200.00	89.99	180.08	7,260.37	-1,721.38	-756.24	1,825.58	0.00	0.00	0.00
9,300.00	89.99	180.08	7,260.39	-1,821.38	-756.38	1,924.12	0.00	0.00	0.00
9,400.00	89.99	180.08	7,260.42	-1,921.38	-756.53	2,022.67	0.00	0.00	0.00
9,500.00	89.99	180.08	7,260.44	-2,021.38	-756.67	2,121.21	0.00	0.00	0.00
9,600.00	89.99	180.08	7,260.47	-2,121.38	-756.82	2,219.75	0.00	0.00	0.00
9,700.00	89.99	180.08	7,260.49	-2,221.38	-756.96	2,318.29	0.00	0.00	0.00
9,800.00	89.99	180.08	7,260.51	-2,321.38	-757.11	2,416.84	0.00	0.00	0.00
9,900.00	89.99	180.08	7,260.54	-2,421.38	-757.25	2,515.38	0.00	0.00	0.00
10,000.00	89.99	180.08	7,260.56	-2,521.38	-757.40	2,613.92	0.00	0.00	0.00
10,100.00	89.99	180.08	7,260.58	-2,621.38	-757.54	2,712.47	0.00	0.00	0.00
10,200.00	89.99	180.08	7,260.61	-2,721.38	-757.68	2,811.01	0.00	0.00	0.00
10,300.00	89.99	180.08	7,260.63	-2,821.38	-757.83	2,909.55	0.00	0.00	0.00
10,400.00	89.99	180.08	7,260.66	-2,921.38	-757.97	3,008.09	0.00	0.00	0.00
10,500.00	89.99	180.08	7,260.68	-3,021.38	-758.12	3,106.64	0.00	0.00	0.00
10,600.00	89.99	180.08	7,260.70	-3,121.38	-758.26	3,205.18	0.00	0.00	0.00
10,700.00	89.99	180.08	7,260.73	-3,221.38	-758.41	3,303.72	0.00	0.00	0.00
10,800.00	89.99	180.08	7,260.75	-3,321.38	-758.55	3,402.27	0.00	0.00	0.00
10,900.00	89.99	180.08	7,260.78	-3,421.38	-758.70	3,500.81	0.00	0.00	0.00
11,000.00	89.99	180.08	7,260.80	-3,521.38	-758.84	3,599.35	0.00	0.00	0.00
11,100.00	89.99	180.08	7,260.82	-3,621.38	-758.98	3,697.89	0.00	0.00	0.00
11,200.00	89.99	180.08	7,260.85	-3,721.38	-759.13	3,796.44	0.00	0.00	0.00
11,300.00	89.99	180.08	7,260.87	-3,821.38	-759.27	3,894.98	0.00	0.00	0.00
11,400.00	89.99	180.08	7,260.89	-3,921.38	-759.42	3,993.52	0.00	0.00	0.00
11,500.00	89.99	180.08	7,260.92	-4,021.38	-759.56	4,092.07	0.00	0.00	0.00
11,600.00	89.99	180.08	7,260.94	-4,121.38	-759.71	4,190.61	0.00	0.00	0.00
11,700.00	89.99	180.08	7,260.97	-4,221.38	-759.85	4,289.15	0.00	0.00	0.00
11,800.00	89.99	180.08	7,260.99	-4,321.38	-759.99	4,387.69	0.00	0.00	0.00
11,844.53	89.99	180.08	7,261.00	-4,365.91	-760.06	4,431.57	0.00	0.00	0.00
Sarchet 37N-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 37N-32HZ BHL	0.00	0.00	7,261.00	-4,365.91	-760.06	1,307,530.52	3,196,919.93	40.175419	-104.795280
- 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	
7,648.62	7,260.00	7"	7	8-3/4	

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Sarchet 37N-32HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl + rkb @ 4940.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl + rkb @ 4940.00ft
Site:	WELD_SARCHET 1-32HZ Pad	North Reference:	True
Well:	Sarchet 37N-32HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Sarchet 37N-32HZ		
Design:	Sarchet 37N-32HZ (wp01)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,945.36	3,918.00	Parkman		0.00		
4,409.30	4,377.00	Sussex		0.00		
7,168.84	7,072.00	Sharon Springs		0.00		
7,284.58	7,149.00	Niobrara A		0.00		
7,331.37	7,175.00	Niobrara B		0.00		
7,392.28	7,204.00	Niobrara C		0.00		