

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

Van Portfliet 35-10HZ pad

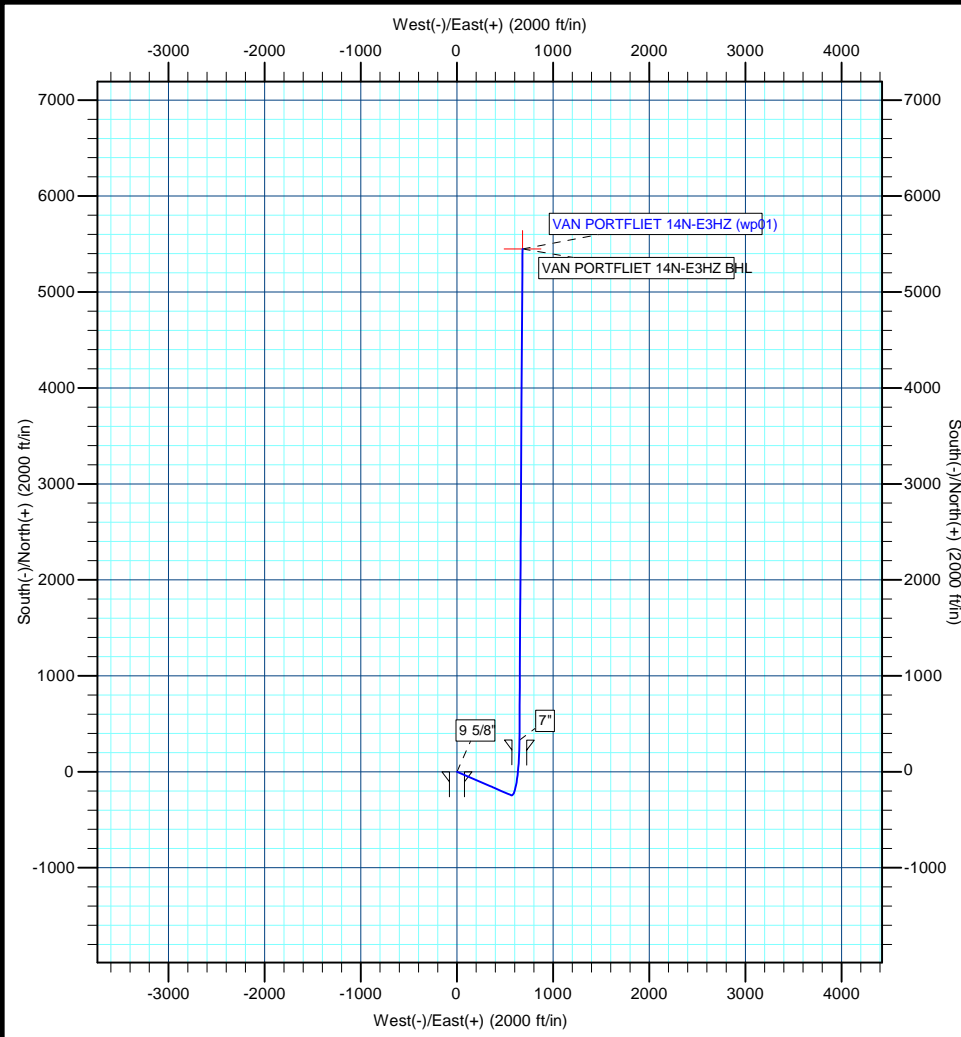
VAN PORTFLIET 14N-E3HZ

VAN PORTFLIET 14N-E3HZ

Plan: VAN PORTFLIET 14N-E3HZ (wp01)

Standard Planning Report

23 February, 2012



Azimuths to True North
 Magnetic North: 8.69°
 Magnetic Field Strength: 52936.6snT
 Dip Angle: 66.84°
 Date: 2/23/2012
 Model: IGRF2010

Project: COLORADO NORTHERN ZONE - 83
 Site: Van Portfliet 35-10HZ pad
 Well: VAN PORTFLIET 14N-E3HZ
 Wellbore: VAN PORTFLIET 14N-E3HZ
 Section:
 SHL:
 Design: VAN PORTFLIET 14N-E3HZ (wp01)
 Latitude: 40.146799
 Longitude: -104.655839
 GL: 4862.00
 KB: rkb + GL @ 4879.00ft



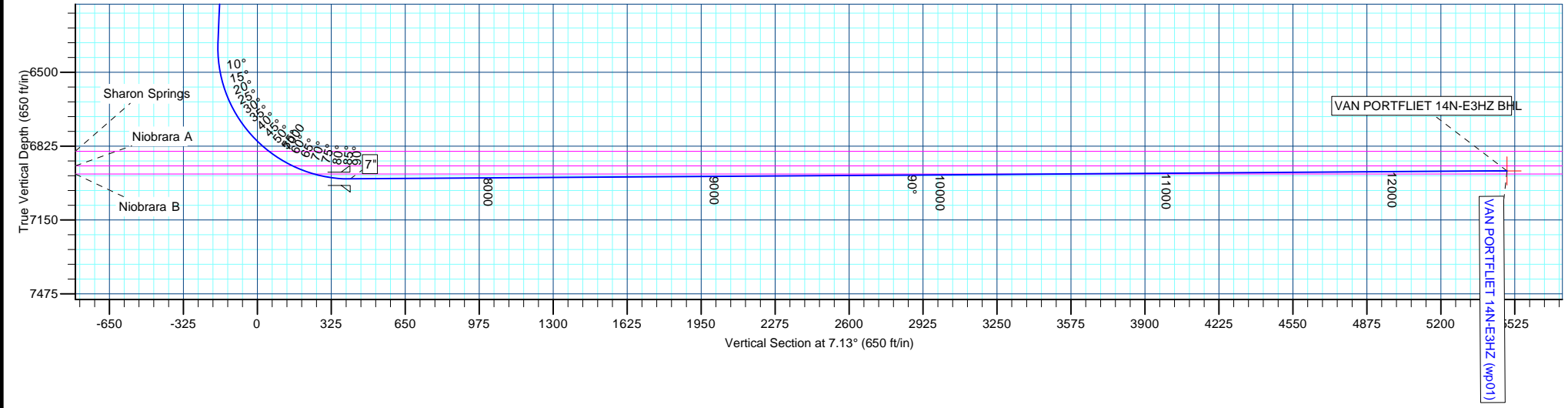
WELL DETAILS: VAN PORTFLIET 14N-E3HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	4862.00 Latitude	Longitude	Slot
0.00	0.00	1297445.53	3235982.10	40.146799	-104.655839	

SECTION DETAILS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00
2420.90	8.42	113.48	2419.38	-12.30	28.31	2.00	113.48	-8.69
6413.22	8.42	113.48	6368.70	-245.16	564.36	0.00	0.00	-173.22
7349.85	90.37	0.34	6969.00	330.00	650.00	10.00	-112.87	408.12
7352.49	90.39	0.35	6968.98	332.64	650.02	1.00	25.81	410.74
2467.94	90.39	0.35	6934.00	5447.87	681.40	0.00	0.00	5490.32

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
VAN PORTFLIET 14N-E3HZ BHL	6934.00	5447.87	681.40	40.161754	-104.653401	Point

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3894.00	3911.57	Parkman
4481.00	4504.97	Sussex
6848.00	6965.05	Sharon Springs
6912.00	7087.16	Niobrara A
6948.00	7189.76	Niobrara B

CASING DETAILS			
TVD	MD	Name	Size
900.00	900.00	9 5/8"	9-5/8
6969.00	7349.85	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well VAN PORTFLIET 14N-E3HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	rkb + GL @ 4879.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	rkb + GL @ 4879.00ft
Site:	Van Portfliet 35-10HZ pad	North Reference:	True
Well:	VAN PORTFLIET 14N-E3HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	VAN PORTFLIET 14N-E3HZ		
Design:	VAN PORTFLIET 14N-E3HZ (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	Van Portfliet 35-10HZ pad				
Site Position:	Northing:	1,297,445.85 usft	Latitude:	40.146799	
From:	Lat/Long	Easting:	3,236,012.29 usft	Longitude:	-104.655731
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.55 °

Well	VAN PORTFLIET 14N-E3HZ					
Well Position	+N/-S	-0.04 ft	Northing:	1,297,445.52 usft	Latitude:	40.146799
	+E/-W	-30.19 ft	Easting:	3,235,982.10 usft	Longitude:	-104.655839
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,862.00 ft

Wellbore	VAN PORTFLIET 14N-E3HZ				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	2/23/2012	(°)	(°)	(nT)
			8.69	66.84	52,937

Design	VAN PORTFLIET 14N-E3HZ (wp01)			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	7.13

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,420.90	8.42	113.48	2,419.38	-12.30	28.31	2.00	2.00	0.00	113.48	
6,413.22	8.42	113.48	6,368.70	-245.16	564.36	0.00	0.00	0.00	0.00	
7,349.85	90.37	0.34	6,969.00	330.00	650.00	10.00	8.75	-12.08	-112.87	
7,352.49	90.39	0.35	6,968.98	332.64	650.02	1.00	0.90	0.44	25.81	
12,467.94	90.39	0.35	6,934.00	5,447.88	681.40	0.00	0.00	0.00	0.00	VAN PORTFLIET 14N

Anadarko Petroleum Corp

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Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	rkb + GL @ 4879.00ft
Site:	Van Portfliet 35-10HZ pad	North Reference:	True
Well:	VAN PORTFLIET 14N-E3HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	VAN PORTFLIET 14N-E3HZ		
Design:	VAN PORTFLIET 14N-E3HZ (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	0.00
100.00	0.00	0.00	100.00	0.00	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	0.00
300.00	0.00	0.00	300.00	0.00	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	0.00
500.00	0.00	0.00	500.00	0.00	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	0.00
700.00	0.00	0.00	700.00	0.00	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	0.00
900.00	0.00	0.00	900.00	0.00	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	0.00
1,100.00	0.00	0.00	1,100.00	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	0.00
1,300.00	0.00	0.00	1,300.00	0.00	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	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	113.48	2,099.98	-0.70	1.60	-0.49	2.00	2.00	0.00	0.00
2,200.00	4.00	113.48	2,199.84	-2.78	6.40	-1.96	2.00	2.00	0.00	0.00
2,300.00	6.00	113.48	2,299.45	-6.25	14.39	-4.42	2.00	2.00	0.00	0.00
2,400.00	8.00	113.48	2,398.70	-11.11	25.57	-7.85	2.00	2.00	0.00	0.00
2,420.90	8.42	113.48	2,419.38	-12.30	28.31	-8.69	2.00	2.00	0.00	0.00
2,500.00	8.42	113.48	2,497.64	-16.91	38.93	-11.95	0.00	0.00	0.00	0.00
2,600.00	8.42	113.48	2,596.56	-22.74	52.36	-16.07	0.00	0.00	0.00	0.00
2,700.00	8.42	113.48	2,695.48	-28.58	65.78	-20.19	0.00	0.00	0.00	0.00
2,800.00	8.42	113.48	2,794.40	-34.41	79.21	-24.31	0.00	0.00	0.00	0.00
2,900.00	8.42	113.48	2,893.33	-40.24	92.64	-28.43	0.00	0.00	0.00	0.00
3,000.00	8.42	113.48	2,992.25	-46.07	106.06	-32.55	0.00	0.00	0.00	0.00
3,100.00	8.42	113.48	3,091.17	-51.91	119.49	-36.68	0.00	0.00	0.00	0.00
3,200.00	8.42	113.48	3,190.09	-57.74	132.92	-40.80	0.00	0.00	0.00	0.00
3,300.00	8.42	113.48	3,289.02	-63.57	146.35	-44.92	0.00	0.00	0.00	0.00
3,400.00	8.42	113.48	3,387.94	-69.41	159.77	-49.04	0.00	0.00	0.00	0.00
3,500.00	8.42	113.48	3,486.86	-75.24	173.20	-53.16	0.00	0.00	0.00	0.00
3,600.00	8.42	113.48	3,585.78	-81.07	186.63	-57.28	0.00	0.00	0.00	0.00
3,700.00	8.42	113.48	3,684.71	-86.90	200.05	-61.40	0.00	0.00	0.00	0.00
3,800.00	8.42	113.48	3,783.63	-92.74	213.48	-65.52	0.00	0.00	0.00	0.00
3,900.00	8.42	113.48	3,882.55	-98.57	226.91	-69.65	0.00	0.00	0.00	0.00
3,911.57	8.42	113.48	3,894.00	-99.24	228.46	-70.12	0.00	0.00	0.00	0.00
Parkman										
4,000.00	8.42	113.48	3,981.48	-104.40	240.34	-73.77	0.00	0.00	0.00	0.00
4,100.00	8.42	113.48	4,080.40	-110.23	253.76	-77.89	0.00	0.00	0.00	0.00
4,200.00	8.42	113.48	4,179.32	-116.07	267.19	-82.01	0.00	0.00	0.00	0.00
4,300.00	8.42	113.48	4,278.24	-121.90	280.62	-86.13	0.00	0.00	0.00	0.00
4,400.00	8.42	113.48	4,377.17	-127.73	294.04	-90.25	0.00	0.00	0.00	0.00
4,500.00	8.42	113.48	4,476.09	-133.57	307.47	-94.37	0.00	0.00	0.00	0.00
4,504.97	8.42	113.48	4,481.00	-133.86	308.14	-94.58	0.00	0.00	0.00	0.00
Sussex										
4,600.00	8.42	113.48	4,575.01	-139.40	320.90	-98.49	0.00	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	rkb + GL @ 4879.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	rkb + GL @ 4879.00ft
Site:	Van Portfliet 35-10HZ pad	North Reference:	True
Well:	VAN PORTFLIET 14N-E3HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	VAN PORTFLIET 14N-E3HZ		
Design:	VAN PORTFLIET 14N-E3HZ (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)
4,700.00	8.42	113.48	4,673.93	-145.23	334.33	-102.62	0.00	0.00	0.00
4,800.00	8.42	113.48	4,772.86	-151.06	347.75	-106.74	0.00	0.00	0.00
4,900.00	8.42	113.48	4,871.78	-156.90	361.18	-110.86	0.00	0.00	0.00
5,000.00	8.42	113.48	4,970.70	-162.73	374.61	-114.98	0.00	0.00	0.00
5,100.00	8.42	113.48	5,069.62	-168.56	388.03	-119.10	0.00	0.00	0.00
5,200.00	8.42	113.48	5,168.55	-174.39	401.46	-123.22	0.00	0.00	0.00
5,300.00	8.42	113.48	5,267.47	-180.23	414.89	-127.34	0.00	0.00	0.00
5,400.00	8.42	113.48	5,366.39	-186.06	428.32	-131.46	0.00	0.00	0.00
5,500.00	8.42	113.48	5,465.32	-191.89	441.74	-135.59	0.00	0.00	0.00
5,600.00	8.42	113.48	5,564.24	-197.73	455.17	-139.71	0.00	0.00	0.00
5,700.00	8.42	113.48	5,663.16	-203.56	468.60	-143.83	0.00	0.00	0.00
5,800.00	8.42	113.48	5,762.08	-209.39	482.02	-147.95	0.00	0.00	0.00
5,900.00	8.42	113.48	5,861.01	-215.22	495.45	-152.07	0.00	0.00	0.00
6,000.00	8.42	113.48	5,959.93	-221.06	508.88	-156.19	0.00	0.00	0.00
6,100.00	8.42	113.48	6,058.85	-226.89	522.31	-160.31	0.00	0.00	0.00
6,200.00	8.42	113.48	6,157.77	-232.72	535.73	-164.43	0.00	0.00	0.00
6,300.00	8.42	113.48	6,256.70	-238.56	549.16	-168.56	0.00	0.00	0.00
6,400.00	8.42	113.48	6,355.62	-244.39	562.59	-172.68	0.00	0.00	0.00
6,413.22	8.42	113.48	6,368.70	-245.16	564.36	-173.22	0.00	0.00	0.00
6,500.00	9.43	55.43	6,454.59	-243.65	576.06	-170.27	10.00	1.17	-66.89
6,600.00	17.19	26.50	6,551.93	-225.74	589.44	-150.84	10.00	7.76	-28.93
6,700.00	26.47	16.26	6,644.69	-191.03	602.30	-114.81	10.00	9.28	-10.24
6,800.00	36.12	11.14	6,730.05	-140.59	614.27	-63.27	10.00	9.65	-5.12
6,900.00	45.90	7.97	6,805.43	-75.95	624.97	2.20	10.00	9.78	-3.17
6,965.05	52.30	6.43	6,848.00	-27.20	631.10	51.34	10.00	9.84	-2.37
Sharon Springs									
7,000.00	55.75	5.71	6,868.53	0.93	634.08	79.61	10.00	9.86	-2.06
7,087.16	64.36	4.14	6,912.00	76.10	640.51	155.00	10.00	9.88	-1.80
Niobrara A									
7,100.00	65.63	3.93	6,917.43	87.71	641.33	166.62	10.00	9.89	-1.64
7,189.76	74.51	2.55	6,948.00	171.87	646.06	250.73	10.00	9.90	-1.53
Niobrara B									
7,200.00	75.52	2.40	6,950.65	181.75	646.49	260.58	10.00	9.90	-1.45
7,300.00	85.43	1.01	6,967.17	280.20	649.41	358.64	10.00	9.91	-1.39
7,349.85	90.37	0.34	6,969.00	330.00	650.00	408.12	10.00	9.91	-1.35
7"									
7,352.49	90.39	0.35	6,968.98	332.64	650.02	410.74	1.00	0.90	0.44
7,400.00	90.39	0.35	6,968.66	380.15	650.31	457.92	0.00	0.00	0.00
7,500.00	90.39	0.35	6,967.97	480.15	650.92	557.22	0.00	0.00	0.00
7,600.00	90.39	0.35	6,967.29	580.14	651.53	656.52	0.00	0.00	0.00
7,700.00	90.39	0.35	6,966.61	680.14	652.15	755.82	0.00	0.00	0.00
7,800.00	90.39	0.35	6,965.92	780.13	652.76	855.11	0.00	0.00	0.00
7,900.00	90.39	0.35	6,965.24	880.13	653.37	954.41	0.00	0.00	0.00
8,000.00	90.39	0.35	6,964.55	980.12	653.99	1,053.71	0.00	0.00	0.00
8,100.00	90.39	0.35	6,963.87	1,080.12	654.60	1,153.01	0.00	0.00	0.00
8,200.00	90.39	0.35	6,963.19	1,180.12	655.21	1,252.31	0.00	0.00	0.00
8,300.00	90.39	0.35	6,962.50	1,280.11	655.83	1,351.61	0.00	0.00	0.00
8,400.00	90.39	0.35	6,961.82	1,380.11	656.44	1,450.91	0.00	0.00	0.00
8,500.00	90.39	0.35	6,961.14	1,480.10	657.06	1,550.21	0.00	0.00	0.00
8,600.00	90.39	0.35	6,960.45	1,580.10	657.67	1,649.50	0.00	0.00	0.00
8,700.00	90.39	0.35	6,959.77	1,680.09	658.28	1,748.80	0.00	0.00	0.00
8,800.00	90.39	0.35	6,959.08	1,780.09	658.90	1,848.10	0.00	0.00	0.00
8,900.00	90.39	0.35	6,958.40	1,880.09	659.51	1,947.40	0.00	0.00	0.00
9,000.00	90.39	0.35	6,957.72	1,980.08	660.12	2,046.70	0.00	0.00	0.00

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	rkb + GL @ 4879.00ft
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Wellbore:	VAN PORTFLIET 14N-E3HZ		
Design:	VAN PORTFLIET 14N-E3HZ (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)	
9,100.00	90.39	0.35	6,957.03	2,080.08	660.74	2,146.00	0.00	0.00	0.00	
9,200.00	90.39	0.35	6,956.35	2,180.07	661.35	2,245.30	0.00	0.00	0.00	
9,300.00	90.39	0.35	6,955.66	2,280.07	661.96	2,344.60	0.00	0.00	0.00	
9,400.00	90.39	0.35	6,954.98	2,380.07	662.58	2,443.90	0.00	0.00	0.00	
9,500.00	90.39	0.35	6,954.30	2,480.06	663.19	2,543.19	0.00	0.00	0.00	
9,600.00	90.39	0.35	6,953.61	2,580.06	663.80	2,642.49	0.00	0.00	0.00	
9,700.00	90.39	0.35	6,952.93	2,680.05	664.42	2,741.79	0.00	0.00	0.00	
9,800.00	90.39	0.35	6,952.25	2,780.05	665.03	2,841.09	0.00	0.00	0.00	
9,900.00	90.39	0.35	6,951.56	2,880.04	665.64	2,940.39	0.00	0.00	0.00	
10,000.00	90.39	0.35	6,950.88	2,980.04	666.26	3,039.69	0.00	0.00	0.00	
10,100.00	90.39	0.35	6,950.19	3,080.04	666.87	3,138.99	0.00	0.00	0.00	
10,200.00	90.39	0.35	6,949.51	3,180.03	667.48	3,238.29	0.00	0.00	0.00	
10,300.00	90.39	0.35	6,948.83	3,280.03	668.10	3,337.58	0.00	0.00	0.00	
10,400.00	90.39	0.35	6,948.14	3,380.02	668.71	3,436.88	0.00	0.00	0.00	
10,500.00	90.39	0.35	6,947.46	3,480.02	669.32	3,536.18	0.00	0.00	0.00	
10,600.00	90.39	0.35	6,946.77	3,580.01	669.94	3,635.48	0.00	0.00	0.00	
10,700.00	90.39	0.35	6,946.09	3,680.01	670.55	3,734.78	0.00	0.00	0.00	
10,800.00	90.39	0.35	6,945.41	3,780.01	671.16	3,834.08	0.00	0.00	0.00	
10,900.00	90.39	0.35	6,944.72	3,880.00	671.78	3,933.38	0.00	0.00	0.00	
11,000.00	90.39	0.35	6,944.04	3,980.00	672.39	4,032.68	0.00	0.00	0.00	
11,100.00	90.39	0.35	6,943.35	4,079.99	673.00	4,131.98	0.00	0.00	0.00	
11,200.00	90.39	0.35	6,942.67	4,179.99	673.62	4,231.27	0.00	0.00	0.00	
11,300.00	90.39	0.35	6,941.99	4,279.99	674.23	4,330.57	0.00	0.00	0.00	
11,400.00	90.39	0.35	6,941.30	4,379.98	674.84	4,429.87	0.00	0.00	0.00	
11,500.00	90.39	0.35	6,940.62	4,479.98	675.46	4,529.17	0.00	0.00	0.00	
11,600.00	90.39	0.35	6,939.94	4,579.97	676.07	4,628.47	0.00	0.00	0.00	
11,700.00	90.39	0.35	6,939.25	4,679.97	676.69	4,727.77	0.00	0.00	0.00	
11,800.00	90.39	0.35	6,938.57	4,779.96	677.30	4,827.07	0.00	0.00	0.00	
11,900.00	90.39	0.35	6,937.88	4,879.96	677.91	4,926.37	0.00	0.00	0.00	
12,000.00	90.39	0.35	6,937.20	4,979.96	678.53	5,025.66	0.00	0.00	0.00	
12,100.00	90.39	0.35	6,936.52	5,079.95	679.14	5,124.96	0.00	0.00	0.00	
12,200.00	90.39	0.35	6,935.83	5,179.95	679.75	5,224.26	0.00	0.00	0.00	
12,300.00	90.39	0.35	6,935.15	5,279.94	680.37	5,323.56	0.00	0.00	0.00	
12,400.00	90.39	0.35	6,934.46	5,379.94	680.98	5,422.86	0.00	0.00	0.00	
12,467.94	90.39	0.35	6,934.00	5,447.88	681.40	5,490.32	0.00	0.00	0.00	
VAN PORTFLIET 14N-E3HZ BHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
VAN PORTFLIET 14N-E - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	6,934.00	5,447.88	681.40	1,302,899.63	3,236,611.60	40.161754	-104.653401	

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well VAN PORTFLIET 14N-E3HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	rkb + GL @ 4879.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	rkb + GL @ 4879.00ft
Site:	Van Portfliet 35-10HZ pad	North Reference:	True
Well:	VAN PORTFLIET 14N-E3HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	VAN PORTFLIET 14N-E3HZ		
Design:	VAN PORTFLIET 14N-E3HZ (wp01)		

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	
7,349.85	6,969.00	7"		7	8-3/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,911.57	3,894.00	Parkman				
4,504.97	4,481.00	Sussex				
6,965.05	6,848.00	Sharon Springs				
7,087.16	6,912.00	Niobrara A				
7,189.76	6,948.00	Niobrara B				