

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

Van Portfliet 35-10HZ pad

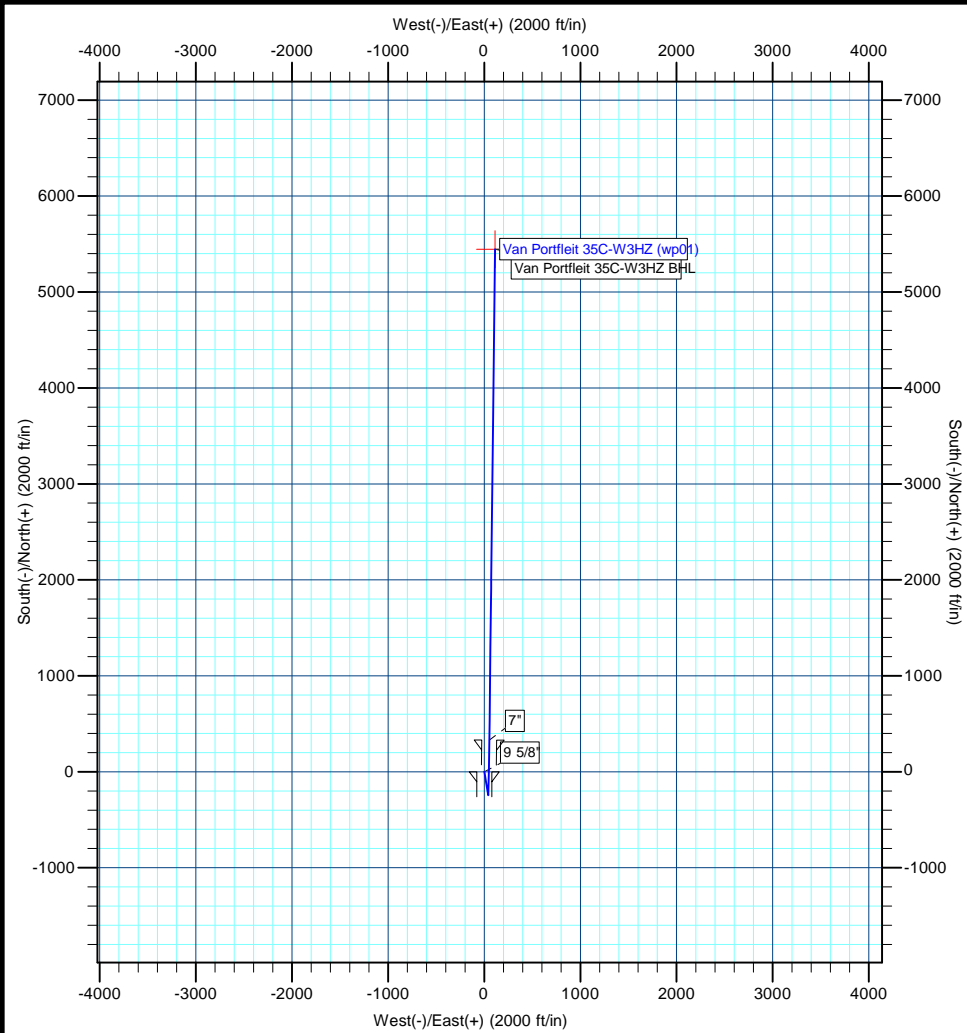
Van Portfleit 35C-W3HZ

Van Portfleit 35C-W3HZ

Plan: Van Portfleit 35C-W3HZ (wp01)

Standard Planning Report

23 February, 2012



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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 Portfleit 35-10HZ pad
Well: Van Portfleit 35C-W3HZ
Wellbore: Van Portfleit 35C-W3HZ
Section:
SHL:
Design: Van Portfleit 35C-W3HZ (wp01)
Latitude: 40.146799
Longitude: -104.655946
GL: 4862.00
KB: rkb + gl @ 4879.00ft

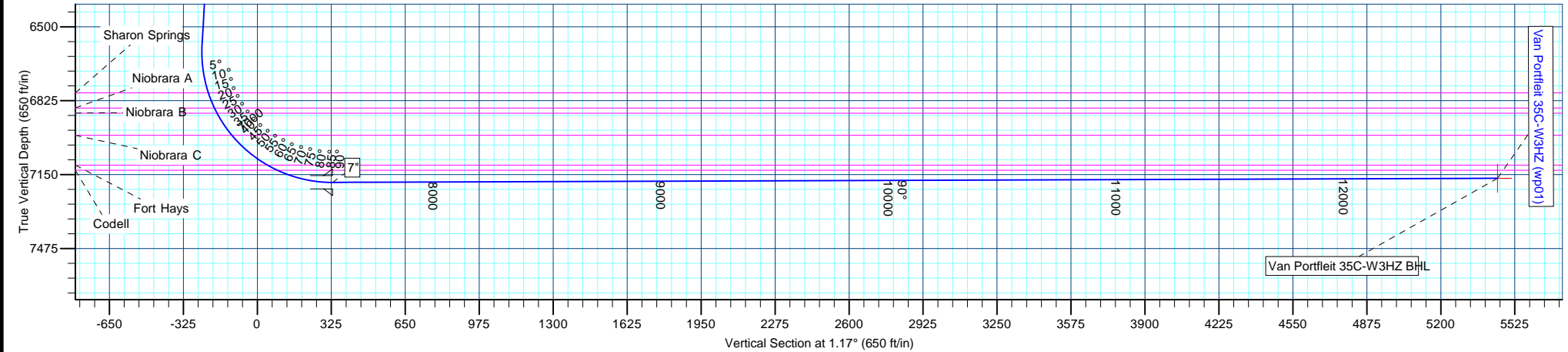
WELL DETAILS: Van Portfleit 35C-W3HZ						
+N-S	+E-W	Northing	Ground Level: Easting	4862.00 Latitude	Longitude	Slot
0.00	0.00	1297445.22	3235952.19	40.146799	-104.655946	

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
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00
2157.14	3.14	170.70	2157.06	-4.25	0.70	2.00	170.70	-4.24
6586.87	3.14	170.70	6580.13	-243.92	39.95	0.00	0.00	-243.05
7519.72	90.19	0.63	7184.00	330.00	52.00	10.00	-170.05	330.99
7523.26	90.20	0.66	7183.99	333.54	52.04	1.00	69.81	334.53
7637.62	90.20	0.66	7166.00	5447.52	111.24	0.00	0.00	5448.65

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N-S	+E-W	Latitude	Longitude	Shape
Van Portfleit 35C-W3HZ BHL	7166.00	5447.52	111.24	40.161753	-104.655548	Point

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
706.00	706.00	Fox Hills
3843.00	3845.62	Parkman
4433.00	4436.51	Sussex
6790.00	6799.81	Sharon Springs
6857.00	6872.03	Niobrara A
6880.00	6897.78	Niobrara B
6977.00	7014.77	Niobrara C
7108.00	7219.34	Fort Hays
7131.00	7269.43	Codell

CASING DETAILS			
TVD	MD	Name	Size
900.00	900.00	9 5/8"	9-5/8
7184.00	7519.72	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Van Portfleit 35C-W3HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	rkb + gl @ 4879.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	rkb + gl @ 4879.00ft
Site:	Van Portfleit 35-10HZ pad	North Reference:	True
Well:	Van Portfleit 35C-W3HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Van Portfleit 35C-W3HZ		
Design:	Van Portfleit 35C-W3HZ (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 Portfleit 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 Portfleit 35C-W3HZ					
Well Position	+N/-S	-0.05 ft	Northing:	1,297,445.22 usft	Latitude:	40.146799
	+E/-W	-60.10 ft	Easting:	3,235,952.19 usft	Longitude:	-104.655946
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,862.00 ft

Wellbore	Van Portfleit 35C-W3HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/23/2012	8.69	66.84	52,937

Design	Van Portfleit 35C-W3HZ (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	1.17

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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,157.14	3.14	170.70	2,157.06	-4.25	0.70	2.00	2.00	0.00	170.70	
6,586.87	3.14	170.70	6,580.13	-243.92	39.95	0.00	0.00	0.00	0.00	
7,519.72	90.19	0.63	7,184.00	330.00	52.00	10.00	9.33	-18.23	-170.05	
7,523.26	90.20	0.66	7,183.99	333.54	52.04	1.00	0.35	0.94	69.81	
12,637.62	90.20	0.66	7,166.00	5,447.52	111.24	0.00	0.00	0.00	0.00	Van Portfleit 35C-W3I

Anadarko Petroleum Corp

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Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	rkb + gl @ 4879.00ft
Site:	Van Portfleit 35-10HZ pad	North Reference:	True
Well:	Van Portfleit 35C-W3HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Van Portfleit 35C-W3HZ		
Design:	Van Portfleit 35C-W3HZ (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	
706.00	0.00	0.00	706.00	0.00	0.00	0.00	0.00	0.00	0.00	
Fox Hills										
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	
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	
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	
1,600.00	0.00	0.00	1,600.00	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	
1,800.00	0.00	0.00	1,800.00	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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,100.00	2.00	170.70	2,099.98	-1.72	0.28	-1.72	2.00	2.00	0.00	
2,157.14	3.14	170.70	2,157.06	-4.25	0.70	-4.24	2.00	2.00	0.00	
2,200.00	3.14	170.70	2,199.86	-6.57	1.08	-6.55	0.00	0.00	0.00	
2,300.00	3.14	170.70	2,299.71	-11.98	1.96	-11.94	0.00	0.00	0.00	
2,400.00	3.14	170.70	2,399.56	-17.39	2.85	-17.33	0.00	0.00	0.00	
2,500.00	3.14	170.70	2,499.41	-22.80	3.73	-22.72	0.00	0.00	0.00	
2,600.00	3.14	170.70	2,599.26	-28.21	4.62	-28.11	0.00	0.00	0.00	
2,700.00	3.14	170.70	2,699.10	-33.62	5.51	-33.50	0.00	0.00	0.00	
2,800.00	3.14	170.70	2,798.95	-39.03	6.39	-38.89	0.00	0.00	0.00	
2,900.00	3.14	170.70	2,898.80	-44.44	7.28	-44.29	0.00	0.00	0.00	
3,000.00	3.14	170.70	2,998.65	-49.85	8.17	-49.68	0.00	0.00	0.00	
3,100.00	3.14	170.70	3,098.50	-55.26	9.05	-55.07	0.00	0.00	0.00	
3,200.00	3.14	170.70	3,198.35	-60.67	9.94	-60.46	0.00	0.00	0.00	
3,300.00	3.14	170.70	3,298.20	-66.09	10.82	-65.85	0.00	0.00	0.00	
3,400.00	3.14	170.70	3,398.05	-71.50	11.71	-71.24	0.00	0.00	0.00	
3,500.00	3.14	170.70	3,497.90	-76.91	12.60	-76.63	0.00	0.00	0.00	
3,600.00	3.14	170.70	3,597.75	-82.32	13.48	-82.02	0.00	0.00	0.00	
3,700.00	3.14	170.70	3,697.60	-87.73	14.37	-87.42	0.00	0.00	0.00	
3,800.00	3.14	170.70	3,797.45	-93.14	15.25	-92.81	0.00	0.00	0.00	
3,845.62	3.14	170.70	3,843.00	-95.61	15.66	-95.27	0.00	0.00	0.00	
Parkman										
3,900.00	3.14	170.70	3,897.30	-98.55	16.14	-98.20	0.00	0.00	0.00	
4,000.00	3.14	170.70	3,997.15	-103.96	17.03	-103.59	0.00	0.00	0.00	
4,100.00	3.14	170.70	4,097.00	-109.37	17.91	-108.98	0.00	0.00	0.00	
4,200.00	3.14	170.70	4,196.85	-114.78	18.80	-114.37	0.00	0.00	0.00	
4,300.00	3.14	170.70	4,296.70	-120.19	19.69	-119.76	0.00	0.00	0.00	
4,400.00	3.14	170.70	4,396.55	-125.60	20.57	-125.15	0.00	0.00	0.00	
4,436.51	3.14	170.70	4,433.00	-127.57	20.90	-127.12	0.00	0.00	0.00	
Sussex										
4,500.00	3.14	170.70	4,496.40	-131.01	21.46	-130.54	0.00	0.00	0.00	

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Van Portfleit 35C-W3HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	rkb + gl @ 4879.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	rkb + gl @ 4879.00ft
Site:	Van Portfleit 35-10HZ pad	North Reference:	True
Well:	Van Portfleit 35C-W3HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Van Portfleit 35C-W3HZ		
Design:	Van Portfleit 35C-W3HZ (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	3.14	170.70	4,596.25	-136.42	22.34	-135.94	0.00	0.00	0.00
4,700.00	3.14	170.70	4,696.10	-141.83	23.23	-141.33	0.00	0.00	0.00
4,800.00	3.14	170.70	4,795.95	-147.24	24.12	-146.72	0.00	0.00	0.00
4,900.00	3.14	170.70	4,895.80	-152.65	25.00	-152.11	0.00	0.00	0.00
5,000.00	3.14	170.70	4,995.65	-158.06	25.89	-157.50	0.00	0.00	0.00
5,100.00	3.14	170.70	5,095.50	-163.47	26.77	-162.89	0.00	0.00	0.00
5,200.00	3.14	170.70	5,195.34	-168.88	27.66	-168.28	0.00	0.00	0.00
5,300.00	3.14	170.70	5,295.19	-174.29	28.55	-173.67	0.00	0.00	0.00
5,400.00	3.14	170.70	5,395.04	-179.70	29.43	-179.07	0.00	0.00	0.00
5,500.00	3.14	170.70	5,494.89	-185.11	30.32	-184.46	0.00	0.00	0.00
5,600.00	3.14	170.70	5,594.74	-190.52	31.21	-189.85	0.00	0.00	0.00
5,700.00	3.14	170.70	5,694.59	-195.93	32.09	-195.24	0.00	0.00	0.00
5,800.00	3.14	170.70	5,794.44	-201.35	32.98	-200.63	0.00	0.00	0.00
5,900.00	3.14	170.70	5,894.29	-206.76	33.86	-206.02	0.00	0.00	0.00
6,000.00	3.14	170.70	5,994.14	-212.17	34.75	-211.41	0.00	0.00	0.00
6,100.00	3.14	170.70	6,093.99	-217.58	35.64	-216.80	0.00	0.00	0.00
6,200.00	3.14	170.70	6,193.84	-222.99	36.52	-222.19	0.00	0.00	0.00
6,300.00	3.14	170.70	6,293.69	-228.40	37.41	-227.59	0.00	0.00	0.00
6,400.00	3.14	170.70	6,393.54	-233.81	38.30	-232.98	0.00	0.00	0.00
6,500.00	3.14	170.70	6,493.39	-239.22	39.18	-238.37	0.00	0.00	0.00
6,586.87	3.14	170.70	6,580.13	-243.92	39.95	-243.05	0.00	0.00	0.00
6,600.00	1.86	163.71	6,593.25	-244.48	40.07	-243.61	10.00	-9.74	-53.25
6,700.00	8.24	4.38	6,692.96	-238.88	41.08	-238.00	10.00	6.37	-159.32
6,799.81	18.21	2.28	6,790.00	-216.12	42.25	-215.21	10.00	9.99	-2.11
Sharon Springs									
6,800.00	18.23	2.28	6,790.18	-216.06	42.25	-215.15	10.00	10.00	-0.97
6,872.03	25.43	1.77	6,857.00	-189.32	43.18	-188.40	10.00	10.00	-0.70
Niobrara A									
6,897.78	28.00	1.65	6,880.00	-177.75	43.52	-176.82	10.00	10.00	-0.47
Niobrara B									
6,900.00	28.22	1.64	6,881.96	-176.70	43.55	-175.77	10.00	10.00	-0.43
7,000.00	38.22	1.32	6,965.51	-122.00	44.95	-121.06	10.00	10.00	-0.32
7,014.77	39.70	1.29	6,977.00	-112.71	45.16	-111.77	10.00	10.00	-0.24
Niobrara C									
7,100.00	48.22	1.12	7,038.29	-53.62	46.39	-52.66	10.00	10.00	-0.20
7,200.00	58.22	0.97	7,098.09	26.36	47.84	27.33	10.00	10.00	-0.15
7,219.34	60.15	0.94	7,108.00	42.97	48.11	43.94	10.00	10.00	-0.13
Fort Hays									
7,269.43	65.16	0.88	7,131.00	87.44	48.82	88.42	10.00	10.00	-0.12
Codell									
7,300.00	68.22	0.85	7,143.09	115.50	49.25	116.49	10.00	10.00	-0.11
7,400.00	78.22	0.74	7,171.93	211.11	50.57	212.10	10.00	10.00	-0.10
7,500.00	88.22	0.65	7,183.73	310.28	51.78	311.27	10.00	10.00	-0.10
7,519.72	90.19	0.63	7,184.00	330.00	52.00	330.99	10.00	10.00	-0.09
7"									
7,523.26	90.20	0.66	7,183.99	333.54	52.04	334.53	1.00	0.35	0.94
7,600.00	90.20	0.66	7,183.72	410.27	52.93	411.27	0.00	0.00	0.00
7,700.00	90.20	0.66	7,183.37	510.26	54.09	511.26	0.00	0.00	0.00
7,800.00	90.20	0.66	7,183.01	610.26	55.24	611.26	0.00	0.00	0.00
7,900.00	90.20	0.66	7,182.66	710.25	56.40	711.25	0.00	0.00	0.00
8,000.00	90.20	0.66	7,182.31	810.24	57.56	811.25	0.00	0.00	0.00
8,100.00	90.20	0.66	7,181.96	910.24	58.72	911.24	0.00	0.00	0.00
8,200.00	90.20	0.66	7,181.61	1,010.23	59.87	1,011.24	0.00	0.00	0.00

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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
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Wellbore:	Van Portfleit 35C-W3HZ		
Design:	Van Portfleit 35C-W3HZ (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	90.20	0.66	7,181.26	1,110.22	61.03	1,111.23	0.00	0.00	0.00	
8,400.00	90.20	0.66	7,180.90	1,210.21	62.19	1,211.23	0.00	0.00	0.00	
8,500.00	90.20	0.66	7,180.55	1,310.21	63.35	1,311.23	0.00	0.00	0.00	
8,600.00	90.20	0.66	7,180.20	1,410.20	64.50	1,411.22	0.00	0.00	0.00	
8,700.00	90.20	0.66	7,179.85	1,510.19	65.66	1,511.22	0.00	0.00	0.00	
8,800.00	90.20	0.66	7,179.50	1,610.18	66.82	1,611.21	0.00	0.00	0.00	
8,900.00	90.20	0.66	7,179.15	1,710.18	67.98	1,711.21	0.00	0.00	0.00	
9,000.00	90.20	0.66	7,178.79	1,810.17	69.13	1,811.20	0.00	0.00	0.00	
9,100.00	90.20	0.66	7,178.44	1,910.16	70.29	1,911.20	0.00	0.00	0.00	
9,200.00	90.20	0.66	7,178.09	2,010.15	71.45	2,011.19	0.00	0.00	0.00	
9,300.00	90.20	0.66	7,177.74	2,110.15	72.61	2,111.19	0.00	0.00	0.00	
9,400.00	90.20	0.66	7,177.39	2,210.14	73.76	2,211.19	0.00	0.00	0.00	
9,500.00	90.20	0.66	7,177.04	2,310.13	74.92	2,311.18	0.00	0.00	0.00	
9,600.00	90.20	0.66	7,176.68	2,410.13	76.08	2,411.18	0.00	0.00	0.00	
9,700.00	90.20	0.66	7,176.33	2,510.12	77.23	2,511.17	0.00	0.00	0.00	
9,800.00	90.20	0.66	7,175.98	2,610.11	78.39	2,611.17	0.00	0.00	0.00	
9,900.00	90.20	0.66	7,175.63	2,710.10	79.55	2,711.16	0.00	0.00	0.00	
10,000.00	90.20	0.66	7,175.28	2,810.10	80.71	2,811.16	0.00	0.00	0.00	
10,100.00	90.20	0.66	7,174.93	2,910.09	81.86	2,911.15	0.00	0.00	0.00	
10,200.00	90.20	0.66	7,174.57	3,010.08	83.02	3,011.15	0.00	0.00	0.00	
10,300.00	90.20	0.66	7,174.22	3,110.07	84.18	3,111.14	0.00	0.00	0.00	
10,400.00	90.20	0.66	7,173.87	3,210.07	85.34	3,211.14	0.00	0.00	0.00	
10,500.00	90.20	0.66	7,173.52	3,310.06	86.49	3,311.14	0.00	0.00	0.00	
10,600.00	90.20	0.66	7,173.17	3,410.05	87.65	3,411.13	0.00	0.00	0.00	
10,700.00	90.20	0.66	7,172.82	3,510.04	88.81	3,511.13	0.00	0.00	0.00	
10,800.00	90.20	0.66	7,172.46	3,610.04	89.97	3,611.12	0.00	0.00	0.00	
10,900.00	90.20	0.66	7,172.11	3,710.03	91.12	3,711.12	0.00	0.00	0.00	
11,000.00	90.20	0.66	7,171.76	3,810.02	92.28	3,811.11	0.00	0.00	0.00	
11,100.00	90.20	0.66	7,171.41	3,910.02	93.44	3,911.11	0.00	0.00	0.00	
11,200.00	90.20	0.66	7,171.06	4,010.01	94.60	4,011.10	0.00	0.00	0.00	
11,300.00	90.20	0.66	7,170.70	4,110.00	95.75	4,111.10	0.00	0.00	0.00	
11,400.00	90.20	0.66	7,170.35	4,209.99	96.91	4,211.09	0.00	0.00	0.00	
11,500.00	90.20	0.66	7,170.00	4,309.99	98.07	4,311.09	0.00	0.00	0.00	
11,600.00	90.20	0.66	7,169.65	4,409.98	99.23	4,411.09	0.00	0.00	0.00	
11,700.00	90.20	0.66	7,169.30	4,509.97	100.38	4,511.08	0.00	0.00	0.00	
11,800.00	90.20	0.66	7,168.95	4,609.96	101.54	4,611.08	0.00	0.00	0.00	
11,900.00	90.20	0.66	7,168.59	4,709.96	102.70	4,711.07	0.00	0.00	0.00	
12,000.00	90.20	0.66	7,168.24	4,809.95	103.86	4,811.07	0.00	0.00	0.00	
12,100.00	90.20	0.66	7,167.89	4,909.94	105.01	4,911.06	0.00	0.00	0.00	
12,200.00	90.20	0.66	7,167.54	5,009.94	106.17	5,011.06	0.00	0.00	0.00	
12,300.00	90.20	0.66	7,167.19	5,109.93	107.33	5,111.05	0.00	0.00	0.00	
12,400.00	90.20	0.66	7,166.84	5,209.92	108.49	5,211.05	0.00	0.00	0.00	
12,500.00	90.20	0.66	7,166.48	5,309.91	109.64	5,311.04	0.00	0.00	0.00	
12,600.00	90.20	0.66	7,166.13	5,409.91	110.80	5,411.04	0.00	0.00	0.00	
12,637.62	90.20	0.66	7,166.00	5,447.52	111.24	5,448.65	0.00	0.00	0.00	
Van Portfleit 35C-W3HZ BHL										

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Van Portfleit 35C-W3HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	rkb + gl @ 4879.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	rkb + gl @ 4879.00ft
Site:	Van Portfleit 35-10HZ pad	North Reference:	True
Well:	Van Portfleit 35C-W3HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Van Portfleit 35C-W3HZ		
Design:	Van Portfleit 35C-W3HZ (wp01)		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
Van Portfleit 35C-W3HZ	0.00	0.00	7,166.00	5,447.52	111.24	1,302,893.54	3,236,011.57	40.161753	-104.655548
- plan hits target center									
- Point									

Casing Points						
Measured Depth	Vertical Depth		Name	Casing Diameter	Hole Diameter	
(ft)	(ft)			(")	(")	
900.00	900.00	9 5/8"		9-5/8	12-1/4	
7,519.72	7,184.00	7"		7	8-3/4	

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
706.00	706.00	Fox Hills				
3,845.62	3,843.00	Parkman				
4,436.51	4,433.00	Sussex				
6,799.81	6,790.00	Sharon Springs				
6,872.03	6,857.00	Niobrara A				
6,897.78	6,880.00	Niobrara B				
7,014.77	6,977.00	Niobrara C				
7,219.34	7,108.00	Fort Hays				
7,269.43	7,131.00	Codell				