

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_DECHANT 35-36 HZ PAD

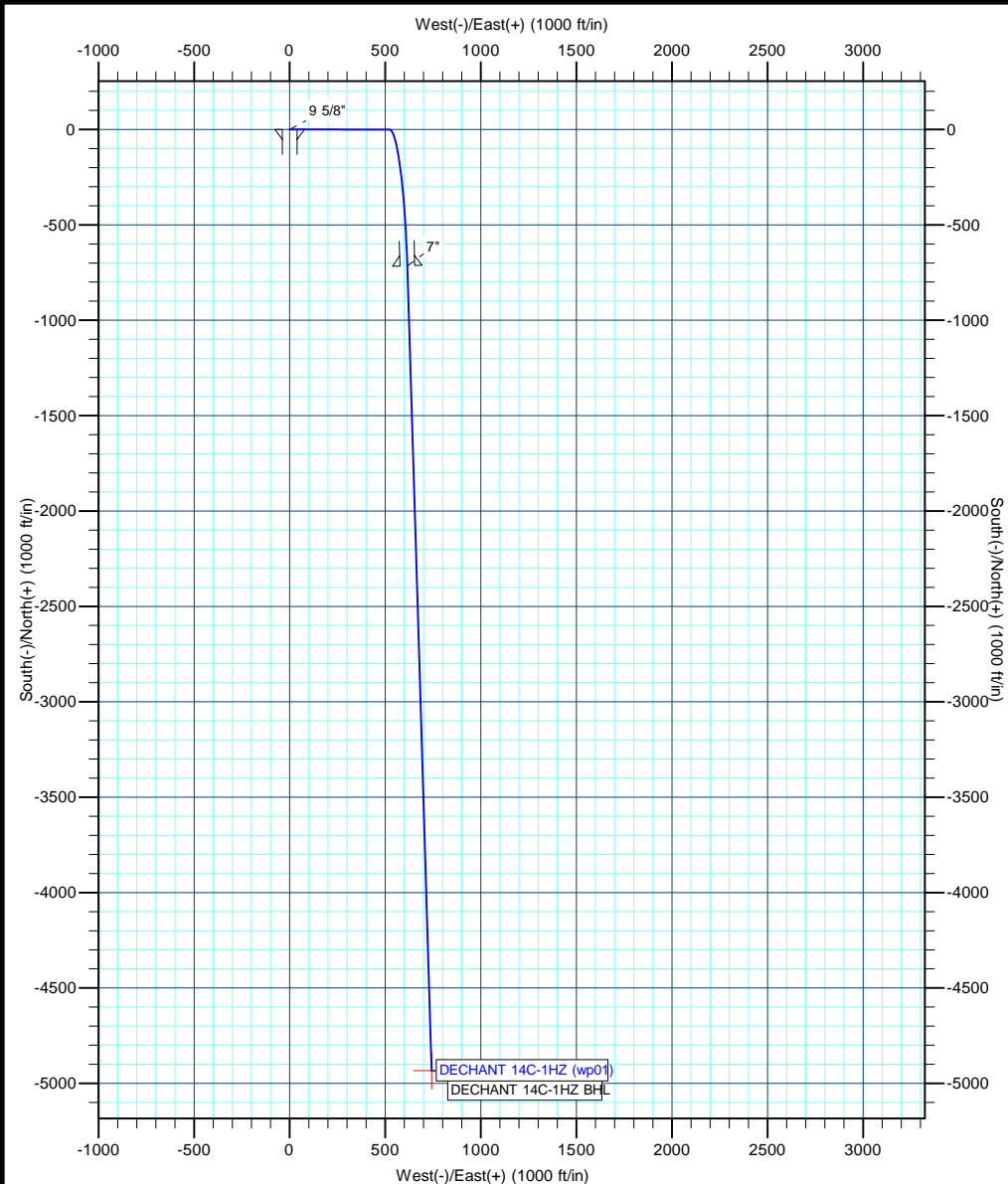
DECHANT 14C-1HZ

DECHANT 14C-1HZ

Plan: DECHANT 14C-1HZ (wp01)

Standard Planning Report

23 March, 2012



Azimuths to True North
 Magnetic North: 8.66°
 Magnetic Field
 Strength: 52947.9snT
 Dip Angle: 66.87°
 Date: 3/22/2012
 Model: IGRF2010



Project: COLORADO NORTHERN ZONE - 83
Site: WELD_DECHANT 35-36 HZ PAD
Well: DECHANT 14C-1HZ
Wellbore: DECHANT 14C-1HZ
Section:
SHL:
Design: DECHANT 14C-1HZ (wp01)
Latitude: 40.174997
Longitude: -104.616693
GL: 4829.00
KB: GL + RKB @ 4846.00ft

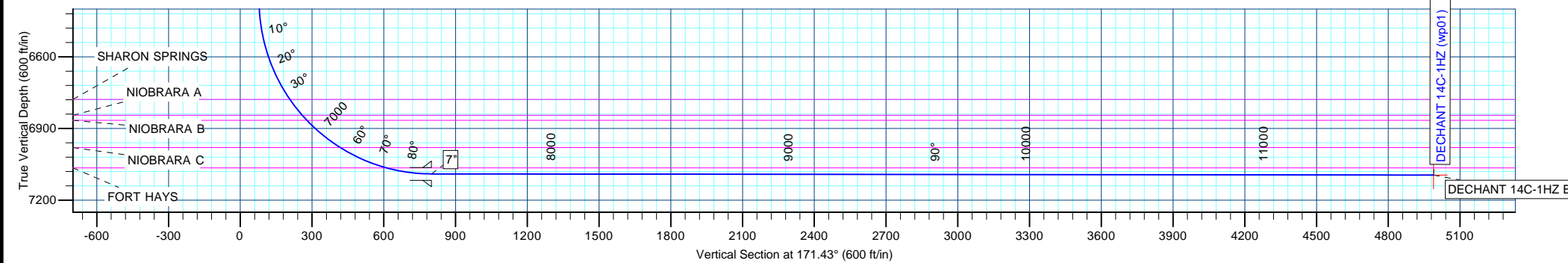
WELL DETAILS: DECHANT 14C-1HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	4829.00 Latitude	Longitude	Slot
0.00	0.00	1307823.62	3246822.55	40.174997	-104.616693	

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
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00
1285.34	5.71	90.14	1284.87	-0.03	14.20	2.00	90.14	2.15
6405.52	5.71	90.14	6379.67	-1.29	523.34	0.00	0.00	79.26
7528.19	90.00	178.26	7090.00	-715.00	616.00	8.00	88.13	798.81
7535.05	89.93	178.27	7090.00	-721.86	616.21	1.00	172.01	805.62
1748.55	89.93	178.27	7095.00	-4933.44	743.45	0.00	0.00	4989.14

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
DECHANT 14C-1HZ BHL	7095.00	-4933.44	743.45	40.161454	-104.614033	Point

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3887.00	3900.43	PARKMAN
4399.00	4414.98	SUSSEX
6778.00	6830.79	SHARON SPRINGS
6845.00	6915.83	NIOBRARA A
6866.00	6944.30	NIOBRARA B
6980.00	7124.95	NIOBRARA C
7065.00	7337.92	FORT HAYS

CASING DETAILS			
TVD	MD	Name	Size
550.00	550.00	9 5/8"	9-5/8
7090.00	7528.19	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well DECHANT 14C-1HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4846.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4846.00ft
Site:	WELD_DECHANT 35-36 HZ PAD	North Reference:	True
Well:	DECHANT 14C-1HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	DECHANT 14C-1HZ		
Design:	DECHANT 14C-1HZ (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_DECHANT 35-36 HZ PAD				
Site Position:		Northing:	1,307,822.38 usft	Latitude:	40.174996
From:	Lat/Long	Easting:	3,246,732.58 usft	Longitude:	-104.617015
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.57 °

Well	DECHANT 14C-1HZ					
Well Position	+N/-S	0.34 ft	Northing:	1,307,823.62 usft	Latitude:	40.174997
	+E/-W	89.98 ft	Easting:	3,246,822.55 usft	Longitude:	-104.616693
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,829.00 ft

Wellbore	DECHANT 14C-1HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/22/2012	8.66	66.87	52,948

Design	DECHANT 14C-1HZ (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	171.43

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	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,285.34	5.71	90.14	1,284.87	-0.03	14.20	2.00	2.00	0.00	90.14	
6,405.52	5.71	90.14	6,379.67	-1.29	523.34	0.00	0.00	0.00	0.00	
7,528.19	90.00	178.26	7,090.00	-715.00	616.00	8.00	7.51	7.85	88.13	
7,535.05	89.93	178.27	7,090.00	-721.86	616.21	1.00	-0.99	0.14	172.01	
11,748.56	89.93	178.27	7,095.00	-4,933.44	743.45	0.00	0.00	0.00	0.00	DECHANT 14C-1HZ I

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4846.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4846.00ft
Site:	WELD_DECHANT 35-36 HZ PAD	North Reference:	True
Well:	DECHANT 14C-1HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	DECHANT 14C-1HZ		
Design:	DECHANT 14C-1HZ (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	
550.00	0.00	0.00	550.00	0.00	0.00	0.00	0.00	0.00	0.00	
9 5/8"										
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	
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	
Start Build 2.00										
1,100.00	2.00	90.14	1,099.98	0.00	1.75	0.26	2.00	2.00	0.00	
1,200.00	4.00	90.14	1,199.84	-0.02	6.98	1.06	2.00	2.00	0.00	
1,285.34	5.71	90.14	1,284.87	-0.03	14.20	2.15	2.00	2.00	0.00	
Start 5120.18 hold at 1285.34 MD										
1,300.00	5.71	90.14	1,299.46	-0.04	15.66	2.37	0.00	0.00	0.00	
1,400.00	5.71	90.14	1,398.96	-0.06	25.60	3.88	0.00	0.00	0.00	
1,500.00	5.71	90.14	1,498.46	-0.09	35.54	5.38	0.00	0.00	0.00	
1,600.00	5.71	90.14	1,597.97	-0.11	45.49	6.89	0.00	0.00	0.00	
1,700.00	5.71	90.14	1,697.47	-0.14	55.43	8.40	0.00	0.00	0.00	
1,800.00	5.71	90.14	1,796.98	-0.16	65.38	9.90	0.00	0.00	0.00	
1,900.00	5.71	90.14	1,896.48	-0.19	75.32	11.41	0.00	0.00	0.00	
2,000.00	5.71	90.14	1,995.99	-0.21	85.26	12.91	0.00	0.00	0.00	
2,100.00	5.71	90.14	2,095.49	-0.23	95.21	14.42	0.00	0.00	0.00	
2,200.00	5.71	90.14	2,195.00	-0.26	105.15	15.92	0.00	0.00	0.00	
2,300.00	5.71	90.14	2,294.50	-0.28	115.09	17.43	0.00	0.00	0.00	
2,400.00	5.71	90.14	2,394.00	-0.31	125.04	18.94	0.00	0.00	0.00	
2,500.00	5.71	90.14	2,493.51	-0.33	134.98	20.44	0.00	0.00	0.00	
2,600.00	5.71	90.14	2,593.01	-0.36	144.93	21.95	0.00	0.00	0.00	
2,700.00	5.71	90.14	2,692.52	-0.38	154.87	23.45	0.00	0.00	0.00	
2,800.00	5.71	90.14	2,792.02	-0.41	164.81	24.96	0.00	0.00	0.00	
2,900.00	5.71	90.14	2,891.53	-0.43	174.76	26.47	0.00	0.00	0.00	
3,000.00	5.71	90.14	2,991.03	-0.46	184.70	27.97	0.00	0.00	0.00	
3,100.00	5.71	90.14	3,090.53	-0.48	194.64	29.48	0.00	0.00	0.00	
3,200.00	5.71	90.14	3,190.04	-0.50	204.59	30.98	0.00	0.00	0.00	
3,300.00	5.71	90.14	3,289.54	-0.53	214.53	32.49	0.00	0.00	0.00	
3,400.00	5.71	90.14	3,389.05	-0.55	224.48	34.00	0.00	0.00	0.00	
3,500.00	5.71	90.14	3,488.55	-0.58	234.42	35.50	0.00	0.00	0.00	
3,600.00	5.71	90.14	3,588.06	-0.60	244.36	37.01	0.00	0.00	0.00	
3,700.00	5.71	90.14	3,687.56	-0.63	254.31	38.51	0.00	0.00	0.00	
3,800.00	5.71	90.14	3,787.07	-0.65	264.25	40.02	0.00	0.00	0.00	
3,900.00	5.71	90.14	3,886.57	-0.68	274.19	41.53	0.00	0.00	0.00	
3,900.43	5.71	90.14	3,887.00	-0.68	274.24	41.53	0.00	0.00	0.00	
PARKMAN										
4,000.00	5.71	90.14	3,986.07	-0.70	284.14	43.03	0.00	0.00	0.00	
4,100.00	5.71	90.14	4,085.58	-0.72	294.08	44.54	0.00	0.00	0.00	
4,200.00	5.71	90.14	4,185.08	-0.75	304.03	46.04	0.00	0.00	0.00	
4,300.00	5.71	90.14	4,284.59	-0.77	313.97	47.55	0.00	0.00	0.00	
4,400.00	5.71	90.14	4,384.09	-0.80	323.91	49.06	0.00	0.00	0.00	
4,414.98	5.71	90.14	4,399.00	-0.80	325.40	49.28	0.00	0.00	0.00	
SUSSEX										

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Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4846.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4846.00ft
Site:	WELD_DECHANT 35-36 HZ PAD	North Reference:	True
Well:	DECHANT 14C-1HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	DECHANT 14C-1HZ		
Design:	DECHANT 14C-1HZ (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)
4,500.00	5.71	90.14	4,483.60	-0.82	333.86	50.56	0.00	0.00	0.00
4,600.00	5.71	90.14	4,583.10	-0.85	343.80	52.07	0.00	0.00	0.00
4,700.00	5.71	90.14	4,682.60	-0.87	353.75	53.57	0.00	0.00	0.00
4,800.00	5.71	90.14	4,782.11	-0.90	363.69	55.08	0.00	0.00	0.00
4,900.00	5.71	90.14	4,881.61	-0.92	373.63	56.59	0.00	0.00	0.00
5,000.00	5.71	90.14	4,981.12	-0.95	383.58	58.09	0.00	0.00	0.00
5,100.00	5.71	90.14	5,080.62	-0.97	393.52	59.60	0.00	0.00	0.00
5,200.00	5.71	90.14	5,180.13	-0.99	403.46	61.10	0.00	0.00	0.00
5,300.00	5.71	90.14	5,279.63	-1.02	413.41	62.61	0.00	0.00	0.00
5,400.00	5.71	90.14	5,379.14	-1.04	423.35	64.12	0.00	0.00	0.00
5,500.00	5.71	90.14	5,478.64	-1.07	433.30	65.62	0.00	0.00	0.00
5,600.00	5.71	90.14	5,578.14	-1.09	443.24	67.13	0.00	0.00	0.00
5,700.00	5.71	90.14	5,677.65	-1.12	453.18	68.63	0.00	0.00	0.00
5,800.00	5.71	90.14	5,777.15	-1.14	463.13	70.14	0.00	0.00	0.00
5,900.00	5.71	90.14	5,876.66	-1.17	473.07	71.65	0.00	0.00	0.00
6,000.00	5.71	90.14	5,976.16	-1.19	483.01	73.15	0.00	0.00	0.00
6,100.00	5.71	90.14	6,075.67	-1.21	492.96	74.66	0.00	0.00	0.00
6,200.00	5.71	90.14	6,175.17	-1.24	502.90	76.16	0.00	0.00	0.00
6,300.00	5.71	90.14	6,274.67	-1.26	512.85	77.67	0.00	0.00	0.00
6,400.00	5.71	90.14	6,374.18	-1.29	522.79	79.18	0.00	0.00	0.00
6,405.52	5.71	90.14	6,379.67	-1.29	523.34	79.26	0.00	0.00	0.00
Start DLS 8.00 TFO 88.13									
6,500.00	9.61	142.10	6,473.39	-7.53	532.89	86.86	8.00	4.13	55.00
6,600.00	16.72	158.84	6,570.73	-27.57	543.23	108.21	8.00	7.11	16.74
6,700.00	24.38	165.53	6,664.31	-61.02	553.60	142.84	8.00	7.66	6.69
6,800.00	32.20	169.13	6,752.30	-107.25	563.79	190.07	8.00	7.82	3.60
6,830.79	34.62	169.94	6,778.00	-123.92	566.87	207.01	8.00	7.87	2.63
SHARON SPRINGS									
6,900.00	40.09	171.44	6,833.00	-165.35	573.62	248.98	8.00	7.89	2.17
6,915.83	41.34	171.74	6,845.00	-175.57	575.13	259.31	8.00	7.91	1.87
NIORARA A									
6,944.30	43.59	172.24	6,866.00	-194.60	577.81	278.53	8.00	7.91	1.75
NIORARA B									
7,000.00	48.00	173.10	6,904.83	-234.19	582.89	318.43	8.00	7.92	1.55
7,100.00	55.94	174.39	6,966.38	-312.43	591.42	397.07	8.00	7.94	1.29
7,124.95	57.92	174.67	6,980.00	-333.24	593.41	417.95	8.00	7.94	1.13
NIORARA C									
7,200.00	63.88	175.45	7,016.48	-398.55	599.04	483.36	8.00	7.95	1.04
7,300.00	71.84	176.38	7,054.13	-490.87	605.61	575.63	8.00	7.95	0.93
7,337.92	74.86	176.71	7,065.00	-527.13	607.79	611.81	8.00	7.96	0.87
FORT HAYS									
7,400.00	79.80	177.23	7,078.62	-587.59	610.99	672.08	8.00	7.96	0.84
7,500.00	87.76	178.04	7,089.45	-686.84	615.09	770.82	8.00	7.96	0.81
7,528.19	90.00	178.26	7,090.00	-715.00	616.00	798.81	8.00	7.96	0.80
Start DLS 1.00 TFO 172.01 - 7"									
7,535.05	89.93	178.27	7,090.00	-721.86	616.21	805.62	1.00	-0.99	0.14
Start 4213.51 hold at 7535.05 MD									
7,600.00	89.93	178.27	7,090.08	-786.78	618.17	870.11	0.00	0.00	0.00
7,700.00	89.93	178.27	7,090.20	-886.74	621.19	969.40	0.00	0.00	0.00
7,800.00	89.93	178.27	7,090.32	-986.69	624.21	1,068.69	0.00	0.00	0.00
7,900.00	89.93	178.27	7,090.44	-1,086.64	627.23	1,167.98	0.00	0.00	0.00
8,000.00	89.93	178.27	7,090.56	-1,186.60	630.25	1,267.27	0.00	0.00	0.00
8,100.00	89.93	178.27	7,090.67	-1,286.55	633.27	1,366.55	0.00	0.00	0.00

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Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4846.00ft
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Well:	DECHANT 14C-1HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	DECHANT 14C-1HZ		
Design:	DECHANT 14C-1HZ (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)	
8,200.00	89.93	178.27	7,090.79	-1,386.51	636.29	1,465.84	0.00	0.00	0.00	
8,300.00	89.93	178.27	7,090.91	-1,486.46	639.31	1,565.13	0.00	0.00	0.00	
8,400.00	89.93	178.27	7,091.03	-1,586.42	642.33	1,664.42	0.00	0.00	0.00	
8,500.00	89.93	178.27	7,091.15	-1,686.37	645.35	1,763.71	0.00	0.00	0.00	
8,600.00	89.93	178.27	7,091.27	-1,786.32	648.37	1,863.00	0.00	0.00	0.00	
8,700.00	89.93	178.27	7,091.39	-1,886.28	651.39	1,962.28	0.00	0.00	0.00	
8,800.00	89.93	178.27	7,091.50	-1,986.23	654.41	2,061.57	0.00	0.00	0.00	
8,900.00	89.93	178.27	7,091.62	-2,086.19	657.43	2,160.86	0.00	0.00	0.00	
9,000.00	89.93	178.27	7,091.74	-2,186.14	660.45	2,260.15	0.00	0.00	0.00	
9,100.00	89.93	178.27	7,091.86	-2,286.10	663.47	2,359.44	0.00	0.00	0.00	
9,200.00	89.93	178.27	7,091.98	-2,386.05	666.49	2,458.73	0.00	0.00	0.00	
9,300.00	89.93	178.27	7,092.10	-2,486.00	669.51	2,558.01	0.00	0.00	0.00	
9,400.00	89.93	178.27	7,092.22	-2,585.96	672.52	2,657.30	0.00	0.00	0.00	
9,500.00	89.93	178.27	7,092.33	-2,685.91	675.54	2,756.59	0.00	0.00	0.00	
9,600.00	89.93	178.27	7,092.45	-2,785.87	678.56	2,855.88	0.00	0.00	0.00	
9,700.00	89.93	178.27	7,092.57	-2,885.82	681.58	2,955.17	0.00	0.00	0.00	
9,800.00	89.93	178.27	7,092.69	-2,985.78	684.60	3,054.46	0.00	0.00	0.00	
9,900.00	89.93	178.27	7,092.81	-3,085.73	687.62	3,153.74	0.00	0.00	0.00	
10,000.00	89.93	178.27	7,092.93	-3,185.68	690.64	3,253.03	0.00	0.00	0.00	
10,100.00	89.93	178.27	7,093.05	-3,285.64	693.66	3,352.32	0.00	0.00	0.00	
10,200.00	89.93	178.27	7,093.16	-3,385.59	696.68	3,451.61	0.00	0.00	0.00	
10,300.00	89.93	178.27	7,093.28	-3,485.55	699.70	3,550.90	0.00	0.00	0.00	
10,400.00	89.93	178.27	7,093.40	-3,585.50	702.72	3,650.19	0.00	0.00	0.00	
10,500.00	89.93	178.27	7,093.52	-3,685.46	705.74	3,749.47	0.00	0.00	0.00	
10,600.00	89.93	178.27	7,093.64	-3,785.41	708.76	3,848.76	0.00	0.00	0.00	
10,700.00	89.93	178.27	7,093.76	-3,885.36	711.78	3,948.05	0.00	0.00	0.00	
10,800.00	89.93	178.27	7,093.88	-3,985.32	714.80	4,047.34	0.00	0.00	0.00	
10,900.00	89.93	178.27	7,093.99	-4,085.27	717.82	4,146.63	0.00	0.00	0.00	
11,000.00	89.93	178.27	7,094.11	-4,185.23	720.84	4,245.92	0.00	0.00	0.00	
11,100.00	89.93	178.27	7,094.23	-4,285.18	723.86	4,345.20	0.00	0.00	0.00	
11,200.00	89.93	178.27	7,094.35	-4,385.14	726.88	4,444.49	0.00	0.00	0.00	
11,300.00	89.93	178.27	7,094.47	-4,485.09	729.90	4,543.78	0.00	0.00	0.00	
11,400.00	89.93	178.27	7,094.59	-4,585.05	732.92	4,643.07	0.00	0.00	0.00	
11,500.00	89.93	178.27	7,094.71	-4,685.00	735.94	4,742.36	0.00	0.00	0.00	
11,600.00	89.93	178.27	7,094.82	-4,784.95	738.96	4,841.65	0.00	0.00	0.00	
11,700.00	89.93	178.27	7,094.94	-4,884.91	741.98	4,940.93	0.00	0.00	0.00	
11,748.56	89.93	178.27	7,095.00	-4,933.44	743.45	4,989.14	0.00	0.00	0.00	
TD at 11748.55 - DECHANT 14C-1HZ BHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
DECHANT 14C-1HZ BH	0.00	0.00	7,095.00	-4,933.44	743.45	1,302,897.84	3,247,615.10	40.161454	-104.614033	
- hit/miss target										
- Shape										
- plan hits target center										
- Point										

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well DECHANT 14C-1HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4846.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4846.00ft
Site:	WELD_DECHANT 35-36 HZ PAD	North Reference:	True
Well:	DECHANT 14C-1HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	DECHANT 14C-1HZ		
Design:	DECHANT 14C-1HZ (wp01)		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
550.00	550.00	9 5/8"	9-5/8	12-1/4	
7,528.19	7,090.00	7"	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,900.43	3,887.00	PARKMAN		0.00	
4,414.98	4,399.00	SUSSEX		0.00	
6,830.79	6,778.00	SHARON SPRINGS		0.00	
6,915.83	6,845.00	NIOBRARA A		0.00	
6,944.30	6,866.00	NIOBRARA B		0.00	
7,124.95	6,980.00	NIOBRARA C		0.00	
7,337.92	7,065.00	FORT HAYS		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,000.00	1,000.00	0.00	0.00	Start Build 2.00	
1,285.34	1,284.87	-0.03	14.20	Start 5120.18 hold at 1285.34 MD	
6,405.52	6,379.67	-1.29	523.34	Start DLS 8.00 TFO 88.13	
7,528.19	7,090.00	-715.00	616.00	Start DLS 1.00 TFO 172.01	
7,535.05	7,090.00	-721.86	616.21	Start 4213.51 hold at 7535.05 MD	
11,748.56	7,095.00	-4,933.44	743.45	TD at 11748.55	