

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_CAMP 5 PAD

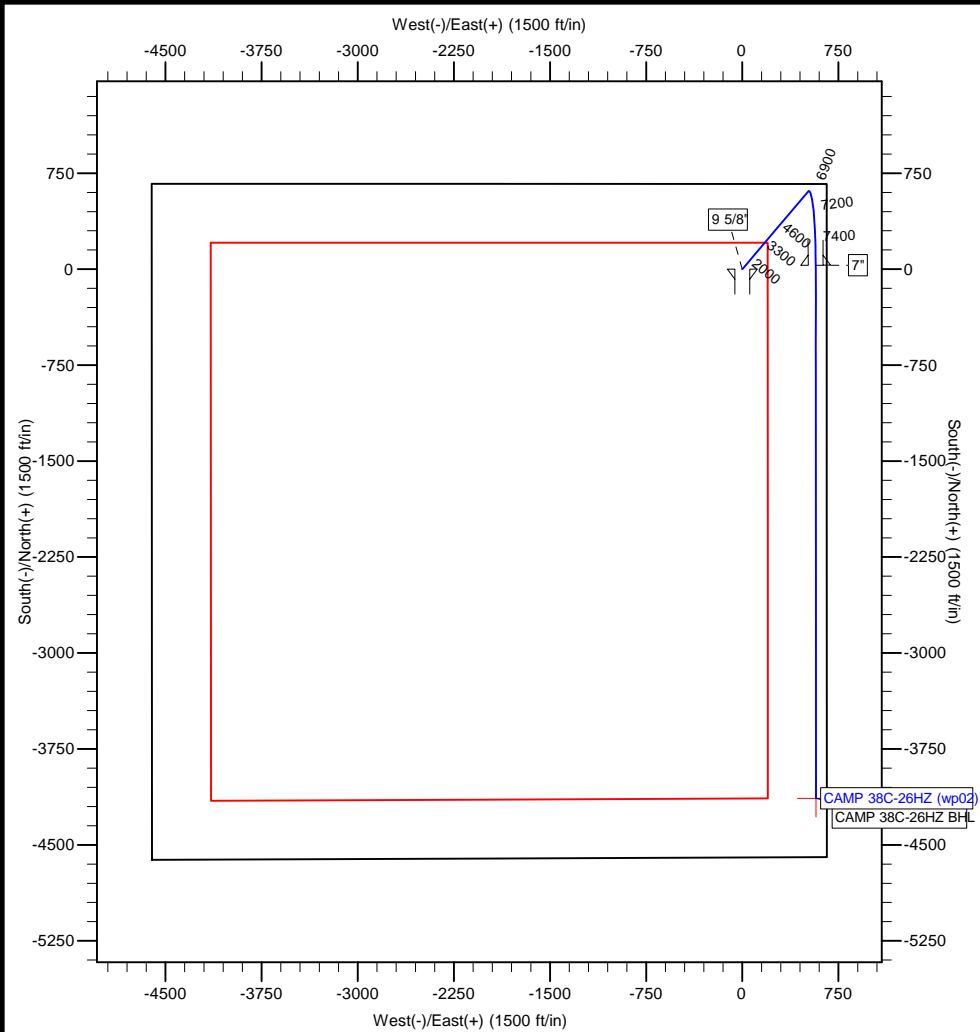
CAMP 38C-26HZ

CAMP 38C-26HZ

Plan: CAMP 38C-26HZ (wp02)

Standard Planning Report

09 December, 2011



Azimuths to True North
Magnetic North: 8.79°

Magnetic Field
Strength: 52995.6snT
Dip Angle: 66.88°
Date: 10/7/2011
Model: IGRF2010



Project: COLORADO NORTHERN ZONE - 83
Site: WELD_CAMP 5 PAD
Well: CAMP 38C-26HZ
Wellbore: CAMP 38C-26HZ
Section:
SHL:
Design: CAMP 38C-26HZ (wp02)
Latitude: 40.201630
Longitude: -104.737286
GL: 5014.00
KB: gl +rkb @ 5031.00ft

WELL DETAILS: CAMP 38C-26HZ

+N/-S	+E/-W	Northing	Ground Level: Easting	5014.00 Latitude	40.201630 Longitude	Slot
0.00	0.00	1317212.45	3213042.68			

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
1403.16	8.06	40.24	1401.83	21.62	18.29	2.00	40.24	-18.90
6874.91	8.06	40.24	6819.49	607.52	514.06	0.00	0.00	-531.03
7844.24	90.79	179.97	7451.00	30.00	573.00	10.00	139.38	49.10
7847.77	90.83	179.98	7450.95	26.47	573.00	1.00	17.96	52.60
12010.73	90.83	179.98	7391.00	-4136.06	574.39	0.00	0.00	4175.75

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

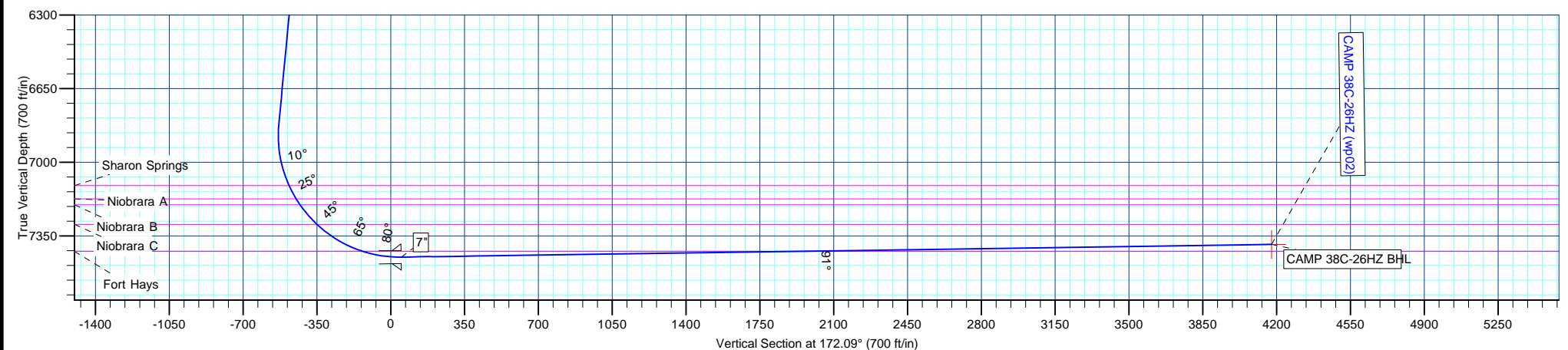
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
CAMP 38C-26HZ BHL	7391.00	-4136.06	574.39	40.190276	-104.735230	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4074.00	4102.01	Parkman
4659.00	4692.85	Sussex
5031.00	5068.57	Codell
7111.00	7174.57	Sharon Springs
7174.00	7245.87	Niobrara A
7202.00	7279.27	Niobrara B
7296.00	7403.68	Niobrara C
7424.00	7659.14	Fort Hays

CASING DETAILS

TVD	MD	Name	Size
900.00	900.00	9 5/8"	9-5/8
7451.00	7844.24	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well CAMP 38C-26HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl +rkb @ 5031.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl +rkb @ 5031.00ft
Site:	WELD_CAMP 5 PAD	North Reference:	True
Well:	CAMP 38C-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 38C-26HZ		
Design:	CAMP 38C-26HZ (wp02)		

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_CAMP 5 PAD			
Site Position:		Northing:	1,317,276.21 usft	Latitude:	40.201805
From:	Lat/Long	Easting:	3,213,042.14 usft	Longitude:	-104.737286
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	CAMP 38C-26HZ					
Well Position	+N/-S	-63.76 ft	Northing:	1,317,212.45 usft	Latitude:	40.201630
	+E/-W	0.00 ft	Easting:	3,213,042.68 usft	Longitude:	-104.737286
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,014.00 ft

Wellbore	CAMP 38C-26HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/7/2011	8.79	66.88	52,996

Design	CAMP 38C-26HZ (wp02)			
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	172.09

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	
1,403.16	8.06	40.24	1,401.83	21.62	18.29	2.00	2.00	0.00	40.24	
6,874.91	8.06	40.24	6,819.49	607.52	514.06	0.00	0.00	0.00	0.00	
7,844.24	90.79	179.97	7,451.00	30.00	573.00	10.00	8.53	14.42	139.38	
7,847.77	90.83	179.98	7,450.95	26.47	573.00	1.00	0.95	0.31	17.96	
12,010.73	90.83	179.98	7,391.00	-4,136.06	574.39	0.00	0.00	0.00	0.00	CAMP 38C-26HZ BHI

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well CAMP 38C-26HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl +rkb @ 5031.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl +rkb @ 5031.00ft
Site:	WELD_CAMP 5 PAD	North Reference:	True
Well:	CAMP 38C-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 38C-26HZ		
Design:	CAMP 38C-26HZ (wp02)		

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
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
Start Build 2.00									
1,100.00	2.00	40.24	1,099.98	1.33	1.13	-1.16	2.00	2.00	0.00
1,200.00	4.00	40.24	1,199.84	5.33	4.51	-4.66	2.00	2.00	0.00
1,300.00	6.00	40.24	1,299.45	11.98	10.14	-10.47	2.00	2.00	0.00
1,376.27	7.53	40.24	1,375.19	18.84	15.94	-16.47	2.00	2.00	0.00
Start 5498.74 hold at 1376.27 MD									
1,400.00	8.00	40.24	1,398.70	21.28	18.01	-18.60	2.00	2.00	0.00
1,403.16	8.06	40.24	1,401.83	21.62	18.29	-18.90	2.00	2.00	0.00
1,500.00	8.06	40.24	1,497.71	31.99	27.07	-27.96	0.00	0.00	0.00
1,600.00	8.06	40.24	1,596.72	42.70	36.13	-37.32	0.00	0.00	0.00
1,700.00	8.06	40.24	1,695.74	53.40	45.19	-46.68	0.00	0.00	0.00
1,800.00	8.06	40.24	1,794.75	64.11	54.25	-56.04	0.00	0.00	0.00
1,900.00	8.06	40.24	1,893.76	74.82	63.31	-65.40	0.00	0.00	0.00
2,000.00	8.06	40.24	1,992.77	85.53	72.37	-74.76	0.00	0.00	0.00
2,100.00	8.06	40.24	2,091.78	96.24	81.43	-84.12	0.00	0.00	0.00
2,200.00	8.06	40.24	2,190.79	106.94	90.49	-93.48	0.00	0.00	0.00
2,300.00	8.06	40.24	2,289.80	117.65	99.55	-102.84	0.00	0.00	0.00
2,400.00	8.06	40.24	2,388.82	128.36	108.61	-112.20	0.00	0.00	0.00
2,500.00	8.06	40.24	2,487.83	139.07	117.67	-121.56	0.00	0.00	0.00
2,600.00	8.06	40.24	2,586.84	149.77	126.73	-130.92	0.00	0.00	0.00
2,700.00	8.06	40.24	2,685.85	160.48	135.79	-140.28	0.00	0.00	0.00
2,800.00	8.06	40.24	2,784.86	171.19	144.85	-149.64	0.00	0.00	0.00
2,900.00	8.06	40.24	2,883.87	181.90	153.91	-159.00	0.00	0.00	0.00
3,000.00	8.06	40.24	2,982.88	192.60	162.97	-168.36	0.00	0.00	0.00
3,100.00	8.06	40.24	3,081.90	203.31	172.03	-177.72	0.00	0.00	0.00
3,200.00	8.06	40.24	3,180.91	214.02	181.09	-187.08	0.00	0.00	0.00
3,300.00	8.06	40.24	3,279.92	224.73	190.15	-196.44	0.00	0.00	0.00
3,400.00	8.06	40.24	3,378.93	235.44	199.22	-205.79	0.00	0.00	0.00
3,500.00	8.06	40.24	3,477.94	246.14	208.28	-215.15	0.00	0.00	0.00
3,600.00	8.06	40.24	3,576.95	256.85	217.34	-224.51	0.00	0.00	0.00
3,700.00	8.06	40.24	3,675.96	267.56	226.40	-233.87	0.00	0.00	0.00
3,800.00	8.06	40.24	3,774.98	278.27	235.46	-243.23	0.00	0.00	0.00
3,900.00	8.06	40.24	3,873.99	288.97	244.52	-252.59	0.00	0.00	0.00
4,000.00	8.06	40.24	3,973.00	299.68	253.58	-261.95	0.00	0.00	0.00
4,100.00	8.06	40.24	4,072.01	310.39	262.64	-271.31	0.00	0.00	0.00
4,102.01	8.06	40.24	4,074.00	310.60	262.82	-271.50	0.00	0.00	0.00
Parkman									
4,200.00	8.06	40.24	4,171.02	321.10	271.70	-280.67	0.00	0.00	0.00
4,300.00	8.06	40.24	4,270.03	331.80	280.76	-290.03	0.00	0.00	0.00
4,400.00	8.06	40.24	4,369.04	342.51	289.82	-299.39	0.00	0.00	0.00
4,500.00	8.06	40.24	4,468.05	353.22	298.88	-308.75	0.00	0.00	0.00
4,600.00	8.06	40.24	4,567.07	363.93	307.94	-318.11	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well CAMP 38C-26HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl +rkb @ 5031.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl +rkb @ 5031.00ft
Site:	WELD_CAMP 5 PAD	North Reference:	True
Well:	CAMP 38C-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 38C-26HZ		
Design:	CAMP 38C-26HZ (wp02)		

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)
4,692.85	8.06	40.24	4,659.00	373.87	316.35	-326.80	0.00	0.00	0.00
Sussex									
4,700.00	8.06	40.24	4,666.08	374.64	317.00	-327.47	0.00	0.00	0.00
4,800.00	8.06	40.24	4,765.09	385.34	326.06	-336.83	0.00	0.00	0.00
4,900.00	8.06	40.24	4,864.10	396.05	335.12	-346.19	0.00	0.00	0.00
5,000.00	8.06	40.24	4,963.11	406.76	344.18	-355.55	0.00	0.00	0.00
5,068.57	8.06	40.24	5,031.00	414.10	350.39	-361.97	0.00	0.00	0.00
Codell									
5,100.00	8.06	40.24	5,062.12	417.47	353.24	-364.91	0.00	0.00	0.00
5,200.00	8.06	40.24	5,161.13	428.17	362.30	-374.27	0.00	0.00	0.00
5,300.00	8.06	40.24	5,260.15	438.88	371.36	-383.63	0.00	0.00	0.00
5,400.00	8.06	40.24	5,359.16	449.59	380.42	-392.99	0.00	0.00	0.00
5,500.00	8.06	40.24	5,458.17	460.30	389.48	-402.35	0.00	0.00	0.00
5,600.00	8.06	40.24	5,557.18	471.00	398.54	-411.71	0.00	0.00	0.00
5,700.00	8.06	40.24	5,656.19	481.71	407.60	-421.07	0.00	0.00	0.00
5,800.00	8.06	40.24	5,755.20	492.42	416.66	-430.43	0.00	0.00	0.00
5,900.00	8.06	40.24	5,854.21	503.13	425.72	-439.79	0.00	0.00	0.00
6,000.00	8.06	40.24	5,953.23	513.84	434.78	-449.15	0.00	0.00	0.00
6,100.00	8.06	40.24	6,052.24	524.54	443.85	-458.50	0.00	0.00	0.00
6,200.00	8.06	40.24	6,151.25	535.25	452.91	-467.86	0.00	0.00	0.00
6,300.00	8.06	40.24	6,250.26	545.96	461.97	-477.22	0.00	0.00	0.00
6,400.00	8.06	40.24	6,349.27	556.67	471.03	-486.58	0.00	0.00	0.00
6,500.00	8.06	40.24	6,448.28	567.37	480.09	-495.94	0.00	0.00	0.00
6,600.00	8.06	40.24	6,547.29	578.08	489.15	-505.30	0.00	0.00	0.00
6,700.00	8.06	40.24	6,646.31	588.79	498.21	-514.66	0.00	0.00	0.00
6,800.00	8.06	40.24	6,745.32	599.50	507.27	-524.02	0.00	0.00	0.00
6,874.91	8.06	40.24	6,819.49	607.52	514.06	-531.03	0.00	0.00	0.00
6,875.01	8.06	40.24	6,819.59	607.53	514.06	-531.04	0.00	0.00	0.00
Start DLS 10.00 TFO 135.92									
6,900.00	6.37	55.12	6,844.38	609.66	516.33	-532.84	10.04	-6.77	59.56
7,000.00	8.24	140.62	6,943.81	607.28	525.46	-529.23	10.00	1.87	85.50
7,100.00	17.17	162.63	7,041.31	587.61	534.43	-508.51	10.00	8.93	22.01
7,174.57	24.37	168.22	7,111.00	562.01	540.87	-482.27	10.00	9.65	7.49
Sharon Springs									
7,200.00	26.85	169.46	7,133.93	551.23	542.99	-471.30	10.00	9.77	4.90
7,245.87	31.36	171.24	7,174.00	529.24	546.70	-449.00	10.00	9.82	3.88
Niobrara A									
7,279.27	34.65	172.27	7,202.00	511.24	549.30	-430.82	10.00	9.86	3.09
Niobrara B									
7,300.00	36.70	172.83	7,218.84	499.25	550.87	-418.73	10.00	9.88	2.69
7,400.00	46.60	174.92	7,293.48	433.25	557.83	-352.40	10.00	9.90	2.09
7,403.68	46.96	174.99	7,296.00	430.58	558.07	-349.72	10.00	9.92	1.72
Niobrara C									
7,500.00	56.53	176.42	7,355.57	355.24	563.67	-274.33	10.00	9.93	1.49
7,600.00	66.48	177.61	7,403.22	267.59	568.19	-186.89	10.00	9.95	1.19
7,659.14	72.36	178.23	7,424.00	212.28	570.20	-131.83	10.00	9.95	1.04
Fort Hays									
7,700.00	76.43	178.63	7,434.99	172.95	571.28	-92.73	10.00	9.95	0.98
7,800.00	86.39	179.57	7,449.91	74.21	572.82	5.29	10.00	9.96	0.94
7,837.18	90.09	179.91	7,451.05	37.06	572.99	42.11	10.00	9.96	0.91
Start DLS 1.00 TFO 17.32									
7,840.83	90.45	179.94	7,451.04	33.41	573.00	45.72	10.00	9.96	0.91

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well CAMP 38C-26HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl +rkb @ 5031.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl +rkb @ 5031.00ft
Site:	WELD_CAMP 5 PAD	North Reference:	True
Well:	CAMP 38C-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 38C-26HZ		
Design:	CAMP 38C-26HZ (wp02)		

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)
Start 4156.60 hold at 7840.83 MD									
7,844.24	90.79	179.97	7,451.00	30.00	573.00	49.11	9.99	9.95	0.91
7"									
7,847.77	90.83	179.98	7,450.95	26.47	573.00	52.60	1.00	0.95	0.31
7,900.00	90.83	179.98	7,450.20	-25.76	573.02	104.33	0.00	0.00	0.00
8,000.00	90.83	179.98	7,448.76	-125.75	573.05	203.38	0.00	0.00	0.00
8,100.00	90.83	179.98	7,447.32	-225.74	573.09	302.42	0.00	0.00	0.00
8,200.00	90.83	179.98	7,445.88	-325.73	573.12	401.46	0.00	0.00	0.00
8,300.00	90.83	179.98	7,444.44	-425.72	573.15	500.51	0.00	0.00	0.00
8,400.00	90.83	179.98	7,443.00	-525.70	573.19	599.55	0.00	0.00	0.00
8,500.00	90.83	179.98	7,441.56	-625.69	573.22	698.60	0.00	0.00	0.00
8,600.00	90.83	179.98	7,440.12	-725.68	573.25	797.64	0.00	0.00	0.00
8,700.00	90.83	179.98	7,438.68	-825.67	573.29	896.68	0.00	0.00	0.00
8,800.00	90.83	179.98	7,437.24	-925.66	573.32	995.73	0.00	0.00	0.00
8,900.00	90.83	179.98	7,435.80	-1,025.65	573.35	1,094.77	0.00	0.00	0.00
9,000.00	90.83	179.98	7,434.36	-1,125.64	573.39	1,193.81	0.00	0.00	0.00
9,100.00	90.83	179.98	7,432.92	-1,225.63	573.42	1,292.86	0.00	0.00	0.00
9,200.00	90.83	179.98	7,431.48	-1,325.62	573.45	1,391.90	0.00	0.00	0.00
9,300.00	90.83	179.98	7,430.04	-1,425.61	573.49	1,490.95	0.00	0.00	0.00
9,400.00	90.83	179.98	7,428.60	-1,525.60	573.52	1,589.99	0.00	0.00	0.00
9,500.00	90.83	179.98	7,427.16	-1,625.59	573.55	1,689.03	0.00	0.00	0.00
9,600.00	90.83	179.98	7,425.72	-1,725.58	573.59	1,788.08	0.00	0.00	0.00
9,700.00	90.83	179.98	7,424.28	-1,825.57	573.62	1,887.12	0.00	0.00	0.00
9,800.00	90.83	179.98	7,422.84	-1,925.56	573.65	1,986.16	0.00	0.00	0.00
9,900.00	90.83	179.98	7,421.40	-2,025.55	573.69	2,085.21	0.00	0.00	0.00
10,000.00	90.83	179.98	7,419.96	-2,125.54	573.72	2,184.25	0.00	0.00	0.00
10,100.00	90.83	179.98	7,418.52	-2,225.53	573.75	2,283.30	0.00	0.00	0.00
10,200.00	90.83	179.98	7,417.08	-2,325.52	573.79	2,382.34	0.00	0.00	0.00
10,300.00	90.83	179.98	7,415.64	-2,425.51	573.82	2,481.38	0.00	0.00	0.00
10,400.00	90.83	179.98	7,414.20	-2,525.50	573.85	2,580.43	0.00	0.00	0.00
10,500.00	90.83	179.98	7,412.76	-2,625.49	573.89	2,679.47	0.00	0.00	0.00
10,600.00	90.83	179.98	7,411.32	-2,725.48	573.92	2,778.51	0.00	0.00	0.00
10,700.00	90.83	179.98	7,409.88	-2,825.47	573.95	2,877.56	0.00	0.00	0.00
10,800.00	90.83	179.98	7,408.44	-2,925.46	573.99	2,976.60	0.00	0.00	0.00
10,900.00	90.83	179.98	7,407.00	-3,025.45	574.02	3,075.65	0.00	0.00	0.00
11,000.00	90.83	179.98	7,405.56	-3,125.44	574.05	3,174.69	0.00	0.00	0.00
11,100.00	90.83	179.98	7,404.12	-3,225.42	574.09	3,273.73	0.00	0.00	0.00
11,200.00	90.83	179.98	7,402.68	-3,325.41	574.12	3,372.78	0.00	0.00	0.00
11,300.00	90.83	179.98	7,401.24	-3,425.40	574.15	3,471.82	0.00	0.00	0.00
11,400.00	90.83	179.98	7,399.80	-3,525.39	574.19	3,570.86	0.00	0.00	0.00
11,500.00	90.83	179.98	7,398.36	-3,625.38	574.22	3,669.91	0.00	0.00	0.00
11,600.00	90.83	179.98	7,396.91	-3,725.37	574.25	3,768.95	0.00	0.00	0.00
11,700.00	90.83	179.98	7,395.47	-3,825.36	574.29	3,868.00	0.00	0.00	0.00
11,800.00	90.83	179.98	7,394.03	-3,925.35	574.32	3,967.04	0.00	0.00	0.00
11,900.00	90.83	179.98	7,392.59	-4,025.34	574.35	4,066.08	0.00	0.00	0.00
11,997.42	90.83	179.98	7,391.19	-4,122.75	574.39	4,162.57	0.00	0.00	0.00
TD at 11997.42									
12,000.00	90.83	179.98	7,391.15	-4,125.33	574.39	4,165.13	0.00	0.00	0.00
12,010.73	90.83	179.98	7,391.00	-4,136.06	574.39	4,175.75	0.00	0.00	0.00
CAMP 38C-26HZ BHL									

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well CAMP 38C-26HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl +rkb @ 5031.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl +rkb @ 5031.00ft
Site:	WELD_CAMP 5 PAD	North Reference:	True
Well:	CAMP 38C-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 38C-26HZ		
Design:	CAMP 38C-26HZ (wp02)		

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									
CAMP 38C-26HZ BHL	0.00	0.00	7,391.00	-4,136.06	574.39	1,313,081.50	3,213,652.63	40.190276	-104.735230
- 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
7,844.24	7,451.00	7"		7	8-3/4

Formations						
Measured Depth	Vertical Depth	Name		Lithology	Dip	Dip Direction
(ft)	(ft)				(°)	(°)
4,102.01	4,074.00	Parkman				
4,692.85	4,659.00	Sussex				
5,068.57	5,031.00	Codell				
7,174.57	7,111.00	Sharon Springs				
7,245.87	7,174.00	Niobrara A				
7,279.27	7,202.00	Niobrara B				
7,403.68	7,296.00	Niobrara C				
7,659.14	7,424.00	Fort Hays				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S	+E/-W		
(ft)	(ft)	(ft)	(ft)		
1,000.00	1,000.00	0.00	0.00	Start Build 2.00	
1,376.27	1,375.19	18.84	15.94	Start 5498.74 hold at 1376.27 MD	
6,875.01	6,819.59	607.53	514.06	Start DLS 10.00 TFO 135.92	
7,837.18	7,451.05	37.06	572.99	Start DLS 1.00 TFO 17.32	
7,840.83	7,451.04	33.41	573.00	Start 4156.60 hold at 7840.83 MD	
11,997.42	7,391.19	-4,122.75	574.39	TD at 11997.42	