

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_CAMP 5 PAD

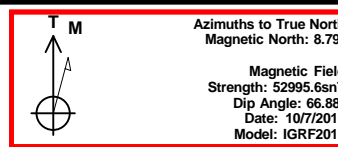
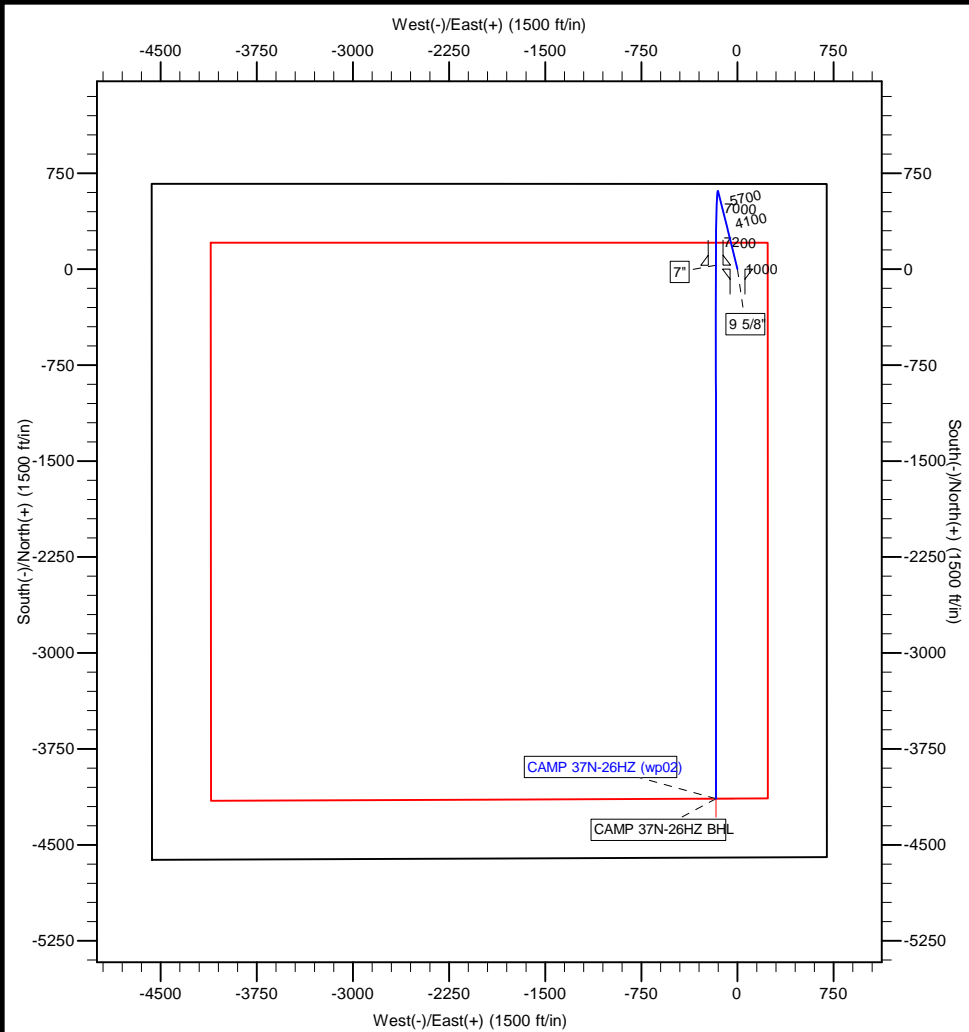
CAMP 37N-26HZ

CAMP 37N-26HZ

Plan: CAMP 37N-26HZ (wp02)

Standard Planning Report

06 December, 2011



Project: COLORADO NORTHERN ZONE - 83
 Site: WELD_CAMP 5 PAD
 Well: CAMP 37N-26HZ
 Wellbore: CAMP 37N-26HZ
 Section:
 SHL:
 Design: CAMP 37N-26HZ (wp02)
 Latitude: 40.201630
 Longitude: -104.737420
 GL: 5014.00
 KB: RKB + GL @ 5031.00ft

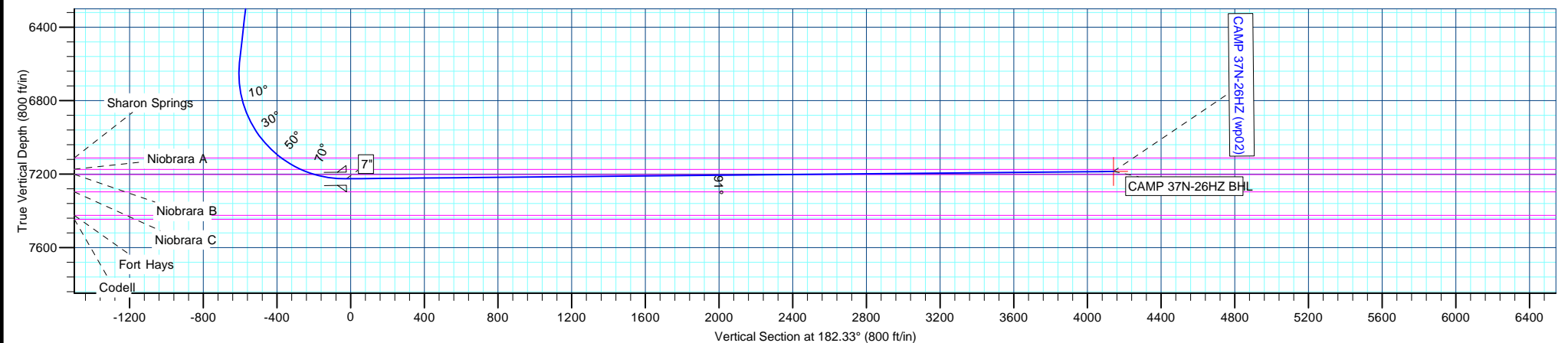
WELL DETAILS: CAMP 37N-26HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	5014.00 Latitude	40.201630	Longitude
0.00	0.00	1317212.13	3213005.25			-104.737420

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
1330.09	6.60	346.06	1329.36	18.44	-4.58	2.00	346.06	-18.23
6625.28	6.60	346.06	6589.44	609.27	-151.27	0.00	0.00	-602.62
7599.23	90.99	179.97	7226.00	30.00	-169.00	10.00	-165.97	-23.11
7643.34	90.55	179.99	7225.41	-14.11	-168.98	1.00	177.55	20.96
11768.40	90.55	179.99	7186.00	-4138.98	-168.18	0.00	0.00	4142.39

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)							
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape	Point
CAMP 37N-26HZ BHL	7186.00	-4138.98	-168.18	40.190268	-104.738022	Point	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4075.00	4084.06	Parkman
4660.00	4682.96	Sussex
7112.00	7221.42	Sharon Springs
7175.00	7345.52	Niobrara A
7203.00	7426.12	Niobrara B

CASING DETAILS			
TVD	MD	Name	Size
900.00	900.00	9 5/8"	9-5/8
7226.00	7599.23	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well CAMP 37N-26HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	RKB + GL @ 5031.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	RKB + GL @ 5031.00ft
Site:	WELD_CAMP 5 PAD	North Reference:	True
Well:	CAMP 37N-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 37N-26HZ		
Design:	CAMP 37N-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 37N-26HZ				
Well Position	+N/-S	-63.76 ft	Northing:	1,317,212.13 usft	Latitude:	40.201630
	+E/-W	-37.43 ft	Easting:	3,213,005.26 usft	Longitude:	-104.737420
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,014.00 ft

Wellbore	CAMP 37N-26HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/7/2011	8.79	66.88	52,996

Design	CAMP 37N-26HZ (wp02)			
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	182.33

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	
1,330.09	6.60	346.06	1,329.36	18.44	-4.58	2.00	2.00	0.00	346.06	
6,625.28	6.60	346.06	6,589.44	609.27	-151.27	0.00	0.00	0.00	0.00	
7,599.23	90.99	179.97	7,226.00	30.00	-169.00	10.00	8.66	-17.05	-165.97	
7,643.35	90.55	179.99	7,225.41	-14.11	-168.98	1.00	-1.00	0.04	177.55	
11,768.40	90.55	179.99	7,186.00	-4,138.98	-168.18	0.00	0.00	0.00	0.00	CAMP 37N-26HZ BHI

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	RKB + GL @ 5031.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	RKB + GL @ 5031.00ft
Site:	WELD_CAMP 5 PAD	North Reference:	True
Well:	CAMP 37N-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 37N-26HZ		
Design:	CAMP 37N-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
1,100.00	2.00	346.06	1,099.98	1.69	-0.42	-1.68	2.00	2.00	0.00
1,200.00	4.00	346.06	1,199.84	6.77	-1.68	-6.70	2.00	2.00	0.00
1,300.00	6.00	346.06	1,299.45	15.23	-3.78	-15.07	2.00	2.00	0.00
1,330.09	6.60	346.06	1,329.36	18.44	-4.58	-18.23	2.00	2.00	0.00
1,400.00	6.60	346.06	1,398.81	26.24	-6.51	-25.95	0.00	0.00	0.00
1,500.00	6.60	346.06	1,498.15	37.39	-9.28	-36.99	0.00	0.00	0.00
1,600.00	6.60	346.06	1,597.48	48.55	-12.06	-48.02	0.00	0.00	0.00
1,700.00	6.60	346.06	1,696.82	59.71	-14.83	-59.06	0.00	0.00	0.00
1,800.00	6.60	346.06	1,796.16	70.87	-17.60	-70.10	0.00	0.00	0.00
1,900.00	6.60	346.06	1,895.50	82.03	-20.37	-81.13	0.00	0.00	0.00
2,000.00	6.60	346.06	1,994.83	93.18	-23.14	-92.17	0.00	0.00	0.00
2,100.00	6.60	346.06	2,094.17	104.34	-25.91	-103.20	0.00	0.00	0.00
2,200.00	6.60	346.06	2,193.51	115.50	-28.68	-114.24	0.00	0.00	0.00
2,300.00	6.60	346.06	2,292.84	126.66	-31.45	-125.28	0.00	0.00	0.00
2,400.00	6.60	346.06	2,392.18	137.82	-34.22	-136.31	0.00	0.00	0.00
2,500.01	6.60	346.06	2,491.52	148.97	-36.99	-147.35	0.00	0.00	0.00
2,600.01	6.60	346.06	2,590.86	160.13	-39.76	-158.39	0.00	0.00	0.00
2,700.01	6.60	346.06	2,690.19	171.29	-42.53	-169.42	0.00	0.00	0.00
2,800.01	6.60	346.06	2,789.53	182.45	-45.30	-180.46	0.00	0.00	0.00
2,900.01	6.60	346.06	2,888.87	193.61	-48.07	-191.49	0.00	0.00	0.00
3,000.01	6.60	346.06	2,988.20	204.76	-50.84	-202.53	0.00	0.00	0.00
3,100.01	6.60	346.06	3,087.54	215.92	-53.61	-213.57	0.00	0.00	0.00
3,200.01	6.60	346.06	3,186.88	227.08	-56.38	-224.60	0.00	0.00	0.00
3,300.01	6.60	346.06	3,286.21	238.24	-59.15	-235.64	0.00	0.00	0.00
3,400.01	6.60	346.06	3,385.55	249.39	-61.92	-246.67	0.00	0.00	0.00
3,500.01	6.60	346.06	3,484.89	260.55	-64.69	-257.71	0.00	0.00	0.00
3,600.01	6.60	346.06	3,584.23	271.71	-67.46	-268.75	0.00	0.00	0.00
3,700.01	6.60	346.06	3,683.56	282.87	-70.23	-279.78	0.00	0.00	0.00
3,800.01	6.60	346.06	3,782.90	294.03	-73.00	-290.82	0.00	0.00	0.00
3,900.01	6.60	346.06	3,882.24	305.18	-75.77	-301.86	0.00	0.00	0.00
4,000.01	6.60	346.06	3,981.57	316.34	-78.54	-312.89	0.00	0.00	0.00
4,094.06	6.60	346.06	4,075.00	326.84	-81.15	-323.27	0.00	0.00	0.00
Parkman									
4,100.01	6.60	346.06	4,080.91	327.50	-81.32	-323.93	0.00	0.00	0.00
4,200.01	6.60	346.06	4,180.25	338.66	-84.09	-334.96	0.00	0.00	0.00
4,300.01	6.60	346.06	4,279.59	349.82	-86.86	-346.00	0.00	0.00	0.00
4,400.01	6.60	346.06	4,378.92	360.97	-89.63	-357.04	0.00	0.00	0.00
4,500.01	6.60	346.06	4,478.26	372.13	-92.40	-368.07	0.00	0.00	0.00
4,600.01	6.60	346.06	4,577.60	383.29	-95.17	-379.11	0.00	0.00	0.00
4,682.96	6.60	346.06	4,660.00	392.54	-97.47	-388.26	0.00	0.00	0.00
Sussex									

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well CAMP 37N-26HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	RKB + GL @ 5031.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	RKB + GL @ 5031.00ft
Site:	WELD_CAMP 5 PAD	North Reference:	True
Well:	CAMP 37N-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 37N-26HZ		
Design:	CAMP 37N-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)
4,700.01	6.60	346.06	4,676.93	394.45	-97.94	-390.15	0.00	0.00	0.00
4,800.01	6.60	346.06	4,776.27	405.60	-100.71	-401.18	0.00	0.00	0.00
4,900.01	6.60	346.06	4,875.61	416.76	-103.48	-412.22	0.00	0.00	0.00
5,000.01	6.60	346.06	4,974.95	427.92	-106.25	-423.25	0.00	0.00	0.00
5,100.01	6.60	346.06	5,074.28	439.08	-109.02	-434.29	0.00	0.00	0.00
5,200.01	6.60	346.06	5,173.62	450.24	-111.79	-445.33	0.00	0.00	0.00
5,300.01	6.60	346.06	5,272.96	461.39	-114.56	-456.36	0.00	0.00	0.00
5,400.01	6.60	346.06	5,372.29	472.55	-117.33	-467.40	0.00	0.00	0.00
5,500.01	6.60	346.06	5,471.63	483.71	-120.10	-478.43	0.00	0.00	0.00
5,600.01	6.60	346.06	5,570.97	494.87	-122.87	-489.47	0.00	0.00	0.00
5,700.01	6.60	346.06	5,670.31	506.03	-125.64	-500.51	0.00	0.00	0.00
5,800.01	6.60	346.06	5,769.64	517.18	-128.41	-511.54	0.00	0.00	0.00
5,900.01	6.60	346.06	5,868.98	528.34	-131.18	-522.58	0.00	0.00	0.00
6,000.01	6.60	346.06	5,968.32	539.50	-133.95	-533.62	0.00	0.00	0.00
6,100.01	6.60	346.06	6,067.65	550.66	-136.72	-544.65	0.00	0.00	0.00
6,200.01	6.60	346.06	6,166.99	561.82	-139.49	-555.69	0.00	0.00	0.00
6,300.01	6.60	346.06	6,266.33	572.97	-142.26	-566.72	0.00	0.00	0.00
6,400.01	6.60	346.06	6,365.67	584.13	-145.03	-577.76	0.00	0.00	0.00
6,500.01	6.60	346.06	6,465.00	595.29	-147.80	-588.80	0.00	0.00	0.00
6,600.01	6.60	346.06	6,564.34	606.45	-150.57	-599.83	0.00	0.00	0.00
6,625.28	6.60	346.06	6,589.44	609.27	-151.27	-602.62	0.00	0.00	0.00
6,700.01	1.92	236.29	6,664.01	612.74	-153.35	-606.01	10.00	-6.27	-146.88
6,800.01	11.18	188.11	6,763.29	602.19	-156.12	-595.35	10.00	9.26	-48.18
6,900.01	21.12	184.14	6,859.22	574.55	-158.80	-567.63	10.00	9.94	-3.97
7,000.01	31.10	182.65	6,948.90	530.66	-161.29	-523.68	10.00	9.98	-1.49
7,100.01	41.09	181.83	7,029.60	471.87	-163.54	-464.84	10.00	9.99	-0.82
7,200.01	51.08	181.29	7,098.87	399.94	-165.47	-392.89	10.00	9.99	-0.54
7,221.42	53.22	181.19	7,112.00	383.04	-165.84	-375.99	10.01	10.00	-0.45
Sharon Springs									
7,300.01	61.08	180.88	7,154.60	317.08	-167.02	-310.04	10.00	9.99	-0.40
7,345.52	65.63	180.72	7,175.00	276.42	-167.59	-269.39	10.00	10.00	-0.35
Niobrara A									
7,400.01	71.07	180.55	7,195.10	225.79	-168.15	-218.78	10.00	9.99	-0.32
7,426.12	73.68	180.47	7,203.00	200.91	-168.37	-193.91	10.01	10.00	-0.31
Niobrara B									
7,500.02	81.07	180.25	7,219.14	128.86	-168.81	-121.90	10.00	9.99	-0.29
7,599.23	90.99	179.97	7,226.00	30.00	-169.00	-23.12	10.00	10.00	-0.28
7"									
7,600.02	90.98	179.97	7,225.99	29.22	-169.00	-22.33	0.94	-0.94	0.04
7,643.35	90.55	179.99	7,225.41	-14.11	-168.98	20.96	1.00	-1.00	0.04
7,700.02	90.55	179.99	7,224.87	-70.77	-168.97	77.58	0.00	0.00	0.00
7,800.02	90.55	179.99	7,223.91	-170.77	-168.95	177.49	0.00	0.00	0.00
7,900.02	90.55	179.99	7,222.96	-270.77	-168.93	277.40	0.00	0.00	0.00
8,000.02	90.55	179.99	7,222.00	-370.76	-168.91	377.31	0.00	0.00	0.00
8,100.02	90.55	179.99	7,221.05	-470.76	-168.90	477.23	0.00	0.00	0.00
8,200.02	90.55	179.99	7,220.09	-570.75	-168.88	577.14	0.00	0.00	0.00
8,300.02	90.55	179.99	7,219.14	-670.75	-168.86	677.05	0.00	0.00	0.00
8,400.02	90.55	179.99	7,218.18	-770.74	-168.84	776.96	0.00	0.00	0.00
8,500.02	90.55	179.99	7,217.22	-870.74	-168.82	876.88	0.00	0.00	0.00
8,600.02	90.55	179.99	7,216.27	-970.74	-168.80	976.79	0.00	0.00	0.00
8,700.02	90.55	179.99	7,215.31	-1,070.73	-168.78	1,076.70	0.00	0.00	0.00
8,800.02	90.55	179.99	7,214.36	-1,170.73	-168.76	1,176.61	0.00	0.00	0.00
8,900.02	90.55	179.99	7,213.40	-1,270.72	-168.74	1,276.53	0.00	0.00	0.00
9,000.02	90.55	179.99	7,212.45	-1,370.72	-168.72	1,376.44	0.00	0.00	0.00

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	RKB + GL @ 5031.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	RKB + GL @ 5031.00ft
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Wellbore:	CAMP 37N-26HZ		
Design:	CAMP 37N-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)	
9,100.02	90.55	179.99	7,211.49	-1,470.71	-168.70	1,476.35	0.00	0.00	0.00	
9,200.02	90.55	179.99	7,210.54	-1,570.71	-168.68	1,576.26	0.00	0.00	0.00	
9,300.02	90.55	179.99	7,209.58	-1,670.70	-168.66	1,676.17	0.00	0.00	0.00	
9,400.02	90.55	179.99	7,208.63	-1,770.70	-168.64	1,776.09	0.00	0.00	0.00	
9,500.02	90.55	179.99	7,207.67	-1,870.70	-168.62	1,876.00	0.00	0.00	0.00	
9,600.02	90.55	179.99	7,206.72	-1,970.69	-168.60	1,975.91	0.00	0.00	0.00	
9,700.02	90.55	179.99	7,205.76	-2,070.69	-168.58	2,075.82	0.00	0.00	0.00	
9,800.02	90.55	179.99	7,204.81	-2,170.68	-168.56	2,175.74	0.00	0.00	0.00	
9,900.02	90.55	179.99	7,203.85	-2,270.68	-168.55	2,275.65	0.00	0.00	0.00	
10,000.02	90.55	179.99	7,202.89	-2,370.67	-168.53	2,375.56	0.00	0.00	0.00	
10,100.02	90.55	179.99	7,201.94	-2,470.67	-168.51	2,475.47	0.00	0.00	0.00	
10,200.02	90.55	179.99	7,200.98	-2,570.67	-168.49	2,575.39	0.00	0.00	0.00	
10,300.02	90.55	179.99	7,200.03	-2,670.66	-168.47	2,675.30	0.00	0.00	0.00	
10,400.02	90.55	179.99	7,199.07	-2,770.66	-168.45	2,775.21	0.00	0.00	0.00	
10,500.02	90.55	179.99	7,198.12	-2,870.65	-168.43	2,875.12	0.00	0.00	0.00	
10,600.02	90.55	179.99	7,197.16	-2,970.65	-168.41	2,975.04	0.00	0.00	0.00	
10,700.02	90.55	179.99	7,196.21	-3,070.64	-168.39	3,074.95	0.00	0.00	0.00	
10,800.02	90.55	179.99	7,195.25	-3,170.64	-168.37	3,174.86	0.00	0.00	0.00	
10,900.02	90.55	179.99	7,194.30	-3,270.63	-168.35	3,274.77	0.00	0.00	0.00	
11,000.02	90.55	179.99	7,193.34	-3,370.63	-168.33	3,374.69	0.00	0.00	0.00	
11,100.02	90.55	179.99	7,192.39	-3,470.63	-168.31	3,474.60	0.00	0.00	0.00	
11,200.02	90.55	179.99	7,191.43	-3,570.62	-168.29	3,574.51	0.00	0.00	0.00	
11,300.02	90.55	179.99	7,190.47	-3,670.62	-168.27	3,674.42	0.00	0.00	0.00	
11,400.02	90.55	179.99	7,189.52	-3,770.61	-168.25	3,774.34	0.00	0.00	0.00	
11,500.02	90.55	179.99	7,188.56	-3,870.61	-168.23	3,874.25	0.00	0.00	0.00	
11,600.02	90.55	179.99	7,187.61	-3,970.60	-168.21	3,974.16	0.00	0.00	0.00	
11,700.02	90.55	179.99	7,186.65	-4,070.60	-168.20	4,074.07	0.00	0.00	0.00	
11,768.40	90.55	179.99	7,186.00	-4,138.98	-168.18	4,142.39	0.00	0.00	0.00	
CAMP 37N-26HZ BHL										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CAMP 37N-26HZ BHL	0.00	0.00	7,186.00	-4,138.98	-168.18	1,313,071.87	3,212,872.67	40.190268	-104.738022
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

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	
7,599.23	7,226.00	7"	7	8-3/4	

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well CAMP 37N-26HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	RKB + GL @ 5031.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	RKB + GL @ 5031.00ft
Site:	WELD_CAMP 5 PAD	North Reference:	True
Well:	CAMP 37N-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 37N-26HZ		
Design:	CAMP 37N-26HZ (wp02)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,094.06	4,075.00	Parkman				
4,682.96	4,660.00	Sussex				
7,221.42	7,112.00	Sharon Springs				
7,345.52	7,175.00	Niobrara A				
7,426.12	7,203.00	Niobrara B				