

US ROCKIES REGION PLANNING

COLORADO NORTHERN CWP - 83

Phase 1 Pad 2

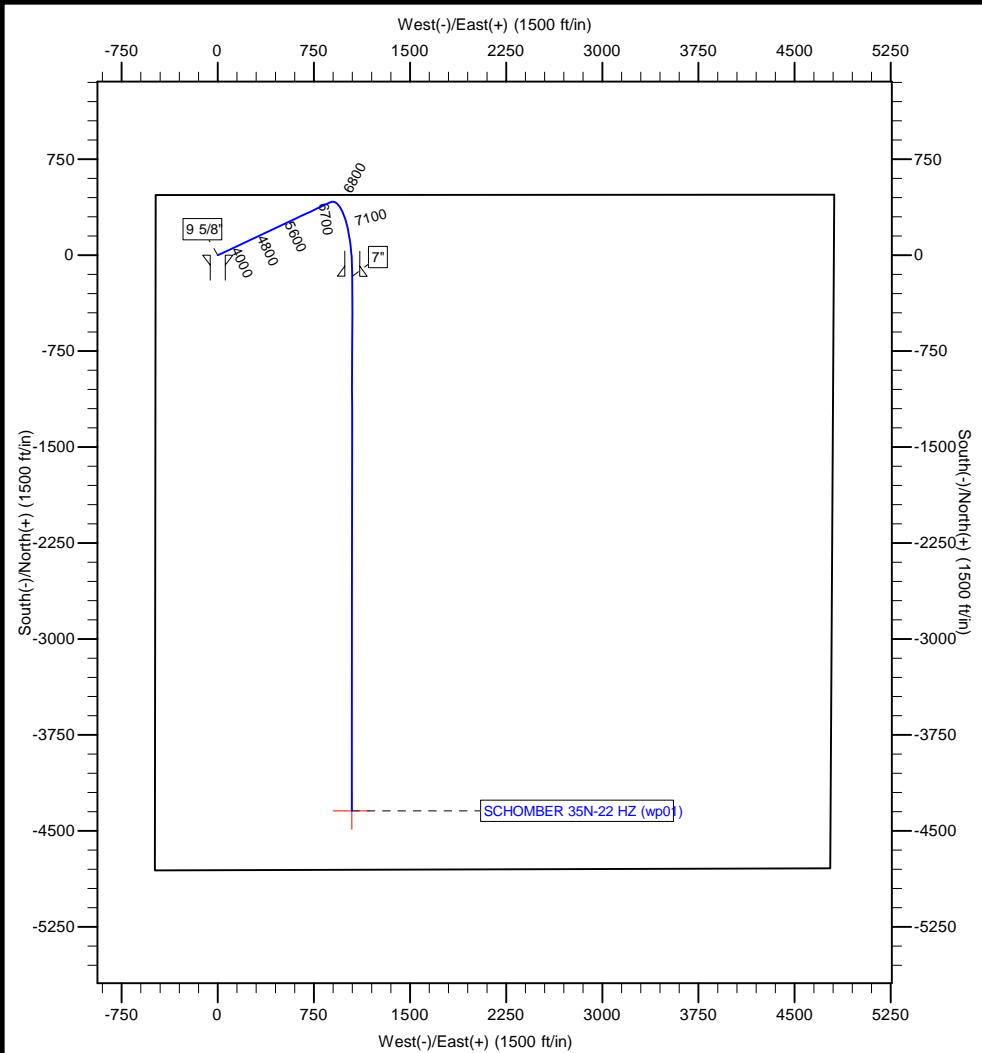
SCHOMBER 35N-22 HZ

SCHOMBER 35N-22 HZ

Plan: SCHOMBER 35N-22 HZ (wp01)

Standard Planning Report

10 October, 2011



Azimuths to True North
 Magnetic North: 8.77°
 Magnetic Field
 Strength: 52983.3snT
 Dip Angle: 66.83°
 Date: 9/16/2011
 Model: IGRF200510



Project: COLORADO NORTHERN CWP - 83
Site: Phase 1 Pad 2
Well: SCHOMBER 35N-22 HZ
Wellbore: SCHOMBER 35N-22 HZ
Section:
SHL:
Design: SCHOMBER 35N-22 HZ (wp01)
Latitude: 40.129611
Longitude: -104.771087
GL: 5007.00
KB: 17' RKB + 5007' gl @ 5024.01ft

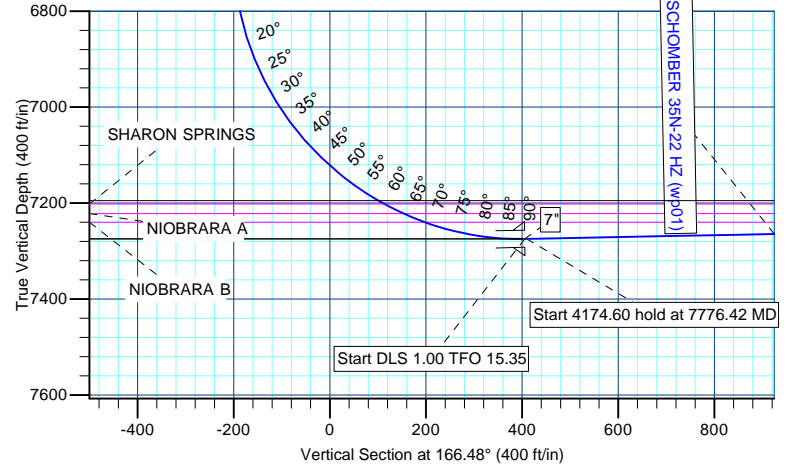
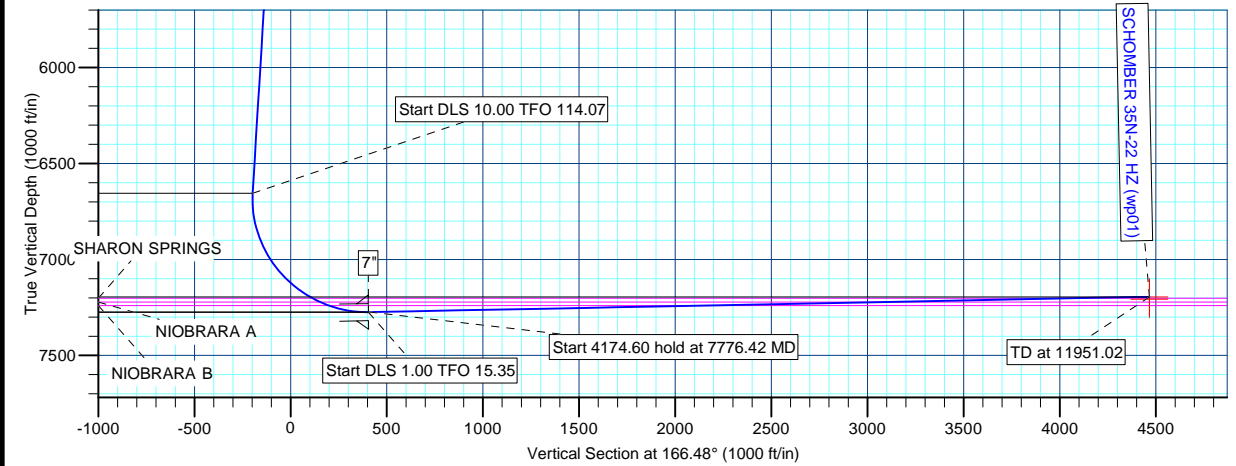
WELL DETAILS: SCHOMBER 35N-22 HZ						
+N-S	+E-W	Northing	Ground Level: Easting	5007.00 Latitude	Longitude	Slot
0.00	0.00	1290898.74	3203817.20	40.129611	-104.771087	

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	
3000.01	0.00	0.00	3000.01	0.00	0.00	0.00	0.00	0.00	
3835.25	16.70	64.76	3823.47	51.56	109.35	2.00	64.76	-24.56	
6791.61	16.70	64.76	6655.06	413.97	877.98	0.00	0.00	-197.17	
7772.36	91.06	180.05	7275.01	-165.00	1049.00	10.00	114.07	405.74	
7776.42	91.10	180.06	7274.93	-169.06	1049.00	1.00	15.35	409.69	
11951.02	91.10	180.06	7195.01	-4342.89	1044.57	0.00	0.00	4466.75	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)							
Name	TVD	+N-S	+E-W	Latitude	Longitude	Point	Shape
SCHOMBER 35N-22 HZ BHL	7195.01	-4342.89	1044.57	40.117689	-104.767352		

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4157.01	4183.49	PARKMAN
4582.01	4627.21	SUSSEX
7202.01	7463.42	SHARON SPRINGS
7222.01	7508.24	NIOBRARA A
7240.01	7556.15	NIOBRARA B

CASING DETAILS			
TVD	MD	Name	Size
890.01	890.01	9 5/8"	9-5/8"
7275.01	7772.36	7"	7"



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well SCHOMBER 35N-22 HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + 5007' gl @ 5024.01ft
Project:	COLORADO NORTHERN CWP - 83	MD Reference:	17' RKB + 5007' gl @ 5024.01ft
Site:	Phase 1 Pad 2	North Reference:	True
Well:	SCHOMBER 35N-22 HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	SCHOMBER 35N-22 HZ		
Design:	SCHOMBER 35N-22 HZ (wp01)		

Project COLORADO NORTHERN CWP - 83			
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site Phase 1 Pad 2					
Site Position:		Northing:	1,290,861.02 usft	Latitude:	40.129506
From:	Lat/Long	Easting:	3,203,868.87 usft	Longitude:	-104.770904
Position Uncertainty:	0.00 ft	Slot Radius:	0 "	Grid Convergence:	0.47 °

Well SCHOMBER 35N-22 HZ, Phase 1 Pad 2						
Well Position	+N/-S	38.14 ft	Northing:	1,290,898.74 usft	Latitude:	40.129611
	+E/-W	-51.36 ft	Easting:	3,203,817.20 usft	Longitude:	-104.771087
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,007.00 ft

Wellbore SCHOMBER 35N-22 HZ					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	9/16/2011	8.77	66.83	52,983

Design SCHOMBER 35N-22 HZ (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	166.48

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	
3,000.01	0.00	0.00	3,000.01	0.00	0.00	0.00	0.00	0.00	0.00	
3,835.25	16.70	64.76	3,823.47	51.56	109.35	2.00	2.00	0.00	64.76	
6,791.61	16.70	64.76	6,655.06	413.97	877.98	0.00	0.00	0.00	0.00	
7,772.36	91.06	180.05	7,275.01	-165.00	1,049.00	10.00	7.58	11.76	114.07	
7,776.42	91.10	180.06	7,274.93	-169.06	1,049.00	1.00	0.96	0.26	15.35	
11,951.02	91.10	180.06	7,195.01	-4,342.89	1,044.57	0.00	0.00	0.00	0.00	SCHOMBER 35N-22

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + 5007' gl @ 5024.01ft
Project:	COLORADO NORTHERN CWP - 83	MD Reference:	17' RKB + 5007' gl @ 5024.01ft
Site:	Phase 1 Pad 2	North Reference:	True
Well:	SCHOMBER 35N-22 HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	SCHOMBER 35N-22 HZ		
Design:	SCHOMBER 35N-22 HZ (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
890.01	0.00	0.00	890.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"										
900.00	0.00	0.00	900.00	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	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	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.01	0.00	0.00	3,000.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00										
3,100.00	2.00	64.76	3,099.98	0.74	1.58	-0.35	2.00	2.00	0.00	0.00
3,200.00	4.00	64.76	3,199.84	2.98	6.31	-1.42	2.00	2.00	0.00	0.00
3,300.00	6.00	64.76	3,299.45	6.69	14.19	-3.19	2.00	2.00	0.00	0.00
3,400.00	8.00	64.76	3,398.70	11.89	25.22	-5.66	2.00	2.00	0.00	0.00
3,500.00	10.00	64.76	3,497.47	18.56	39.37	-8.84	2.00	2.00	0.00	0.00
3,600.00	12.00	64.76	3,595.62	26.70	56.62	-12.72	2.00	2.00	0.00	0.00
3,700.00	14.00	64.76	3,693.06	36.29	76.97	-17.28	2.00	2.00	0.00	0.00
3,800.00	16.00	64.76	3,789.64	47.33	100.38	-22.54	2.00	2.00	0.00	0.00
3,835.25	16.70	64.76	3,823.47	51.56	109.35	-24.56	2.00	2.00	0.00	0.00
Start 2956.35 hold at 3835.25 MD										
3,900.00	16.70	64.76	3,885.48	59.50	126.19	-28.34	0.00	0.00	0.00	0.00
4,000.00	16.70	64.76	3,981.26	71.76	152.19	-34.18	0.00	0.00	0.00	0.00
4,100.00	16.70	64.76	4,077.04	84.02	178.19	-40.02	0.00	0.00	0.00	0.00
4,183.49	16.70	64.76	4,157.01	94.25	199.89	-44.89	0.00	0.00	0.00	0.00
PARKMAN										
4,200.00	16.70	64.76	4,172.82	96.27	204.19	-45.85	0.00	0.00	0.00	0.00
4,300.00	16.70	64.76	4,268.60	108.53	230.19	-51.69	0.00	0.00	0.00	0.00
4,400.00	16.70	64.76	4,364.38	120.79	256.18	-57.53	0.00	0.00	0.00	0.00
4,500.00	16.70	64.76	4,460.16	133.05	282.18	-63.37	0.00	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well SCHOMBER 35N-22 HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + 5007' gl @ 5024.01ft
Project:	COLORADO NORTHERN CWP - 83	MD Reference:	17' RKB + 5007' gl @ 5024.01ft
Site:	Phase 1 Pad 2	North Reference:	True
Well:	SCHOMBER 35N-22 HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	SCHOMBER 35N-22 HZ		
Design:	SCHOMBER 35N-22 HZ (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	16.70	64.76	4,555.94	145.31	308.18	-69.21	0.00	0.00	0.00
4,627.22	16.70	64.76	4,582.01	148.64	315.26	-70.80	0.00	0.00	0.00
SUSSEX									
4,700.00	16.70	64.76	4,651.72	157.57	334.18	-75.05	0.00	0.00	0.00
4,800.00	16.70	64.76	4,747.50	169.83	360.18	-80.89	0.00	0.00	0.00
4,900.00	16.70	64.76	4,843.28	182.08	386.18	-86.73	0.00	0.00	0.00
5,000.00	16.70	64.76	4,939.06	194.34	412.18	-92.56	0.00	0.00	0.00
5,100.00	16.70	64.76	5,034.84	206.60	438.18	-98.40	0.00	0.00	0.00
5,200.00	16.70	64.76	5,130.62	218.86	464.18	-104.24	0.00	0.00	0.00
5,300.00	16.70	64.76	5,226.40	231.12	490.18	-110.08	0.00	0.00	0.00
5,400.00	16.70	64.76	5,322.18	243.38	516.18	-115.92	0.00	0.00	0.00
5,500.00	16.70	64.76	5,417.96	255.64	542.18	-121.76	0.00	0.00	0.00
5,600.00	16.70	64.76	5,513.74	267.90	568.18	-127.60	0.00	0.00	0.00
5,700.00	16.70	64.76	5,609.52	280.15	594.17	-133.44	0.00	0.00	0.00
5,800.00	16.70	64.76	5,705.30	292.41	620.17	-139.27	0.00	0.00	0.00
5,900.00	16.70	64.76	5,801.08	304.67	646.17	-145.11	0.00	0.00	0.00
6,000.00	16.70	64.76	5,896.86	316.93	672.17	-150.95	0.00	0.00	0.00
6,100.00	16.70	64.76	5,992.64	329.19	698.17	-156.79	0.00	0.00	0.00
6,200.00	16.70	64.76	6,088.42	341.45	724.17	-162.63	0.00	0.00	0.00
6,300.00	16.70	64.76	6,184.20	353.71	750.17	-168.47	0.00	0.00	0.00
6,400.00	16.70	64.76	6,279.98	365.96	776.17	-174.31	0.00	0.00	0.00
6,500.00	16.70	64.76	6,375.76	378.22	802.17	-180.14	0.00	0.00	0.00
6,600.00	16.70	64.76	6,471.54	390.48	828.17	-185.98	0.00	0.00	0.00
6,700.00	16.70	64.76	6,567.32	402.74	854.17	-191.82	0.00	0.00	0.00
6,791.61	16.70	64.76	6,655.06	413.97	877.98	-197.17	0.00	0.00	0.00
Start DLS 10.00 TFO 114.07									
6,800.00	16.38	67.47	6,663.10	414.94	880.17	-197.60	10.00	-3.87	32.39
6,900.00	15.69	104.18	6,759.46	417.03	906.37	-193.51	10.00	-0.69	36.71
7,000.00	20.47	133.00	6,854.68	401.76	932.33	-172.59	10.00	4.78	28.81
7,100.00	28.06	149.08	6,945.88	369.58	957.27	-135.47	10.00	7.59	16.08
7,200.00	36.75	158.40	7,030.28	321.47	980.42	-83.28	10.00	8.69	9.32
7,300.00	45.91	164.49	7,105.32	258.89	1,001.09	-17.60	10.00	9.17	6.09
7,400.00	55.31	168.91	7,168.73	183.74	1,018.65	59.57	10.00	9.40	4.43
7,463.42	61.35	171.22	7,202.01	130.60	1,027.92	113.41	10.00	9.51	3.63
SHARON SPRINGS									
7,500.00	64.84	172.42	7,218.56	98.32	1,032.56	145.87	10.00	9.56	3.30
7,508.24	65.63	172.69	7,222.01	90.90	1,033.52	153.31	10.00	9.57	3.18
NIORARA A									
7,556.15	70.23	174.15	7,240.01	46.81	1,038.60	197.37	10.00	9.59	3.06
NIORARA B									
7,600.00	74.44	175.42	7,253.32	5.21	1,042.39	238.71	10.00	9.61	2.89
7,619.34	76.30	175.96	7,258.21	-13.46	1,043.80	257.18	10.00	9.63	2.80
SCHOMBER 35N-22 HZ heel									
7,700.00	84.08	178.15	7,271.94	-92.76	1,047.87	335.24	10.00	9.64	2.71
7,772.36	91.06	180.05	7,275.01	-165.00	1,049.00	405.74	10.00	9.65	2.63
Start DLS 1.00 TFO 15.35 - 7"									
7,776.42	91.10	180.06	7,274.93	-169.06	1,049.00	409.69	1.00	0.97	0.26
Start 4174.60 hold at 7776.42 MD									
7,800.00	91.10	180.06	7,274.48	-192.63	1,048.97	432.60	0.00	0.00	0.00
7,900.00	91.10	180.06	7,272.57	-292.62	1,048.87	529.78	0.00	0.00	0.00
8,000.00	91.10	180.06	7,270.65	-392.60	1,048.76	626.97	0.00	0.00	0.00
8,100.00	91.10	180.06	7,268.74	-492.58	1,048.65	724.15	0.00	0.00	0.00
8,200.00	91.10	180.06	7,266.82	-592.56	1,048.55	821.34	0.00	0.00	0.00

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + 5007' gl @ 5024.01ft
Project:	COLORADO NORTHERN CWP - 83	MD Reference:	17' RKB + 5007' gl @ 5024.01ft
Site:	Phase 1 Pad 2	North Reference:	True
Well:	SCHOMBER 35N-22 HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	SCHOMBER 35N-22 HZ		
Design:	SCHOMBER 35N-22 HZ (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	91.10	180.06	7,264.91	-692.54	1,048.44	918.52	0.00	0.00	0.00	
8,400.00	91.10	180.06	7,263.00	-792.52	1,048.33	1,015.71	0.00	0.00	0.00	
8,500.00	91.10	180.06	7,261.08	-892.51	1,048.23	1,112.89	0.00	0.00	0.00	
8,600.00	91.10	180.06	7,259.17	-992.49	1,048.12	1,210.08	0.00	0.00	0.00	
8,700.00	91.10	180.06	7,257.25	-1,092.47	1,048.02	1,307.26	0.00	0.00	0.00	
8,800.00	91.10	180.06	7,255.34	-1,192.45	1,047.91	1,404.44	0.00	0.00	0.00	
8,900.00	91.10	180.06	7,253.42	-1,292.43	1,047.80	1,501.63	0.00	0.00	0.00	
9,000.00	91.10	180.06	7,251.51	-1,392.41	1,047.70	1,598.81	0.00	0.00	0.00	
9,100.00	91.10	180.06	7,249.59	-1,492.40	1,047.59	1,696.00	0.00	0.00	0.00	
9,200.00	91.10	180.06	7,247.68	-1,592.38	1,047.49	1,793.18	0.00	0.00	0.00	
9,300.00	91.10	180.06	7,245.77	-1,692.36	1,047.38	1,890.37	0.00	0.00	0.00	
9,400.00	91.10	180.06	7,243.85	-1,792.34	1,047.27	1,987.55	0.00	0.00	0.00	
9,500.00	91.10	180.06	7,241.94	-1,892.32	1,047.17	2,084.74	0.00	0.00	0.00	
9,600.00	91.10	180.06	7,240.02	-1,992.30	1,047.06	2,181.92	0.00	0.00	0.00	
9,700.00	91.10	180.06	7,238.11	-2,092.29	1,046.96	2,279.11	0.00	0.00	0.00	
9,800.00	91.10	180.06	7,236.19	-2,192.27	1,046.85	2,376.29	0.00	0.00	0.00	
9,900.00	91.10	180.06	7,234.28	-2,292.25	1,046.74	2,473.47	0.00	0.00	0.00	
10,000.00	91.10	180.06	7,232.37	-2,392.23	1,046.64	2,570.66	0.00	0.00	0.00	
10,100.00	91.10	180.06	7,230.45	-2,492.21	1,046.53	2,667.84	0.00	0.00	0.00	
10,200.00	91.10	180.06	7,228.54	-2,592.19	1,046.43	2,765.03	0.00	0.00	0.00	
10,300.00	91.10	180.06	7,226.62	-2,692.18	1,046.32	2,862.21	0.00	0.00	0.00	
10,400.00	91.10	180.06	7,224.71	-2,792.16	1,046.21	2,959.40	0.00	0.00	0.00	
10,500.00	91.10	180.06	7,222.79	-2,892.14	1,046.11	3,056.58	0.00	0.00	0.00	
10,600.00	91.10	180.06	7,220.88	-2,992.12	1,046.00	3,153.77	0.00	0.00	0.00	
10,700.00	91.10	180.06	7,218.96	-3,092.10	1,045.90	3,250.95	0.00	0.00	0.00	
10,800.00	91.10	180.06	7,217.05	-3,192.08	1,045.79	3,348.13	0.00	0.00	0.00	
10,900.00	91.10	180.06	7,215.14	-3,292.06	1,045.68	3,445.32	0.00	0.00	0.00	
11,000.00	91.10	180.06	7,213.22	-3,392.05	1,045.58	3,542.50	0.00	0.00	0.00	
11,100.00	91.10	180.06	7,211.31	-3,492.03	1,045.47	3,639.69	0.00	0.00	0.00	
11,200.00	91.10	180.06	7,209.39	-3,592.01	1,045.37	3,736.87	0.00	0.00	0.00	
11,300.00	91.10	180.06	7,207.48	-3,691.99	1,045.26	3,834.06	0.00	0.00	0.00	
11,400.00	91.10	180.06	7,205.56	-3,791.97	1,045.15	3,931.24	0.00	0.00	0.00	
11,500.00	91.10	180.06	7,203.65	-3,891.95	1,045.05	4,028.43	0.00	0.00	0.00	
11,600.00	91.10	180.06	7,201.73	-3,991.94	1,044.94	4,125.61	0.00	0.00	0.00	
11,700.00	91.10	180.06	7,199.82	-4,091.92	1,044.84	4,222.80	0.00	0.00	0.00	
11,800.00	91.10	180.06	7,197.91	-4,191.90	1,044.73	4,319.98	0.00	0.00	0.00	
11,900.00	91.10	180.06	7,195.99	-4,291.88	1,044.62	4,417.16	0.00	0.00	0.00	
11,950.79	91.10	180.06	7,195.02	-4,342.66	1,044.57	4,466.53	0.00	0.00	0.00	
Schomber 35N-22HZ Toe										
11,951.02	91.10	180.06	7,195.01	-4,342.89	1,044.57	4,466.75	0.00	0.00	0.00	
TD at 11951.02 - SCHOMBER 35N-22 HZ BHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SCHOMBER 35N-22 HZ	0.00	0.00	7,195.01	-4,342.89	1,044.57	1,286,564.59	3,204,897.43	40.117689	-104.767352	
- hit/miss target										
- Shape										
- plan hits target center										
- Point										

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well SCHOMBER 35N-22 HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + 5007' gl @ 5024.01ft
Project:	COLORADO NORTHERN CWP - 83	MD Reference:	17' RKB + 5007' gl @ 5024.01ft
Site:	Phase 1 Pad 2	North Reference:	True
Well:	SCHOMBER 35N-22 HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	SCHOMBER 35N-22 HZ		
Design:	SCHOMBER 35N-22 HZ (wp01)		

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
890.01	890.01	9 5/8"		9-5/8	12-1/4	
7,772.36	7,275.01	7"		7	8-3/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,183.49	4,157.01	PARKMAN		0.00		
4,627.22	4,582.01	SUSSEX		0.00		
7,463.42	7,202.01	SHARON SPRINGS		0.00		
7,508.24	7,222.01	NIOBRARA A		0.00		
7,556.15	7,240.01	NIOBRARA B		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
3,000.01	3,000.01	0.00	0.00	Start Build 2.00	
3,835.25	3,823.47	51.56	109.35	Start 2956.35 hold at 3835.25 MD	
6,791.61	6,655.06	413.97	877.98	Start DLS 10.00 TFO 114.07	
7,772.36	7,275.01	-165.00	1,049.00	Start DLS 1.00 TFO 15.35	
7,776.42	7,274.93	-169.06	1,049.00	Start 4174.60 hold at 7776.42 MD	
11,951.02	7,195.01	-4,342.89	1,044.57	TD at 11951.02	