

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_Dove 3-12 HZ PAD

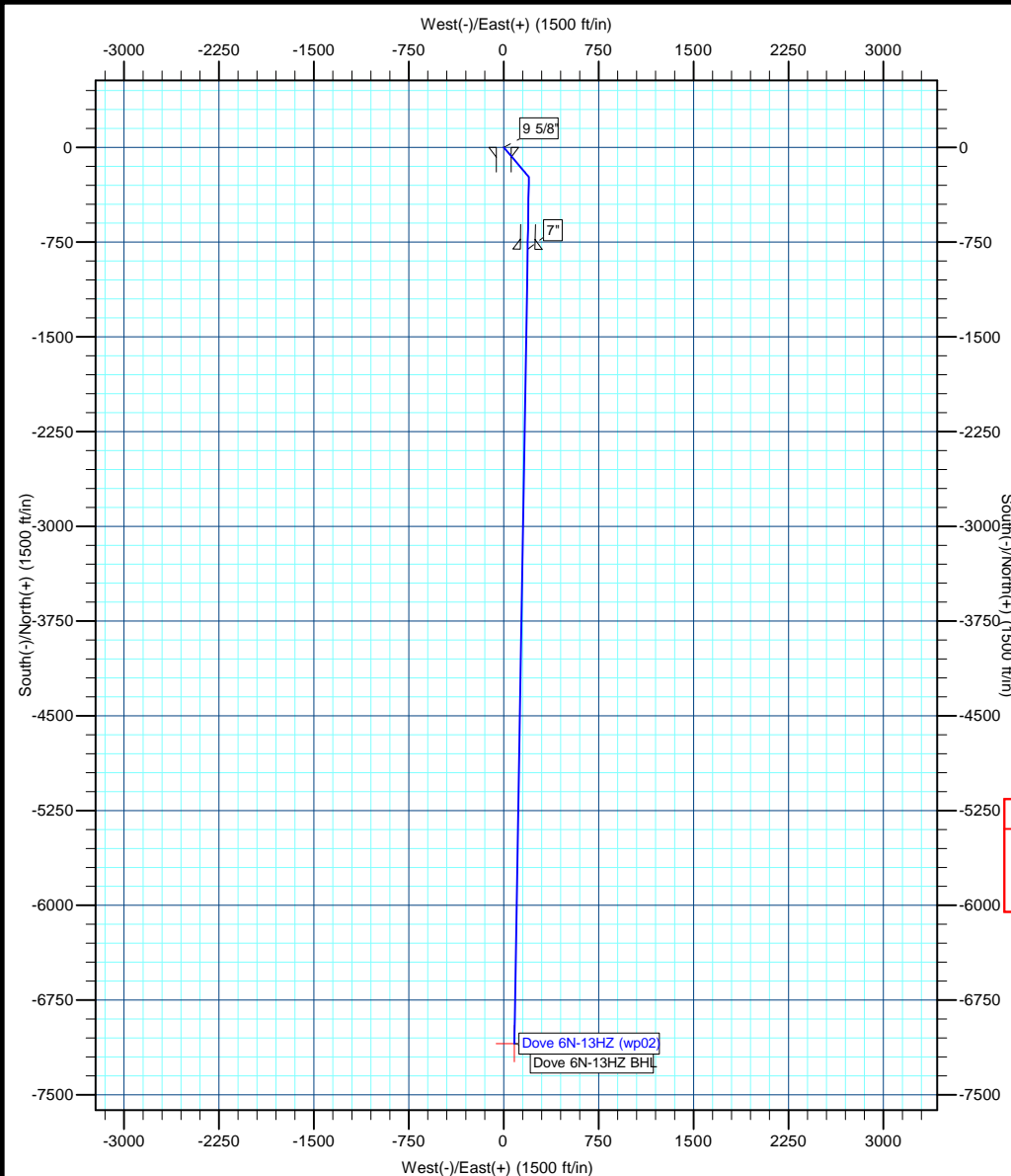
Dove 6N-13HZ

Dove 6N-13HZ

Plan: Dove 6N-13HZ (wp02)

Standard Planning Report

05 June, 2012



Azimuths to True North
Magnetic North: 8.73°
Magnetic Field
Strength: 52938.5snT
Dip Angle: 66.84°
Date: 2/9/2012
Model: IGRF2010



Project: COLORADO NORTHERN ZONE - 83
Site: WELD_Dove 3-12 HZ PAD
Well: Dove 6N-13HZ
Wellbore: Dove 6N-13HZ
Section:
SHL:
Design: Dove 6N-13HZ (wp02)
Latitude: 40.159150
Longitude: -104.727500
GL: 4982.00
KB: GL + rkb @ 4999.00ft

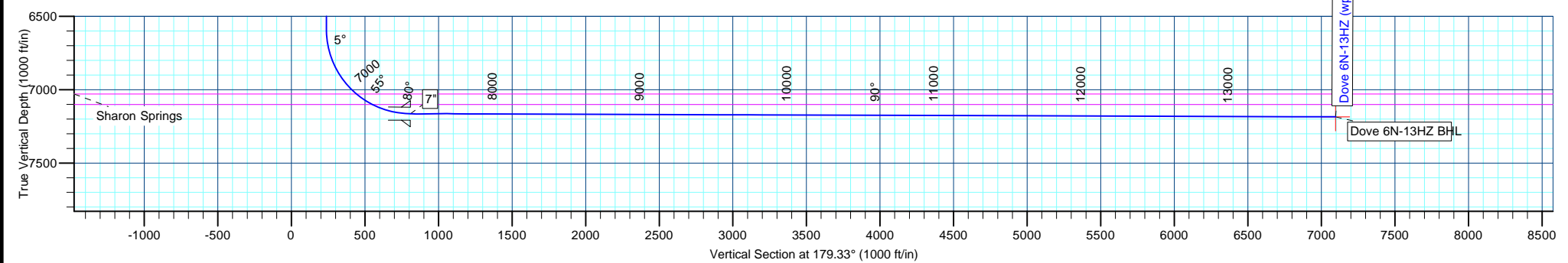
WELL DETAILS: Dove 6N-13HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	4982.00 Latitude	Longitude	Slot
0.00	0.00	1301762.00	3215910.87	40.159150	-104.727500	

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
2250.00	5.00	140.00	2249.68	-8.35	7.01	2.00	140.00	8.43
5527.00	5.00	140.00	5514.21	-227.14	190.59	0.00	0.00	229.36
5777.00	0.00	0.00	5763.90	-235.49	197.60	2.00	180.00	237.80
6604.15	0.00	0.00	6591.05	-235.49	197.60	0.00	0.00	237.80
7502.24	89.81	180.95	7164.00	-806.46	188.09	10.00	180.95	808.61
13791.42	89.81	180.95	7185.00	-7094.73	83.31	0.00	0.00	7095.22

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Dove 6N-13HZ BHL	7185.00	-7094.73	83.31	40.139674	-104.727202	Point

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
706.00	706.00	Fox Hills
3327.00	3331.43	Parkman
4365.00	4373.40	Sussex
7029.00	7102.66	Sharon Springs
7101.00	7232.93	Niobrara A

CASING DETAILS			
TVD	MD	Name	Size
1000.00	1000.00	9 5/8"	9-5/8
7164.00	7502.24	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Dove 6N-13HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + rkb @ 4999.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + rkb @ 4999.00ft
Site:	WELD_Dove 3-12 HZ PAD	North Reference:	True
Well:	Dove 6N-13HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Dove 6N-13HZ		
Design:	Dove 6N-13HZ (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_Dove 3-12 HZ PAD			
Site Position:		Northing:	1,301,762.27 usft	Latitude:	40.159150
From:	Lat/Long	Easting:	3,215,940.77 usft	Longitude:	-104.727393
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.50 °

Well	Dove 6N-13HZ					
Well Position	+N/-S	-0.01 ft	Northing:	1,301,762.00 usft	Latitude:	40.159150
	+E/-W	-29.91 ft	Easting:	3,215,910.87 usft	Longitude:	-104.727500
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,982.00 ft

Wellbore	Dove 6N-13HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/9/2012	8.74	66.84	52,938

Design	Dove 6N-13HZ (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	179.33

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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,250.00	5.00	140.00	2,249.68	-8.35	7.01	2.00	2.00	0.00	140.00	
5,527.00	5.00	140.00	5,514.21	-227.14	190.59	0.00	0.00	0.00	0.00	
5,777.00	0.00	0.00	5,763.90	-235.49	197.60	2.00	-2.00	0.00	180.00	
6,604.15	0.00	0.00	6,591.05	-235.49	197.60	0.00	0.00	0.00	0.00	
7,502.24	89.81	180.95	7,164.00	-806.46	188.09	10.00	10.00	0.00	180.95	
13,791.42	89.81	180.95	7,185.00	-7,094.73	83.31	0.00	0.00	0.00	0.00	Dove 6N-13HZ BHL

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Dove 6N-13HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + rkb @ 4999.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + rkb @ 4999.00ft
Site:	WELD_Dove 3-12 HZ PAD	North Reference:	True
Well:	Dove 6N-13HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Dove 6N-13HZ		
Design:	Dove 6N-13HZ (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
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
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
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	140.00	2,099.98	-1.34	1.12	1.35	2.00	2.00	0.00
2,200.00	4.00	140.00	2,199.84	-5.35	4.49	5.40	2.00	2.00	0.00
2,250.00	5.00	140.00	2,249.68	-8.35	7.01	8.43	2.00	2.00	0.00
2,300.00	5.00	140.00	2,299.49	-11.69	9.81	11.80	0.00	0.00	0.00
2,400.00	5.00	140.00	2,399.11	-18.37	15.41	18.55	0.00	0.00	0.00
2,500.00	5.00	140.00	2,498.73	-25.04	21.01	25.29	0.00	0.00	0.00
2,600.00	5.00	140.00	2,598.35	-31.72	26.62	32.03	0.00	0.00	0.00
2,700.00	5.00	140.00	2,697.97	-38.40	32.22	38.77	0.00	0.00	0.00
2,800.00	5.00	140.00	2,797.59	-45.07	37.82	45.51	0.00	0.00	0.00
2,900.00	5.00	140.00	2,897.21	-51.75	43.42	52.25	0.00	0.00	0.00
3,000.00	5.00	140.00	2,996.83	-58.42	49.02	59.00	0.00	0.00	0.00
3,100.00	5.00	140.00	3,096.45	-65.10	54.63	65.74	0.00	0.00	0.00
3,200.00	5.00	140.00	3,196.07	-71.78	60.23	72.48	0.00	0.00	0.00
3,300.00	5.00	140.00	3,295.69	-78.45	65.83	79.22	0.00	0.00	0.00
3,331.43	5.00	140.00	3,327.00	-80.55	67.59	81.34	0.00	0.00	0.00
Parkman									
3,400.00	5.00	140.00	3,395.31	-85.13	71.43	85.96	0.00	0.00	0.00
3,500.00	5.00	140.00	3,494.93	-91.81	77.04	92.71	0.00	0.00	0.00
3,600.00	5.00	140.00	3,594.55	-98.48	82.64	99.45	0.00	0.00	0.00
3,700.00	5.00	140.00	3,694.17	-105.16	88.24	106.19	0.00	0.00	0.00
3,800.00	5.00	140.00	3,793.78	-111.84	93.84	112.93	0.00	0.00	0.00
3,900.00	5.00	140.00	3,893.40	-118.51	99.44	119.67	0.00	0.00	0.00
4,000.00	5.00	140.00	3,993.02	-125.19	105.05	126.41	0.00	0.00	0.00
4,100.00	5.00	140.00	4,092.64	-131.87	110.65	133.16	0.00	0.00	0.00
4,200.00	5.00	140.00	4,192.26	-138.54	116.25	139.90	0.00	0.00	0.00
4,300.00	5.00	140.00	4,291.88	-145.22	121.85	146.64	0.00	0.00	0.00
4,373.40	5.00	140.00	4,365.00	-150.12	125.97	151.59	0.00	0.00	0.00
Sussex									
4,400.00	5.00	140.00	4,391.50	-151.90	127.46	153.38	0.00	0.00	0.00
4,500.00	5.00	140.00	4,491.12	-158.57	133.06	160.12	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Dove 6N-13HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + rkb @ 4999.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + rkb @ 4999.00ft
Site:	WELD_Dove 3-12 HZ PAD	North Reference:	True
Well:	Dove 6N-13HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Dove 6N-13HZ		
Design:	Dove 6N-13HZ (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)
4,600.00	5.00	140.00	4,590.74	-165.25	138.66	166.87	0.00	0.00	0.00
4,700.00	5.00	140.00	4,690.36	-171.93	144.26	173.61	0.00	0.00	0.00
4,800.00	5.00	140.00	4,789.98	-178.60	149.86	180.35	0.00	0.00	0.00
4,900.00	5.00	140.00	4,889.60	-185.28	155.47	187.09	0.00	0.00	0.00
5,000.00	5.00	140.00	4,989.22	-191.96	161.07	193.83	0.00	0.00	0.00
5,100.00	5.00	140.00	5,088.84	-198.63	166.67	200.58	0.00	0.00	0.00
5,200.00	5.00	140.00	5,188.46	-205.31	172.27	207.32	0.00	0.00	0.00
5,300.00	5.00	140.00	5,288.08	-211.98	177.88	214.06	0.00	0.00	0.00
5,400.00	5.00	140.00	5,387.70	-218.66	183.48	220.80	0.00	0.00	0.00
5,500.00	5.00	140.00	5,487.32	-225.34	189.08	227.54	0.00	0.00	0.00
5,527.00	5.00	140.00	5,514.21	-227.14	190.59	229.36	0.00	0.00	0.00
5,600.00	3.54	140.00	5,587.01	-231.30	194.09	233.57	2.00	-2.00	0.00
5,700.00	1.54	140.00	5,686.91	-234.70	196.94	237.00	2.00	-2.00	0.00
5,777.00	0.00	0.00	5,763.90	-235.49	197.60	237.80	2.00	-2.00	-181.82
5,800.00	0.00	0.00	5,786.90	-235.49	197.60	237.80	0.00	0.00	0.00
5,900.00	0.00	0.00	5,886.90	-235.49	197.60	237.80	0.00	0.00	0.00
6,000.00	0.00	0.00	5,986.90	-235.49	197.60	237.80	0.00	0.00	0.00
6,100.00	0.00	0.00	6,086.90	-235.49	197.60	237.80	0.00	0.00	0.00
6,200.00	0.00	0.00	6,186.90	-235.49	197.60	237.80	0.00	0.00	0.00
6,300.00	0.00	0.00	6,286.90	-235.49	197.60	237.80	0.00	0.00	0.00
6,400.00	0.00	0.00	6,386.90	-235.49	197.60	237.80	0.00	0.00	0.00
6,500.00	0.00	0.00	6,486.90	-235.49	197.60	237.80	0.00	0.00	0.00
6,600.00	0.00	0.00	6,586.90	-235.49	197.60	237.80	0.00	0.00	0.00
6,604.15	0.00	0.00	6,591.05	-235.49	197.60	237.80	0.00	0.00	0.00
6,700.00	9.58	180.95	6,686.45	-243.49	197.47	245.79	10.00	10.00	-186.80
6,800.00	19.58	180.95	6,783.10	-268.64	197.05	270.93	10.00	10.00	0.00
6,900.00	29.58	180.95	6,873.92	-310.18	196.36	312.47	10.00	10.00	0.00
7,000.00	39.58	180.95	6,956.15	-366.86	195.41	369.13	10.00	10.00	0.00
7,100.00	49.58	180.95	7,027.28	-436.96	194.24	439.21	10.00	10.00	0.00
7,102.66	49.85	180.95	7,029.00	-438.99	194.21	441.24	10.00	10.00	0.00
Sharon Springs									
7,200.00	59.58	180.95	7,085.15	-518.34	192.89	520.57	10.00	10.00	0.00
7,232.93	62.88	180.95	7,101.00	-547.20	192.41	549.42	10.00	10.00	0.00
Niobrara A									
7,300.00	69.58	180.95	7,128.02	-608.54	191.39	610.74	10.00	10.00	0.00
7,400.00	79.58	180.95	7,154.56	-704.81	189.78	706.99	10.00	10.00	0.00
7,500.00	89.58	180.95	7,163.99	-804.22	188.12	806.37	10.00	10.00	0.00
7,502.24	89.81	180.95	7,164.00	-806.46	188.09	808.61	9.99	9.99	0.00
7"									
7,600.00	89.81	180.95	7,164.33	-904.21	186.46	906.33	0.00	0.00	0.00
7,700.00	89.81	180.95	7,164.66	-1,004.19	184.79	1,006.29	0.00	0.00	0.00
7,800.00	89.81	180.95	7,165.00	-1,104.18	183.13	1,106.25	0.00	0.00	0.00
7,900.00	89.81	180.95	7,165.33	-1,204.16	181.46	1,206.21	0.00	0.00	0.00
8,000.00	89.81	180.95	7,165.66	-1,304.15	179.80	1,306.17	0.00	0.00	0.00
8,100.00	89.81	180.95	7,166.00	-1,404.13	178.13	1,406.13	0.00	0.00	0.00
8,200.00	89.81	180.95	7,166.33	-1,504.12	176.46	1,506.09	0.00	0.00	0.00
8,300.00	89.81	180.95	7,166.67	-1,604.10	174.80	1,606.05	0.00	0.00	0.00
8,400.00	89.81	180.95	7,167.00	-1,704.09	173.13	1,706.01	0.00	0.00	0.00
8,500.00	89.81	180.95	7,167.33	-1,804.08	171.47	1,805.96	0.00	0.00	0.00
8,600.00	89.81	180.95	7,167.67	-1,904.06	169.80	1,905.92	0.00	0.00	0.00
8,700.00	89.81	180.95	7,168.00	-2,004.05	168.13	2,005.88	0.00	0.00	0.00
8,800.00	89.81	180.95	7,168.33	-2,104.03	166.47	2,105.84	0.00	0.00	0.00
8,900.00	89.81	180.95	7,168.67	-2,204.02	164.80	2,205.80	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Dove 6N-13HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + rkb @ 4999.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + rkb @ 4999.00ft
Site:	WELD_Dove 3-12 HZ PAD	North Reference:	True
Well:	Dove 6N-13HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Dove 6N-13HZ		
Design:	Dove 6N-13HZ (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)	
9,000.00	89.81	180.95	7,169.00	-2,304.00	163.14	2,305.76	0.00	0.00	0.00	
9,100.00	89.81	180.95	7,169.34	-2,403.99	161.47	2,405.72	0.00	0.00	0.00	
9,200.00	89.81	180.95	7,169.67	-2,503.97	159.80	2,505.68	0.00	0.00	0.00	
9,300.00	89.81	180.95	7,170.00	-2,603.96	158.14	2,605.64	0.00	0.00	0.00	
9,400.00	89.81	180.95	7,170.34	-2,703.95	156.47	2,705.60	0.00	0.00	0.00	
9,500.00	89.81	180.95	7,170.67	-2,803.93	154.81	2,805.56	0.00	0.00	0.00	
9,600.00	89.81	180.95	7,171.01	-2,903.92	153.14	2,905.51	0.00	0.00	0.00	
9,700.00	89.81	180.95	7,171.34	-3,003.90	151.47	3,005.47	0.00	0.00	0.00	
9,800.00	89.81	180.95	7,171.67	-3,103.89	149.81	3,105.43	0.00	0.00	0.00	
9,900.00	89.81	180.95	7,172.01	-3,203.87	148.14	3,205.39	0.00	0.00	0.00	
10,000.00	89.81	180.95	7,172.34	-3,303.86	146.48	3,305.35	0.00	0.00	0.00	
10,100.00	89.81	180.95	7,172.68	-3,403.84	144.81	3,405.31	0.00	0.00	0.00	
10,200.00	89.81	180.95	7,173.01	-3,503.83	143.15	3,505.27	0.00	0.00	0.00	
10,300.00	89.81	180.95	7,173.34	-3,603.82	141.48	3,605.23	0.00	0.00	0.00	
10,400.00	89.81	180.95	7,173.68	-3,703.80	139.81	3,705.19	0.00	0.00	0.00	
10,500.00	89.81	180.95	7,174.01	-3,803.79	138.15	3,805.15	0.00	0.00	0.00	
10,600.00	89.81	180.95	7,174.34	-3,903.77	136.48	3,905.11	0.00	0.00	0.00	
10,700.00	89.81	180.95	7,174.68	-4,003.76	134.82	4,005.06	0.00	0.00	0.00	
10,800.00	89.81	180.95	7,175.01	-4,103.74	133.15	4,105.02	0.00	0.00	0.00	
10,900.00	89.81	180.95	7,175.35	-4,203.73	131.48	4,204.98	0.00	0.00	0.00	
11,000.00	89.81	180.95	7,175.68	-4,303.71	129.82	4,304.94	0.00	0.00	0.00	
11,100.00	89.81	180.95	7,176.01	-4,403.70	128.15	4,404.90	0.00	0.00	0.00	
11,200.00	89.81	180.95	7,176.35	-4,503.69	126.49	4,504.86	0.00	0.00	0.00	
11,300.00	89.81	180.95	7,176.68	-4,603.67	124.82	4,604.82	0.00	0.00	0.00	
11,400.00	89.81	180.95	7,177.02	-4,703.66	123.15	4,704.78	0.00	0.00	0.00	
11,500.00	89.81	180.95	7,177.35	-4,803.64	121.49	4,804.74	0.00	0.00	0.00	
11,600.00	89.81	180.95	7,177.68	-4,903.63	119.82	4,904.70	0.00	0.00	0.00	
11,700.00	89.81	180.95	7,178.02	-5,003.61	118.16	5,004.66	0.00	0.00	0.00	
11,800.00	89.81	180.95	7,178.35	-5,103.60	116.49	5,104.62	0.00	0.00	0.00	
11,900.00	89.81	180.95	7,178.69	-5,203.58	114.82	5,204.57	0.00	0.00	0.00	
12,000.00	89.81	180.95	7,179.02	-5,303.57	113.16	5,304.53	0.00	0.00	0.00	
12,100.00	89.81	180.95	7,179.35	-5,403.56	111.49	5,404.49	0.00	0.00	0.00	
12,200.00	89.81	180.95	7,179.69	-5,503.54	109.83	5,504.45	0.00	0.00	0.00	
12,300.00	89.81	180.95	7,180.02	-5,603.53	108.16	5,604.41	0.00	0.00	0.00	
12,400.00	89.81	180.95	7,180.35	-5,703.51	106.49	5,704.37	0.00	0.00	0.00	
12,500.00	89.81	180.95	7,180.69	-5,803.50	104.83	5,804.33	0.00	0.00	0.00	
12,600.00	89.81	180.95	7,181.02	-5,903.48	103.16	5,904.29	0.00	0.00	0.00	
12,700.00	89.81	180.95	7,181.36	-6,003.47	101.50	6,004.25	0.00	0.00	0.00	
12,800.00	89.81	180.95	7,181.69	-6,103.45	99.83	6,104.21	0.00	0.00	0.00	
12,900.00	89.81	180.95	7,182.02	-6,203.44	98.17	6,204.17	0.00	0.00	0.00	
13,000.00	89.81	180.95	7,182.36	-6,303.43	96.50	6,304.12	0.00	0.00	0.00	
13,100.00	89.81	180.95	7,182.69	-6,403.41	94.83	6,404.08	0.00	0.00	0.00	
13,200.00	89.81	180.95	7,183.03	-6,503.40	93.17	6,504.04	0.00	0.00	0.00	
13,300.00	89.81	180.95	7,183.36	-6,603.38	91.50	6,604.00	0.00	0.00	0.00	
13,400.00	89.81	180.95	7,183.69	-6,703.37	89.84	6,703.96	0.00	0.00	0.00	
13,500.00	89.81	180.95	7,184.03	-6,803.35	88.17	6,803.92	0.00	0.00	0.00	
13,600.00	89.81	180.95	7,184.36	-6,903.34	86.50	6,903.88	0.00	0.00	0.00	
13,700.00	89.81	180.95	7,184.69	-7,003.32	84.84	7,003.84	0.00	0.00	0.00	
13,791.42	89.81	180.95	7,185.00	-7,094.73	83.31	7,095.22	0.00	0.00	0.00	
Dove 6N-13HZ BHL										

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Dove 6N-13HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + rkb @ 4999.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + rkb @ 4999.00ft
Site:	WELD_Dove 3-12 HZ PAD	North Reference:	True
Well:	Dove 6N-13HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Dove 6N-13HZ		
Design:	Dove 6N-13HZ (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									
Dove 6N-13HZ BHL	0.00	0.00	7,185.00	-7,094.73	83.31	1,294,668.28	3,216,055.98	40.139674	-104.727202
- plan hits target center									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name		Casing Diameter	Hole Diameter
(ft)	(ft)			(")	(")
1,000.00	1,000.00	9 5/8"		9-5/8	12-1/4
7,502.24	7,164.00	7"		7	8-3/4

Formations						
Measured Depth	Vertical Depth	Name		Lithology	Dip	Dip Direction
(ft)	(ft)				(°)	(°)
706.00	706.00	Fox Hills				
3,331.43	3,327.00	Parkman				
4,373.40	4,365.00	Sussex				
7,102.66	7,029.00	Sharon Springs				
7,232.93	7,101.00	Niobrara A				