

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_DOVE 27-12HZ PAD

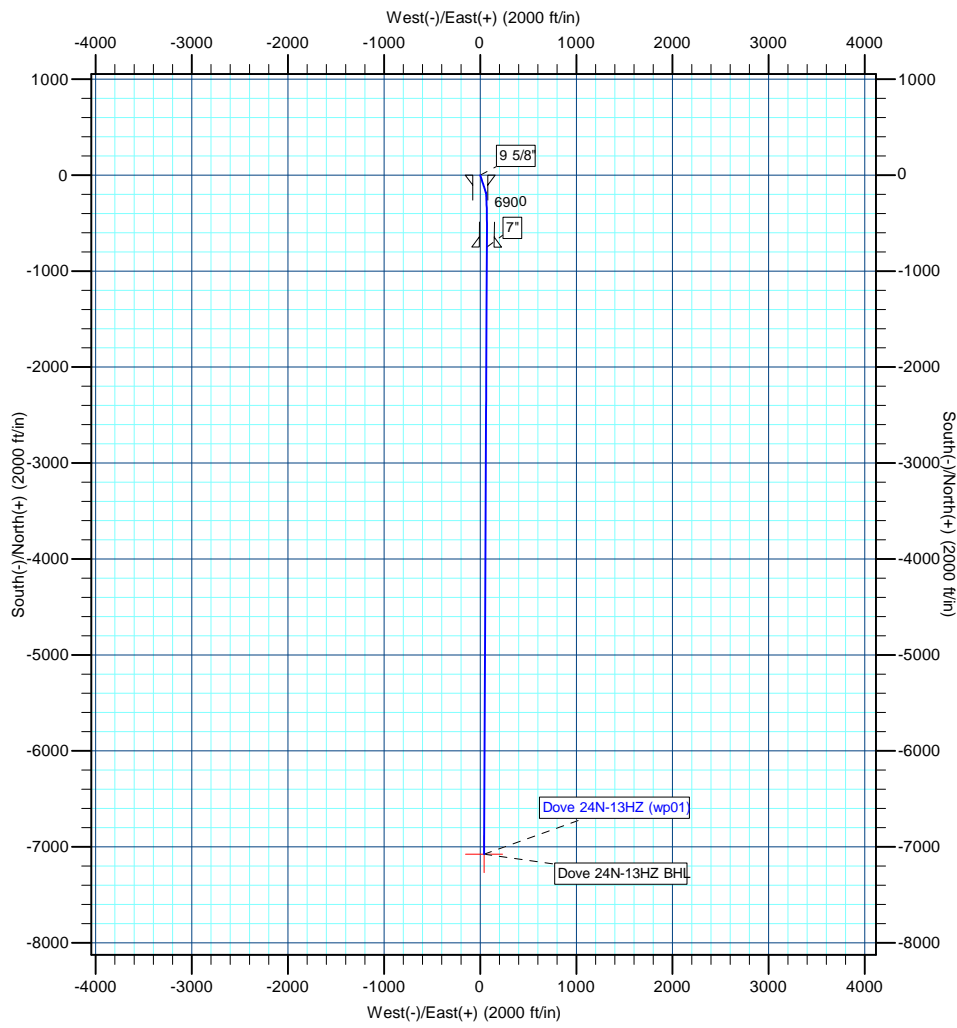
Dove 24N-13HZ

Dove 24N-13HZ

Plan: Dove 24N-13HZ (wp01)

Standard Planning Report

08 February, 2012



Azimuths to True North
 Magnetic North: 8.73°
 Magnetic Field
 Strength: 52939.6snT
 Dip Angle: 66.84°
 Date: 2/8/2012
 Model: IGRF2010



Project: COLORADO NORTHERN ZONE - 83
Site: WELD_DOVE 27-12HZ PAD
Well: Dove 24N-13HZ
Wellbore: Dove 24N-13HZ
Section:
SHL:
Design: Dove 24N-13HZ (wp01)
Latitude: 40.159162
Longitude: -104.720808
GL: 4970.00
KB: gl + rkb @ 4987.00ft

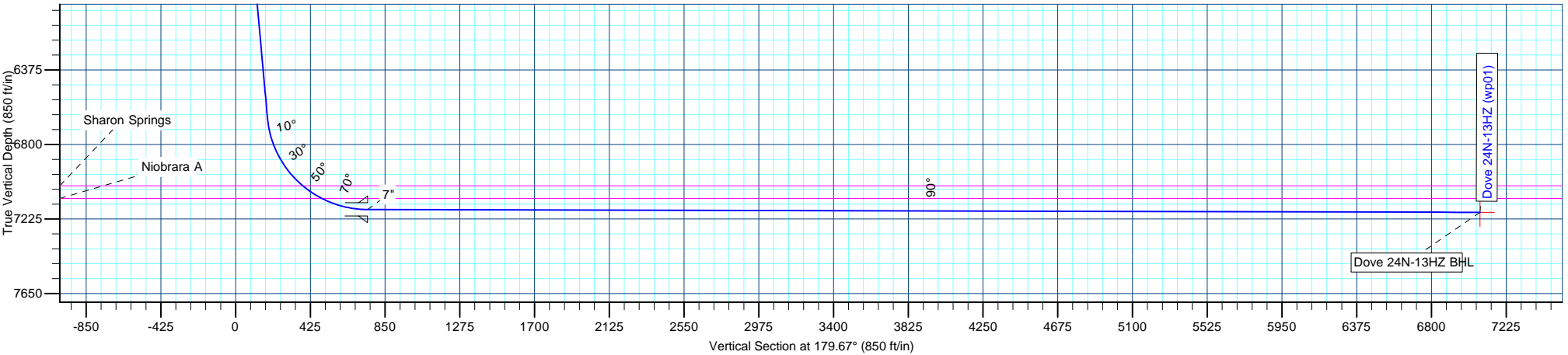
WELL DETAILS: Dove 24N-13HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	4970.00 Latitude	Longitude	Slot
0.00	0.00	1301782.73	3217781.17	40.159162	-104.720808	

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
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00
4769.27	5.39	162.03	4768.88	-12.03	3.90	2.00	162.03	12.05
6658.01	5.39	162.03	6649.27	-180.65	58.60	0.00	0.00	180.98
7505.49	89.86	180.52	7171.00	-750.00	69.00	10.00	18.57	750.38
7531.52	89.86	180.26	7171.07	-776.02	68.82	1.00	-90.00	776.40
7187.00	89.86	180.26	7187.00	-7075.78	40.26	0.00	0.00	7075.89

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Dove 24N-13HZ BHL	7187.00	-7075.78	40.26	40.139738	-104.720664	Point

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
706.00	706.00	Fox Hills
3334.00	3334.00	Parkman
4372.00	4372.00	Sussex
7036.00	7105.37	Sharon Springs
7108.00	7235.67	Niobrara A

CASING DETAILS			
TVD	MD	Name	Size
1000.00	1000.00	9 5/8"	9-5/8
7171.00	7505.49	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Dove 24N-13HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl + rkb @ 4987.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl + rkb @ 4987.00ft
Site:	WELD_DOVE 27-12HZ PAD	North Reference:	True
Well:	Dove 24N-13HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Dove 24N-13HZ		
Design:	Dove 24N-13HZ (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_DOVE 27-12HZ PAD				
Site Position:	Northing:	1,301,783.37 usft	Latitude:	40.159163	
From:	Lat/Long	Easting:	3,217,811.07 usft	Longitude:	-104.720701
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.50 °

Well	Dove 24N-13HZ					
Well Position	+N/-S	-0.39 ft	Northing:	1,301,782.73 usft	Latitude:	40.159162
	+E/-W	-29.91 ft	Easting:	3,217,781.17 usft	Longitude:	-104.720808
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,970.00 ft

Wellbore	Dove 24N-13HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/8/2012	8.73	66.84	52,940

Design	Dove 24N-13HZ (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	179.67

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	
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,769.27	5.39	162.03	4,768.88	-12.03	3.90	2.00	2.00	0.00	162.03	
6,658.01	5.39	162.03	6,649.27	-180.65	58.60	0.00	0.00	0.00	0.00	
7,505.49	89.86	180.52	7,171.00	-750.00	69.00	10.00	9.97	2.18	18.57	
7,531.52	89.86	180.26	7,171.07	-776.02	68.82	1.00	0.00	-1.00	-90.00	
13,831.36	89.86	180.26	7,187.00	-7,075.78	40.26	0.00	0.00	0.00	0.00	Dove 24N-13HZ BHL

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl + rkb @ 4987.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl + rkb @ 4987.00ft
Site:	WELD_DOVE 27-12HZ PAD	North Reference:	True
Well:	Dove 24N-13HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Dove 24N-13HZ		
Design:	Dove 24N-13HZ (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
706.00	0.00	0.00	706.00	0.00	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	0.00
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
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	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
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,334.00	0.00	0.00	3,334.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parkman										
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,372.00	0.00	0.00	4,372.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sussex										
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	2.00	162.03	4,599.98	-1.66	0.54	1.66	2.00	2.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl + rkb @ 4987.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl + rkb @ 4987.00ft
Site:	WELD_DOVE 27-12HZ PAD	North Reference:	True
Well:	Dove 24N-13HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Dove 24N-13HZ		
Design:	Dove 24N-13HZ (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)	
4,700.00	4.00	162.03	4,699.84	-6.64	2.15	6.65	2.00	2.00	0.00	
4,769.27	5.39	162.03	4,768.88	-12.03	3.90	12.05	2.00	2.00	0.00	
4,800.00	5.39	162.03	4,799.47	-14.77	4.79	14.80	0.00	0.00	0.00	
4,900.00	5.39	162.03	4,899.03	-23.70	7.69	23.74	0.00	0.00	0.00	
5,000.00	5.39	162.03	4,998.59	-32.63	10.58	32.69	0.00	0.00	0.00	
5,100.00	5.39	162.03	5,098.14	-41.55	13.48	41.63	0.00	0.00	0.00	
5,200.00	5.39	162.03	5,197.70	-50.48	16.38	50.57	0.00	0.00	0.00	
5,300.00	5.39	162.03	5,297.26	-59.41	19.27	59.52	0.00	0.00	0.00	
5,400.00	5.39	162.03	5,396.82	-68.34	22.17	68.46	0.00	0.00	0.00	
5,500.00	5.39	162.03	5,496.38	-77.26	25.07	77.41	0.00	0.00	0.00	
5,600.00	5.39	162.03	5,595.94	-86.19	27.96	86.35	0.00	0.00	0.00	
5,700.00	5.39	162.03	5,695.50	-95.12	30.86	95.29	0.00	0.00	0.00	
5,800.00	5.39	162.03	5,795.05	-104.05	33.75	104.24	0.00	0.00	0.00	
5,900.00	5.39	162.03	5,894.61	-112.97	36.65	113.18	0.00	0.00	0.00	
6,000.00	5.39	162.03	5,994.17	-121.90	39.55	122.13	0.00	0.00	0.00	
6,100.00	5.39	162.03	6,093.73	-130.83	42.44	131.07	0.00	0.00	0.00	
6,200.00	5.39	162.03	6,193.29	-139.76	45.34	140.01	0.00	0.00	0.00	
6,300.00	5.39	162.03	6,292.85	-148.68	48.24	148.96	0.00	0.00	0.00	
6,400.00	5.39	162.03	6,392.41	-157.61	51.13	157.90	0.00	0.00	0.00	
6,500.00	5.39	162.03	6,491.96	-166.54	54.03	166.84	0.00	0.00	0.00	
6,600.00	5.39	162.03	6,591.52	-175.47	56.92	175.79	0.00	0.00	0.00	
6,658.01	5.39	162.03	6,649.27	-180.65	58.60	180.98	0.00	0.00	0.00	
6,700.00	9.46	170.18	6,690.91	-185.92	59.80	186.26	10.00	9.70	19.43	
6,800.00	19.38	175.65	6,787.64	-210.63	62.47	210.98	10.00	9.92	5.46	
6,900.00	29.35	177.48	6,878.62	-251.76	64.81	252.12	10.00	9.97	1.83	
7,000.00	39.34	178.43	6,961.08	-308.07	66.77	308.44	10.00	9.99	0.96	
7,100.00	49.33	179.05	7,032.52	-377.84	68.26	378.23	10.00	9.99	0.62	
7,105.37	49.86	179.08	7,036.00	-381.93	68.33	382.31	10.00	9.99	0.52	
Sharon Springs										
7,200.00	59.32	179.51	7,090.77	-458.97	69.26	459.36	10.00	9.99	0.45	
7,235.67	62.89	179.65	7,108.00	-490.19	69.49	490.58	10.00	9.99	0.39	
Niobrara A										
7,300.00	69.32	179.88	7,134.05	-548.97	69.73	549.36	10.00	9.99	0.36	
7,400.00	79.31	180.20	7,161.05	-645.13	69.66	645.51	10.00	10.00	0.32	
7,500.00	89.31	180.50	7,170.96	-744.51	69.05	744.89	10.00	10.00	0.30	
7,505.49	89.85	180.52	7,171.00	-750.00	69.00	750.38	10.00	10.00	0.30	
7"										
7,531.52	89.86	180.26	7,171.07	-776.02	68.82	776.40	1.00	0.00	-1.00	
7,600.00	89.86	180.26	7,171.24	-844.50	68.51	844.88	0.00	0.00	0.00	
7,700.00	89.86	180.26	7,171.49	-944.50	68.06	944.87	0.00	0.00	0.00	
7,800.00	89.86	180.26	7,171.75	-1,044.50	67.61	1,044.87	0.00	0.00	0.00	
7,900.00	89.86	180.26	7,172.00	-1,144.50	67.15	1,144.86	0.00	0.00	0.00	
8,000.00	89.86	180.26	7,172.25	-1,244.50	66.70	1,244.86	0.00	0.00	0.00	
8,100.00	89.86	180.26	7,172.50	-1,344.50	66.25	1,344.85	0.00	0.00	0.00	
8,200.00	89.86	180.26	7,172.76	-1,444.50	65.79	1,444.85	0.00	0.00	0.00	
8,300.00	89.86	180.26	7,173.01	-1,544.49	65.34	1,544.84	0.00	0.00	0.00	
8,400.00	89.86	180.26	7,173.26	-1,644.49	64.89	1,644.84	0.00	0.00	0.00	
8,500.00	89.86	180.26	7,173.52	-1,744.49	64.43	1,744.83	0.00	0.00	0.00	
8,600.00	89.86	180.26	7,173.77	-1,844.49	63.98	1,844.82	0.00	0.00	0.00	
8,700.00	89.86	180.26	7,174.02	-1,944.49	63.53	1,944.82	0.00	0.00	0.00	
8,800.00	89.86	180.26	7,174.27	-2,044.49	63.07	2,044.81	0.00	0.00	0.00	
8,900.00	89.86	180.26	7,174.53	-2,144.49	62.62	2,144.81	0.00	0.00	0.00	
9,000.00	89.86	180.26	7,174.78	-2,244.49	62.16	2,244.80	0.00	0.00	0.00	

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Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl + rkb @ 4987.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl + rkb @ 4987.00ft
Site:	WELD_DOVE 27-12HZ PAD	North Reference:	True
Well:	Dove 24N-13HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Dove 24N-13HZ		
Design:	Dove 24N-13HZ (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)	
9,100.00	89.86	180.26	7,175.03	-2,344.48	61.71	2,344.80	0.00	0.00	0.00	
9,200.00	89.86	180.26	7,175.29	-2,444.48	61.26	2,444.79	0.00	0.00	0.00	
9,300.00	89.86	180.26	7,175.54	-2,544.48	60.80	2,544.79	0.00	0.00	0.00	
9,400.00	89.86	180.26	7,175.79	-2,644.48	60.35	2,644.78	0.00	0.00	0.00	
9,500.00	89.86	180.26	7,176.04	-2,744.48	59.90	2,744.78	0.00	0.00	0.00	
9,600.00	89.86	180.26	7,176.30	-2,844.48	59.44	2,844.77	0.00	0.00	0.00	
9,700.00	89.86	180.26	7,176.55	-2,944.48	58.99	2,944.76	0.00	0.00	0.00	
9,800.00	89.86	180.26	7,176.80	-3,044.47	58.54	3,044.76	0.00	0.00	0.00	
9,900.00	89.86	180.26	7,177.06	-3,144.47	58.08	3,144.75	0.00	0.00	0.00	
10,000.00	89.86	180.26	7,177.31	-3,244.47	57.63	3,244.75	0.00	0.00	0.00	
10,100.00	89.86	180.26	7,177.56	-3,344.47	57.18	3,344.74	0.00	0.00	0.00	
10,200.00	89.86	180.26	7,177.82	-3,444.47	56.72	3,444.74	0.00	0.00	0.00	
10,300.00	89.86	180.26	7,178.07	-3,544.47	56.27	3,544.73	0.00	0.00	0.00	
10,400.00	89.86	180.26	7,178.32	-3,644.47	55.82	3,644.73	0.00	0.00	0.00	
10,500.00	89.86	180.26	7,178.57	-3,744.47	55.36	3,744.72	0.00	0.00	0.00	
10,600.00	89.86	180.26	7,178.83	-3,844.46	54.91	3,844.71	0.00	0.00	0.00	
10,700.00	89.86	180.26	7,179.08	-3,944.46	54.46	3,944.71	0.00	0.00	0.00	
10,800.00	89.86	180.26	7,179.33	-4,044.46	54.00	4,044.70	0.00	0.00	0.00	
10,900.00	89.86	180.26	7,179.59	-4,144.46	53.55	4,144.70	0.00	0.00	0.00	
11,000.00	89.86	180.26	7,179.84	-4,244.46	53.10	4,244.69	0.00	0.00	0.00	
11,100.00	89.86	180.26	7,180.09	-4,344.46	52.64	4,344.69	0.00	0.00	0.00	
11,200.00	89.86	180.26	7,180.34	-4,444.46	52.19	4,444.68	0.00	0.00	0.00	
11,300.00	89.86	180.26	7,180.60	-4,544.45	51.74	4,544.68	0.00	0.00	0.00	
11,400.00	89.86	180.26	7,180.85	-4,644.45	51.28	4,644.67	0.00	0.00	0.00	
11,500.00	89.86	180.26	7,181.10	-4,744.45	50.83	4,744.66	0.00	0.00	0.00	
11,600.00	89.86	180.26	7,181.36	-4,844.45	50.38	4,844.66	0.00	0.00	0.00	
11,700.00	89.86	180.26	7,181.61	-4,944.45	49.92	4,944.65	0.00	0.00	0.00	
11,800.00	89.86	180.26	7,181.86	-5,044.45	49.47	5,044.65	0.00	0.00	0.00	
11,900.00	89.86	180.26	7,182.12	-5,144.45	49.02	5,144.64	0.00	0.00	0.00	
12,000.00	89.86	180.26	7,182.37	-5,244.45	48.56	5,244.64	0.00	0.00	0.00	
12,100.00	89.86	180.26	7,182.62	-5,344.44	48.11	5,344.63	0.00	0.00	0.00	
12,200.00	89.86	180.26	7,182.87	-5,444.44	47.66	5,444.63	0.00	0.00	0.00	
12,300.00	89.86	180.26	7,183.13	-5,544.44	47.20	5,544.62	0.00	0.00	0.00	
12,400.00	89.86	180.26	7,183.38	-5,644.44	46.75	5,644.61	0.00	0.00	0.00	
12,500.00	89.86	180.26	7,183.63	-5,744.44	46.30	5,744.61	0.00	0.00	0.00	
12,600.00	89.86	180.26	7,183.89	-5,844.44	45.84	5,844.60	0.00	0.00	0.00	
12,700.00	89.86	180.26	7,184.14	-5,944.44	45.39	5,944.60	0.00	0.00	0.00	
12,800.00	89.86	180.26	7,184.39	-6,044.43	44.94	6,044.59	0.00	0.00	0.00	
12,900.00	89.86	180.26	7,184.64	-6,144.43	44.48	6,144.59	0.00	0.00	0.00	
13,000.00	89.86	180.26	7,184.90	-6,244.43	44.03	6,244.58	0.00	0.00	0.00	
13,100.00	89.86	180.26	7,185.15	-6,344.43	43.58	6,344.58	0.00	0.00	0.00	
13,200.00	89.86	180.26	7,185.40	-6,444.43	43.12	6,444.57	0.00	0.00	0.00	
13,300.00	89.86	180.26	7,185.66	-6,544.43	42.67	6,544.56	0.00	0.00	0.00	
13,400.00	89.86	180.26	7,185.91	-6,644.43	42.22	6,644.56	0.00	0.00	0.00	
13,500.00	89.86	180.26	7,186.16	-6,744.42	41.76	6,744.55	0.00	0.00	0.00	
13,600.00	89.86	180.26	7,186.41	-6,844.42	41.31	6,844.55	0.00	0.00	0.00	
13,700.00	89.86	180.26	7,186.67	-6,944.42	40.86	6,944.54	0.00	0.00	0.00	
13,800.00	89.86	180.26	7,186.92	-7,044.42	40.40	7,044.54	0.00	0.00	0.00	
13,831.36	89.86	180.26	7,187.00	-7,075.78	40.26	7,075.89	0.00	0.00	0.00	
Dove 24N-13HZ BHL										

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Dove 24N-13HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl + rkb @ 4987.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl + rkb @ 4987.00ft
Site:	WELD_DOVE 27-12HZ PAD	North Reference:	True
Well:	Dove 24N-13HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Dove 24N-13HZ		
Design:	Dove 24N-13HZ (wp01)		

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 24N-13HZ BHL	0.00	0.00	7,187.00	-7,075.78	40.26	1,294,707.59	3,217,883.60	40.139738	-104.720664
- 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	
7,505.49	7,171.00	7"	7	8-3/4	

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
706.00	706.00	Fox Hills				
3,334.00	3,334.00	Parkman				
4,372.00	4,372.00	Sussex				
7,105.37	7,036.00	Sharon Springs				
7,235.67	7,108.00	Niobrara A				