

# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**WELD\_Dove 3-12 HZ PAD**

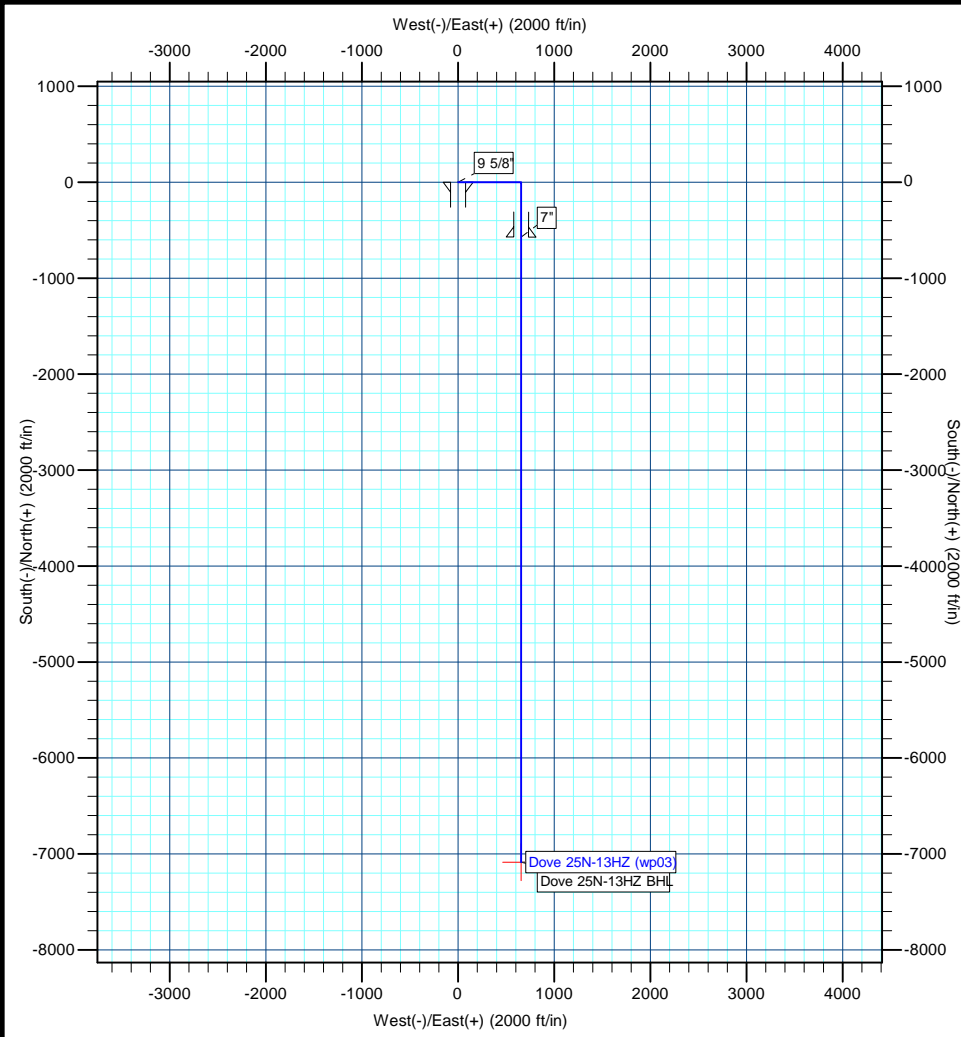
**Dove 25N-13HZ**

**Dove 25N-13HZ**

**Plan: Dove 25N-13HZ (wp03)**

## **Standard Planning Report**

**22 February, 2012**



**Compass Rose:** T (True North), M (Magnetic North)

**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 25N-13HZ  
**Wellbore:** Dove 25N-13HZ  
**Section:**  
**SHL:**  
**Design:** Dove 25N-13HZ (wp03)  
**Latitude:** 40.159150  
**Longitude:** -104.727285  
**GL:** 4982.00  
**KB:** gl + rkb @ 4999.00ft

**WELL DETAILS: Dove 25N-13HZ**

+N/-S	+E/-W	Northing	Ground Level: Easting	4982.00 Latitude	Longitude	Slot
0.00	0.00	1301762.50	3215970.96	40.159150	-104.727285	

**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
2500.00	10.00	90.00	2497.47	0.00	43.52	2.00	90.00	4.01
5780.00	10.00	90.00	5727.63	0.00	613.09	0.00	0.00	56.53
6280.00	0.00	0.00	6225.10	0.00	656.61	2.00	180.00	60.54
6649.94	0.00	0.00	6595.04	0.00	656.61	0.00	0.00	60.54
7548.97	89.90	180.00	7168.00	-571.99	656.58	10.00	180.00	630.09
4063.67	89.90	180.00	7179.00	-7086.68	656.17	0.00	0.00	7116.99

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

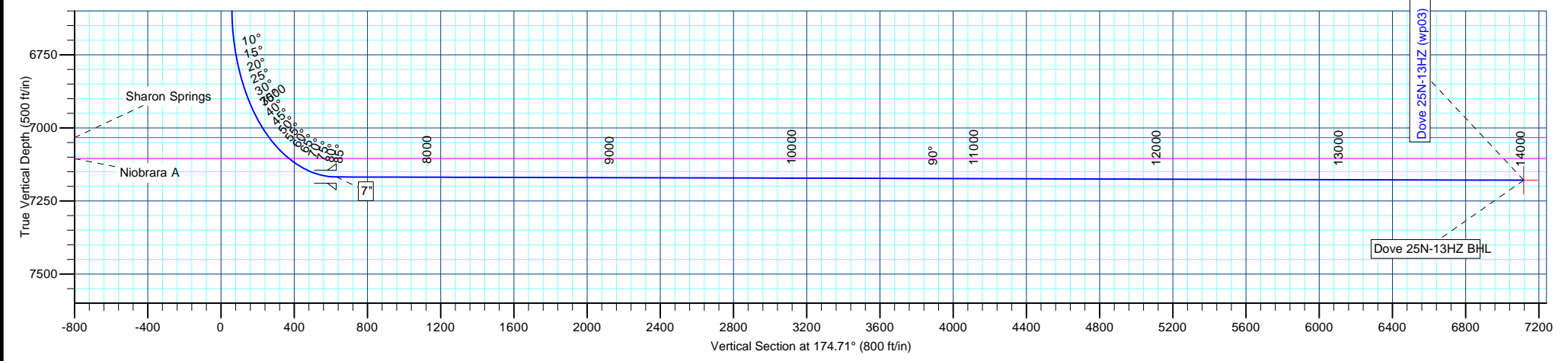
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Dove 25N-13HZ BHL	7179.00	-7086.68	656.17	40.139696	-104.724938	Point

**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
706.00	706.00	Fox Hills
3331.00	3346.39	Parkman
4369.00	4400.41	Sussex
7033.00	7148.46	Sharon Springs
7105.00	7278.73	Niobrara A

**CASING DETAILS**

TVD	MD	Name	Size
1000.00	1000.00	9 5/8"	9-5/8
7168.00	7548.97	7"	7



# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well Dove 25N-13HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	gl + rkb @ 4999.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	gl + rkb @ 4999.00ft
<b>Site:</b>	WELD_Dove 3-12 HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	Dove 25N-13HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Dove 25N-13HZ		
<b>Design:</b>	Dove 25N-13HZ (wp03)		

<b>Project</b>	COLORADO NORTHERN ZONE - 83		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

<b>Site</b>	WELD_Dove 3-12 HZ PAD				
<b>Site Position:</b>	<b>Northing:</b>	1,301,762.27 usft	<b>Latitude:</b>	40.159150	
<b>From:</b> Lat/Long	<b>Easting:</b>	3,215,940.77 usft	<b>Longitude:</b>	-104.727393	
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.50 °

<b>Well</b>	Dove 25N-13HZ					
<b>Well Position</b>	<b>+N/-S</b>	-0.04 ft	<b>Northing:</b>	1,301,762.50 usft	<b>Latitude:</b>	40.159150
	<b>+E/-W</b>	30.19 ft	<b>Easting:</b>	3,215,970.96 usft	<b>Longitude:</b>	-104.727285
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	4,982.00 ft

<b>Wellbore</b>	Dove 25N-13HZ				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2/9/2012	8.74	66.84	52,939

<b>Design</b>	Dove 25N-13HZ (wp03)			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	174.71

<b>Plan Sections</b>										
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	
2,500.00	10.00	90.00	2,497.47	0.00	43.52	2.00	2.00	0.00	90.00	
5,780.00	10.00	90.00	5,727.63	0.00	613.09	0.00	0.00	0.00	0.00	
6,280.00	0.00	0.00	6,225.10	0.00	656.61	2.00	-2.00	0.00	180.00	
6,649.94	0.00	0.00	6,595.04	0.00	656.61	0.00	0.00	0.00	0.00	
7,548.97	89.90	180.00	7,168.00	-571.99	656.58	10.00	10.00	0.00	180.00	
14,063.67	89.90	180.00	7,179.00	-7,086.68	656.17	0.00	0.00	0.00	0.00	Dove 25N-13HZ BHL

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well Dove 25N-13HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	gl + rkb @ 4999.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	gl + rkb @ 4999.00ft
<b>Site:</b>	WELD_Dove 3-12 HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	Dove 25N-13HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Dove 25N-13HZ		
<b>Design:</b>	Dove 25N-13HZ (wp03)		

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
<b>Fox Hills</b>										
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
<b>9 5/8"</b>										
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	2.00	90.00	2,099.98	0.00	1.75	0.16	2.00	2.00	0.00	0.00
2,200.00	4.00	90.00	2,199.84	0.00	6.98	0.64	2.00	2.00	0.00	0.00
2,300.00	6.00	90.00	2,299.45	0.00	15.69	1.45	2.00	2.00	0.00	0.00
2,400.00	8.00	90.00	2,398.70	0.00	27.88	2.57	2.00	2.00	0.00	0.00
2,500.00	10.00	90.00	2,497.47	0.00	43.52	4.01	2.00	2.00	0.00	0.00
2,600.00	10.00	90.00	2,595.95	0.00	60.89	5.61	0.00	0.00	0.00	0.00
2,700.00	10.00	90.00	2,694.43	0.00	78.25	7.21	0.00	0.00	0.00	0.00
2,800.00	10.00	90.00	2,792.91	0.00	95.62	8.82	0.00	0.00	0.00	0.00
2,900.00	10.00	90.00	2,891.39	0.00	112.98	10.42	0.00	0.00	0.00	0.00
3,000.00	10.00	90.00	2,989.87	0.00	130.35	12.02	0.00	0.00	0.00	0.00
3,100.00	10.00	90.00	3,088.35	0.00	147.71	13.62	0.00	0.00	0.00	0.00
3,200.00	10.00	90.00	3,186.83	0.00	165.08	15.22	0.00	0.00	0.00	0.00
3,300.00	10.00	90.00	3,285.31	0.00	182.44	16.82	0.00	0.00	0.00	0.00
3,346.39	10.00	90.00	3,331.00	0.00	190.50	17.56	0.00	0.00	0.00	0.00
<b>Parkman</b>										
3,400.00	10.00	90.00	3,383.79	0.00	199.81	18.42	0.00	0.00	0.00	0.00
3,500.00	10.00	90.00	3,482.27	0.00	217.17	20.02	0.00	0.00	0.00	0.00
3,600.00	10.00	90.00	3,580.75	0.00	234.54	21.62	0.00	0.00	0.00	0.00
3,700.00	10.00	90.00	3,679.23	0.00	251.90	23.22	0.00	0.00	0.00	0.00
3,800.00	10.00	90.00	3,777.72	0.00	269.27	24.83	0.00	0.00	0.00	0.00
3,900.00	10.00	90.00	3,876.20	0.00	286.63	26.43	0.00	0.00	0.00	0.00
4,000.00	10.00	90.00	3,974.68	0.00	303.99	28.03	0.00	0.00	0.00	0.00
4,100.00	10.00	90.00	4,073.16	0.00	321.36	29.63	0.00	0.00	0.00	0.00
4,200.00	10.00	90.00	4,171.64	0.00	338.72	31.23	0.00	0.00	0.00	0.00
4,300.00	10.00	90.00	4,270.12	0.00	356.09	32.83	0.00	0.00	0.00	0.00
4,400.00	10.00	90.00	4,368.60	0.00	373.45	34.43	0.00	0.00	0.00	0.00
4,400.41	10.00	90.00	4,369.00	0.00	373.52	34.44	0.00	0.00	0.00	0.00
<b>Sussex</b>										
4,500.00	10.00	90.00	4,467.08	0.00	390.82	36.03	0.00	0.00	0.00	0.00
4,600.00	10.00	90.00	4,565.56	0.00	408.18	37.63	0.00	0.00	0.00	0.00

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<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	gl + rkb @ 4999.00ft
<b>Site:</b>	WELD_Dove 3-12 HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	Dove 25N-13HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Dove 25N-13HZ		
<b>Design:</b>	Dove 25N-13HZ (wp03)		

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	10.00	90.00	4,664.04	0.00	425.55	39.23	0.00	0.00	0.00
4,800.00	10.00	90.00	4,762.52	0.00	442.91	40.84	0.00	0.00	0.00
4,900.00	10.00	90.00	4,861.00	0.00	460.28	42.44	0.00	0.00	0.00
5,000.00	10.00	90.00	4,959.48	0.00	477.64	44.04	0.00	0.00	0.00
5,100.00	10.00	90.00	5,057.97	0.00	495.01	45.64	0.00	0.00	0.00
5,200.00	10.00	90.00	5,156.45	0.00	512.37	47.24	0.00	0.00	0.00
5,300.00	10.00	90.00	5,254.93	0.00	529.74	48.84	0.00	0.00	0.00
5,400.00	10.00	90.00	5,353.41	0.00	547.10	50.44	0.00	0.00	0.00
5,500.00	10.00	90.00	5,451.89	0.00	564.47	52.04	0.00	0.00	0.00
5,600.00	10.00	90.00	5,550.37	0.00	581.83	53.64	0.00	0.00	0.00
5,700.00	10.00	90.00	5,648.85	0.00	599.20	55.24	0.00	0.00	0.00
5,780.00	10.00	90.00	5,727.63	0.00	613.09	56.53	0.00	0.00	0.00
5,800.00	9.60	90.00	5,747.34	0.00	616.49	56.84	2.00	-2.00	0.00
5,900.00	7.60	90.00	5,846.21	0.00	631.45	58.22	2.00	-2.00	0.00
6,000.00	5.60	90.00	5,945.55	0.00	642.94	59.28	2.00	-2.00	0.00
6,100.00	3.60	90.00	6,045.22	0.00	650.96	60.02	2.00	-2.00	0.00
6,200.00	1.60	90.00	6,145.11	0.00	655.49	60.44	2.00	-2.00	0.00
6,280.00	0.00	0.00	6,225.10	0.00	656.61	60.54	2.00	-2.00	-112.50
6,300.00	0.00	0.00	6,245.10	0.00	656.61	60.54	0.00	0.00	0.00
6,400.00	0.00	0.00	6,345.10	0.00	656.61	60.54	0.00	0.00	0.00
6,500.00	0.00	0.00	6,445.10	0.00	656.61	60.54	0.00	0.00	0.00
6,600.00	0.00	0.00	6,545.10	0.00	656.61	60.54	0.00	0.00	0.00
6,649.94	0.00	0.00	6,595.04	0.00	656.61	60.54	0.00	0.00	0.00
6,700.00	5.01	180.00	6,645.04	-2.19	656.61	62.71	10.00	10.00	-359.56
6,800.00	15.01	180.00	6,743.39	-19.54	656.61	79.99	10.00	10.00	0.00
6,900.00	25.01	180.00	6,837.24	-53.71	656.61	114.02	10.00	10.00	0.00
7,000.00	35.01	180.00	6,923.72	-103.65	656.60	163.75	10.00	10.00	0.00
7,100.00	45.01	180.00	7,000.23	-167.86	656.60	227.68	10.00	10.00	0.00
7,148.46	49.85	180.00	7,033.00	-203.54	656.60	263.21	10.00	10.00	0.00
<b>Sharon Springs</b>									
7,200.00	55.01	180.00	7,064.41	-244.37	656.60	303.87	10.00	10.00	0.00
7,278.73	62.88	180.00	7,105.00	-311.76	656.59	370.97	10.00	10.00	0.00
<b>Niobrara A</b>									
7,300.00	65.01	180.00	7,114.34	-330.87	656.59	390.00	10.00	10.00	0.00
7,400.00	75.01	180.00	7,148.49	-424.72	656.59	483.45	10.00	10.00	0.00
7,500.00	85.01	180.00	7,165.82	-523.08	656.58	581.39	10.00	10.00	0.00
7,548.97	89.90	180.00	7,168.00	-571.99	656.58	630.09	10.00	10.00	0.00
<b>7"</b>									
7,600.00	89.90	180.00	7,168.08	-623.02	656.57	680.90	0.00	0.00	0.00
7,700.00	89.90	180.00	7,168.25	-723.02	656.57	780.47	0.00	0.00	0.00
7,800.00	89.90	180.00	7,168.42	-823.02	656.56	880.05	0.00	0.00	0.00
7,900.00	89.90	180.00	7,168.59	-923.02	656.55	979.62	0.00	0.00	0.00
8,000.00	89.90	180.00	7,168.76	-1,023.02	656.55	1,079.19	0.00	0.00	0.00
8,100.00	89.90	180.00	7,168.93	-1,123.02	656.54	1,178.77	0.00	0.00	0.00
8,200.00	89.90	180.00	7,169.10	-1,223.02	656.54	1,278.34	0.00	0.00	0.00
8,300.00	89.90	180.00	7,169.27	-1,323.02	656.53	1,377.91	0.00	0.00	0.00
8,400.00	89.90	180.00	7,169.44	-1,423.02	656.52	1,477.49	0.00	0.00	0.00
8,500.00	89.90	180.00	7,169.60	-1,523.02	656.52	1,577.06	0.00	0.00	0.00
8,600.00	89.90	180.00	7,169.77	-1,623.02	656.51	1,676.63	0.00	0.00	0.00
8,700.00	89.90	180.00	7,169.94	-1,723.02	656.51	1,776.21	0.00	0.00	0.00
8,800.00	89.90	180.00	7,170.11	-1,823.02	656.50	1,875.78	0.00	0.00	0.00
8,900.00	89.90	180.00	7,170.28	-1,923.02	656.49	1,975.35	0.00	0.00	0.00
9,000.00	89.90	180.00	7,170.45	-2,023.02	656.49	2,074.93	0.00	0.00	0.00

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well Dove 25N-13HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	gl + rkb @ 4999.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	gl + rkb @ 4999.00ft
<b>Site:</b>	WELD_Dove 3-12 HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	Dove 25N-13HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Dove 25N-13HZ		
<b>Design:</b>	Dove 25N-13HZ (wp03)		

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	89.90	180.00	7,170.62	-2,123.01	656.48	2,174.50	0.00	0.00	0.00
9,200.00	89.90	180.00	7,170.79	-2,223.01	656.47	2,274.07	0.00	0.00	0.00
9,300.00	89.90	180.00	7,170.96	-2,323.01	656.47	2,373.65	0.00	0.00	0.00
9,400.00	89.90	180.00	7,171.12	-2,423.01	656.46	2,473.22	0.00	0.00	0.00
9,500.00	89.90	180.00	7,171.29	-2,523.01	656.46	2,572.79	0.00	0.00	0.00
9,600.00	89.90	180.00	7,171.46	-2,623.01	656.45	2,672.37	0.00	0.00	0.00
9,700.00	89.90	180.00	7,171.63	-2,723.01	656.44	2,771.94	0.00	0.00	0.00
9,800.00	89.90	180.00	7,171.80	-2,823.01	656.44	2,871.51	0.00	0.00	0.00
9,900.00	89.90	180.00	7,171.97	-2,923.01	656.43	2,971.09	0.00	0.00	0.00
10,000.00	89.90	180.00	7,172.14	-3,023.01	656.43	3,070.66	0.00	0.00	0.00
10,100.00	89.90	180.00	7,172.31	-3,123.01	656.42	3,170.23	0.00	0.00	0.00
10,200.00	89.90	180.00	7,172.48	-3,223.01	656.41	3,269.81	0.00	0.00	0.00
10,300.00	89.90	180.00	7,172.64	-3,323.01	656.41	3,369.38	0.00	0.00	0.00
10,400.00	89.90	180.00	7,172.81	-3,423.01	656.40	3,468.95	0.00	0.00	0.00
10,500.00	89.90	180.00	7,172.98	-3,523.01	656.39	3,568.53	0.00	0.00	0.00
10,600.00	89.90	180.00	7,173.15	-3,623.01	656.39	3,668.10	0.00	0.00	0.00
10,700.00	89.90	180.00	7,173.32	-3,723.01	656.38	3,767.67	0.00	0.00	0.00
10,800.00	89.90	180.00	7,173.49	-3,823.01	656.38	3,867.25	0.00	0.00	0.00
10,900.00	89.90	180.00	7,173.66	-3,923.01	656.37	3,966.82	0.00	0.00	0.00
11,000.00	89.90	180.00	7,173.83	-4,023.01	656.36	4,066.39	0.00	0.00	0.00
11,100.00	89.90	180.00	7,174.00	-4,123.01	656.36	4,165.97	0.00	0.00	0.00
11,200.00	89.90	180.00	7,174.16	-4,223.01	656.35	4,265.54	0.00	0.00	0.00
11,300.00	89.90	180.00	7,174.33	-4,323.01	656.35	4,365.11	0.00	0.00	0.00
11,400.00	89.90	180.00	7,174.50	-4,423.01	656.34	4,464.69	0.00	0.00	0.00
11,500.00	89.90	180.00	7,174.67	-4,523.01	656.33	4,564.26	0.00	0.00	0.00
11,600.00	89.90	180.00	7,174.84	-4,623.01	656.33	4,663.83	0.00	0.00	0.00
11,700.00	89.90	180.00	7,175.01	-4,723.01	656.32	4,763.41	0.00	0.00	0.00
11,800.00	89.90	180.00	7,175.18	-4,823.01	656.31	4,862.98	0.00	0.00	0.00
11,900.00	89.90	180.00	7,175.35	-4,923.01	656.31	4,962.55	0.00	0.00	0.00
12,000.00	89.90	180.00	7,175.52	-5,023.01	656.30	5,062.13	0.00	0.00	0.00
12,100.00	89.90	180.00	7,175.68	-5,123.01	656.30	5,161.70	0.00	0.00	0.00
12,200.00	89.90	180.00	7,175.85	-5,223.01	656.29	5,261.27	0.00	0.00	0.00
12,300.00	89.90	180.00	7,176.02	-5,323.01	656.28	5,360.85	0.00	0.00	0.00
12,400.00	89.90	180.00	7,176.19	-5,423.01	656.28	5,460.42	0.00	0.00	0.00
12,500.00	89.90	180.00	7,176.36	-5,523.01	656.27	5,559.99	0.00	0.00	0.00
12,600.00	89.90	180.00	7,176.53	-5,623.01	656.27	5,659.57	0.00	0.00	0.00
12,700.00	89.90	180.00	7,176.70	-5,723.01	656.26	5,759.14	0.00	0.00	0.00
12,800.00	89.90	180.00	7,176.87	-5,823.01	656.25	5,858.71	0.00	0.00	0.00
12,900.00	89.90	180.00	7,177.04	-5,923.01	656.25	5,958.29	0.00	0.00	0.00
13,000.00	89.90	180.00	7,177.20	-6,023.01	656.24	6,057.86	0.00	0.00	0.00
13,100.00	89.90	180.00	7,177.37	-6,123.01	656.23	6,157.43	0.00	0.00	0.00
13,200.00	89.90	180.00	7,177.54	-6,223.01	656.23	6,257.01	0.00	0.00	0.00
13,300.00	89.90	180.00	7,177.71	-6,323.01	656.22	6,356.58	0.00	0.00	0.00
13,400.00	89.90	180.00	7,177.88	-6,423.01	656.22	6,456.15	0.00	0.00	0.00
13,500.00	89.90	180.00	7,178.05	-6,523.01	656.21	6,555.73	0.00	0.00	0.00
13,600.00	89.90	180.00	7,178.22	-6,623.01	656.20	6,655.30	0.00	0.00	0.00
13,700.00	89.90	180.00	7,178.39	-6,723.01	656.20	6,754.87	0.00	0.00	0.00
13,800.00	89.90	180.00	7,178.55	-6,823.01	656.19	6,854.45	0.00	0.00	0.00
13,900.00	89.90	180.00	7,178.72	-6,923.01	656.19	6,954.02	0.00	0.00	0.00
14,000.00	89.90	180.00	7,178.89	-7,023.01	656.18	7,053.59	0.00	0.00	0.00
14,063.67	89.90	180.00	7,179.00	-7,086.68	656.17	7,116.99	0.00	0.00	0.00
<b>Dove 25N-13HZ BHL</b>									

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well Dove 25N-13HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	gl + rkb @ 4999.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	gl + rkb @ 4999.00ft
<b>Site:</b>	WELD_Dove 3-12 HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	Dove 25N-13HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Dove 25N-13HZ		
<b>Design:</b>	Dove 25N-13HZ (wp03)		

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 25N-13HZ BHL	0.00	0.00	7,179.00	-7,086.68	656.17	1,294,681.82	3,216,688.86	40.139696	-104.724938
- 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	
7,548.97	7,168.00	7"	7	8-3/4	

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
706.00	706.00	Fox Hills				
3,346.39	3,331.00	Parkman				
4,400.41	4,369.00	Sussex				
7,148.46	7,033.00	Sharon Springs				
7,278.73	7,105.00	Niobrara A				