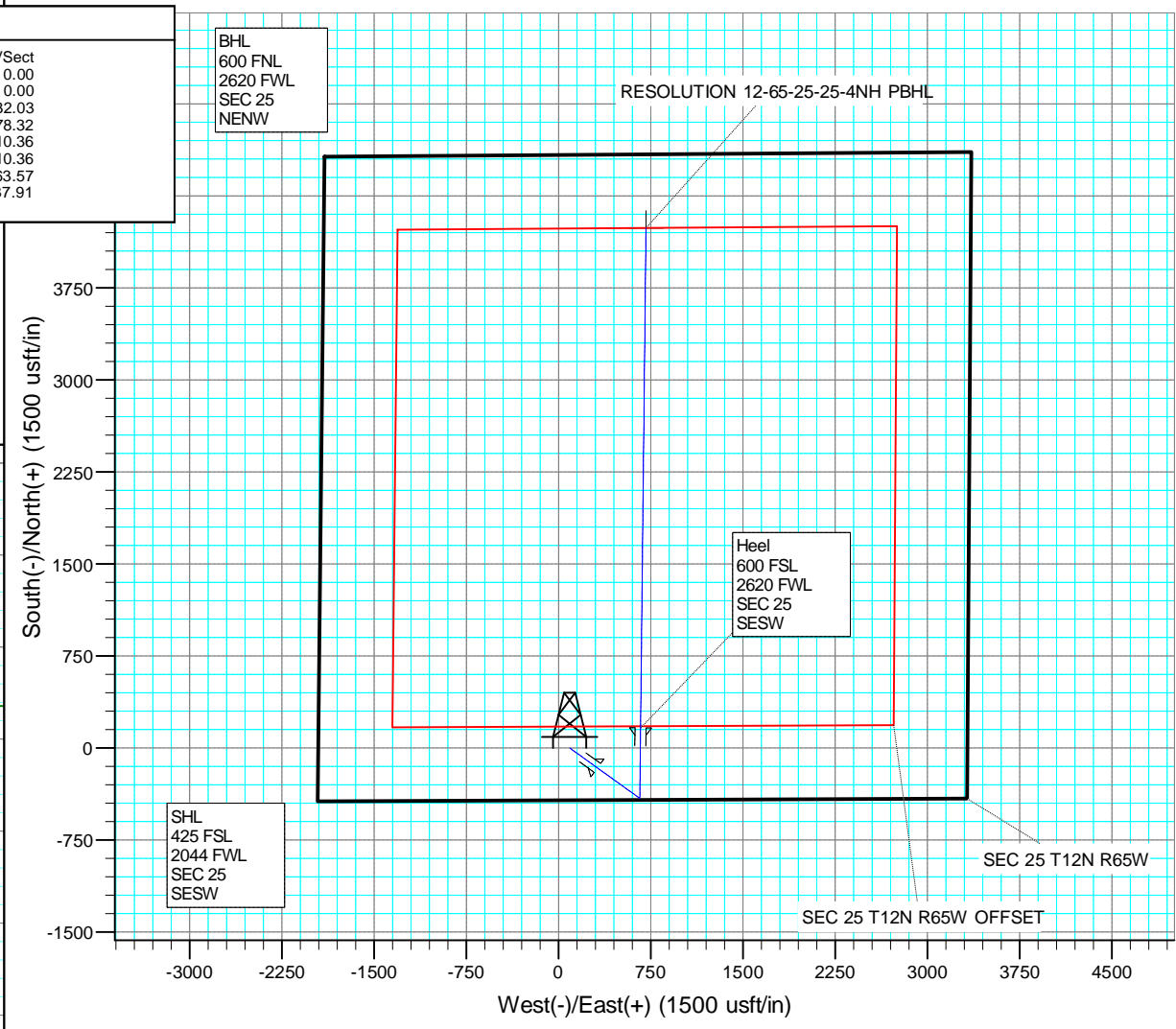
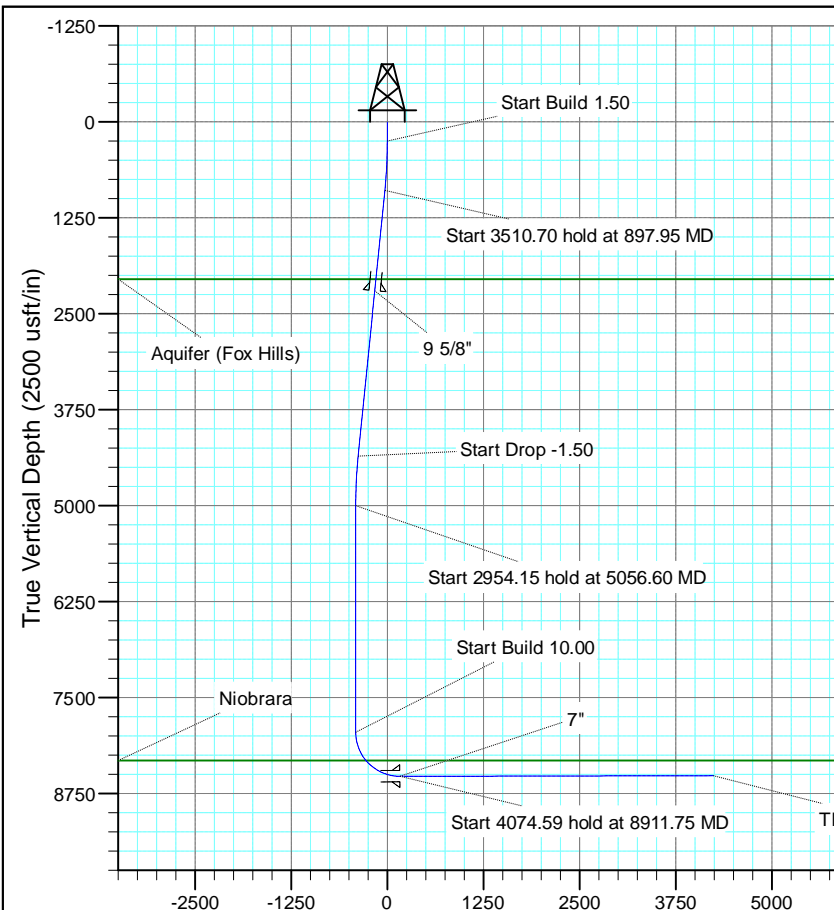


+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.36	90.03	1598307.15	3245256.73	40.972341	-104.611885

SECTION DETAILS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.36	90.03	0.00	0.00	0.00
250.00	0.00	0.00	250.00	0.36	90.03	0.00	0.00	0.00
897.95	9.72	125.75	894.84	-31.68	134.52	1.50	125.75	-32.03
4408.65	9.72	125.75	4355.16	-377.97	615.51	0.00	0.00	-378.32
5056.60	0.00	0.00	5000.00	-410.00	660.00	1.50	180.00	-410.36
8010.75	0.00	0.00	7954.15	-410.00	660.00	0.00	0.00	-410.36
8911.75	90.10	0.62	8527.11	163.92	666.23	10.00	0.62	163.57
12986.34	90.10	0.62	8520.00	4238.26	710.43	0.00	0.00	4237.91

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2050.00	2069.92	Aquifer (Fox Hills)
8320.00	8407.57	Niobrara



# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**RESOLUTION 12-65-25-25-4NH PAD**

**RESOLUTION 12-65-25-25-4NH**

**Wellbore #1**

**Plan: PLAN #1**

## **Standard Planning Report**

**31 December, 2015**

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Site RESOLUTION 12-65-25-25-4NH PAD
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5940.00usft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5940.00usft (Original Well Elev)
<b>Site:</b>	RESOLUTION 12-65-25-25-4NH PAD	<b>North Reference:</b>	True
<b>Well:</b>	RESOLUTION 12-65-25-25-4NH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	PLAN #1		

<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>	RESOLUTION 12-65-25-25-4NH PAD			
<b>Site Position:</b>		<b>Northing:</b>	1,598,305.89 usft	<b>Latitude:</b> 40.972340
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,245,166.71 usft	<b>Longitude:</b> -104.612211
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b> 0.57 °

Well		RESOLUTION 12-65-25-25-4NH				
Well Position	+N/-S	0.36 usft	Northing:	1,598,307.15 usft	Latitude:	40.972341
	+E/-W	90.03 usft	Easting:	3,245,256.73 usft	Longitude:	-104.611885
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	5,914.00 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	12/31/2009	8.99	67.60	53,609

<b>Design</b>	PLAN #1			
<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) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.36	90.03	0.00

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.36	90.03	0.00	0.00	0.00	0.00	
250.00	0.00	0.00	250.00	0.36	90.03	0.00	0.00	0.00	0.00	
897.95	9.72	125.75	894.84	-31.68	134.52	1.50	1.50	0.00	125.75	
4,408.65	9.72	125.75	4,355.16	-377.97	615.51	0.00	0.00	0.00	0.00	
5,056.60	0.00	0.00	5,000.00	-410.00	660.00	1.50	-1.50	0.00	180.00	
8,010.75	0.00	0.00	7,954.15	-410.00	660.00	0.00	0.00	0.00	0.00	
8,911.75	90.10	0.62	8,527.11	163.92	666.23	10.00	10.00	0.00	0.62	
12,986.34	90.10	0.62	8,520.00	4,238.26	710.43	0.00	0.00	0.00	0.00	RESOLUTION 12-65-

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Site RESOLUTION 12-65-25-25-4NH PAD
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5940.00usft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5940.00usft (Original Well Elev)
<b>Site:</b>	RESOLUTION 12-65-25-25-4NH PAD	<b>North Reference:</b>	True
<b>Well:</b>	RESOLUTION 12-65-25-25-4NH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	PLAN #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.36	90.03	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.36	90.03	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.36	90.03	0.00	0.00	0.00	0.00
250.00	0.00	0.00	250.00	0.36	90.03	0.00	0.00	0.00	0.00
Start Build 1.50									
300.00	0.75	125.75	300.00	0.17	90.29	-0.19	1.50	1.50	0.00
400.00	2.25	125.75	399.96	-1.36	92.42	-1.72	1.50	1.50	0.00
500.00	3.75	125.75	499.82	-4.42	96.66	-4.78	1.50	1.50	0.00
600.00	5.25	125.75	599.51	-9.01	103.03	-9.36	1.50	1.50	0.00
700.00	6.75	125.75	698.96	-15.11	111.51	-15.47	1.50	1.50	0.00
800.00	8.25	125.75	798.10	-22.74	122.11	-23.10	1.50	1.50	0.00
897.95	9.72	125.75	894.84	-31.68	134.52	-32.03	1.50	1.50	0.00
Start 3510.70 hold at 897.95 MD									
900.00	9.72	125.75	896.87	-31.88	134.80	-32.24	0.00	0.00	0.00
1,000.00	9.72	125.75	995.43	-41.74	148.50	-42.10	0.00	0.00	0.00
1,100.00	9.72	125.75	1,093.99	-51.61	162.20	-51.96	0.00	0.00	0.00
1,200.00	9.72	125.75	1,192.56	-61.47	175.90	-61.83	0.00	0.00	0.00
1,300.00	9.72	125.75	1,291.12	-71.33	189.60	-71.69	0.00	0.00	0.00
1,400.00	9.72	125.75	1,389.69	-81.20	203.30	-81.55	0.00	0.00	0.00
1,500.00	9.72	125.75	1,488.25	-91.06	217.01	-91.42	0.00	0.00	0.00
1,600.00	9.72	125.75	1,586.82	-100.93	230.71	-101.28	0.00	0.00	0.00
1,700.00	9.72	125.75	1,685.38	-110.79	244.41	-111.15	0.00	0.00	0.00
1,800.00	9.72	125.75	1,783.95	-120.65	258.11	-121.01	0.00	0.00	0.00
1,900.00	9.72	125.75	1,882.51	-130.52	271.81	-130.87	0.00	0.00	0.00
2,000.00	9.72	125.75	1,981.08	-140.38	285.51	-140.74	0.00	0.00	0.00
2,069.92	9.72	125.75	2,050.00	-147.28	295.09	-147.64	0.00	0.00	0.00
Aquifer (Fox Hills)									
2,100.00	9.72	125.75	2,079.64	-150.24	299.21	-150.60	0.00	0.00	0.00
2,200.00	9.72	125.75	2,178.20	-160.11	312.91	-160.47	0.00	0.00	0.00
2,222.11	9.72	125.75	2,200.00	-162.29	315.94	-162.65	0.00	0.00	0.00
9 5/8"									
2,300.00	9.72	125.75	2,276.77	-169.97	326.61	-170.33	0.00	0.00	0.00
2,400.00	9.72	125.75	2,375.33	-179.84	340.31	-180.19	0.00	0.00	0.00
2,500.00	9.72	125.75	2,473.90	-189.70	354.01	-190.06	0.00	0.00	0.00
2,599.99	9.72	125.75	2,572.46	-199.56	367.71	-199.92	0.00	0.00	0.00
2,699.99	9.72	125.75	2,671.03	-209.43	381.41	-209.78	0.00	0.00	0.00
2,799.99	9.72	125.75	2,769.59	-219.29	395.11	-219.65	0.00	0.00	0.00
2,899.99	9.72	125.75	2,868.16	-229.16	408.81	-229.51	0.00	0.00	0.00
2,999.99	9.72	125.75	2,966.72	-239.02	422.51	-239.38	0.00	0.00	0.00
3,099.99	9.72	125.75	3,065.28	-248.88	436.21	-249.24	0.00	0.00	0.00
3,199.99	9.72	125.75	3,163.85	-258.75	449.91	-259.10	0.00	0.00	0.00
3,299.99	9.72	125.75	3,262.41	-268.61	463.61	-268.97	0.00	0.00	0.00
3,399.99	9.72	125.75	3,360.98	-278.47	477.32	-278.83	0.00	0.00	0.00
3,499.99	9.72	125.75	3,459.54	-288.34	491.02	-288.70	0.00	0.00	0.00
3,599.99	9.72	125.75	3,558.11	-298.20	504.72	-298.56	0.00	0.00	0.00
3,699.99	9.72	125.75	3,656.67	-308.07	518.42	-308.42	0.00	0.00	0.00
3,799.99	9.72	125.75	3,755.24	-317.93	532.12	-318.29	0.00	0.00	0.00
3,899.99	9.72	125.75	3,853.80	-327.79	545.82	-328.15	0.00	0.00	0.00
3,999.99	9.72	125.75	3,952.37	-337.66	559.52	-338.01	0.00	0.00	0.00
4,099.99	9.72	125.75	4,050.93	-347.52	573.22	-347.88	0.00	0.00	0.00
4,199.99	9.72	125.75	4,149.49	-357.39	586.92	-357.74	0.00	0.00	0.00
4,299.99	9.72	125.75	4,248.06	-367.25	600.62	-367.61	0.00	0.00	0.00
4,399.99	9.72	125.75	4,346.62	-377.11	614.32	-377.47	0.00	0.00	0.00
4,408.65	9.72	125.75	4,355.16	-377.97	615.51	-378.32	0.00	0.00	0.00

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## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Site RESOLUTION 12-65-25-25-4NH PAD
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5940.00usft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5940.00usft (Original Well Elev)
<b>Site:</b>	RESOLUTION 12-65-25-25-4NH PAD	<b>North Reference:</b>	True
<b>Well:</b>	RESOLUTION 12-65-25-25-4NH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	PLAN #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
<b>Start Drop -1.50</b>									
4,499.99	8.35	125.75	4,445.36	-386.35	627.15	-386.70	1.50	-1.50	0.00
4,599.99	6.85	125.75	4,544.48	-394.07	637.88	-394.43	1.50	-1.50	0.00
4,699.99	5.35	125.75	4,643.91	-400.28	646.50	-400.64	1.50	-1.50	0.00
4,799.99	3.85	125.75	4,743.59	-404.97	653.01	-405.32	1.50	-1.50	0.00
4,899.99	2.35	125.75	4,843.44	-408.12	657.40	-408.48	1.50	-1.50	0.00
4,999.99	0.85	125.75	4,943.40	-409.75	659.66	-410.11	1.50	-1.50	0.00
5,056.60	0.00	0.00	5,000.00	-410.00	660.00	-410.36	1.50	-1.50	0.00
<b>Start 2954.15 hold at 5056.60 MD</b>									
5,099.99	0.00	0.00	5,043.39	-410.00	660.00	-410.36	0.00	0.00	0.00
5,199.99	0.00	0.00	5,143.39	-410.00	660.00	-410.36	0.00	0.00	0.00
5,299.99	0.00	0.00	5,243.39	-410.00	660.00	-410.36	0.00	0.00	0.00
5,399.99	0.00	0.00	5,343.39	-410.00	660.00	-410.36	0.00	0.00	0.00
5,499.99	0.00	0.00	5,443.39	-410.00	660.00	-410.36	0.00	0.00	0.00
5,599.99	0.00	0.00	5,543.39	-410.00	660.00	-410.36	0.00	0.00	0.00
5,699.99	0.00	0.00	5,643.39	-410.00	660.00	-410.36	0.00	0.00	0.00
5,799.99	0.00	0.00	5,743.39	-410.00	660.00	-410.36	0.00	0.00	0.00
5,899.99	0.00	0.00	5,843.39	-410.00	660.00	-410.36	0.00	0.00	0.00
5,999.99	0.00	0.00	5,943.39	-410.00	660.00	-410.36	0.00	0.00	0.00
6,099.99	0.00	0.00	6,043.39	-410.00	660.00	-410.36	0.00	0.00	0.00
6,199.99	0.00	0.00	6,143.39	-410.00	660.00	-410.36	0.00	0.00	0.00
6,299.99	0.00	0.00	6,243.39	-410.00	660.00	-410.36	0.00	0.00	0.00
6,399.99	0.00	0.00	6,343.39	-410.00	660.00	-410.36	0.00	0.00	0.00
6,499.99	0.00	0.00	6,443.39	-410.00	660.00	-410.36	0.00	0.00	0.00
6,599.99	0.00	0.00	6,543.39	-410.00	660.00	-410.36	0.00	0.00	0.00
6,699.99	0.00	0.00	6,643.39	-410.00	660.00	-410.36	0.00	0.00	0.00
6,799.99	0.00	0.00	6,743.39	-410.00	660.00	-410.36	0.00	0.00	0.00
6,899.99	0.00	0.00	6,843.39	-410.00	660.00	-410.36	0.00	0.00	0.00
6,999.99	0.00	0.00	6,943.39	-410.00	660.00	-410.36	0.00	0.00	0.00
7,099.99	0.00	0.00	7,043.39	-410.00	660.00	-410.36	0.00	0.00	0.00
7,199.99	0.00	0.00	7,143.39	-410.00	660.00	-410.36	0.00	0.00	0.00
7,299.99	0.00	0.00	7,243.39	-410.00	660.00	-410.36	0.00	0.00	0.00
7,399.99	0.00	0.00	7,343.39	-410.00	660.00	-410.36	0.00	0.00	0.00
7,499.99	0.00	0.00	7,443.39	-410.00	660.00	-410.36	0.00	0.00	0.00
7,599.98	0.00	0.00	7,543.39	-410.00	660.00	-410.36	0.00	0.00	0.00
7,699.98	0.00	0.00	7,643.39	-410.00	660.00	-410.36	0.00	0.00	0.00
7,799.98	0.00	0.00	7,743.39	-410.00	660.00	-410.36	0.00	0.00	0.00
7,899.98	0.00	0.00	7,843.39	-410.00	660.00	-410.36	0.00	0.00	0.00
7,999.98	0.00	0.00	7,943.39	-410.00	660.00	-410.36	0.00	0.00	0.00
8,010.75	0.00	0.00	7,954.15	-410.00	660.00	-410.36	0.00	0.00	0.00
<b>Start Build 10.00</b>									
8,099.98	8.92	0.62	8,043.03	-403.07	660.08	-403.42	10.00	10.00	0.00
8,199.98	18.92	0.62	8,139.97	-379.04	660.34	-379.39	10.00	10.00	0.00
8,299.98	28.92	0.62	8,231.26	-338.54	660.78	-338.89	10.00	10.00	0.00
8,399.98	38.92	0.62	8,314.13	-282.80	661.38	-283.16	10.00	10.00	0.00
8,407.57	39.68	0.62	8,320.00	-278.00	661.43	-278.36	10.00	10.00	0.00
<b>Niobrara</b>									
8,499.98	48.92	0.62	8,386.07	-213.53	662.13	-213.88	10.00	10.00	0.00
8,599.98	58.92	0.62	8,444.88	-132.81	663.01	-133.17	10.00	10.00	0.00
8,699.98	68.92	0.62	8,488.78	-43.11	663.98	-43.47	10.00	10.00	0.00
8,799.98	78.92	0.62	8,516.44	52.85	665.02	52.50	10.00	10.00	0.00
8,899.98	88.92	0.62	8,527.01	152.16	666.10	151.80	10.00	10.00	0.00
8,911.75	90.10	0.62	8,527.11	163.92	666.23	163.57	10.00	10.00	0.00

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Site RESOLUTION 12-65-25-25-4NH PAD
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5940.00usft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5940.00usft (Original Well Elev)
<b>Site:</b>	RESOLUTION 12-65-25-25-4NH PAD	<b>North Reference:</b>	True
<b>Well:</b>	RESOLUTION 12-65-25-25-4NH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	PLAN #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Start 4074.59 hold at 8911.75 MD - 7"									
8,999.98	90.10	0.62	8,526.96	252.15	667.18	251.79	0.00	0.00	0.00
9,099.98	90.10	0.62	8,526.78	352.14	668.27	351.79	0.00	0.00	0.00
9,199.98	90.10	0.62	8,526.61	452.14	669.35	451.78	0.00	0.00	0.00
9,299.98	90.10	0.62	8,526.43	552.13	670.44	551.78	0.00	0.00	0.00
9,399.98	90.10	0.62	8,526.26	652.13	671.52	651.77	0.00	0.00	0.00
9,499.98	90.10	0.62	8,526.09	752.12	672.61	751.76	0.00	0.00	0.00
9,599.98	90.10	0.62	8,525.91	852.11	673.69	851.76	0.00	0.00	0.00
9,699.98	90.10	0.62	8,525.74	952.11	674.78	951.75	0.00	0.00	0.00
9,799.98	90.10	0.62	8,525.56	1,052.10	675.86	1,051.74	0.00	0.00	0.00
9,899.98	90.10	0.62	8,525.39	1,152.09	676.95	1,151.74	0.00	0.00	0.00
9,999.98	90.10	0.62	8,525.21	1,252.09	678.03	1,251.73	0.00	0.00	0.00
10,099.98	90.10	0.62	8,525.04	1,352.08	679.12	1,351.73	0.00	0.00	0.00
10,199.98	90.10	0.62	8,524.86	1,452.08	680.20	1,451.72	0.00	0.00	0.00
10,299.98	90.10	0.62	8,524.69	1,552.07	681.29	1,551.71	0.00	0.00	0.00
10,399.98	90.10	0.62	8,524.51	1,652.06	682.37	1,651.71	0.00	0.00	0.00
10,499.98	90.10	0.62	8,524.34	1,752.06	683.46	1,751.70	0.00	0.00	0.00
10,599.98	90.10	0.62	8,524.17	1,852.05	684.54	1,851.69	0.00	0.00	0.00
10,699.98	90.10	0.62	8,523.99	1,952.04	685.63	1,951.69	0.00	0.00	0.00
10,799.98	90.10	0.62	8,523.82	2,052.04	686.71	2,051.68	0.00	0.00	0.00
10,899.98	90.10	0.62	8,523.64	2,152.03	687.80	2,151.68	0.00	0.00	0.00
10,999.98	90.10	0.62	8,523.47	2,252.03	688.88	2,251.67	0.00	0.00	0.00
11,099.98	90.10	0.62	8,523.29	2,352.02	689.97	2,351.66	0.00	0.00	0.00
11,199.98	90.10	0.62	8,523.12	2,452.01	691.05	2,451.66	0.00	0.00	0.00
11,299.98	90.10	0.62	8,522.94	2,552.01	692.14	2,551.65	0.00	0.00	0.00
11,399.98	90.10	0.62	8,522.77	2,652.00	693.22	2,651.64	0.00	0.00	0.00
11,499.98	90.10	0.62	8,522.59	2,751.99	694.31	2,751.64	0.00	0.00	0.00
11,599.98	90.10	0.62	8,522.42	2,851.99	695.39	2,851.63	0.00	0.00	0.00
11,699.98	90.10	0.62	8,522.25	2,951.98	696.48	2,951.63	0.00	0.00	0.00
11,799.98	90.10	0.62	8,522.07	3,051.98	697.56	3,051.62	0.00	0.00	0.00
11,899.98	90.10	0.62	8,521.90	3,151.97	698.65	3,151.61	0.00	0.00	0.00
11,999.98	90.10	0.62	8,521.72	3,251.96	699.73	3,251.61	0.00	0.00	0.00
12,099.98	90.10	0.62	8,521.55	3,351.96	700.82	3,351.60	0.00	0.00	0.00
12,199.98	90.10	0.62	8,521.37	3,451.95	701.90	3,451.59	0.00	0.00	0.00
12,299.98	90.10	0.62	8,521.20	3,551.95	702.99	3,551.59	0.00	0.00	0.00
12,399.98	90.10	0.62	8,521.02	3,651.94	704.07	3,651.58	0.00	0.00	0.00
12,499.98	90.10	0.62	8,520.85	3,751.93	705.16	3,751.58	0.00	0.00	0.00
12,599.98	90.10	0.62	8,520.67	3,851.93	706.24	3,851.57	0.00	0.00	0.00
12,699.97	90.10	0.62	8,520.50	3,951.92	707.33	3,951.56	0.00	0.00	0.00
12,799.97	90.10	0.62	8,520.33	4,051.91	708.41	4,051.56	0.00	0.00	0.00
12,899.97	90.10	0.62	8,520.15	4,151.91	709.50	4,151.55	0.00	0.00	0.00
12,986.34	90.10	0.62	8,520.00	4,238.26	710.43	4,237.91	0.00	0.00	0.00
TD at 12986.34									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
RESOLUTION 12-65-25	0.00	0.00	8,520.00	4,238.26	710.43	1,602,551.05	3,245,834.68	40.983972	-104.609638
- plan hits target center									
- Point									

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Site RESOLUTION 12-65-25-25-4NH PAD
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5940.00usft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5940.00usft (Original Well Elev)
<b>Site:</b>	RESOLUTION 12-65-25-25-4NH PAD	<b>North Reference:</b>	True
<b>Well:</b>	RESOLUTION 12-65-25-25-4NH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	PLAN #1		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
2,222.11	2,200.00	9 5/8"	9-5/8	12-1/4	
8,911.75	8,527.11	7"	7	7-1/2	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,069.92	2,050.00	Aquifer (Fox Hills)			
8,407.57	8,320.00	Niobrara			

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
250.00	250.00	0.36	90.03	Start Build 1.50	
897.95	894.84	-31.68	134.52	Start 3510.70 hold at 897.95 MD	
4,408.65	4,355.16	-377.97	615.51	Start Drop -1.50	
5,056.60	5,000.00	-410.00	660.00	Start 2954.15 hold at 5056.60 MD	
8,010.75	7,954.15	-410.00	660.00	Start Build 10.00	
8,911.75	8,527.11	163.92	666.23	Start 4074.59 hold at 8911.75 MD	
12,986.34	8,520.00	4,238.26	710.43	TD at 12986.34	