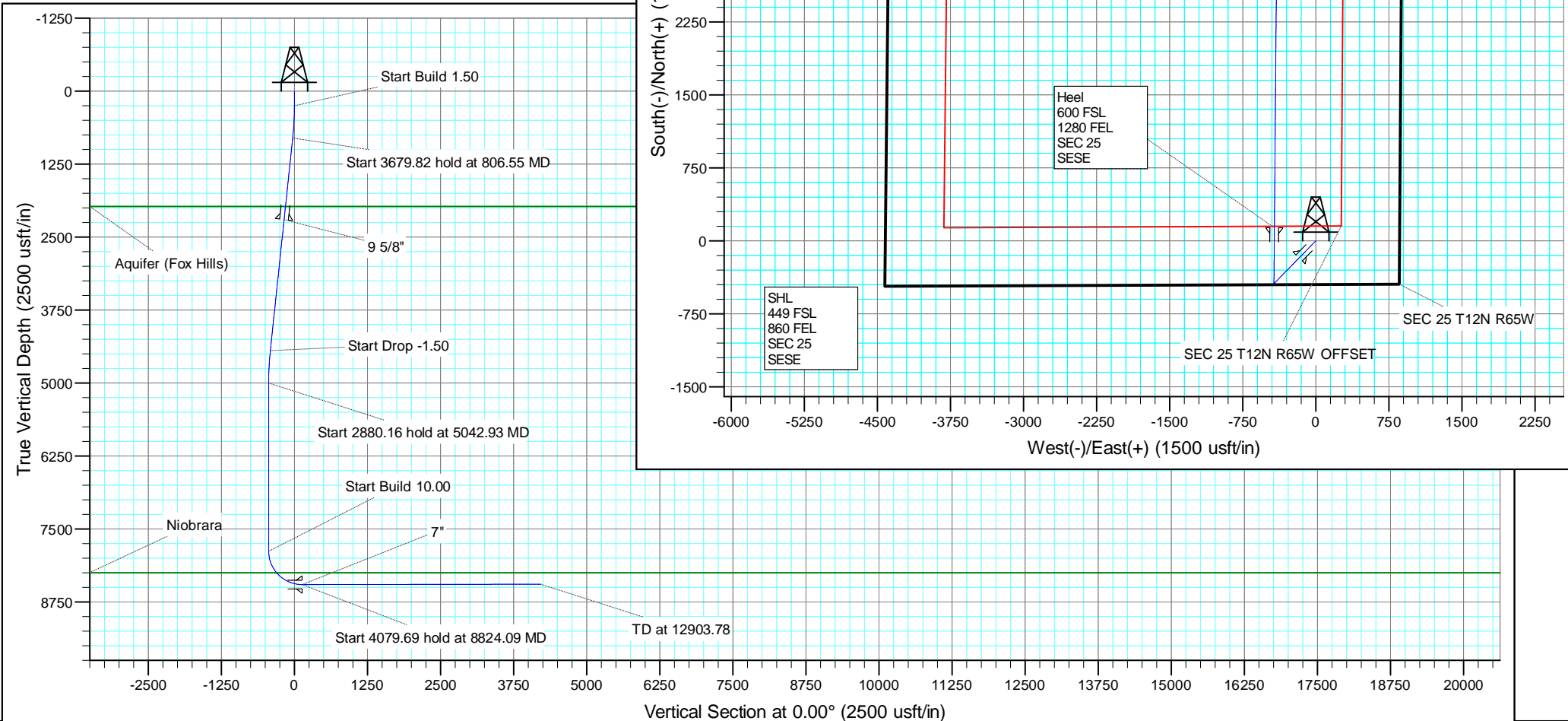


SECTION DETAILS

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
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00
806.55	8.35	224.34	804.59	-28.95	-28.29	1.50	224.34	-28.95
4486.37	8.35	224.34	4445.41	-411.05	-401.71	0.00	0.00	-411.05
5042.93	0.00	0.00	5000.00	-440.00	-430.00	1.50	180.00	-440.00
7923.09	0.00	0.00	7880.16	-440.00	-430.00	0.00	0.00	-440.00
8824.09	90.10	0.48	8453.12	133.94	-425.22	10.00	0.48	133.94
12903.78	90.10	0.48	8446.00	4213.48	-391.25	0.00	0.00	4213.48

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1976.00	1990.51	Aquifer (Fox Hills)
8246.00	8319.89	Niobrara



US ROCKIES REGION PLANNING

**COLORADO NORTHERN ZONE - 83
RESOLUTION 12-65-25-25-6NH PAD
RESOLUTION 12-65-25-25-6NH**

Wellbore #1

Plan: PLAN #1

Standard Planning Report

31 December, 2015

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Site RESOLUTION 12-65-25-25-6NH PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5871.00usft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5871.00usft (Original Well Elev)
Site:	RESOLUTION 12-65-25-25-6NH PAD	North Reference:	True
Well:	RESOLUTION 12-65-25-25-6NH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN #1		

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	RESOLUTION 12-65-25-25-6NH PAD			
Site Position:		Northing:	1,598,364.93 usft	Latitude: 40.972434
From:	Lat/Long	Easting:	3,247,630.13 usft	Longitude: -104.603289
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.58 °

Well	RESOLUTION 12-65-25-25-6NH			
Well Position	+N/-S	0.00 usft	Northing:	1,598,364.93 usft
	+E/-W	0.00 usft	Easting:	3,247,630.13 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft
			Ground Level:	5,845.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	8.98	67.60	53,610

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	0.00

Plan Sections										
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	0.00	0.00	0.00	0.00	0.00	0.00	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	
806.55	8.35	224.34	804.59	-28.95	-28.29	1.50	1.50	0.00	224.34	
4,486.37	8.35	224.34	4,445.41	-411.05	-401.71	0.00	0.00	0.00	0.00	
5,042.93	0.00	0.00	5,000.00	-440.00	-430.00	1.50	-1.50	0.00	180.00	
7,923.09	0.00	0.00	7,880.16	-440.00	-430.00	0.00	0.00	0.00	0.00	
8,824.09	90.10	0.48	8,453.12	133.94	-425.22	10.00	10.00	0.00	0.48	
12,903.78	90.10	0.48	8,446.00	4,213.48	-391.25	0.00	0.00	0.00	0.00	RESOLUTION 12-65-

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Site RESOLUTION 12-65-25-25-6NH PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5871.00usft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5871.00usft (Original Well Elev)
Site:	RESOLUTION 12-65-25-25-6NH PAD	North Reference:	True
Well:	RESOLUTION 12-65-25-25-6NH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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	0.00	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
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50									
300.00	0.75	224.34	300.00	-0.23	-0.23	-0.23	1.50	1.50	0.00
400.00	2.25	224.34	399.96	-2.11	-2.06	-2.11	1.50	1.50	0.00
500.00	3.75	224.34	499.82	-5.85	-5.72	-5.85	1.50	1.50	0.00
600.00	5.25	224.34	599.51	-11.46	-11.20	-11.46	1.50	1.50	0.00
700.00	6.75	224.34	698.96	-18.94	-18.51	-18.94	1.50	1.50	0.00
800.00	8.25	224.34	798.10	-28.27	-27.63	-28.27	1.50	1.50	0.00
806.55	8.35	224.34	804.59	-28.95	-28.29	-28.95	1.50	1.50	0.00
Start 3679.82 hold at 806.55 MD									
900.00	8.35	224.34	897.04	-38.65	-37.77	-38.65	0.00	0.00	0.00
1,000.00	8.35	224.34	995.98	-49.03	-47.92	-49.03	0.00	0.00	0.00
1,100.00	8.35	224.34	1,094.92	-59.42	-58.07	-59.42	0.00	0.00	0.00
1,200.00	8.35	224.34	1,193.86	-69.80	-68.22	-69.80	0.00	0.00	0.00
1,300.00	8.35	224.34	1,292.80	-80.19	-78.36	-80.19	0.00	0.00	0.00
1,400.00	8.35	224.34	1,391.74	-90.57	-88.51	-90.57	0.00	0.00	0.00
1,500.00	8.35	224.34	1,490.68	-100.95	-98.66	-100.95	0.00	0.00	0.00
1,600.00	8.35	224.34	1,589.62	-111.34	-108.81	-111.34	0.00	0.00	0.00
1,700.00	8.35	224.34	1,688.56	-121.72	-118.95	-121.72	0.00	0.00	0.00
1,800.00	8.35	224.34	1,787.50	-132.10	-129.10	-132.10	0.00	0.00	0.00
1,900.00	8.35	224.34	1,886.44	-142.49	-139.25	-142.49	0.00	0.00	0.00
1,990.51	8.35	224.34	1,976.00	-151.89	-148.44	-151.89	0.00	0.00	0.00
Aquifer (Fox Hills)									
2,000.00	8.35	224.34	1,985.38	-152.87	-149.40	-152.87	0.00	0.00	0.00
2,100.00	8.35	224.34	2,084.32	-163.26	-159.55	-163.26	0.00	0.00	0.00
2,200.00	8.35	224.34	2,183.26	-173.64	-169.69	-173.64	0.00	0.00	0.00
2,216.91	8.35	224.34	2,200.00	-175.40	-171.41	-175.40	0.00	0.00	0.00
9 5/8"									
2,300.00	8.35	224.34	2,282.20	-184.02	-179.84	-184.02	0.00	0.00	0.00
2,400.00	8.35	224.34	2,381.14	-194.41	-189.99	-194.41	0.00	0.00	0.00
2,500.00	8.35	224.34	2,480.08	-204.79	-200.14	-204.79	0.00	0.00	0.00
2,599.99	8.35	224.34	2,579.02	-215.17	-210.28	-215.17	0.00	0.00	0.00
2,699.99	8.35	224.34	2,677.96	-225.56	-220.43	-225.56	0.00	0.00	0.00
2,799.99	8.35	224.34	2,776.90	-235.94	-230.58	-235.94	0.00	0.00	0.00
2,899.99	8.35	224.34	2,875.84	-246.33	-240.73	-246.33	0.00	0.00	0.00
2,999.99	8.35	224.34	2,974.78	-256.71	-250.88	-256.71	0.00	0.00	0.00
3,099.99	8.35	224.34	3,073.72	-267.09	-261.02	-267.09	0.00	0.00	0.00
3,199.99	8.35	224.34	3,172.66	-277.48	-271.17	-277.48	0.00	0.00	0.00
3,299.99	8.35	224.34	3,271.61	-287.86	-281.32	-287.86	0.00	0.00	0.00
3,399.99	8.35	224.34	3,370.55	-298.25	-291.47	-298.25	0.00	0.00	0.00
3,499.99	8.35	224.34	3,469.49	-308.63	-301.61	-308.63	0.00	0.00	0.00
3,599.99	8.35	224.34	3,568.43	-319.01	-311.76	-319.01	0.00	0.00	0.00
3,699.99	8.35	224.34	3,667.37	-329.40	-321.91	-329.40	0.00	0.00	0.00
3,799.99	8.35	224.34	3,766.31	-339.78	-332.06	-339.78	0.00	0.00	0.00
3,899.99	8.35	224.34	3,865.25	-350.16	-342.21	-350.16	0.00	0.00	0.00
3,999.99	8.35	224.34	3,964.19	-360.55	-352.35	-360.55	0.00	0.00	0.00
4,099.99	8.35	224.34	4,063.13	-370.93	-362.50	-370.93	0.00	0.00	0.00
4,199.99	8.35	224.34	4,162.07	-381.32	-372.65	-381.32	0.00	0.00	0.00
4,299.99	8.35	224.34	4,261.01	-391.70	-382.80	-391.70	0.00	0.00	0.00
4,399.99	8.35	224.34	4,359.95	-402.08	-392.94	-402.08	0.00	0.00	0.00
4,486.37	8.35	224.34	4,445.41	-411.05	-401.71	-411.05	0.00	0.00	0.00

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Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Site RESOLUTION 12-65-25-25-6NH PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5871.00usft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5871.00usft (Original Well Elev)
Site:	RESOLUTION 12-65-25-25-6NH PAD	North Reference:	True
Well:	RESOLUTION 12-65-25-25-6NH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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 Drop -1.50									
4,499.99	8.14	224.34	4,458.89	-412.45	-403.08	-412.45	1.50	-1.50	0.00
4,599.99	6.64	224.34	4,558.06	-421.65	-412.07	-421.65	1.50	-1.50	0.00
4,699.99	5.14	224.34	4,657.52	-429.00	-419.25	-429.00	1.50	-1.50	0.00
4,799.99	3.64	224.34	4,757.23	-434.48	-424.60	-434.48	1.50	-1.50	0.00
4,899.99	2.14	224.34	4,857.10	-438.09	-428.13	-438.09	1.50	-1.50	0.00
4,999.99	0.64	224.34	4,957.06	-439.83	-429.83	-439.83	1.50	-1.50	0.00
5,042.93	0.00	0.00	5,000.00	-440.00	-430.00	-440.00	1.50	-1.50	0.00
Start 2880.16 hold at 5042.93 MD									
5,099.99	0.00	0.00	5,057.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
5,199.99	0.00	0.00	5,157.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
5,299.99	0.00	0.00	5,257.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
5,399.99	0.00	0.00	5,357.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
5,499.99	0.00	0.00	5,457.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
5,599.99	0.00	0.00	5,557.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
5,699.99	0.00	0.00	5,657.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
5,799.99	0.00	0.00	5,757.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
5,899.99	0.00	0.00	5,857.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
5,999.99	0.00	0.00	5,957.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
6,099.99	0.00	0.00	6,057.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
6,199.99	0.00	0.00	6,157.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
6,299.99	0.00	0.00	6,257.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
6,399.99	0.00	0.00	6,357.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
6,499.99	0.00	0.00	6,457.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
6,599.99	0.00	0.00	6,557.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
6,699.99	0.00	0.00	6,657.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
6,799.99	0.00	0.00	6,757.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
6,899.99	0.00	0.00	6,857.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
6,999.99	0.00	0.00	6,957.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
7,099.99	0.00	0.00	7,057.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
7,199.99	0.00	0.00	7,157.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
7,299.99	0.00	0.00	7,257.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
7,399.99	0.00	0.00	7,357.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
7,499.99	0.00	0.00	7,457.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
7,599.98	0.00	0.00	7,557.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
7,699.98	0.00	0.00	7,657.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
7,799.98	0.00	0.00	7,757.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
7,899.98	0.00	0.00	7,857.06	-440.00	-430.00	-440.00	0.00	0.00	0.00
7,923.09	0.00	0.00	7,880.16	-440.00	-430.00	-440.00	0.00	0.00	0.00
Start Build 10.00									
7,999.98	7.69	0.48	7,956.83	-434.85	-429.96	-434.85	10.00	10.00	0.00
8,099.98	17.69	0.48	8,054.26	-412.91	-429.77	-412.91	10.00	10.00	0.00
8,199.98	27.69	0.48	8,146.40	-374.39	-429.45	-374.39	10.00	10.00	0.00
8,299.98	37.69	0.48	8,230.46	-320.45	-429.00	-320.45	10.00	10.00	0.00
8,319.89	39.68	0.48	8,246.00	-308.01	-428.90	-308.01	10.00	10.00	0.00
Niobrara									
8,399.98	47.69	0.48	8,303.87	-252.74	-428.44	-252.74	10.00	10.00	0.00
8,499.98	57.69	0.48	8,364.41	-173.30	-427.78	-173.30	10.00	10.00	0.00
8,599.98	67.69	0.48	8,410.23	-84.57	-427.04	-84.57	10.00	10.00	0.00
8,699.98	77.69	0.48	8,439.95	10.78	-426.25	10.78	10.00	10.00	0.00
8,799.98	87.69	0.48	8,452.66	109.84	-425.42	109.84	10.00	10.00	0.00
8,824.09	90.10	0.48	8,453.12	133.94	-425.22	133.94	10.00	10.00	0.00
Start 4079.69 hold at 8824.09 MD - 7"									

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Site RESOLUTION 12-65-25-25-6NH PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5871.00usft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5871.00usft (Original Well Elev)
Site:	RESOLUTION 12-65-25-25-6NH PAD	North Reference:	True
Well:	RESOLUTION 12-65-25-25-6NH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)	
8,899.98	90.10	0.48	8,452.99	209.83	-424.59	209.83	0.00	0.00	0.00	
8,999.98	90.10	0.48	8,452.81	309.82	-423.76	309.82	0.00	0.00	0.00	
9,099.98	90.10	0.48	8,452.64	409.82	-422.92	409.82	0.00	0.00	0.00	
9,199.98	90.10	0.48	8,452.46	509.82	-422.09	509.82	0.00	0.00	0.00	
9,299.98	90.10	0.48	8,452.29	609.81	-421.26	609.81	0.00	0.00	0.00	
9,399.98	90.10	0.48	8,452.12	709.81	-420.43	709.81	0.00	0.00	0.00	
9,499.98	90.10	0.48	8,451.94	809.80	-419.59	809.80	0.00	0.00	0.00	
9,599.98	90.10	0.48	8,451.77	909.80	-418.76	909.80	0.00	0.00	0.00	
9,699.98	90.10	0.48	8,451.59	1,009.80	-417.93	1,009.80	0.00	0.00	0.00	
9,799.98	90.10	0.48	8,451.42	1,109.79	-417.09	1,109.79	0.00	0.00	0.00	
9,899.98	90.10	0.48	8,451.24	1,209.79	-416.26	1,209.79	0.00	0.00	0.00	
9,999.98	90.10	0.48	8,451.07	1,309.79	-415.43	1,309.79	0.00	0.00	0.00	
10,099.98	90.10	0.48	8,450.89	1,409.78	-414.60	1,409.78	0.00	0.00	0.00	
10,199.98	90.10	0.48	8,450.72	1,509.78	-413.76	1,509.78	0.00	0.00	0.00	
10,299.98	90.10	0.48	8,450.54	1,609.77	-412.93	1,609.77	0.00	0.00	0.00	
10,399.98	90.10	0.48	8,450.37	1,709.77	-412.10	1,709.77	0.00	0.00	0.00	
10,499.98	90.10	0.48	8,450.20	1,809.77	-411.27	1,809.77	0.00	0.00	0.00	
10,599.98	90.10	0.48	8,450.02	1,909.76	-410.43	1,909.76	0.00	0.00	0.00	
10,699.98	90.10	0.48	8,449.85	2,009.76	-409.60	2,009.76	0.00	0.00	0.00	
10,799.98	90.10	0.48	8,449.67	2,109.75	-408.77	2,109.75	0.00	0.00	0.00	
10,899.98	90.10	0.48	8,449.50	2,209.75	-407.93	2,209.75	0.00	0.00	0.00	
10,999.98	90.10	0.48	8,449.32	2,309.75	-407.10	2,309.75	0.00	0.00	0.00	
11,099.98	90.10	0.48	8,449.15	2,409.74	-406.27	2,409.74	0.00	0.00	0.00	
11,199.98	90.10	0.48	8,448.97	2,509.74	-405.44	2,509.74	0.00	0.00	0.00	
11,299.98	90.10	0.48	8,448.80	2,609.74	-404.60	2,609.74	0.00	0.00	0.00	
11,399.98	90.10	0.48	8,448.62	2,709.73	-403.77	2,709.73	0.00	0.00	0.00	
11,499.98	90.10	0.48	8,448.45	2,809.73	-402.94	2,809.73	0.00	0.00	0.00	
11,599.98	90.10	0.48	8,448.28	2,909.72	-402.11	2,909.72	0.00	0.00	0.00	
11,699.98	90.10	0.48	8,448.10	3,009.72	-401.27	3,009.72	0.00	0.00	0.00	
11,799.98	90.10	0.48	8,447.93	3,109.72	-400.44	3,109.72	0.00	0.00	0.00	
11,899.98	90.10	0.48	8,447.75	3,209.71	-399.61	3,209.71	0.00	0.00	0.00	
11,999.98	90.10	0.48	8,447.58	3,309.71	-398.78	3,309.71	0.00	0.00	0.00	
12,099.98	90.10	0.48	8,447.40	3,409.71	-397.94	3,409.71	0.00	0.00	0.00	
12,199.98	90.10	0.48	8,447.23	3,509.70	-397.11	3,509.70	0.00	0.00	0.00	
12,299.98	90.10	0.48	8,447.05	3,609.70	-396.28	3,609.70	0.00	0.00	0.00	
12,399.98	90.10	0.48	8,446.88	3,709.69	-395.44	3,709.69	0.00	0.00	0.00	
12,499.98	90.10	0.48	8,446.70	3,809.69	-394.61	3,809.69	0.00	0.00	0.00	
12,599.98	90.10	0.48	8,446.53	3,909.69	-393.78	3,909.69	0.00	0.00	0.00	
12,699.97	90.10	0.48	8,446.36	4,009.68	-392.95	4,009.68	0.00	0.00	0.00	
12,799.97	90.10	0.48	8,446.18	4,109.68	-392.11	4,109.68	0.00	0.00	0.00	
12,899.97	90.10	0.48	8,446.01	4,209.67	-391.28	4,209.67	0.00	0.00	0.00	
12,903.78	90.10	0.48	8,446.00	4,213.48	-391.25	4,213.48	0.00	0.00	0.00	
TD at 12903.78										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RESOLUTION 12-65-25	0.00	0.00	8,446.00	4,213.48	-391.25	1,602,574.24	3,247,196.29	40.983998	-104.604706
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Site RESOLUTION 12-65-25-25-6NH PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5871.00usft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5871.00usft (Original Well Elev)
Site:	RESOLUTION 12-65-25-25-6NH PAD	North Reference:	True
Well:	RESOLUTION 12-65-25-25-6NH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN #1		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
2,216.91	2,200.00	9 5/8"	9-5/8	12-1/4	
8,824.09	8,453.12	7"	7	7-1/2	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,990.51	1,976.00	Aquifer (Fox Hills)			
8,319.89	8,246.00	Niobrara			

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
250.00	250.00	0.00	0.00	Start Build 1.50	
806.55	804.59	-28.95	-28.29	Start 3679.82 hold at 806.55 MD	
4,486.37	4,445.41	-411.05	-401.71	Start Drop -1.50	
5,042.93	5,000.00	-440.00	-430.00	Start 2880.16 hold at 5042.93 MD	
7,923.09	7,880.16	-440.00	-430.00	Start Build 10.00	
8,824.09	8,453.12	133.94	-425.22	Start 4079.69 hold at 8824.09 MD	
12,903.78	8,446.00	4,213.48	-391.25	TD at 12903.78	