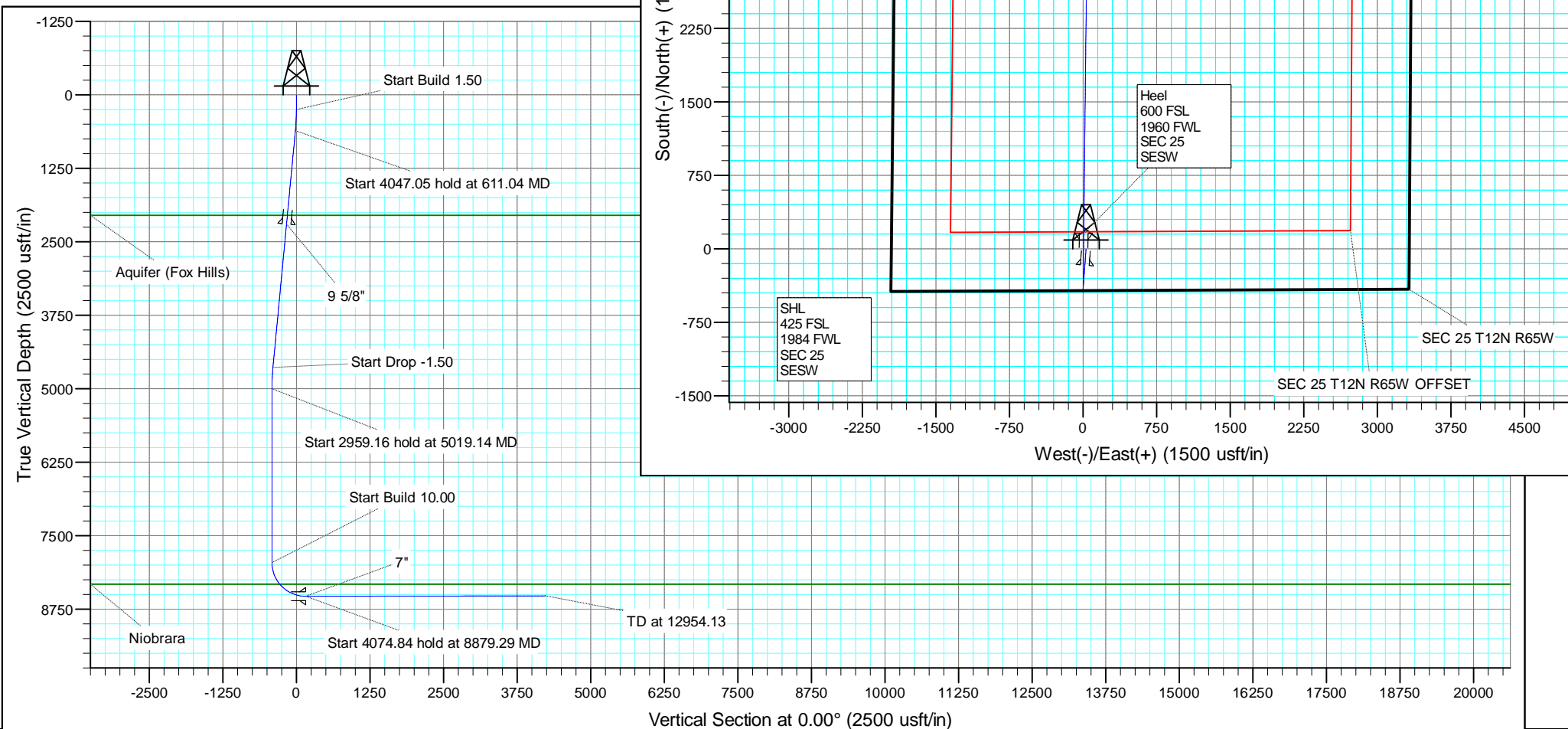


SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	-0.01	29.83	0.00	0.00	0.00
250.00	0.00	0.00	250.00	-0.01	29.83	0.00	0.00	0.00
611.04	5.42	184.11	610.51	-17.01	28.60	1.50	184.11	-17.01
4658.10	5.42	184.11	4639.49	-397.99	1.22	0.00	0.00	-397.99
5019.14	0.00	0.00	5000.00	-415.00	0.00	1.50	180.00	-414.99
7978.29	0.00	0.00	7959.16	-415.00	0.00	0.00	0.00	-414.99
8879.29	90.10	0.62	8532.11	158.92	6.20	10.00	0.62	158.93
12954.13	90.10	0.62	8525.00	4233.52	50.25	0.00	0.00	4233.53

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2050.00	2056.99	Aquifer (Fox Hills)
8325.00	8375.11	Niobrara



US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

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

RESOLUTION 12-65-25-25-3NH

Wellbore #1

Plan: PLAN #1

Standard Planning Report

31 December, 2015

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Site RESOLUTION 12-65-25-25-4NH PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5940.00usft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5940.00usft (Original Well Elev)
Site:	RESOLUTION 12-65-25-25-4NH PAD	North Reference:	True
Well:	RESOLUTION 12-65-25-25-3NH	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 12-65-25-25-4NH PAD			
Site Position:		Northing:	1,598,305.89 usft	Latitude: 40.972340
From:	Lat/Long	Easting:	3,245,166.71 usft	Longitude: -104.612211
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.57 °

Well	RESOLUTION 12-65-25-25-3NH			
Well Position	+N/-S	-0.01 usft	Northing:	1,598,306.18 usft
	+E/-W	29.83 usft	Easting:	3,245,196.53 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 5,914.00 usft

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

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	-0.01	29.83	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	-0.01	29.83	0.00	0.00	0.00	0.00	
250.00	0.00	0.00	250.00	-0.01	29.83	0.00	0.00	0.00	0.00	
611.04	5.42	184.11	610.51	-17.01	28.60	1.50	1.50	0.00	184.11	
4,658.10	5.42	184.11	4,639.49	-397.99	1.22	0.00	0.00	0.00	0.00	
5,019.14	0.00	0.00	5,000.00	-415.00	0.00	1.50	-1.50	0.00	180.00	
7,978.30	0.00	0.00	7,959.16	-415.00	0.00	0.00	0.00	0.00	0.00	
8,879.30	90.10	0.62	8,532.11	158.92	6.20	10.00	10.00	0.00	0.62	
12,954.13	90.10	0.62	8,525.00	4,233.52	50.25	0.00	0.00	0.00	0.00	RESOLUTION 12-65-

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Site RESOLUTION 12-65-25-25-4NH PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5940.00usft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5940.00usft (Original Well Elev)
Site:	RESOLUTION 12-65-25-25-4NH PAD	North Reference:	True
Well:	RESOLUTION 12-65-25-25-3NH	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	-0.01	29.83	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	-0.01	29.83	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	-0.01	29.83	0.00	0.00	0.00	0.00
250.00	0.00	0.00	250.00	-0.01	29.83	0.00	0.00	0.00	0.00
Start Build 1.50									
300.00	0.75	184.11	300.00	-0.33	29.80	-0.33	1.50	1.50	0.00
400.00	2.25	184.11	399.96	-2.95	29.61	-2.94	1.50	1.50	0.00
500.00	3.75	184.11	499.82	-8.16	29.24	-8.16	1.50	1.50	0.00
600.00	5.25	184.11	599.51	-15.99	28.68	-15.98	1.50	1.50	0.00
611.04	5.42	184.11	610.51	-17.01	28.60	-17.01	1.50	1.50	0.00
Start 4047.05 hold at 611.04 MD									
700.00	5.42	184.11	699.06	-25.39	28.00	-25.38	0.00	0.00	0.00
800.00	5.42	184.11	798.62	-34.80	27.32	-34.79	0.00	0.00	0.00
900.00	5.42	184.11	898.17	-44.22	26.65	-44.21	0.00	0.00	0.00
1,000.00	5.42	184.11	997.72	-53.63	25.97	-53.62	0.00	0.00	0.00
1,100.00	5.42	184.11	1,097.28	-63.04	25.29	-63.04	0.00	0.00	0.00
1,200.00	5.42	184.11	1,196.83	-72.46	24.62	-72.45	0.00	0.00	0.00
1,300.00	5.42	184.11	1,296.38	-81.87	23.94	-81.86	0.00	0.00	0.00
1,400.00	5.42	184.11	1,395.94	-91.28	23.27	-91.28	0.00	0.00	0.00
1,500.00	5.42	184.11	1,495.49	-100.70	22.59	-100.69	0.00	0.00	0.00
1,600.00	5.42	184.11	1,595.05	-110.11	21.91	-110.10	0.00	0.00	0.00
1,700.00	5.42	184.11	1,694.60	-119.53	21.24	-119.52	0.00	0.00	0.00
1,800.00	5.42	184.11	1,794.15	-128.94	20.56	-128.93	0.00	0.00	0.00
1,900.00	5.42	184.11	1,893.71	-138.35	19.88	-138.35	0.00	0.00	0.00
2,000.00	5.42	184.11	1,993.26	-147.77	19.21	-147.76	0.00	0.00	0.00
2,056.99	5.42	184.11	2,050.00	-153.13	18.82	-153.12	0.00	0.00	0.00
Aquifer (Fox Hills)									
2,100.00	5.42	184.11	2,092.81	-157.18	18.53	-157.17	0.00	0.00	0.00
2,200.00	5.42	184.11	2,192.37	-166.59	17.85	-166.59	0.00	0.00	0.00
2,207.66	5.42	184.11	2,200.00	-167.32	17.80	-167.31	0.00	0.00	0.00
9 5/8"									
2,300.00	5.42	184.11	2,291.92	-176.01	17.18	-176.00	0.00	0.00	0.00
2,400.00	5.42	184.11	2,391.47	-185.42	16.50	-185.41	0.00	0.00	0.00
2,500.00	5.42	184.11	2,491.03	-194.84	15.82	-194.83	0.00	0.00	0.00
2,599.99	5.42	184.11	2,590.58	-204.25	15.15	-204.24	0.00	0.00	0.00
2,699.99	5.42	184.11	2,690.13	-213.66	14.47	-213.66	0.00	0.00	0.00
2,799.99	5.42	184.11	2,789.69	-223.08	13.79	-223.07	0.00	0.00	0.00
2,899.99	5.42	184.11	2,889.24	-232.49	13.12	-232.48	0.00	0.00	0.00
2,999.99	5.42	184.11	2,988.79	-241.90	12.44	-241.90	0.00	0.00	0.00
3,099.99	5.42	184.11	3,088.35	-251.32	11.76	-251.31	0.00	0.00	0.00
3,199.99	5.42	184.11	3,187.90	-260.73	11.09	-260.72	0.00	0.00	0.00
3,299.99	5.42	184.11	3,287.45	-270.15	10.41	-270.14	0.00	0.00	0.00
3,399.99	5.42	184.11	3,387.01	-279.56	9.73	-279.55	0.00	0.00	0.00
3,499.99	5.42	184.11	3,486.56	-288.97	9.06	-288.96	0.00	0.00	0.00
3,599.99	5.42	184.11	3,586.11	-298.39	8.38	-298.38	0.00	0.00	0.00
3,699.99	5.42	184.11	3,685.67	-307.80	7.70	-307.79	0.00	0.00	0.00
3,799.99	5.42	184.11	3,785.22	-317.21	7.03	-317.21	0.00	0.00	0.00
3,899.99	5.42	184.11	3,884.77	-326.63	6.35	-326.62	0.00	0.00	0.00
3,999.99	5.42	184.11	3,984.33	-336.04	5.67	-336.03	0.00	0.00	0.00
4,099.99	5.42	184.11	4,083.88	-345.45	5.00	-345.45	0.00	0.00	0.00
4,199.99	5.42	184.11	4,183.43	-354.87	4.32	-354.86	0.00	0.00	0.00
4,299.99	5.42	184.11	4,282.99	-364.28	3.65	-364.27	0.00	0.00	0.00
4,399.99	5.42	184.11	4,382.54	-373.70	2.97	-373.69	0.00	0.00	0.00
4,499.99	5.42	184.11	4,482.09	-383.11	2.29	-383.10	0.00	0.00	0.00

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Site RESOLUTION 12-65-25-25-4NH PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5940.00usft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5940.00usft (Original Well Elev)
Site:	RESOLUTION 12-65-25-25-4NH PAD	North Reference:	True
Well:	RESOLUTION 12-65-25-25-3NH	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)
4,599.99	5.42	184.11	4,581.65	-392.52	1.62	-392.52	0.00	0.00	0.00
4,658.10	5.42	184.11	4,639.49	-397.99	1.22	-397.99	0.00	0.00	0.00
Start Drop -1.50									
4,699.99	4.79	184.11	4,681.22	-401.71	0.96	-401.70	1.50	-1.50	0.00
4,799.99	3.29	184.11	4,780.97	-408.73	0.45	-408.72	1.50	-1.50	0.00
4,899.99	1.79	184.11	4,880.87	-413.15	0.13	-413.14	1.50	-1.50	0.00
4,999.99	0.29	184.11	4,980.85	-414.95	0.00	-414.94	1.50	-1.50	0.00
5,019.14	0.00	0.00	5,000.00	-415.00	0.00	-414.99	1.50	-1.50	0.00
Start 2959.16 hold at 5019.14 MD									
5,099.99	0.00	0.00	5,080.85	-415.00	0.00	-414.99	0.00	0.00	0.00
5,199.99	0.00	0.00	5,180.85	-415.00	0.00	-414.99	0.00	0.00	0.00
5,299.99	0.00	0.00	5,280.85	-415.00	0.00	-414.99	0.00	0.00	0.00
5,399.99	0.00	0.00	5,380.85	-415.00	0.00	-414.99	0.00	0.00	0.00
5,499.99	0.00	0.00	5,480.85	-415.00	0.00	-414.99	0.00	0.00	0.00
5,599.99	0.00	0.00	5,580.85	-415.00	0.00	-414.99	0.00	0.00	0.00
5,699.99	0.00	0.00	5,680.85	-415.00	0.00	-414.99	0.00	0.00	0.00
5,799.99	0.00	0.00	5,780.85	-415.00	0.00	-414.99	0.00	0.00	0.00
5,899.99	0.00	0.00	5,880.85	-415.00	0.00	-414.99	0.00	0.00	0.00
5,999.99	0.00	0.00	5,980.85	-415.00	0.00	-414.99	0.00	0.00	0.00
6,099.99	0.00	0.00	6,080.85	-415.00	0.00	-414.99	0.00	0.00	0.00
6,199.99	0.00	0.00	6,180.85	-415.00	0.00	-414.99	0.00	0.00	0.00
6,299.99	0.00	0.00	6,280.85	-415.00	0.00	-414.99	0.00	0.00	0.00
6,399.99	0.00	0.00	6,380.85	-415.00	0.00	-414.99	0.00	0.00	0.00
6,499.99	0.00	0.00	6,480.85	-415.00	0.00	-414.99	0.00	0.00	0.00
6,599.99	0.00	0.00	6,580.85	-415.00	0.00	-414.99	0.00	0.00	0.00
6,699.99	0.00	0.00	6,680.85	-415.00	0.00	-414.99	0.00	0.00	0.00
6,799.99	0.00	0.00	6,780.85	-415.00	0.00	-414.99	0.00	0.00	0.00
6,899.99	0.00	0.00	6,880.85	-415.00	0.00	-414.99	0.00	0.00	0.00
6,999.99	0.00	0.00	6,980.85	-415.00	0.00	-414.99	0.00	0.00	0.00
7,099.99	0.00	0.00	7,080.85	-415.00	0.00	-414.99	0.00	0.00	0.00
7,199.99	0.00	0.00	7,180.85	-415.00	0.00	-414.99	0.00	0.00	0.00
7,299.99	0.00	0.00	7,280.85	-415.00	0.00	-414.99	0.00	0.00	0.00
7,399.99	0.00	0.00	7,380.85	-415.00	0.00	-414.99	0.00	0.00	0.00
7,499.99	0.00	0.00	7,480.85	-415.00	0.00	-414.99	0.00	0.00	0.00
7,599.98	0.00	0.00	7,580.85	-415.00	0.00	-414.99	0.00	0.00	0.00
7,699.98	0.00	0.00	7,680.84	-415.00	0.00	-414.99	0.00	0.00	0.00
7,799.98	0.00	0.00	7,780.84	-415.00	0.00	-414.99	0.00	0.00	0.00
7,899.98	0.00	0.00	7,880.84	-415.00	0.00	-414.99	0.00	0.00	0.00
7,978.30	0.00	0.00	7,959.16	-415.00	0.00	-414.99	0.00	0.00	0.00
Start Build 10.00									
7,999.98	2.17	0.62	7,980.84	-414.59	0.00	-414.58	10.00	10.00	0.00
8,099.98	12.17	0.62	8,079.93	-402.13	0.14	-402.12	10.00	10.00	0.00
8,199.98	22.17	0.62	8,175.35	-372.65	0.46	-372.64	10.00	10.00	0.00
8,299.98	32.17	0.62	8,264.21	-327.05	0.95	-327.04	10.00	10.00	0.00
8,375.11	39.68	0.62	8,325.00	-283.00	1.43	-282.99	10.00	10.00	0.00
Niobrara									
8,399.98	42.17	0.62	8,343.79	-266.71	1.60	-266.70	10.00	10.00	0.00
8,499.98	52.17	0.62	8,411.69	-193.47	2.39	-193.46	10.00	10.00	0.00
8,599.98	62.17	0.62	8,465.84	-109.56	3.30	-109.55	10.00	10.00	0.00
8,699.98	72.17	0.62	8,504.59	-17.51	4.30	-17.51	10.00	10.00	0.00
8,799.98	82.17	0.62	8,526.77	79.86	5.35	79.87	10.00	10.00	0.00
8,879.29	90.10	0.62	8,532.11	158.92	6.20	158.93	10.00	10.00	0.00
Start 4074.84 hold at 8879.29 MD - 7"									

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Site RESOLUTION 12-65-25-25-4NH PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5940.00usft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5940.00usft (Original Well Elev)
Site:	RESOLUTION 12-65-25-25-4NH PAD	North Reference:	True
Well:	RESOLUTION 12-65-25-25-3NH	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	0.62	8,532.08	179.61	6.43	179.62	0.00	0.00	0.00	
8,999.98	90.10	0.62	8,531.90	279.60	7.51	279.61	0.00	0.00	0.00	
9,099.98	90.10	0.62	8,531.73	379.60	8.59	379.61	0.00	0.00	0.00	
9,199.98	90.10	0.62	8,531.55	479.59	9.67	479.60	0.00	0.00	0.00	
9,299.98	90.10	0.62	8,531.38	579.59	10.75	579.59	0.00	0.00	0.00	
9,399.98	90.10	0.62	8,531.20	679.58	11.83	679.59	0.00	0.00	0.00	
9,499.98	90.10	0.62	8,531.03	779.57	12.91	779.58	0.00	0.00	0.00	
9,599.98	90.10	0.62	8,530.85	879.57	13.99	879.57	0.00	0.00	0.00	
9,699.98	90.10	0.62	8,530.68	979.56	15.08	979.57	0.00	0.00	0.00	
9,799.98	90.10	0.62	8,530.51	1,079.55	16.16	1,079.56	0.00	0.00	0.00	
9,899.98	90.10	0.62	8,530.33	1,179.55	17.24	1,179.56	0.00	0.00	0.00	
9,999.98	90.10	0.62	8,530.16	1,279.54	18.32	1,279.55	0.00	0.00	0.00	
10,099.98	90.10	0.62	8,529.98	1,379.54	19.40	1,379.54	0.00	0.00	0.00	
10,199.98	90.10	0.62	8,529.81	1,479.53	20.48	1,479.54	0.00	0.00	0.00	
10,299.98	90.10	0.62	8,529.63	1,579.52	21.56	1,579.53	0.00	0.00	0.00	
10,399.98	90.10	0.62	8,529.46	1,679.52	22.64	1,679.53	0.00	0.00	0.00	
10,499.98	90.10	0.62	8,529.28	1,779.51	23.72	1,779.52	0.00	0.00	0.00	
10,599.98	90.10	0.62	8,529.11	1,879.51	24.80	1,879.51	0.00	0.00	0.00	
10,699.98	90.10	0.62	8,528.93	1,979.50	25.89	1,979.51	0.00	0.00	0.00	
10,799.98	90.10	0.62	8,528.76	2,079.49	26.97	2,079.50	0.00	0.00	0.00	
10,899.98	90.10	0.62	8,528.59	2,179.49	28.05	2,179.49	0.00	0.00	0.00	
10,999.98	90.10	0.62	8,528.41	2,279.48	29.13	2,279.49	0.00	0.00	0.00	
11,099.98	90.10	0.62	8,528.24	2,379.47	30.21	2,379.48	0.00	0.00	0.00	
11,199.98	90.10	0.62	8,528.06	2,479.47	31.29	2,479.48	0.00	0.00	0.00	
11,299.98	90.10	0.62	8,527.89	2,579.46	32.37	2,579.47	0.00	0.00	0.00	
11,399.98	90.10	0.62	8,527.71	2,679.46	33.45	2,679.46	0.00	0.00	0.00	
11,499.98	90.10	0.62	8,527.54	2,779.45	34.53	2,779.46	0.00	0.00	0.00	
11,599.98	90.10	0.62	8,527.36	2,879.44	35.61	2,879.45	0.00	0.00	0.00	
11,699.98	90.10	0.62	8,527.19	2,979.44	36.70	2,979.44	0.00	0.00	0.00	
11,799.98	90.10	0.62	8,527.01	3,079.43	37.78	3,079.44	0.00	0.00	0.00	
11,899.98	90.10	0.62	8,526.84	3,179.42	38.86	3,179.43	0.00	0.00	0.00	
11,999.98	90.10	0.62	8,526.67	3,279.42	39.94	3,279.43	0.00	0.00	0.00	
12,099.98	90.10	0.62	8,526.49	3,379.41	41.02	3,379.42	0.00	0.00	0.00	
12,199.98	90.10	0.62	8,526.32	3,479.41	42.10	3,479.41	0.00	0.00	0.00	
12,299.98	90.10	0.62	8,526.14	3,579.40	43.18	3,579.41	0.00	0.00	0.00	
12,399.98	90.10	0.62	8,525.97	3,679.39	44.26	3,679.40	0.00	0.00	0.00	
12,499.98	90.10	0.62	8,525.79	3,779.39	45.34	3,779.40	0.00	0.00	0.00	
12,599.98	90.10	0.62	8,525.62	3,879.38	46.42	3,879.39	0.00	0.00	0.00	
12,699.97	90.10	0.62	8,525.44	3,979.38	47.50	3,979.38	0.00	0.00	0.00	
12,799.97	90.10	0.62	8,525.27	4,079.37	48.59	4,079.38	0.00	0.00	0.00	
12,899.97	90.10	0.62	8,525.09	4,179.36	49.67	4,179.37	0.00	0.00	0.00	
12,954.13	90.10	0.62	8,525.00	4,233.52	50.25	4,233.53	0.00	0.00	0.00	
TD at 12954.13										

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	8,525.00	4,233.52	50.25	1,602,539.70	3,245,174.57	40.983959		-104.612029
- hit/miss target										
- Shape										
- plan hits target center										
- Point										

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Site RESOLUTION 12-65-25-25-4NH PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5940.00usft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5940.00usft (Original Well Elev)
Site:	RESOLUTION 12-65-25-25-4NH PAD	North Reference:	True
Well:	RESOLUTION 12-65-25-25-3NH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN #1		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
2,207.66	2,200.00	9 5/8"	9-5/8	12-1/4	
8,879.29	8,532.11	7"	7	7-1/2	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,056.99	2,050.00	Aquifer (Fox Hills)			
8,375.11	8,325.00	Niobrara			

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
250.00	250.00	-0.01	29.83	Start Build 1.50	
611.04	610.51	-17.01	28.60	Start 4047.05 hold at 611.04 MD	
4,658.10	4,639.49	-397.99	1.22	Start Drop -1.50	
5,019.14	5,000.00	-415.00	0.00	Start 2959.16 hold at 5019.14 MD	
7,978.30	7,959.16	-415.00	0.00	Start Build 10.00	
8,879.30	8,532.11	158.92	6.20	Start 4074.84 hold at 8879.29 MD	
12,954.13	8,525.00	4,233.52	50.25	TD at 12954.13	