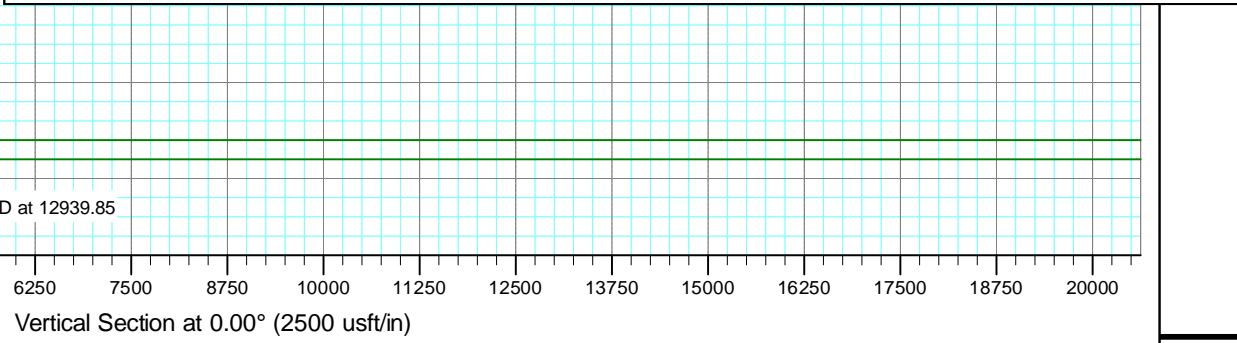
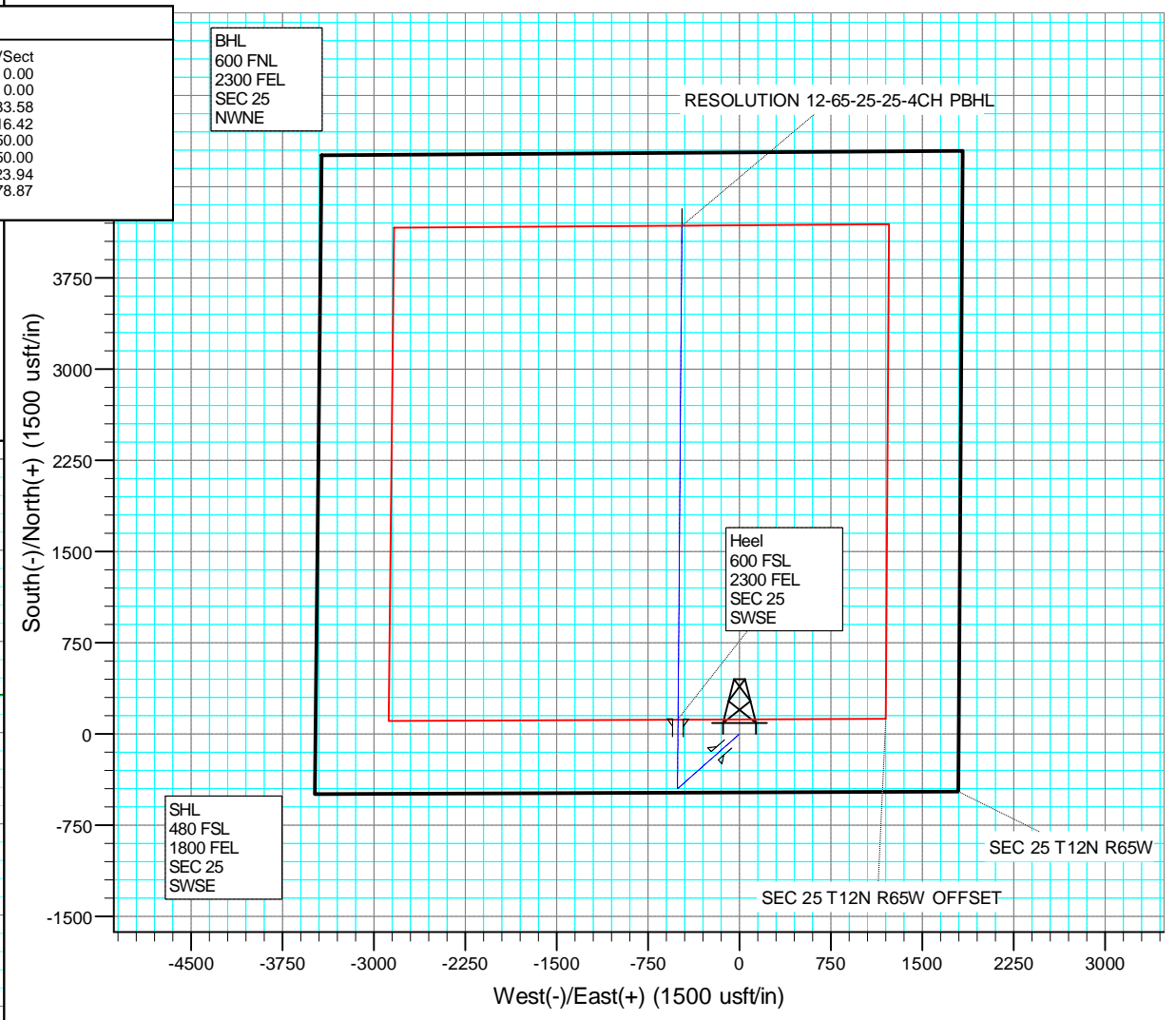
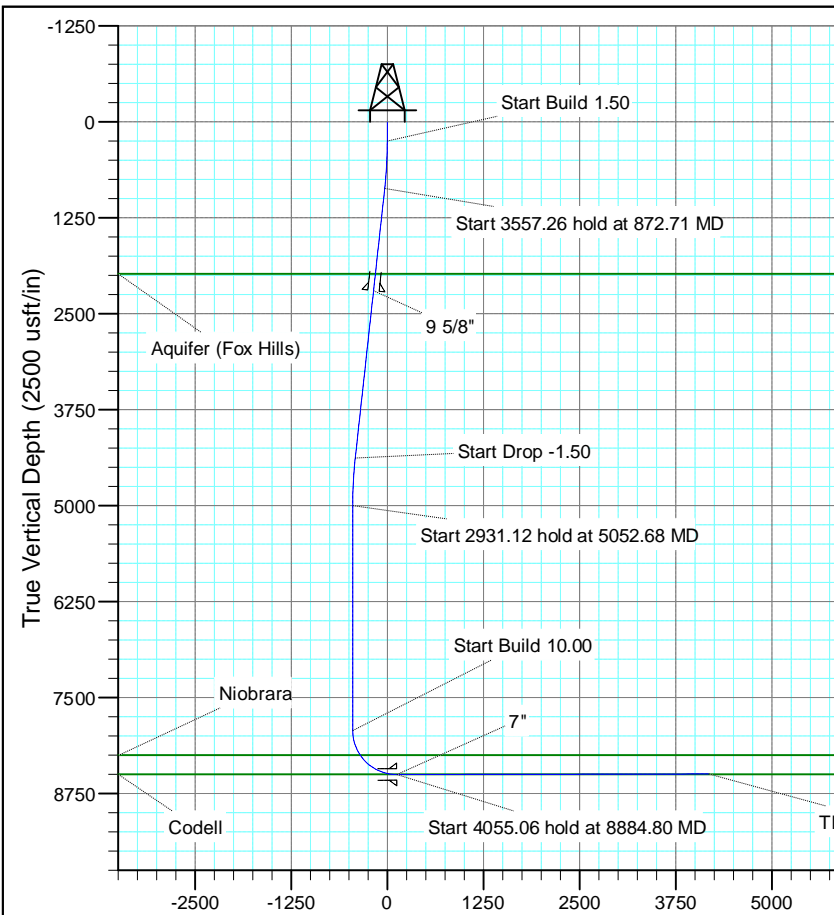


+N/-S 0.00 +E/-W 0.00 Northing 1598382.78 Easting 3246690.41 Latitude 40.972509 Longitude -104.606691

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
872.71	9.34	228.46	869.95	-33.58	-37.91	1.50	228.46	-33.58
4429.97	9.34	228.46	4380.05	-416.42	-470.09	0.00	0.00	-416.42
5052.68	0.00	0.00	5000.00	-450.00	-508.00	1.50	180.00	-450.00
7983.80	0.00	0.00	7931.12	-450.00	-508.00	0.00	0.00	-450.00
8884.80	90.10	0.44	8504.08	123.94	-503.55	10.00	0.44	123.94
12939.85	90.10	0.44	8497.00	4178.87	-472.15	0.00	0.00	4178.87

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1982.00	1999.70	Aquifer (Fox Hills)
8257.00	8330.44	Niobrara
8502.00	8834.98	Codell



US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

RESOLUTION 12-65-25-25-4CH PAD

RESOLUTION 12-65-25-25-4CH

Wellbore #1

Plan: PLAN #1

Standard Planning Report

31 December, 2015

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Site RESOLUTION 12-65-25-25-4CH PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5877.00usft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5877.00usft (Original Well Elev)
Site:	RESOLUTION 12-65-25-25-4CH PAD	North Reference:	True
Well:	RESOLUTION 12-65-25-25-4CH	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 12-65-25-25-4CH PAD			
Site Position:		Northing:	1,598,382.77 usft	Latitude: 40.972509
From:	Lat/Long	Easting:	3,246,690.41 usft	Longitude: -104.606691
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.58 °

Well	RESOLUTION 12-65-25-25-4CH			
Well Position	+N/-S	0.00 usft	Northing:	1,598,382.77 usft
	+E/-W	0.00 usft	Easting:	3,246,690.41 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 5,851.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	8.99	67.60	53,610

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	
872.71	9.34	228.46	869.95	-33.58	-37.91	1.50	1.50	0.00	228.46	
4,429.97	9.34	228.46	4,380.05	-416.42	-470.09	0.00	0.00	0.00	0.00	
5,052.68	0.00	0.00	5,000.00	-450.00	-508.00	1.50	-1.50	0.00	180.00	
7,983.80	0.00	0.00	7,931.12	-450.00	-508.00	0.00	0.00	0.00	0.00	
8,884.80	90.10	0.44	8,504.08	123.94	-503.55	10.00	10.00	0.00	0.44	
12,939.85	90.10	0.44	8,497.00	4,178.87	-472.15	0.00	0.00	0.00	0.00	RESOLUTION 12-65-

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Site RESOLUTION 12-65-25-25-4CH PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5877.00usft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5877.00usft (Original Well Elev)
Site:	RESOLUTION 12-65-25-25-4CH PAD	North Reference:	True
Well:	RESOLUTION 12-65-25-25-4CH	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	228.46	300.00	-0.22	-0.24	-0.22	1.50	1.50	0.00
400.00	2.25	228.46	399.96	-1.95	-2.20	-1.95	1.50	1.50	0.00
500.00	3.75	228.46	499.82	-5.42	-6.12	-5.42	1.50	1.50	0.00
600.00	5.25	228.46	599.51	-10.63	-11.99	-10.63	1.50	1.50	0.00
700.00	6.75	228.46	698.96	-17.56	-19.82	-17.56	1.50	1.50	0.00
800.00	8.25	228.46	798.10	-26.21	-29.59	-26.21	1.50	1.50	0.00
872.71	9.34	228.46	869.95	-33.58	-37.91	-33.58	1.50	1.50	0.00
Start 3557.26 hold at 872.71 MD									
900.00	9.34	228.46	896.88	-36.52	-41.23	-36.52	0.00	0.00	0.00
1,000.00	9.34	228.46	995.56	-47.28	-53.38	-47.28	0.00	0.00	0.00
1,100.00	9.34	228.46	1,094.23	-58.04	-65.52	-58.04	0.00	0.00	0.00
1,200.00	9.34	228.46	1,192.90	-68.81	-77.67	-68.81	0.00	0.00	0.00
1,300.00	9.34	228.46	1,291.58	-79.57	-89.82	-79.57	0.00	0.00	0.00
1,400.00	9.34	228.46	1,390.25	-90.33	-101.97	-90.33	0.00	0.00	0.00
1,500.00	9.34	228.46	1,488.93	-101.09	-114.12	-101.09	0.00	0.00	0.00
1,600.00	9.34	228.46	1,587.60	-111.85	-126.27	-111.85	0.00	0.00	0.00
1,700.00	9.34	228.46	1,686.27	-122.62	-138.42	-122.62	0.00	0.00	0.00
1,800.00	9.34	228.46	1,784.95	-133.38	-150.57	-133.38	0.00	0.00	0.00
1,900.00	9.34	228.46	1,883.62	-144.14	-162.72	-144.14	0.00	0.00	0.00
1,999.70	9.34	228.46	1,982.00	-154.87	-174.83	-154.87	0.00	0.00	0.00
Aquifer (Fox Hills)									
2,000.00	9.34	228.46	1,982.29	-154.90	-174.87	-154.90	0.00	0.00	0.00
2,100.00	9.34	228.46	2,080.97	-165.66	-187.02	-165.66	0.00	0.00	0.00
2,200.00	9.34	228.46	2,179.64	-176.43	-199.17	-176.43	0.00	0.00	0.00
2,220.63	9.34	228.46	2,200.00	-178.65	-201.67	-178.65	0.00	0.00	0.00
9 5/8"									
2,300.00	9.34	228.46	2,278.32	-187.19	-211.31	-187.19	0.00	0.00	0.00
2,400.00	9.34	228.46	2,376.99	-197.95	-223.46	-197.95	0.00	0.00	0.00
2,500.00	9.34	228.46	2,475.66	-208.71	-235.61	-208.71	0.00	0.00	0.00
2,599.99	9.34	228.46	2,574.34	-219.47	-247.76	-219.47	0.00	0.00	0.00
2,699.99	9.34	228.46	2,673.01	-230.24	-259.91	-230.24	0.00	0.00	0.00
2,799.99	9.34	228.46	2,771.69	-241.00	-272.06	-241.00	0.00	0.00	0.00
2,899.99	9.34	228.46	2,870.36	-251.76	-284.21	-251.76	0.00	0.00	0.00
2,999.99	9.34	228.46	2,969.03	-262.52	-296.36	-262.52	0.00	0.00	0.00
3,099.99	9.34	228.46	3,067.71	-273.28	-308.51	-273.28	0.00	0.00	0.00
3,199.99	9.34	228.46	3,166.38	-284.05	-320.66	-284.05	0.00	0.00	0.00
3,299.99	9.34	228.46	3,265.06	-294.81	-332.81	-294.81	0.00	0.00	0.00
3,399.99	9.34	228.46	3,363.73	-305.57	-344.96	-305.57	0.00	0.00	0.00
3,499.99	9.34	228.46	3,462.40	-316.33	-357.10	-316.33	0.00	0.00	0.00
3,599.99	9.34	228.46	3,561.08	-327.09	-369.25	-327.09	0.00	0.00	0.00
3,699.99	9.34	228.46	3,659.75	-337.86	-381.40	-337.86	0.00	0.00	0.00
3,799.99	9.34	228.46	3,758.42	-348.62	-393.55	-348.62	0.00	0.00	0.00
3,899.99	9.34	228.46	3,857.10	-359.38	-405.70	-359.38	0.00	0.00	0.00
3,999.99	9.34	228.46	3,955.77	-370.14	-417.85	-370.14	0.00	0.00	0.00
4,099.99	9.34	228.46	4,054.45	-380.91	-430.00	-380.91	0.00	0.00	0.00
4,199.99	9.34	228.46	4,153.12	-391.67	-442.15	-391.67	0.00	0.00	0.00
4,299.99	9.34	228.46	4,251.79	-402.43	-454.30	-402.43	0.00	0.00	0.00
4,399.99	9.34	228.46	4,350.47	-413.19	-466.45	-413.19	0.00	0.00	0.00
4,429.97	9.34	228.46	4,380.05	-416.42	-470.09	-416.42	0.00	0.00	0.00

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Site RESOLUTION 12-65-25-25-4CH PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5877.00usft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5877.00usft (Original Well Elev)
Site:	RESOLUTION 12-65-25-25-4CH PAD	North Reference:	True
Well:	RESOLUTION 12-65-25-25-4CH	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	8.29	228.46	4,449.24	-423.53	-478.12	-423.53	1.50	-1.50	0.00
4,599.99	6.79	228.46	4,548.37	-432.23	-487.94	-432.23	1.50	-1.50	0.00
4,699.99	5.29	228.46	4,647.82	-439.21	-495.82	-439.21	1.50	-1.50	0.00
4,799.99	3.79	228.46	4,747.50	-444.46	-501.75	-444.46	1.50	-1.50	0.00
4,899.99	2.29	228.46	4,847.36	-447.98	-505.72	-447.98	1.50	-1.50	0.00
4,999.99	0.79	228.46	4,947.32	-449.76	-507.73	-449.76	1.50	-1.50	0.00
5,052.68	0.00	0.00	5,000.00	-450.00	-508.00	-450.00	1.50	-1.50	0.00
Start 2931.12 hold at 5052.68 MD									
5,099.99	0.00	0.00	5,047.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
5,199.99	0.00	0.00	5,147.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
5,299.99	0.00	0.00	5,247.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
5,399.99	0.00	0.00	5,347.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
5,499.99	0.00	0.00	5,447.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
5,599.99	0.00	0.00	5,547.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
5,699.99	0.00	0.00	5,647.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
5,799.99	0.00	0.00	5,747.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
5,899.99	0.00	0.00	5,847.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
5,999.99	0.00	0.00	5,947.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
6,099.99	0.00	0.00	6,047.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
6,199.99	0.00	0.00	6,147.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
6,299.99	0.00	0.00	6,247.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
6,399.99	0.00	0.00	6,347.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
6,499.99	0.00	0.00	6,447.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
6,599.99	0.00	0.00	6,547.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
6,699.99	0.00	0.00	6,647.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
6,799.99	0.00	0.00	6,747.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
6,899.99	0.00	0.00	6,847.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
6,999.99	0.00	0.00	6,947.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
7,099.99	0.00	0.00	7,047.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
7,199.99	0.00	0.00	7,147.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
7,299.99	0.00	0.00	7,247.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
7,399.99	0.00	0.00	7,347.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
7,499.99	0.00	0.00	7,447.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
7,599.98	0.00	0.00	7,547.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
7,699.98	0.00	0.00	7,647.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
7,799.98	0.00	0.00	7,747.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
7,899.98	0.00	0.00	7,847.31	-450.00	-508.00	-450.00	0.00	0.00	0.00
7,983.80	0.00	0.00	7,931.12	-450.00	-508.00	-450.00	0.00	0.00	0.00
Start Build 10.00									
7,999.98	1.62	0.44	7,947.31	-449.77	-508.00	-449.77	10.00	10.00	0.00
8,099.98	11.62	0.44	8,046.51	-438.26	-507.91	-438.26	10.00	10.00	0.00
8,199.98	21.62	0.44	8,142.21	-409.70	-507.69	-409.70	10.00	10.00	0.00
8,299.98	31.62	0.44	8,231.50	-364.95	-507.34	-364.95	10.00	10.00	0.00
8,330.44	34.66	0.44	8,257.00	-348.30	-507.21	-348.30	10.00	10.00	0.00
Niobrara									
8,399.98	41.62	0.44	8,311.66	-305.38	-506.88	-305.38	10.00	10.00	0.00
8,499.98	51.62	0.44	8,380.26	-232.79	-506.32	-232.79	10.00	10.00	0.00
8,599.98	61.62	0.44	8,435.21	-149.40	-505.67	-149.40	10.00	10.00	0.00
8,699.98	71.62	0.44	8,474.85	-57.73	-504.96	-57.73	10.00	10.00	0.00
8,799.98	81.62	0.44	8,497.96	39.43	-504.21	39.43	10.00	10.00	0.00
8,834.98	85.12	0.44	8,502.00	74.19	-503.94	74.19	10.00	10.00	0.00
Codell									

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Site RESOLUTION 12-65-25-25-4CH PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5877.00usft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5877.00usft (Original Well Elev)
Site:	RESOLUTION 12-65-25-25-4CH PAD	North Reference:	True
Well:	RESOLUTION 12-65-25-25-4CH	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)	
8,884.80	90.10	0.44	8,504.08	123.94	-503.55	123.94	10.00	10.00	0.00	
Start 4055.06 hold at 8884.80 MD - 7"										
8,899.98	90.10	0.44	8,504.05	139.13	-503.44	139.13	0.00	0.00	0.00	
8,999.98	90.10	0.44	8,503.88	239.12	-502.66	239.12	0.00	0.00	0.00	
9,099.98	90.10	0.44	8,503.70	339.12	-501.89	339.12	0.00	0.00	0.00	
9,199.98	90.10	0.44	8,503.53	439.12	-501.11	439.12	0.00	0.00	0.00	
9,299.98	90.10	0.44	8,503.35	539.11	-500.34	539.11	0.00	0.00	0.00	
9,399.98	90.10	0.44	8,503.18	639.11	-499.56	639.11	0.00	0.00	0.00	
9,499.98	90.10	0.44	8,503.00	739.11	-498.79	739.11	0.00	0.00	0.00	
9,599.98	90.10	0.44	8,502.83	839.10	-498.02	839.10	0.00	0.00	0.00	
9,699.98	90.10	0.44	8,502.65	939.10	-497.24	939.10	0.00	0.00	0.00	
9,799.98	90.10	0.44	8,502.48	1,039.10	-496.47	1,039.10	0.00	0.00	0.00	
9,899.98	90.10	0.44	8,502.31	1,139.09	-495.69	1,139.09	0.00	0.00	0.00	
9,999.98	90.10	0.44	8,502.13	1,239.09	-494.92	1,239.09	0.00	0.00	0.00	
10,099.98	90.10	0.44	8,501.96	1,339.09	-494.14	1,339.09	0.00	0.00	0.00	
10,199.98	90.10	0.44	8,501.78	1,439.08	-493.37	1,439.08	0.00	0.00	0.00	
10,299.98	90.10	0.44	8,501.61	1,539.08	-492.59	1,539.08	0.00	0.00	0.00	
10,399.98	90.10	0.44	8,501.43	1,639.08	-491.82	1,639.08	0.00	0.00	0.00	
10,499.98	90.10	0.44	8,501.26	1,739.07	-491.05	1,739.07	0.00	0.00	0.00	
10,599.98	90.10	0.44	8,501.08	1,839.07	-490.27	1,839.07	0.00	0.00	0.00	
10,699.98	90.10	0.44	8,500.91	1,939.07	-489.50	1,939.07	0.00	0.00	0.00	
10,799.98	90.10	0.44	8,500.73	2,039.06	-488.72	2,039.06	0.00	0.00	0.00	
10,899.98	90.10	0.44	8,500.56	2,139.06	-487.95	2,139.06	0.00	0.00	0.00	
10,999.98	90.10	0.44	8,500.39	2,239.06	-487.17	2,239.06	0.00	0.00	0.00	
11,099.98	90.10	0.44	8,500.21	2,339.05	-486.40	2,339.05	0.00	0.00	0.00	
11,199.98	90.10	0.44	8,500.04	2,439.05	-485.62	2,439.05	0.00	0.00	0.00	
11,299.98	90.10	0.44	8,499.86	2,539.05	-484.85	2,539.05	0.00	0.00	0.00	
11,399.98	90.10	0.44	8,499.69	2,639.04	-484.08	2,639.04	0.00	0.00	0.00	
11,499.98	90.10	0.44	8,499.51	2,739.04	-483.30	2,739.04	0.00	0.00	0.00	
11,599.98	90.10	0.44	8,499.34	2,839.04	-482.53	2,839.04	0.00	0.00	0.00	
11,699.98	90.10	0.44	8,499.16	2,939.03	-481.75	2,939.03	0.00	0.00	0.00	
11,799.98	90.10	0.44	8,498.99	3,039.03	-480.98	3,039.03	0.00	0.00	0.00	
11,899.98	90.10	0.44	8,498.82	3,139.03	-480.20	3,139.03	0.00	0.00	0.00	
11,999.98	90.10	0.44	8,498.64	3,239.02	-479.43	3,239.02	0.00	0.00	0.00	
12,099.98	90.10	0.44	8,498.47	3,339.02	-478.65	3,339.02	0.00	0.00	0.00	
12,199.98	90.10	0.44	8,498.29	3,439.02	-477.88	3,439.02	0.00	0.00	0.00	
12,299.98	90.10	0.44	8,498.12	3,539.01	-477.11	3,539.01	0.00	0.00	0.00	
12,399.98	90.10	0.44	8,497.94	3,639.01	-476.33	3,639.01	0.00	0.00	0.00	
12,499.98	90.10	0.44	8,497.77	3,739.01	-475.56	3,739.01	0.00	0.00	0.00	
12,599.98	90.10	0.44	8,497.59	3,839.00	-474.78	3,839.00	0.00	0.00	0.00	
12,699.97	90.10	0.44	8,497.42	3,939.00	-474.01	3,939.00	0.00	0.00	0.00	
12,799.97	90.10	0.44	8,497.24	4,039.00	-473.23	4,039.00	0.00	0.00	0.00	
12,899.97	90.10	0.44	8,497.07	4,138.99	-472.46	4,138.99	0.00	0.00	0.00	
12,939.85	90.10	0.44	8,497.00	4,178.87	-472.15	4,178.87	0.00	0.00	0.00	
TD at 12939.85										

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Site RESOLUTION 12-65-25-25-4CH PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5877.00usft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5877.00usft (Original Well Elev)
Site:	RESOLUTION 12-65-25-25-4CH PAD	North Reference:	True
Well:	RESOLUTION 12-65-25-25-4CH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN #1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
RESOLUTION 12-65-25	0.00	0.00	8,497.00	4,178.87	-472.15	1,602,556.67	3,246,176.19	40.983978	-104.608401
- plan hits target center									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name		Casing Diameter	Hole Diameter
(usft)	(usft)			(")	(")
2,220.63	2,200.00	9 5/8"		9-5/8	12-1/4
8,884.80	8,504.08	7"		7	7-1/2

Formations						
Measured Depth	Vertical Depth	Name		Lithology	Dip	Dip Direction
(usft)	(usft)				(°)	(°)
1,999.70	1,982.00	Aquifer (Fox Hills)				
8,330.44	8,257.00	Niobrara				
8,834.98	8,502.00	Codell				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(usft)	(usft)	+N/-S	+E/-W		
(usft)	(usft)	(usft)	(usft)		
250.00	250.00	0.00	0.00	Start Build 1.50	
872.71	869.95	-33.58	-37.91	Start 3557.26 hold at 872.71 MD	
4,429.97	4,380.05	-416.42	-470.09	Start Drop -1.50	
5,052.68	5,000.00	-450.00	-508.00	Start 2931.12 hold at 5052.68 MD	
7,983.80	7,931.12	-450.00	-508.00	Start Build 10.00	
8,884.80	8,504.08	123.94	-503.55	Start 4055.06 hold at 8884.80 MD	
12,939.85	8,497.00	4,178.87	-472.15	TD at 12939.85	