

SECTION DETAILS

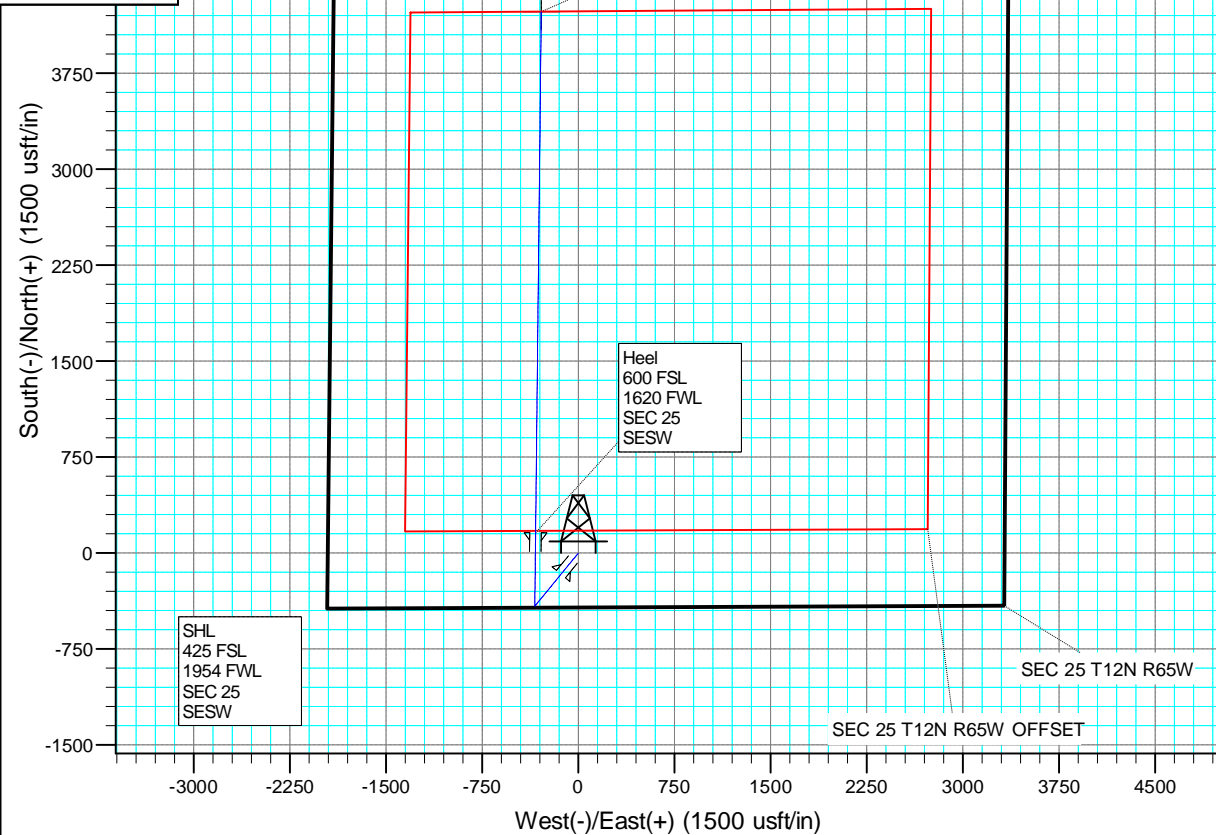
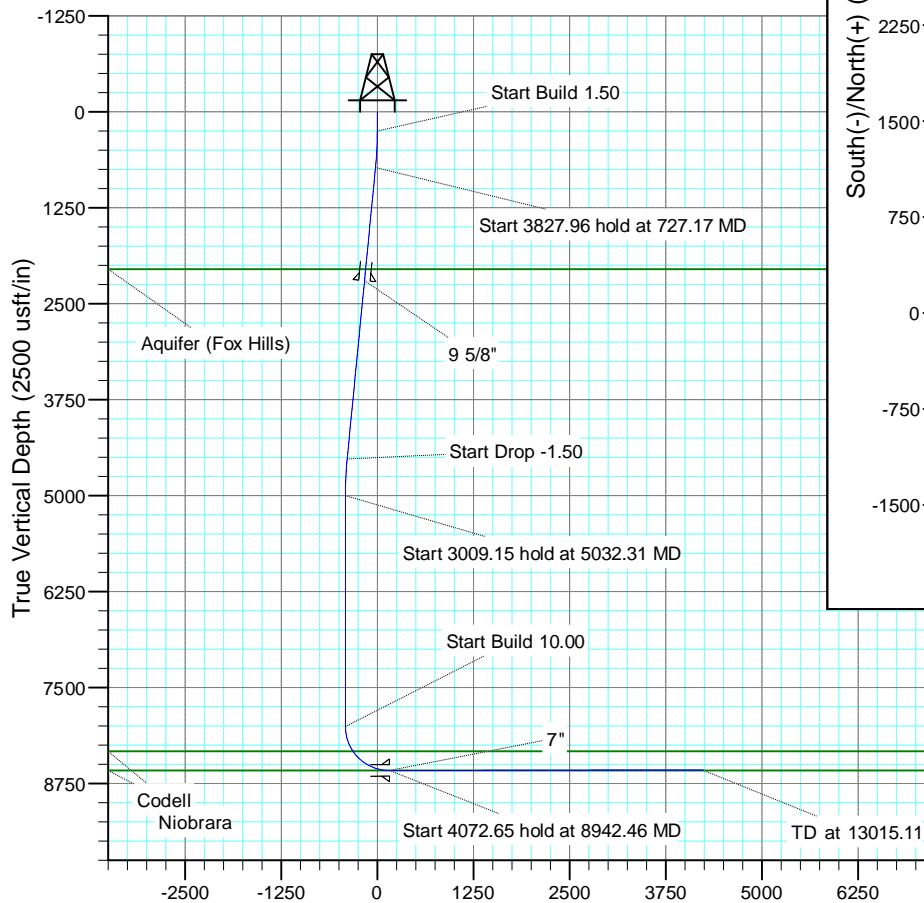
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00
727.17	7.16	219.33	725.93	-23.03	-18.86	1.50	219.33	-23.03
4555.14	7.16	219.33	4524.07	-391.97	-321.14	0.00	0.00	-391.97
5032.31	0.00	0.00	5000.00	-415.00	-340.00	1.50	180.00	-415.00
8041.46	0.00	0.00	8009.15	-415.00	-340.00	0.00	0.00	-415.00
8942.46	90.10	0.62	8582.11	158.92	-333.81	10.00	0.62	158.92
13015.11	90.10	0.62	8575.00	4231.33	-289.92	0.00	0.00	4231.33

BHL
600 FNL
1620 FWL
SEC 25
NENW

RESOLUTION 12-65-25-25-2CH PBHL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2050.00	2061.64	Aquifer (Fox Hills)
8330.00	8382.01	Niobrara
8580.00	8892.29	Codell



US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

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

RESOLUTION 12-65-25-25-2CH

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 12-65-25-25-2CH	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 12-65-25-25-2CH			
Well Position	+N/-S	0.00 usft	Northing:	1,598,305.89 usft
	+E/-W	0.00 usft	Easting:	3,245,166.71 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	0.00	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	
727.17	7.16	219.33	725.93	-23.03	-18.86	1.50	1.50	0.00	219.33	
4,555.14	7.16	219.33	4,524.07	-391.97	-321.14	0.00	0.00	0.00	0.00	
5,032.31	0.00	0.00	5,000.00	-415.00	-340.00	1.50	-1.50	0.00	180.00	
8,041.46	0.00	0.00	8,009.15	-415.00	-340.00	0.00	0.00	0.00	0.00	
8,942.46	90.10	0.62	8,582.11	158.92	-333.81	10.00	10.00	0.00	0.62	
13,015.11	90.10	0.62	8,575.00	4,231.33	-289.92	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 12-65-25-25-2CH	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	219.33	300.00	-0.25	-0.21	-0.25	1.50	1.50	0.00
400.00	2.25	219.33	399.96	-2.28	-1.87	-2.28	1.50	1.50	0.00
500.00	3.75	219.33	499.82	-6.33	-5.18	-6.33	1.50	1.50	0.00
600.00	5.25	219.33	599.51	-12.40	-10.16	-12.40	1.50	1.50	0.00
700.00	6.75	219.33	698.96	-20.48	-16.78	-20.48	1.50	1.50	0.00
727.17	7.16	219.33	725.93	-23.03	-18.86	-23.03	1.50	1.50	0.00
Start 3827.96 hold at 727.17 MD									
800.00	7.16	219.33	798.19	-30.04	-24.61	-30.04	0.00	0.00	0.00
900.00	7.16	219.33	897.41	-39.68	-32.51	-39.68	0.00	0.00	0.00
1,000.00	7.16	219.33	996.63	-49.32	-40.41	-49.32	0.00	0.00	0.00
1,100.00	7.16	219.33	1,095.85	-58.96	-48.30	-58.96	0.00	0.00	0.00
1,200.00	7.16	219.33	1,195.07	-68.60	-56.20	-68.60	0.00	0.00	0.00
1,300.00	7.16	219.33	1,294.29	-78.24	-64.10	-78.24	0.00	0.00	0.00
1,400.00	7.16	219.33	1,393.51	-87.87	-71.99	-87.87	0.00	0.00	0.00
1,500.00	7.16	219.33	1,492.73	-97.51	-79.89	-97.51	0.00	0.00	0.00
1,600.00	7.16	219.33	1,591.95	-107.15	-87.79	-107.15	0.00	0.00	0.00
1,700.00	7.16	219.33	1,691.18	-116.79	-95.68	-116.79	0.00	0.00	0.00
1,800.00	7.16	219.33	1,790.40	-126.43	-103.58	-126.43	0.00	0.00	0.00
1,900.00	7.16	219.33	1,889.62	-136.07	-111.48	-136.07	0.00	0.00	0.00
2,000.00	7.16	219.33	1,988.84	-145.70	-119.37	-145.70	0.00	0.00	0.00
2,061.64	7.16	219.33	2,050.00	-151.64	-124.24	-151.64	0.00	0.00	0.00
Aquifer (Fox Hills)									
2,100.00	7.16	219.33	2,088.06	-155.34	-127.27	-155.34	0.00	0.00	0.00
2,200.00	7.16	219.33	2,187.28	-164.98	-135.16	-164.98	0.00	0.00	0.00
2,212.82	7.16	219.33	2,200.00	-166.22	-136.18	-166.22	0.00	0.00	0.00
9 5/8"									
2,300.00	7.16	219.33	2,286.50	-174.62	-143.06	-174.62	0.00	0.00	0.00
2,400.00	7.16	219.33	2,385.72	-184.26	-150.96	-184.26	0.00	0.00	0.00
2,500.00	7.16	219.33	2,484.94	-193.89	-158.85	-193.89	0.00	0.00	0.00
2,599.99	7.16	219.33	2,584.16	-203.53	-166.75	-203.53	0.00	0.00	0.00
2,699.99	7.16	219.33	2,683.38	-213.17	-174.65	-213.17	0.00	0.00	0.00
2,799.99	7.16	219.33	2,782.60	-222.81	-182.54	-222.81	0.00	0.00	0.00
2,899.99	7.16	219.33	2,881.82	-232.45	-190.44	-232.45	0.00	0.00	0.00
2,999.99	7.16	219.33	2,981.04	-242.09	-198.34	-242.09	0.00	0.00	0.00
3,099.99	7.16	219.33	3,080.26	-251.72	-206.23	-251.72	0.00	0.00	0.00
3,199.99	7.16	219.33	3,179.48	-261.36	-214.13	-261.36	0.00	0.00	0.00
3,299.99	7.16	219.33	3,278.70	-271.00	-222.02	-271.00	0.00	0.00	0.00
3,399.99	7.16	219.33	3,377.92	-280.64	-229.92	-280.64	0.00	0.00	0.00
3,499.99	7.16	219.33	3,477.14	-290.28	-237.82	-290.28	0.00	0.00	0.00
3,599.99	7.16	219.33	3,576.37	-299.92	-245.71	-299.92	0.00	0.00	0.00
3,699.99	7.16	219.33	3,675.59	-309.55	-253.61	-309.55	0.00	0.00	0.00
3,799.99	7.16	219.33	3,774.81	-319.19	-261.51	-319.19	0.00	0.00	0.00
3,899.99	7.16	219.33	3,874.03	-328.83	-269.40	-328.83	0.00	0.00	0.00
3,999.99	7.16	219.33	3,973.25	-338.47	-277.30	-338.47	0.00	0.00	0.00
4,099.99	7.16	219.33	4,072.47	-348.11	-285.20	-348.11	0.00	0.00	0.00
4,199.99	7.16	219.33	4,171.69	-357.74	-293.09	-357.74	0.00	0.00	0.00
4,299.99	7.16	219.33	4,270.91	-367.38	-300.99	-367.38	0.00	0.00	0.00
4,399.99	7.16	219.33	4,370.13	-377.02	-308.88	-377.02	0.00	0.00	0.00
4,499.99	7.16	219.33	4,469.35	-386.66	-316.78	-386.66	0.00	0.00	0.00

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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 12-65-25-25-2CH	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)
4,555.14	7.16	219.33	4,524.07	-391.97	-321.14	-391.97	0.00	0.00	0.00
Start Drop -1.50									
4,599.99	6.48	219.33	4,568.60	-396.10	-324.51	-396.10	1.50	-1.50	0.00
4,699.99	4.98	219.33	4,668.10	-403.82	-330.84	-403.82	1.50	-1.50	0.00
4,799.99	3.48	219.33	4,767.82	-409.54	-335.52	-409.54	1.50	-1.50	0.00
4,899.99	1.98	219.33	4,867.71	-413.23	-338.55	-413.23	1.50	-1.50	0.00
4,999.99	0.48	219.33	4,967.68	-414.89	-339.91	-414.89	1.50	-1.50	0.00
5,032.31	0.00	0.00	5,000.00	-415.00	-340.00	-415.00	1.50	-1.50	0.00
Start 3009.15 hold at 5032.31 MD									
5,099.99	0.00	0.00	5,067.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
5,199.99	0.00	0.00	5,167.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
5,299.99	0.00	0.00	5,267.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
5,399.99	0.00	0.00	5,367.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
5,499.99	0.00	0.00	5,467.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
5,599.99	0.00	0.00	5,567.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
5,699.99	0.00	0.00	5,667.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
5,799.99	0.00	0.00	5,767.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
5,899.99	0.00	0.00	5,867.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
5,999.99	0.00	0.00	5,967.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
6,099.99	0.00	0.00	6,067.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
6,199.99	0.00	0.00	6,167.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
6,299.99	0.00	0.00	6,267.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
6,399.99	0.00	0.00	6,367.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
6,499.99	0.00	0.00	6,467.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
6,599.99	0.00	0.00	6,567.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
6,699.99	0.00	0.00	6,667.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
6,799.99	0.00	0.00	6,767.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
6,899.99	0.00	0.00	6,867.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
6,999.99	0.00	0.00	6,967.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
7,099.99	0.00	0.00	7,067.68	-415.00	-340.00	-415.00	0.00	0.00	0.00
7,199.99	0.00	0.00	7,167.67	-415.00	-340.00	-415.00	0.00	0.00	0.00
7,299.99	0.00	0.00	7,267.67	-415.00	-340.00	-415.00	0.00	0.00	0.00
7,399.99	0.00	0.00	7,367.67	-415.00	-340.00	-415.00	0.00	0.00	0.00
7,499.99	0.00	0.00	7,467.67	-415.00	-340.00	-415.00	0.00	0.00	0.00
7,599.98	0.00	0.00	7,567.67	-415.00	-340.00	-415.00	0.00	0.00	0.00
7,699.98	0.00	0.00	7,667.67	-415.00	-340.00	-415.00	0.00	0.00	0.00
7,799.98	0.00	0.00	7,767.67	-415.00	-340.00	-415.00	0.00	0.00	0.00
7,899.98	0.00	0.00	7,867.67	-415.00	-340.00	-415.00	0.00	0.00	0.00
7,999.98	0.00	0.00	7,967.67	-415.00	-340.00	-415.00	0.00	0.00	0.00
8,041.46	0.00	0.00	8,009.15	-415.00	-340.00	-415.00	0.00	0.00	0.00
Start Build 10.00									
8,099.98	5.85	0.62	8,067.57	-412.01	-339.97	-412.01	10.00	10.00	0.00
8,199.98	15.85	0.62	8,165.66	-393.21	-339.77	-393.21	10.00	10.00	0.00
8,299.98	25.85	0.62	8,258.99	-357.66	-339.38	-357.66	10.00	10.00	0.00
8,382.01	34.05	0.62	8,330.00	-316.74	-338.94	-316.74	10.00	10.00	0.00
Niobrara									
8,399.98	35.85	0.62	8,344.73	-306.45	-338.83	-306.45	10.00	10.00	0.00
8,499.98	45.85	0.62	8,420.27	-241.12	-338.13	-241.12	10.00	10.00	0.00
8,599.98	55.85	0.62	8,483.33	-163.68	-337.29	-163.68	10.00	10.00	0.00
8,699.98	65.85	0.62	8,531.97	-76.46	-336.35	-76.46	10.00	10.00	0.00
8,799.98	75.85	0.62	8,564.73	17.89	-335.33	17.89	10.00	10.00	0.00
8,892.29	85.08	0.62	8,580.00	108.81	-334.35	108.81	10.00	10.00	0.00
Codell									

Anadarko

Planning Report

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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 12-65-25-25-2CH	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	85.85	0.62	8,580.61	116.48	-334.27	116.48	10.00	10.00	0.00
8,942.46	90.10	0.62	8,582.11	158.92	-333.81	158.92	10.00	10.00	0.00
Start 4072.65 hold at 8942.46 MD - 7"									
8,999.98	90.10	0.62	8,582.01	216.44	-333.19	216.44	0.00	0.00	0.00
9,099.98	90.10	0.62	8,581.83	316.43	-332.12	316.43	0.00	0.00	0.00
9,199.98	90.10	0.62	8,581.66	416.43	-331.04	416.43	0.00	0.00	0.00
9,299.98	90.10	0.62	8,581.48	516.42	-329.96	516.42	0.00	0.00	0.00
9,399.98	90.10	0.62	8,581.31	616.42	-328.88	616.42	0.00	0.00	0.00
9,499.98	90.10	0.62	8,581.14	716.41	-327.80	716.41	0.00	0.00	0.00
9,599.98	90.10	0.62	8,580.96	816.40	-326.73	816.40	0.00	0.00	0.00
9,699.98	90.10	0.62	8,580.79	916.40	-325.65	916.40	0.00	0.00	0.00
9,799.98	90.10	0.62	8,580.61	1,016.39	-324.57	1,016.39	0.00	0.00	0.00
9,899.98	90.10	0.62	8,580.44	1,116.39	-323.49	1,116.39	0.00	0.00	0.00
9,999.98	90.10	0.62	8,580.26	1,216.38	-322.42	1,216.38	0.00	0.00	0.00
10,099.98	90.10	0.62	8,580.09	1,316.37	-321.34	1,316.37	0.00	0.00	0.00
10,199.98	90.10	0.62	8,579.91	1,416.37	-320.26	1,416.37	0.00	0.00	0.00
10,299.98	90.10	0.62	8,579.74	1,516.36	-319.18	1,516.36	0.00	0.00	0.00
10,399.98	90.10	0.62	8,579.56	1,616.35	-318.10	1,616.35	0.00	0.00	0.00
10,499.98	90.10	0.62	8,579.39	1,716.35	-317.03	1,716.35	0.00	0.00	0.00
10,599.98	90.10	0.62	8,579.22	1,816.34	-315.95	1,816.34	0.00	0.00	0.00
10,699.98	90.10	0.62	8,579.04	1,916.34	-314.87	1,916.34	0.00	0.00	0.00
10,799.98	90.10	0.62	8,578.87	2,016.33	-313.79	2,016.33	0.00	0.00	0.00
10,899.98	90.10	0.62	8,578.69	2,116.32	-312.71	2,116.32	0.00	0.00	0.00
10,999.98	90.10	0.62	8,578.52	2,216.32	-311.64	2,216.32	0.00	0.00	0.00
11,099.98	90.10	0.62	8,578.34	2,316.31	-310.56	2,316.31	0.00	0.00	0.00
11,199.98	90.10	0.62	8,578.17	2,416.31	-309.48	2,416.31	0.00	0.00	0.00
11,299.98	90.10	0.62	8,577.99	2,516.30	-308.40	2,516.30	0.00	0.00	0.00
11,399.98	90.10	0.62	8,577.82	2,616.29	-307.33	2,616.29	0.00	0.00	0.00
11,499.98	90.10	0.62	8,577.64	2,716.29	-306.25	2,716.29	0.00	0.00	0.00
11,599.98	90.10	0.62	8,577.47	2,816.28	-305.17	2,816.28	0.00	0.00	0.00
11,699.98	90.10	0.62	8,577.30	2,916.27	-304.09	2,916.27	0.00	0.00	0.00
11,799.98	90.10	0.62	8,577.12	3,016.27	-303.01	3,016.27	0.00	0.00	0.00
11,899.98	90.10	0.62	8,576.95	3,116.26	-301.94	3,116.26	0.00	0.00	0.00
11,999.98	90.10	0.62	8,576.77	3,216.26	-300.86	3,216.26	0.00	0.00	0.00
12,099.98	90.10	0.62	8,576.60	3,316.25	-299.78	3,316.25	0.00	0.00	0.00
12,199.98	90.10	0.62	8,576.42	3,416.24	-298.70	3,416.24	0.00	0.00	0.00
12,299.98	90.10	0.62	8,576.25	3,516.24	-297.62	3,516.24	0.00	0.00	0.00
12,399.98	90.10	0.62	8,576.07	3,616.23	-296.55	3,616.23	0.00	0.00	0.00
12,499.98	90.10	0.62	8,575.90	3,716.23	-295.47	3,716.23	0.00	0.00	0.00
12,599.98	90.10	0.62	8,575.72	3,816.22	-294.39	3,816.22	0.00	0.00	0.00
12,699.97	90.10	0.62	8,575.55	3,916.21	-293.31	3,916.21	0.00	0.00	0.00
12,799.97	90.10	0.62	8,575.38	4,016.21	-292.24	4,016.21	0.00	0.00	0.00
12,899.97	90.10	0.62	8,575.20	4,116.20	-291.16	4,116.20	0.00	0.00	0.00
12,999.97	90.10	0.62	8,575.03	4,216.19	-290.08	4,216.19	0.00	0.00	0.00
13,015.11	90.10	0.62	8,575.00	4,231.33	-289.92	4,231.33	0.00	0.00	0.00
TD at 13015.11									

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 12-65-25-25-2CH	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	8,575.00	4,231.33	-289.92	1,602,534.11	3,244,834.44	40.983953	-104.613261
- plan hits target center									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name		Casing Diameter	Hole Diameter
(usft)	(usft)			(")	(")
2,212.82	2,200.00	9 5/8"		9-5/8	12-1/4
8,942.46	8,582.11	7"		7	7-1/2

Formations					
Measured Depth	Vertical Depth	Name		Dip	Dip Direction
(usft)	(usft)			(°)	(°)
2,061.64	2,050.00	Aquifer (Fox Hills)			
8,382.01	8,330.00	Niobrara			
8,892.29	8,580.00	Codell			

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
250.00	250.00	0.00	0.00	Start Build 1.50	
727.17	725.93	-23.03	-18.86	Start 3827.96 hold at 727.17 MD	
4,555.14	4,524.07	-391.97	-321.14	Start Drop -1.50	
5,032.31	5,000.00	-415.00	-340.00	Start 3009.15 hold at 5032.31 MD	
8,041.46	8,009.15	-415.00	-340.00	Start Build 10.00	
8,942.46	8,582.11	158.92	-333.81	Start 4072.65 hold at 8942.46 MD	
13,015.11	8,575.00	4,231.33	-289.92	TD at 13015.11	