

# **US ROCKIES WATTENBERG PLANNING**

**WELD-NAD83-UTMFT13N  
1N-66W-09 FITZSIMMONS 3-9HZ  
FITZSIMMONS 36C-9HZ**

**Plan A**

**Plan: Permit Rev-1**

## **Standard Planning Report**

**02 June, 2016**



Azimuths to True North  
Magnetic North: 8.18°

Magnetic Field  
Strength: 52433.3snT  
Dip Angle: 66.61°  
Date: 5/31/2016  
Model: IGRF2010

SITE: 1N-66W-09 FITZSIMMONS 3-9HZ

Well: FITZSIMMONS 36C-9HZ  
Wellbore: Plan A  
Design: Permit Rev-1

#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1467.00	1488.13	Fox Hills
4812.00	4959.91	Sussex
7121.00	7277.46	Sharon Springs
7160.00	7321.12	Niobrara
7272.00	7457.83	Nio B
7330.00	7539.41	Nio C
7460.00	7802.50	Fort Hayes
7483.00	7900.67	Codell

#### WELL DETAILS: FITZSIMMONS 36C-9HZ

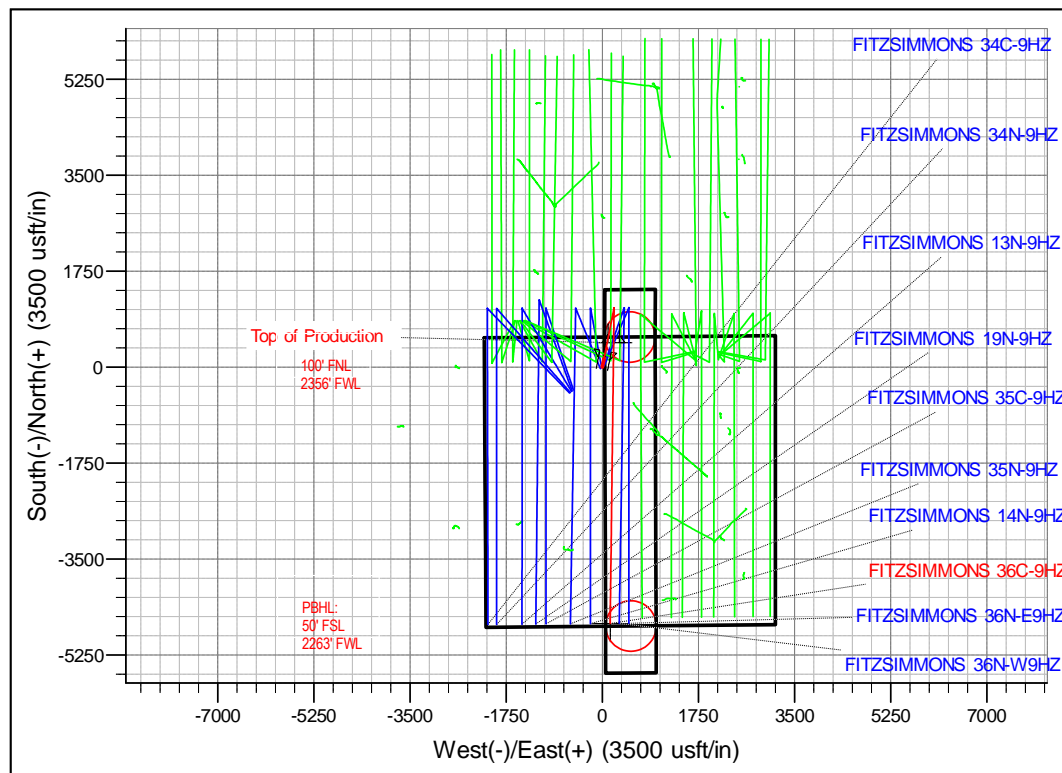
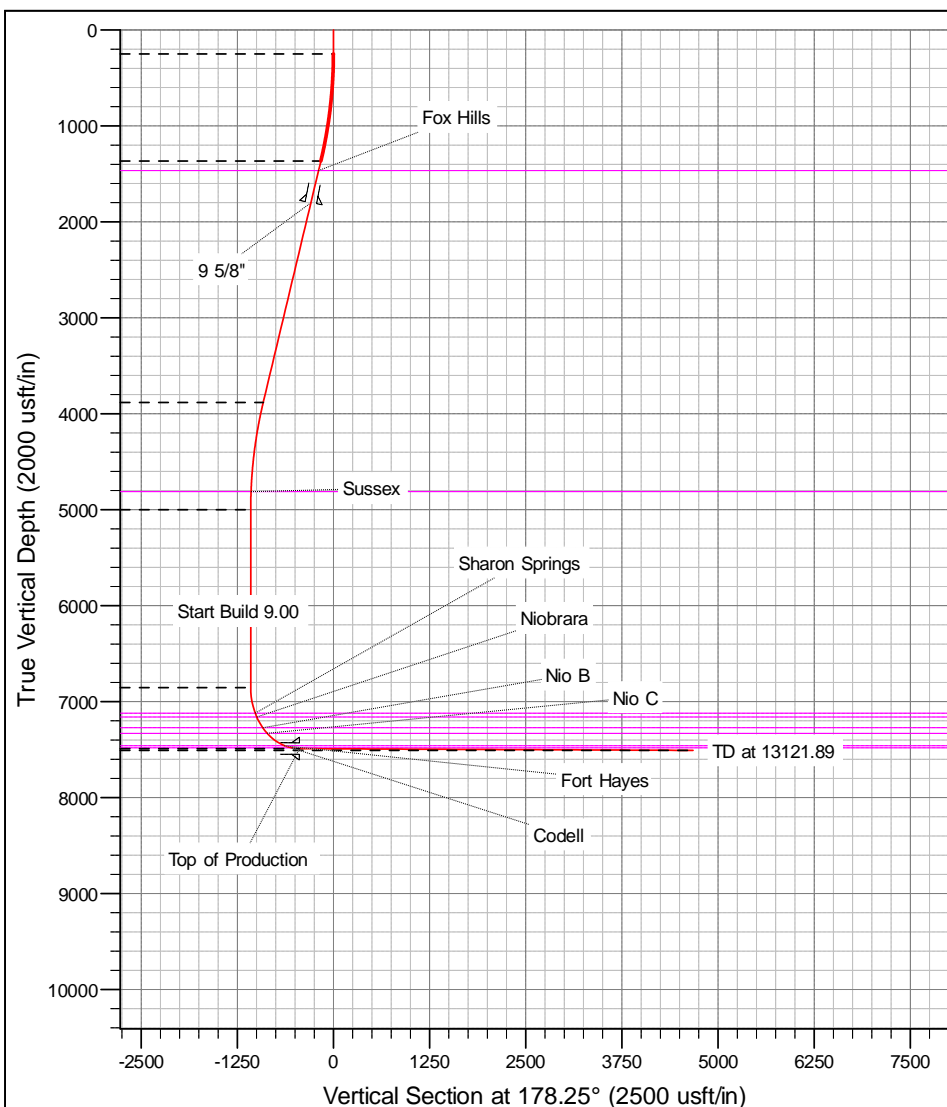
+N/-S	+E/-W	GL: 4990.00	RKB @ 5007.00usft (D Rig)	Longitude	Slot
0.00	0.00	Northing 14552829.52	Easting 1700840.95	Latitude 40.071463	
				Longitude -104.784013	

#### SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect
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
1382.83	16.99	11.15	1386.30	163.61	32.24	1.50	-162.55
4015.15	16.99	11.15	3883.70	918.39	180.94	0.00	-912.42
5147.99	0.00	0.00	5000.00	1082.00	213.18	1.50	-1074.96
7002.49	0.00	0.00	6854.51	1082.00	213.18	0.00	-1074.96
8000.27	89.80	180.70	7491.12	447.65	205.46	9.00	-441.15
13121.89	89.80	180.70	7509.00	-4673.56	143.18	0.00	4675.75

#### DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FITZSIMMONS 36C-9HZ_PHL	7491.12	447.65	205.46	14553277.67	1701045.33	40.072692	-104.783279
FITZSIMMONS 36C-9HZ_PBHL	7509.00	-4673.56	143.18	14548156.32	1700995.47	40.058629	-104.783501



# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well FITZSIMMONS 36C-9HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB @ 5007.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB @ 5007.00usft (D Rig)
<b>Site:</b>	1N-66W-09 FITZSIMMONS 3-9HZ	<b>North Reference:</b>	True
<b>Well:</b>	FITZSIMMONS 36C-9HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-1		

<b>Project</b>	WELD-NAD83-UTMFT13N		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Zone 13N (108 W to 102 W)		

Site						1N-66W-09 FITZSIMMONS 3-9HZ											
Site Position:						Northing:			14,552,801.75 usft			Latitude:			40.071387		
From:			Lat/Long			Easting:			1,700,805.49 usft			Longitude:			-104.784140		
Position Uncertainty:			0.00 usft			Slot Radius:			13-3/16 "			Grid Convergence:			0.14		

Well	FITZSIMMONS 36C-9HZ					
Well Position	+N/-S	27.68 usft	Northing:	14,552,829.51 usft	Latitude:	40.071463
	+E/-W	35.53 usft	Easting:	1,700,840.95 usft	Longitude:	-104.784013
Position Uncertainty		3.28 usft	Wellhead Elevation:	0.00 usft	Ground Level:	4,990.00 usft

<b>Wellbore</b>	Plan A				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	5/31/2016	8.18	66.61	52,433

<b>Design</b>	Permit Rev-1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<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	0.00	0.00	178.25

<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	0.00	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	
1,382.83	16.99	11.15	1,366.30	163.61	32.24	1.50	1.50	0.00	11.15	
4,015.15	16.99	11.15	3,883.70	918.39	180.94	0.00	0.00	0.00	0.00	
5,147.99	0.00	0.00	5,000.00	1,082.00	213.18	1.50	-1.50	0.00	180.00	
7,002.49	0.00	0.00	6,854.51	1,082.00	213.18	0.00	0.00	0.00	0.00	
8,000.27	89.80	180.70	7,491.12	447.65	205.46	9.00	9.00	0.00	180.70	
13,121.89	89.80	180.70	7,509.00	-4,673.56	143.18	0.00	0.00	0.00	0.00	FITZSIMMONS 36C

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well FITZSIMMONS 36C-9HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB @ 5007.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB @ 5007.00usft (D Rig)
<b>Site:</b>	1N-66W-09 FITZSIMMONS 3-9HZ	<b>North Reference:</b>	True
<b>Well:</b>	FITZSIMMONS 36C-9HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-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
300.00	0.75	11.15	300.00	0.32	0.06	-0.32	1.50	1.50	0.00
400.00	2.25	11.15	399.96	2.89	0.57	-2.87	1.50	1.50	0.00
500.00	3.75	11.15	499.82	8.02	1.58	-7.97	1.50	1.50	0.00
600.00	5.25	11.15	599.51	15.72	3.10	-15.62	1.50	1.50	0.00
700.00	6.75	11.15	698.96	25.98	5.12	-25.81	1.50	1.50	0.00
800.00	8.25	11.15	798.10	38.78	7.64	-38.53	1.50	1.50	0.00
900.00	9.75	11.15	896.87	54.13	10.67	-53.78	1.50	1.50	0.00
1,000.00	11.25	11.15	995.19	72.01	14.19	-71.54	1.50	1.50	0.00
1,100.00	12.75	11.15	1,093.00	92.41	18.21	-91.81	1.50	1.50	0.00
1,200.00	14.25	11.15	1,190.24	115.31	22.72	-114.56	1.50	1.50	0.00
1,300.00	15.75	11.15	1,286.83	140.71	27.72	-139.79	1.50	1.50	0.00
1,382.83	16.99	11.15	1,366.30	163.61	32.24	-162.55	1.50	1.50	0.00
1,400.00	16.99	11.15	1,382.72	168.53	33.21	-167.44	0.00	0.00	0.00
1,488.13	16.99	11.15	1,467.00	193.80	38.18	-192.54	0.00	0.00	0.00
<b>Fox Hills</b>									
1,500.00	16.99	11.15	1,478.35	197.21	38.85	-195.93	0.00	0.00	0.00
1,600.00	16.99	11.15	1,573.99	225.88	44.50	-224.41	0.00	0.00	0.00
1,700.00	16.99	11.15	1,669.62	254.55	50.15	-252.90	0.00	0.00	0.00
1,800.00	16.99	11.15	1,765.25	283.23	55.80	-281.39	0.00	0.00	0.00
1,836.33	16.99	11.15	1,800.00	293.65	57.86	-291.74	0.00	0.00	0.00
<b>9 5/8"</b>									
1,900.00	16.99	11.15	1,860.89	311.90	61.45	-309.87	0.00	0.00	0.00
2,000.00	16.99	11.15	1,956.52	340.57	67.10	-338.36	0.00	0.00	0.00
2,100.00	16.99	11.15	2,052.16	369.25	72.75	-366.85	0.00	0.00	0.00
2,200.00	16.99	11.15	2,147.79	397.92	78.40	-395.33	0.00	0.00	0.00
2,300.00	16.99	11.15	2,243.43	426.60	84.05	-423.82	0.00	0.00	0.00
2,400.00	16.99	11.15	2,339.06	455.27	89.70	-452.31	0.00	0.00	0.00
2,500.00	16.99	11.15	2,434.69	483.94	95.35	-480.80	0.00	0.00	0.00
2,600.00	16.99	11.15	2,530.33	512.62	101.00	-509.28	0.00	0.00	0.00
2,700.00	16.99	11.15	2,625.96	541.29	106.65	-537.77	0.00	0.00	0.00
2,800.00	16.99	11.15	2,721.60	569.96	112.30	-566.26	0.00	0.00	0.00
2,900.00	16.99	11.15	2,817.23	598.64	117.95	-594.74	0.00	0.00	0.00
3,000.00	16.99	11.15	2,912.87	627.31	123.59	-623.23	0.00	0.00	0.00
3,100.00	16.99	11.15	3,008.50	655.98	129.24	-651.72	0.00	0.00	0.00
3,200.00	16.99	11.15	3,104.13	684.66	134.89	-680.20	0.00	0.00	0.00
3,300.00	16.99	11.15	3,199.77	713.33	140.54	-708.69	0.00	0.00	0.00
3,400.00	16.99	11.15	3,295.40	742.00	146.19	-737.18	0.00	0.00	0.00
3,500.00	16.99	11.15	3,391.04	770.68	151.84	-765.66	0.00	0.00	0.00
3,600.00	16.99	11.15	3,486.67	799.35	157.49	-794.15	0.00	0.00	0.00
3,700.00	16.99	11.15	3,582.31	828.02	163.14	-822.64	0.00	0.00	0.00
3,800.00	16.99	11.15	3,677.94	856.70	168.79	-851.13	0.00	0.00	0.00
3,900.00	16.99	11.15	3,773.57	885.37	174.44	-879.61	0.00	0.00	0.00
4,000.00	16.99	11.15	3,869.21	914.04	180.09	-908.10	0.00	0.00	0.00
4,015.15	16.99	11.15	3,883.70	918.39	180.94	-912.42	0.00	0.00	0.00
4,100.00	15.72	11.15	3,965.11	941.83	185.56	-935.71	1.50	-1.50	0.00
4,200.00	14.22	11.15	4,061.72	967.17	190.56	-960.88	1.50	-1.50	0.00
4,300.00	12.72	11.15	4,158.96	990.03	195.06	-983.59	1.50	-1.50	0.00
4,400.00	11.22	11.15	4,256.78	1,010.37	199.07	-1,003.80	1.50	-1.50	0.00
4,500.00	9.72	11.15	4,355.12	1,028.20	202.58	-1,021.52	1.50	-1.50	0.00
4,600.00	8.22	11.15	4,453.89	1,043.50	205.59	-1,036.71	1.50	-1.50	0.00

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well FITZSIMMONS 36C-9HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB @ 5007.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB @ 5007.00usft (D Rig)
<b>Site:</b>	1N-66W-09 FITZSIMMONS 3-9HZ	<b>North Reference:</b>	True
<b>Well:</b>	FITZSIMMONS 36C-9HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-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)
4,700.00	6.72	11.15	4,553.04	1,056.25	208.11	-1,049.39	1.50	-1.50	0.00
4,800.00	5.22	11.15	4,652.49	1,066.46	210.12	-1,059.52	1.50	-1.50	0.00
4,900.00	3.72	11.15	4,752.19	1,074.10	211.62	-1,067.12	1.50	-1.50	0.00
4,959.91	2.82	11.15	4,812.00	1,077.46	212.29	-1,070.45	1.50	-1.50	0.00
<b>Sussex</b>									
5,000.00	2.22	11.15	4,852.05	1,079.19	212.63	-1,072.17	1.50	-1.50	0.00
5,100.00	0.72	11.15	4,952.01	1,081.70	213.12	-1,074.67	1.50	-1.50	0.00
5,147.99	0.00	0.00	5,000.00	1,082.00	213.18	-1,074.96	1.50	-1.50	0.00
5,200.00	0.00	0.00	5,052.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
5,300.00	0.00	0.00	5,152.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
5,400.00	0.00	0.00	5,252.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
5,500.00	0.00	0.00	5,352.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
5,600.00	0.00	0.00	5,452.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
5,700.00	0.00	0.00	5,552.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
5,800.00	0.00	0.00	5,652.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
5,900.00	0.00	0.00	5,752.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
6,000.00	0.00	0.00	5,852.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
6,100.00	0.00	0.00	5,952.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
6,200.00	0.00	0.00	6,052.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
6,300.00	0.00	0.00	6,152.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
6,400.00	0.00	0.00	6,252.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
6,500.00	0.00	0.00	6,352.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
6,600.00	0.00	0.00	6,452.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
6,700.00	0.00	0.00	6,552.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
6,800.00	0.00	0.00	6,652.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
6,900.00	0.00	0.00	6,752.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
7,000.00	0.00	0.00	6,852.01	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
7,002.49	0.00	0.00	6,854.51	1,082.00	213.18	-1,074.96	0.00	0.00	0.00
7,100.00	8.78	180.70	6,951.63	1,074.55	213.09	-1,067.52	9.00	9.00	0.00
7,200.00	17.78	180.70	7,048.86	1,051.61	212.81	-1,044.60	9.00	9.00	0.00
7,277.46	24.75	180.70	7,121.00	1,023.54	212.47	-1,016.56	9.00	9.00	0.00
<b>Sharon Springs</b>									
7,300.00	26.78	180.70	7,141.30	1,013.75	212.35	-1,006.77	9.00	9.00	0.00
7,321.12	28.68	180.70	7,160.00	1,003.92	212.23	-996.95	9.00	9.00	0.00
<b>Niobrara</b>									
7,400.00	35.78	180.70	7,226.68	961.89	211.72	-954.95	9.00	9.00	0.00
7,457.83	40.98	180.70	7,272.00	926.00	211.28	-919.10	9.00	9.00	0.00
<b>Nio B</b>									
7,500.00	44.78	180.70	7,302.90	897.31	210.93	-890.43	9.00	9.00	0.00
7,539.41	48.32	180.70	7,330.00	868.71	210.59	-861.85	9.00	9.00	0.00
<b>Nio C</b>									
7,600.00	53.78	180.70	7,368.07	821.61	210.01	-814.79	9.00	9.00	0.00
7,700.00	62.78	180.70	7,420.60	736.64	208.98	-729.90	9.00	9.00	0.00
7,800.00	71.78	180.70	7,459.19	644.51	207.86	-637.84	9.00	9.00	0.00
7,802.60	72.01	180.70	7,460.00	642.04	207.83	-635.37	9.00	9.00	0.00
<b>Fort Hayes</b>									
7,900.00	80.78	180.70	7,482.89	547.47	206.68	-540.89	9.00	9.00	0.00
7,900.67	80.84	180.70	7,483.00	546.81	206.67	-540.23	9.00	9.00	0.00
<b>Codell</b>									
8,000.00	89.78	180.70	7,491.12	447.92	205.47	-441.42	9.00	9.00	0.00
8,000.27	89.80	180.70	7,491.12	447.65	205.46	-441.15	9.00	9.00	0.00
<b>Top of Production - FITZSIMMONS 36C-9HZ_PHL</b>									
8,100.00	89.80	180.70	7,491.47	347.93	204.25	-341.51	0.00	0.00	0.00

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well FITZSIMMONS 36C-9HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB @ 5007.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB @ 5007.00usft (D Rig)
<b>Site:</b>	1N-66W-09 FITZSIMMONS 3-9HZ	<b>North Reference:</b>	True
<b>Well:</b>	FITZSIMMONS 36C-9HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-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)
8,200.00	89.80	180.70	7,491.82	247.94	203.04	-241.60	0.00	0.00	0.00
8,300.00	89.80	180.70	7,492.17	147.94	201.82	-141.69	0.00	0.00	0.00
8,400.00	89.80	180.70	7,492.52	47.95	200.60	-41.79	0.00	0.00	0.00
8,500.00	89.80	180.70	7,492.87	-52.04	199.39	58.12	0.00	0.00	0.00
8,600.00	89.80	180.70	7,493.22	-152.03	198.17	158.03	0.00	0.00	0.00
8,700.00	89.80	180.70	7,493.56	-252.02	196.96	257.94	0.00	0.00	0.00
8,800.00	89.80	180.70	7,493.91	-352.02	195.74	357.84	0.00	0.00	0.00
8,900.00	89.80	180.70	7,494.26	-452.01	194.52	457.75	0.00	0.00	0.00
9,000.00	89.80	180.70	7,494.61	-552.00	193.31	557.66	0.00	0.00	0.00
9,100.00	89.80	180.70	7,494.96	-651.99	192.09	657.57	0.00	0.00	0.00
9,200.00	89.80	180.70	7,495.31	-751.98	190.87	757.48	0.00	0.00	0.00
9,300.00	89.80	180.70	7,495.66	-851.98	189.66	857.38	0.00	0.00	0.00
9,400.00	89.80	180.70	7,496.01	-951.97	188.44	957.29	0.00	0.00	0.00
9,500.00	89.80	180.70	7,496.36	-1,051.96	187.23	1,057.20	0.00	0.00	0.00
9,600.00	89.80	180.70	7,496.71	-1,151.95	186.01	1,157.11	0.00	0.00	0.00
9,700.00	89.80	180.70	7,497.06	-1,251.94	184.79	1,257.02	0.00	0.00	0.00
9,800.00	89.80	180.70	7,497.40	-1,351.94	183.58	1,356.92	0.00	0.00	0.00
9,900.00	89.80	180.70	7,497.75	-1,451.93	182.36	1,456.83	0.00	0.00	0.00
10,000.00	89.80	180.70	7,498.10	-1,551.92	181.15	1,556.74	0.00	0.00	0.00
10,100.00	89.80	180.70	7,498.45	-1,651.91	179.93	1,656.65	0.00	0.00	0.00
10,200.00	89.80	180.70	7,498.80	-1,751.90	178.71	1,756.55	0.00	0.00	0.00
10,300.00	89.80	180.70	7,499.15	-1,851.90	177.50	1,856.46	0.00	0.00	0.00
10,400.00	89.80	180.70	7,499.50	-1,951.89	176.28	1,956.37	0.00	0.00	0.00
10,500.00	89.80	180.70	7,499.85	-2,051.88	175.07	2,056.28	0.00	0.00	0.00
10,600.00	89.80	180.70	7,500.20	-2,151.87	173.85	2,156.19	0.00	0.00	0.00
10,700.00	89.80	180.70	7,500.55	-2,251.86	172.63	2,256.09	0.00	0.00	0.00
10,800.00	89.80	180.70	7,500.90	-2,351.86	171.42	2,356.00	0.00	0.00	0.00
10,900.00	89.80	180.70	7,501.24	-2,451.85	170.20	2,455.91	0.00	0.00	0.00
11,000.00	89.80	180.70	7,501.59	-2,551.84	168.98	2,555.82	0.00	0.00	0.00
11,100.00	89.80	180.70	7,501.94	-2,651.83	167.77	2,655.73	0.00	0.00	0.00
11,200.00	89.80	180.70	7,502.29	-2,751.82	166.55	2,755.63	0.00	0.00	0.00
11,300.00	89.80	180.70	7,502.64	-2,851.82	165.34	2,855.54	0.00	0.00	0.00
11,400.00	89.80	180.70	7,502.99	-2,951.81	164.12	2,955.45	0.00	0.00	0.00
11,500.00	89.80	180.70	7,503.34	-3,051.80	162.90	3,055.36	0.00	0.00	0.00
11,600.00	89.80	180.70	7,503.69	-3,151.79	161.69	3,155.26	0.00	0.00	0.00
11,700.00	89.80	180.70	7,504.04	-3,251.78	160.47	3,255.17	0.00	0.00	0.00
11,800.00	89.80	180.70	7,504.39	-3,351.78	159.26	3,355.08	0.00	0.00	0.00
11,900.00	89.80	180.70	7,504.73	-3,451.77	158.04	3,454.99	0.00	0.00	0.00
12,000.00	89.80	180.70	7,505.08	-3,551.76	156.82	3,554.90	0.00	0.00	0.00
12,100.00	89.80	180.70	7,505.43	-3,651.75	155.61	3,654.80	0.00	0.00	0.00
12,200.00	89.80	180.70	7,505.78	-3,751.74	154.39	3,754.71	0.00	0.00	0.00
12,300.00	89.80	180.70	7,506.13	-3,851.74	153.18	3,854.62	0.00	0.00	0.00
12,400.00	89.80	180.70	7,506.48	-3,951.73	151.96	3,954.53	0.00	0.00	0.00
12,500.00	89.80	180.70	7,506.83	-4,051.72	150.74	4,054.44	0.00	0.00	0.00
12,600.00	89.80	180.70	7,507.18	-4,151.71	149.53	4,154.34	0.00	0.00	0.00
12,700.00	89.80	180.70	7,507.53	-4,251.70	148.31	4,254.25	0.00	0.00	0.00
12,800.00	89.80	180.70	7,507.88	-4,351.70	147.09	4,354.16	0.00	0.00	0.00
12,900.00	89.80	180.70	7,508.23	-4,451.69	145.88	4,454.07	0.00	0.00	0.00
13,000.00	89.80	180.70	7,508.57	-4,551.68	144.66	4,553.97	0.00	0.00	0.00
13,100.00	89.80	180.70	7,508.92	-4,651.67	143.45	4,653.88	0.00	0.00	0.00
13,121.89	89.80	180.70	7,509.00	-4,673.56	143.18	4,675.75	0.00	0.00	0.00
FITZSIMMONS 36C-9HZ_PBHL									

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well FITZSIMMONS 36C-9HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB @ 5007.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB @ 5007.00usft (D Rig)
<b>Site:</b>	1N-66W-09 FITZSIMMONS 3-9HZ	<b>North Reference:</b>	True
<b>Well:</b>	FITZSIMMONS 36C-9HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FITZSIMMONS 36C-9	0.00	0.00	7,491.12	447.65	205.46	14,553,277.66	1,701,045.33	40.072692	-104.783279
- plan hits target center									
- Point									
FITZSIMMONS 36C-9	0.00	0.00	7,509.00	-4,673.56	143.18	14,548,156.31	1,700,995.47	40.058629	-104.783502
- plan hits target center									
- Point									

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(usft)	(usft)	Name	(")	(")
	1,836.33	1,800.00	9 5/8"	9-5/8	13-1/2
	8,000.27	7,491.12	Top of Production	5-1/2	8-1/2

Formations						
	Measured Depth	Vertical Depth			Dip	Dip Direction
	(usft)	(usft)	Name	Lithology	(°)	(°)
	1,488.13	1,467.00	Fox Hills			
	4,959.91	4,812.00	Sussex			
	7,277.46	7,121.00	Sharon Springs			
	7,321.12	7,160.00	Niobrara			
	7,457.83	7,272.00	Nio B			
	7,539.41	7,330.00	Nio C			
	7,802.60	7,460.00	Fort Hayes			
	7,900.67	7,483.00	Codell			