

# **US ROCKIES WATTENBERG PLANNING**

**WELD-NAD83-UTMFT13N  
1N-66W-09 FITZSIMMONS 3-9HZ  
FITZSIMMONS 36N-E9HZ**

**Plan A**

**Plan: Permit Rev-1**

## **Standard Planning Report**

**02 June, 2016**



Azimuths to True North  
Magnetic North: 8.18°

Magnetic Field  
Strength: 52433.4snT  
Dip Angle: 66.61°  
Date: 5/31/2016  
Model: IGRF2010

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

Well: FITZSIMMONS 36N-E9HZ  
Wellbore: Plan A  
Design: Permit Rev-1

#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1467.00	1488.52	Fox Hills
4812.00	4973.77	Sussex
7119.00	7318.24	Sharon Springs
7158.00	7371.78	Niobrara
7271.00	7566.70	Nio B
7326.00	7733.43	Nio C

#### WELL DETAILS: FITZSIMMONS 36N-E9HZ

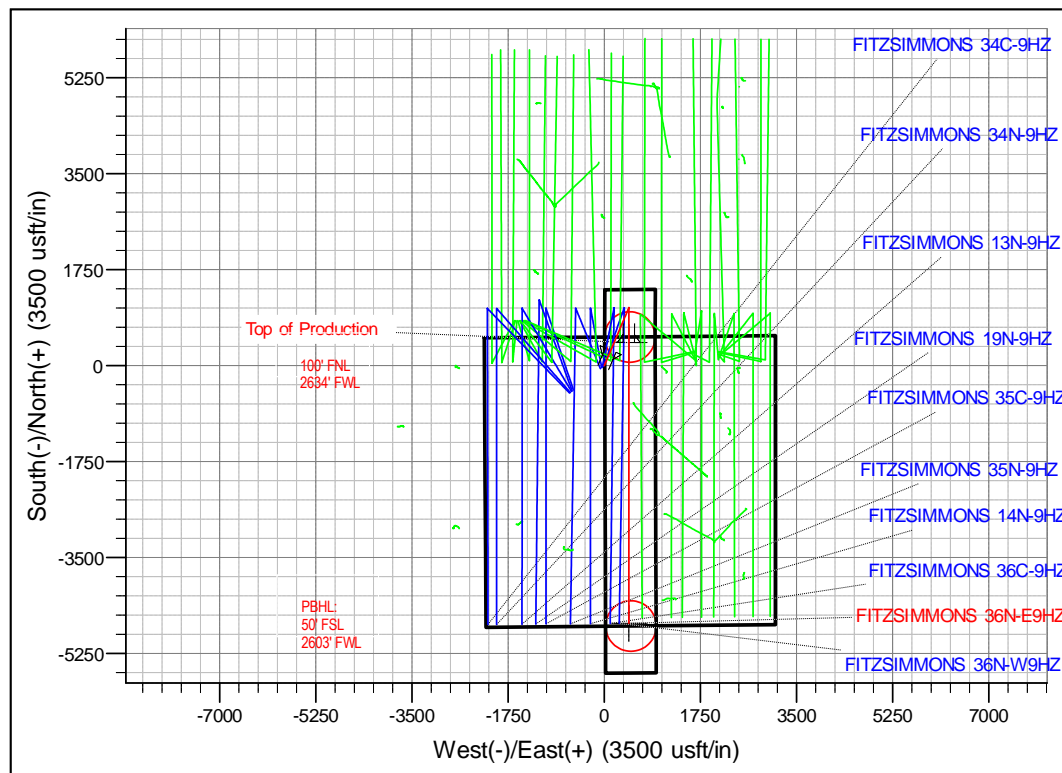
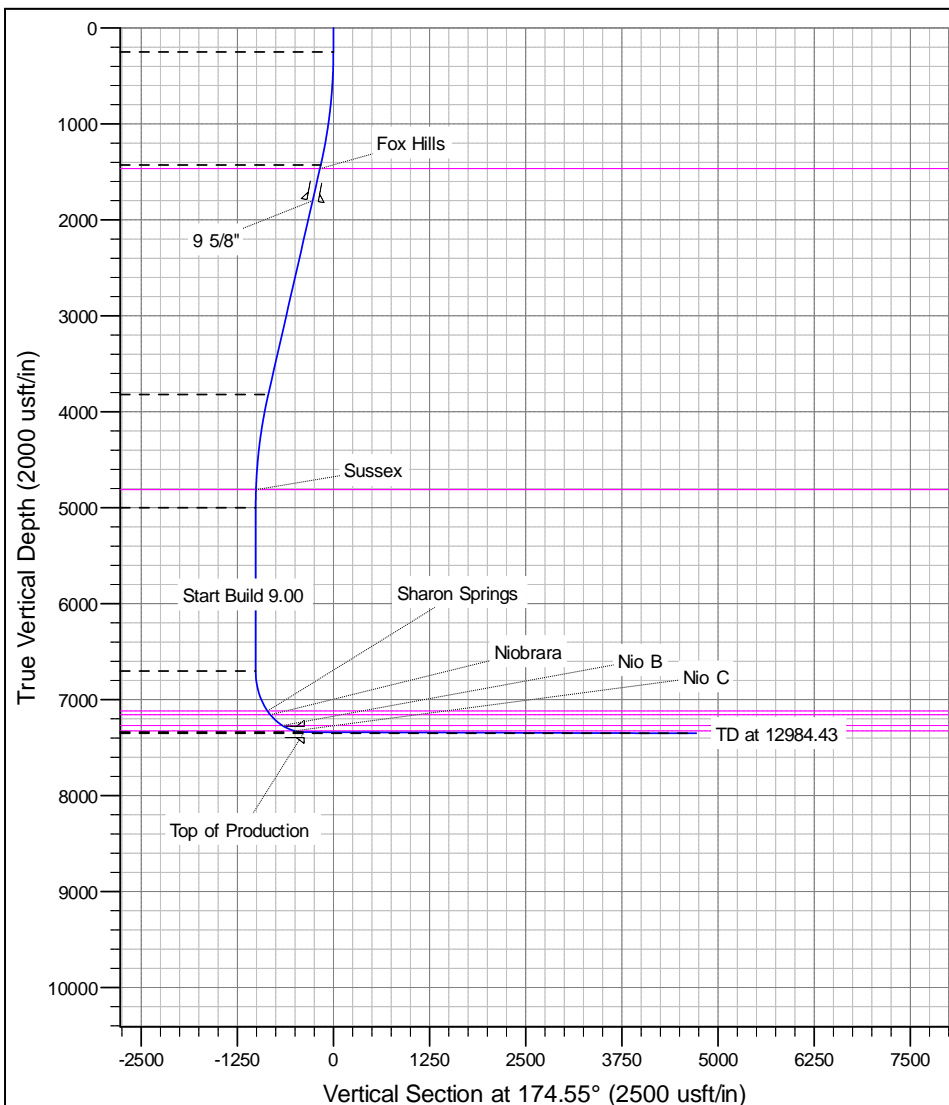
+N/-S	+E/-W	GL: 4990.00	RKB @ 5007.00usft (D Rig)	Longitude	Slot
0.00	0.00	Northing 14552857.64	Easting 1700876.13	Latitude 40.071540	Longitude -104.783887

#### 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
1448.13	17.97	22.95	1428.58	171.62	72.67	1.50	-163.95
3963.71	17.97	22.95	3821.42	886.38	375.31	0.00	-846.75
5161.84	0.00	0.00	5000.00	1058.00	447.98	1.50	1010.70
6864.71	0.00	0.00	6702.87	1058.00	447.98	0.00	1010.70
7863.16	89.86	180.00	7339.49	422.94	447.98	9.00	-378.51
12984.43	89.86	180.00	7352.00	-4698.32	447.98	0.00	4719.63

#### DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FITZSIMMONS 36N-E9HZ, PHL	7339.49	422.93	447.98	14553281.66	1701323.09	40.072701	-104.782286
FITZSIMMONS 36N-E9HZ, PBHL	7352.00	-4698.32	447.98	14548160.42	1701335.52	40.068638	-104.782286



# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well FITZSIMMONS 36N-E9HZ
<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 36N-E9HZ	<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 36N-E9HZ					
Well Position	+N-S	55.71 usft	Northing:	14,552,857.64 usft	Latitude:	40.071540
	+E-W	70.78 usft	Easting:	1,700,876.13 usft	Longitude:	-104.783887
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	174.55

<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	
1,448.13	17.97	22.95	1,428.58	171.62	72.67	1.50	1.50	0.00	22.95	
3,963.71	17.97	22.95	3,821.42	886.38	375.31	0.00	0.00	0.00	0.00	
5,161.84	0.00	0.00	5,000.00	1,058.00	447.98	1.50	-1.50	0.00	180.00	
6,864.71	0.00	0.00	6,702.87	1,058.00	447.98	0.00	0.00	0.00	0.00	
7,863.16	89.86	180.00	7,339.49	422.94	447.98	9.00	9.00	0.00	180.00	
12,984.43	89.86	180.00	7,352.00	-4,698.32	447.98	0.00	0.00	0.00	0.00	FITZSIMMONS 36N

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well FITZSIMMONS 36N-E9HZ
<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 36N-E9HZ	<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	22.95	300.00	0.30	0.13	-0.29	1.50	1.50	0.00
400.00	2.25	22.95	399.96	2.71	1.15	-2.59	1.50	1.50	0.00
500.00	3.75	22.95	499.82	7.53	3.19	-7.19	1.50	1.50	0.00
600.00	5.25	22.95	599.51	14.76	6.25	-14.10	1.50	1.50	0.00
700.00	6.75	22.95	698.96	24.38	10.32	-23.29	1.50	1.50	0.00
800.00	8.25	22.95	798.10	36.40	15.41	-34.77	1.50	1.50	0.00
900.00	9.75	22.95	896.87	50.81	21.51	-48.53	1.50	1.50	0.00
1,000.00	11.25	22.95	995.19	67.59	28.62	-64.56	1.50	1.50	0.00
1,100.00	12.75	22.95	1,093.00	86.73	36.72	-82.85	1.50	1.50	0.00
1,200.00	14.25	22.95	1,190.24	108.23	45.83	-103.39	1.50	1.50	0.00
1,300.00	15.75	22.95	1,286.83	132.06	55.92	-126.16	1.50	1.50	0.00
1,400.00	17.25	22.95	1,382.71	158.21	66.99	-151.14	1.50	1.50	0.00
1,448.13	17.97	22.95	1,428.58	171.62	72.67	-163.95	1.50	1.50	0.00
1,488.52	17.97	22.95	1,467.00	183.10	77.53	-174.91	0.00	0.00	0.00
<b>Fox Hills</b>									
1,500.00	17.97	22.95	1,477.92	186.36	78.91	-178.03	0.00	0.00	0.00
1,600.00	17.97	22.95	1,573.04	214.77	90.94	-205.17	0.00	0.00	0.00
1,700.00	17.97	22.95	1,668.16	243.19	102.97	-232.31	0.00	0.00	0.00
1,800.00	17.97	22.95	1,763.28	271.60	115.00	-259.46	0.00	0.00	0.00
1,838.60	17.97	22.95	1,800.00	282.57	119.65	-269.94	0.00	0.00	0.00
<b>9 5/8"</b>									
1,900.00	17.97	22.95	1,858.40	300.01	127.03	-286.60	0.00	0.00	0.00
2,000.00	17.97	22.95	1,953.52	328.43	139.06	-313.74	0.00	0.00	0.00
2,100.00	17.97	22.95	2,048.64	356.84	151.09	-340.89	0.00	0.00	0.00
2,200.00	17.97	22.95	2,143.76	385.25	163.12	-368.03	0.00	0.00	0.00
2,300.00	17.97	22.95	2,238.88	413.67	175.15	-395.17	0.00	0.00	0.00
2,400.00	17.97	22.95	2,334.01	442.08	187.19	-422.31	0.00	0.00	0.00
2,500.00	17.97	22.95	2,429.13	470.49	199.22	-449.46	0.00	0.00	0.00
2,600.00	17.97	22.95	2,524.25	498.90	211.25	-476.60	0.00	0.00	0.00
2,700.00	17.97	22.95	2,619.37	527.32	223.28	-503.74	0.00	0.00	0.00
2,800.00	17.97	22.95	2,714.49	555.73	235.31	-530.89	0.00	0.00	0.00
2,900.00	17.97	22.95	2,809.61	584.14	247.34	-558.03	0.00	0.00	0.00
3,000.00	17.97	22.95	2,904.73	612.56	259.37	-585.17	0.00	0.00	0.00
3,100.00	17.97	22.95	2,999.85	640.97	271.40	-612.32	0.00	0.00	0.00
3,200.00	17.97	22.95	3,094.97	669.38	283.43	-639.46	0.00	0.00	0.00
3,300.00	17.97	22.95	3,190.09	697.80	295.46	-666.60	0.00	0.00	0.00
3,400.00	17.97	22.95	3,285.21	726.21	307.49	-693.74	0.00	0.00	0.00
3,500.00	17.97	22.95	3,380.33	754.62	319.52	-720.89	0.00	0.00	0.00
3,600.00	17.97	22.95	3,475.45	783.04	331.55	-748.03	0.00	0.00	0.00
3,700.00	17.97	22.95	3,570.57	811.45	343.58	-775.17	0.00	0.00	0.00
3,800.00	17.97	22.95	3,665.70	839.86	355.62	-802.32	0.00	0.00	0.00
3,900.00	17.97	22.95	3,760.82	868.28	367.65	-829.46	0.00	0.00	0.00
3,963.71	17.97	22.95	3,821.42	886.38	375.31	-846.75	0.00	0.00	0.00
4,000.00	17.43	22.95	3,855.99	896.54	379.61	-856.46	1.50	-1.50	0.00
4,100.00	15.93	22.95	3,951.78	922.96	390.80	-881.70	1.50	-1.50	0.00
4,200.00	14.43	22.95	4,048.29	947.07	401.01	-904.73	1.50	-1.50	0.00
4,300.00	12.93	22.95	4,145.45	968.85	410.23	-925.53	1.50	-1.50	0.00
4,400.00	11.43	22.95	4,243.20	988.27	418.45	-944.09	1.50	-1.50	0.00
4,500.00	9.93	22.95	4,341.46	1,005.33	425.68	-960.39	1.50	-1.50	0.00
4,600.00	8.43	22.95	4,440.18	1,020.02	431.90	-974.42	1.50	-1.50	0.00

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## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well FITZSIMMONS 36N-E9HZ
<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 36N-E9HZ	<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	6.93	22.95	4,539.28	1,032.32	437.11	-986.17	1.50	-1.50	0.00
4,800.00	5.43	22.95	4,638.70	1,042.23	441.30	-995.64	1.50	-1.50	0.00
4,900.00	3.93	22.95	4,738.36	1,049.74	444.48	-1,002.81	1.50	-1.50	0.00
4,973.77	2.82	22.95	4,812.00	1,053.74	446.17	-1,006.63	1.50	-1.50	0.00
<b>Sussex</b>									
5,000.00	2.43	22.95	4,838.21	1,054.84	446.64	-1,007.69	1.50	-1.50	0.00
5,100.00	0.93	22.95	4,938.16	1,057.54	447.78	-1,010.26	1.50	-1.50	0.00
5,161.84	0.00	0.00	5,000.00	1,058.00	447.98	-1,010.70	1.50	-1.50	0.00
5,200.00	0.00	0.00	5,038.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
5,300.00	0.00	0.00	5,138.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
5,400.00	0.00	0.00	5,238.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
5,500.00	0.00	0.00	5,338.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
5,600.00	0.00	0.00	5,438.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
5,700.00	0.00	0.00	5,538.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
5,800.00	0.00	0.00	5,638.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
5,900.00	0.00	0.00	5,738.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
6,000.00	0.00	0.00	5,838.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
6,100.00	0.00	0.00	5,938.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
6,200.00	0.00	0.00	6,038.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
6,300.00	0.00	0.00	6,138.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
6,400.00	0.00	0.00	6,238.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
6,500.00	0.00	0.00	6,338.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
6,600.00	0.00	0.00	6,438.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
6,700.00	0.00	0.00	6,538.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
6,800.00	0.00	0.00	6,638.16	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
6,864.71	0.00	0.00	6,702.87	1,058.00	447.98	-1,010.70	0.00	0.00	0.00
6,900.00	3.18	180.00	6,738.14	1,057.02	447.98	-1,009.73	9.00	9.00	0.00
7,000.00	12.18	180.00	6,837.14	1,043.68	447.98	-996.45	9.00	9.00	0.00
7,100.00	21.18	180.00	6,932.84	1,015.01	447.98	-967.91	9.00	9.00	0.00
7,200.00	30.18	180.00	7,022.87	971.73	447.98	-924.82	9.00	9.00	0.00
7,300.00	39.18	180.00	7,105.02	914.89	447.98	-868.24	9.00	9.00	0.00
7,318.24	40.82	180.00	7,119.00	903.17	447.98	-856.57	9.00	9.00	0.00
<b>Sharon Springs</b>									
7,371.78	45.64	180.00	7,158.00	866.51	447.98	-820.08	9.00	9.00	0.00
<b>Niobrara</b>									
7,400.00	48.18	180.00	7,177.28	845.91	447.98	-799.57	9.00	9.00	0.00
7,500.00	57.18	180.00	7,237.85	766.47	447.98	-720.49	9.00	9.00	0.00
7,566.70	63.18	180.00	7,271.00	708.63	447.98	-662.91	9.00	9.00	0.00
<b>Nio B</b>									
7,600.00	66.18	180.00	7,285.24	678.53	447.98	-632.94	9.00	9.00	0.00
7,700.00	75.18	180.00	7,318.30	584.26	447.98	-539.10	9.00	9.00	0.00
7,733.43	78.18	180.00	7,326.00	551.73	447.98	-506.72	9.00	9.00	0.00
<b>Nio C</b>									
7,800.00	84.18	180.00	7,336.20	485.98	447.98	-441.27	9.00	9.00	0.00
7,863.16	89.86	180.00	7,339.49	422.93	447.98	-378.50	9.00	9.00	0.00
<b>Top of Production - FITZSIMMONS 36N-E9HZ_PHL</b>									
7,900.00	89.86	180.00	7,339.58	386.09	447.98	-341.83	0.00	0.00	0.00
8,000.00	89.86	180.00	7,339.82	286.09	447.98	-242.28	0.00	0.00	0.00
8,100.00	89.86	180.00	7,340.07	186.09	447.98	-142.73	0.00	0.00	0.00
8,200.00	89.86	180.00	7,340.31	86.09	447.98	-43.18	0.00	0.00	0.00
8,300.00	89.86	180.00	7,340.55	-13.91	447.98	56.37	0.00	0.00	0.00
8,400.00	89.86	180.00	7,340.80	-113.91	447.98	155.91	0.00	0.00	0.00
8,500.00	89.86	180.00	7,341.04	-213.91	447.98	255.46	0.00	0.00	0.00

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well FITZSIMMONS 36N-E9HZ
<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 36N-E9HZ	<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)
8,600.00	89.86	180.00	7,341.29	-313.91	447.98	355.01	0.00	0.00	0.00
8,700.00	89.86	180.00	7,341.53	-413.91	447.98	454.56	0.00	0.00	0.00
8,800.00	89.86	180.00	7,341.78	-513.91	447.98	554.11	0.00	0.00	0.00
8,900.00	89.86	180.00	7,342.02	-613.91	447.98	653.65	0.00	0.00	0.00
9,000.00	89.86	180.00	7,342.26	-713.90	447.98	753.20	0.00	0.00	0.00
9,100.00	89.86	180.00	7,342.51	-813.90	447.98	852.75	0.00	0.00	0.00
9,200.00	89.86	180.00	7,342.75	-913.90	447.98	952.30	0.00	0.00	0.00
9,300.00	89.86	180.00	7,343.00	-1,013.90	447.98	1,051.85	0.00	0.00	0.00
9,400.00	89.86	180.00	7,343.24	-1,113.90	447.98	1,151.40	0.00	0.00	0.00
9,500.00	89.86	180.00	7,343.49	-1,213.90	447.98	1,250.94	0.00	0.00	0.00
9,600.00	89.86	180.00	7,343.73	-1,313.90	447.98	1,350.49	0.00	0.00	0.00
9,700.00	89.86	180.00	7,343.97	-1,413.90	447.98	1,450.04	0.00	0.00	0.00
9,800.00	89.86	180.00	7,344.22	-1,513.90	447.98	1,549.59	0.00	0.00	0.00
9,900.00	89.86	180.00	7,344.46	-1,613.90	447.98	1,649.14	0.00	0.00	0.00
10,000.00	89.86	180.00	7,344.71	-1,713.90	447.98	1,748.68	0.00	0.00	0.00
10,100.00	89.86	180.00	7,344.95	-1,813.90	447.98	1,848.23	0.00	0.00	0.00
10,200.00	89.86	180.00	7,345.20	-1,913.90	447.98	1,947.78	0.00	0.00	0.00
10,300.00	89.86	180.00	7,345.44	-2,013.90	447.98	2,047.33	0.00	0.00	0.00
10,400.00	89.86	180.00	7,345.69	-2,113.90	447.98	2,146.88	0.00	0.00	0.00
10,500.00	89.86	180.00	7,345.93	-2,213.90	447.98	2,246.43	0.00	0.00	0.00
10,600.00	89.86	180.00	7,346.17	-2,313.90	447.98	2,345.97	0.00	0.00	0.00
10,700.00	89.86	180.00	7,346.42	-2,413.90	447.98	2,445.52	0.00	0.00	0.00
10,800.00	89.86	180.00	7,346.66	-2,513.90	447.98	2,545.07	0.00	0.00	0.00
10,900.00	89.86	180.00	7,346.91	-2,613.90	447.98	2,644.62	0.00	0.00	0.00
11,000.00	89.86	180.00	7,347.15	-2,713.90	447.98	2,744.17	0.00	0.00	0.00
11,100.00	89.86	180.00	7,347.40	-2,813.90	447.98	2,843.72	0.00	0.00	0.00
11,200.00	89.86	180.00	7,347.64	-2,913.90	447.98	2,943.26	0.00	0.00	0.00
11,300.00	89.86	180.00	7,347.88	-3,013.90	447.98	3,042.81	0.00	0.00	0.00
11,400.00	89.86	180.00	7,348.13	-3,113.90	447.98	3,142.36	0.00	0.00	0.00
11,500.00	89.86	180.00	7,348.37	-3,213.90	447.98	3,241.91	0.00	0.00	0.00
11,600.00	89.86	180.00	7,348.62	-3,313.90	447.98	3,341.46	0.00	0.00	0.00
11,700.00	89.86	180.00	7,348.86	-3,413.90	447.98	3,441.00	0.00	0.00	0.00
11,800.00	89.86	180.00	7,349.11	-3,513.90	447.98	3,540.55	0.00	0.00	0.00
11,900.00	89.86	180.00	7,349.35	-3,613.90	447.98	3,640.10	0.00	0.00	0.00
12,000.00	89.86	180.00	7,349.59	-3,713.90	447.98	3,739.65	0.00	0.00	0.00
12,100.00	89.86	180.00	7,349.84	-3,813.90	447.98	3,839.20	0.00	0.00	0.00
12,200.00	89.86	180.00	7,350.08	-3,913.90	447.98	3,938.75	0.00	0.00	0.00
12,300.00	89.86	180.00	7,350.33	-4,013.90	447.98	4,038.29	0.00	0.00	0.00
12,400.00	89.86	180.00	7,350.57	-4,113.89	447.98	4,137.84	0.00	0.00	0.00
12,500.00	89.86	180.00	7,350.82	-4,213.89	447.98	4,237.39	0.00	0.00	0.00
12,600.00	89.86	180.00	7,351.06	-4,313.89	447.98	4,336.94	0.00	0.00	0.00
12,700.00	89.86	180.00	7,351.31	-4,413.89	447.98	4,436.49	0.00	0.00	0.00
12,800.00	89.86	180.00	7,351.55	-4,513.89	447.98	4,536.03	0.00	0.00	0.00
12,900.00	89.86	180.00	7,351.79	-4,613.89	447.98	4,635.58	0.00	0.00	0.00
12,984.43	89.86	180.00	7,352.00	-4,698.32	447.98	4,719.63	0.00	0.00	0.00
FITZSIMMONS 36N-E9HZ_PBHL									

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well FITZSIMMONS 36N-E9HZ
<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 36N-E9HZ	<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 36N-E	0.00	0.00	7,339.49	422.93	447.98	14,553,281.66	1,701,323.08	40.072702	-104.782286
- plan hits target center									
- Point									
FITZSIMMONS 36N-E	0.00	0.00	7,352.00	-4,698.32	447.98	14,548,160.42	1,701,335.52	40.058638	-104.782286
- plan hits target center									
- Point									

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(usft)	(usft)	Name	(")	(")
	1,838.60	1,800.00	9 5/8"	9-5/8	13-1/2
	7,863.16	7,339.49	Top of Production	5-1/2	8-1/2

Formations						
	Measured Depth	Vertical Depth			Dip	Dip Direction
	(usft)	(usft)	Name	Lithology	(°)	(°)
	1,488.52	1,467.00	Fox Hills			
	4,973.77	4,812.00	Sussex			
	7,318.24	7,119.00	Sharon Springs			
	7,371.78	7,158.00	Niobrara			
	7,566.70	7,271.00	Nio B			
	7,733.43	7,326.00	Nio C			