

US ROCKIES WATTENBERG PLANNING

WELD-NAD83-UTMFT13N

1N-66W-09 FITZSIMMONS 18-9HZ

FITZSIMMONS 34N-9HZ

Plan A

Plan: Permit Rev-1

Standard Planning Report

01 June, 2016



Azimuths to True North
Magnetic North: 8.18°

Magnetic Field
Strength: 52432.4snT
Dip Angle: 66.61°
Date: 5/31/2016
Model: IGRF2010

SITE: 1N-66W-09 FITZSIMMONS 18-9HZ

Well: FITZSIMMONS 34N-9HZ
Wellbore: Plan A
Design: Permit Rev-1

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1469.00	1490.70	Fox Hills
4814.00	5136.45	Sussex
7132.00	7569.17	Sharon Springs
7171.00	7629.36	Niobrara
7280.00	7873.26	Nio B

WELL DETAILS: FITZSIMMONS 34N-9HZ

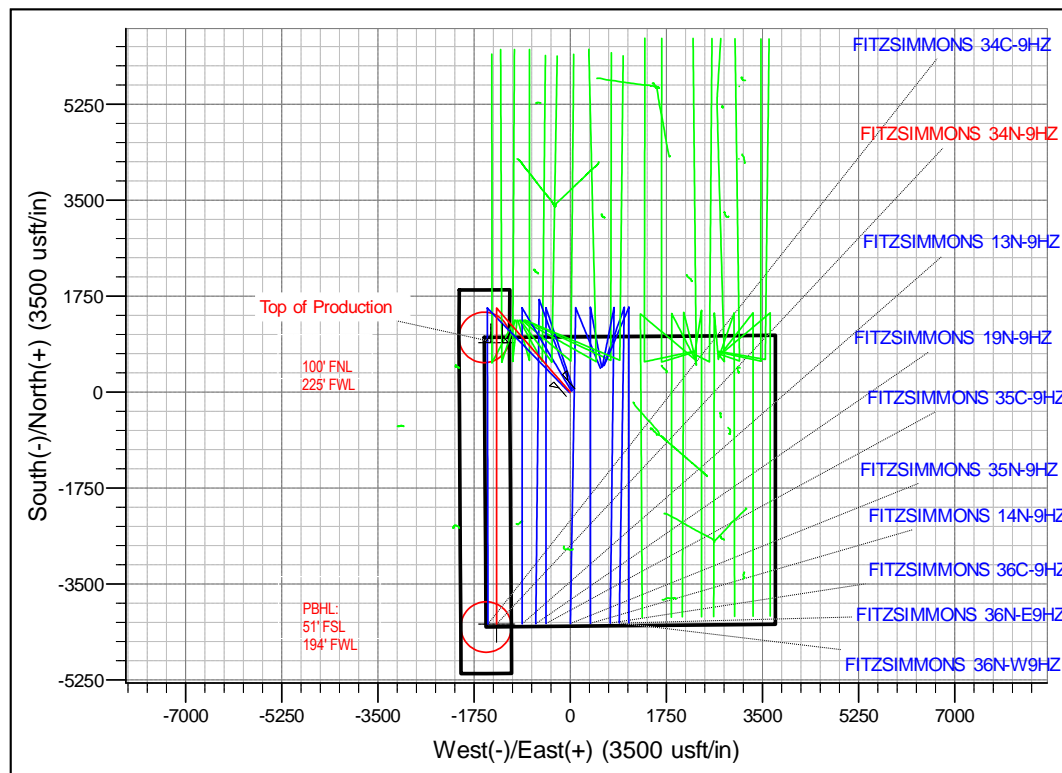
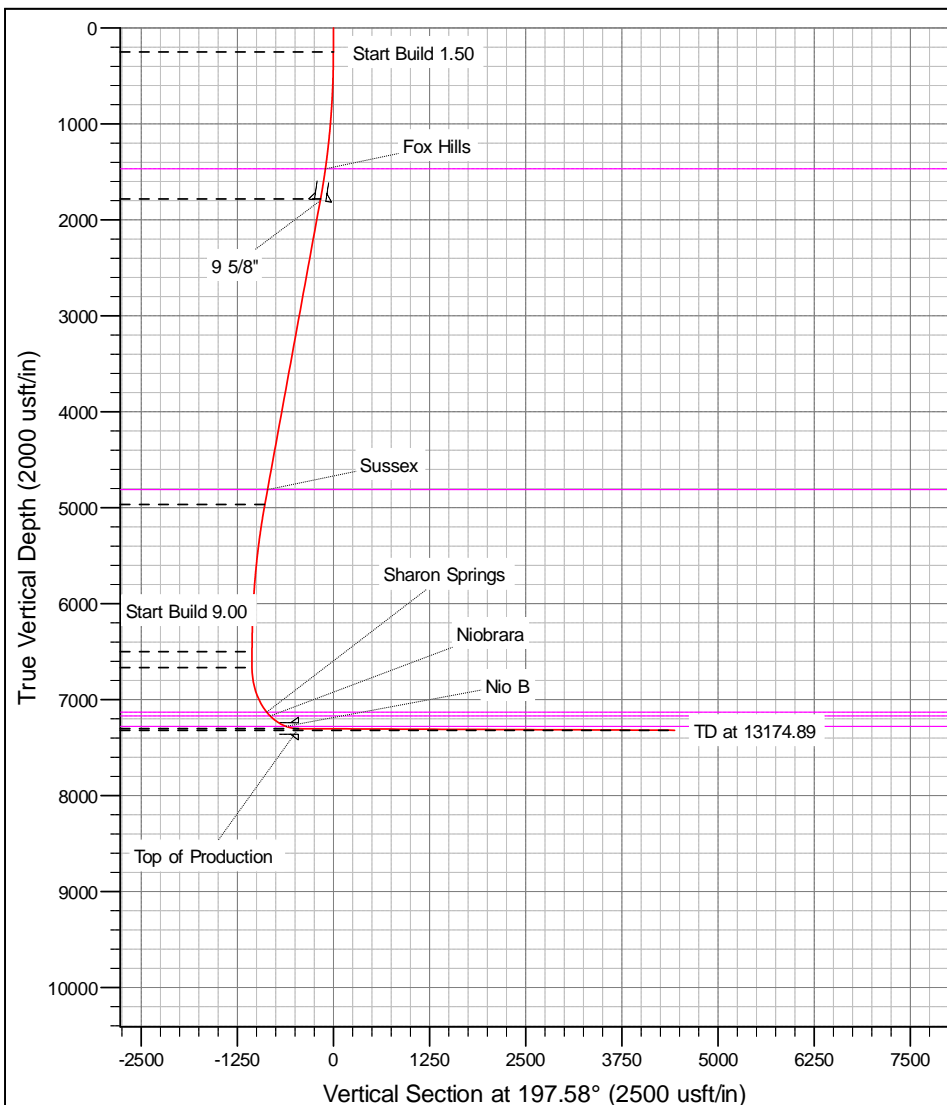
+N/-S	+E/-W	GL: 4992.00 Northing	RKB @ 5009.00usft (D Rig) Easting	Latitude 40.070197	Longitude -104.786103	Slot
0.00	0.00	14552367.10	1700257.36			

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
1826.90	23.65	318.86	1782.49	241.68	-211.11	1.50	-166.63
5304.04	23.65	318.86	4967.51	1292.32	-1128.89	0.00	-890.99
6880.94	0.00	0.00	6500.00	1534.00	-1340.00	1.50	-1057.62
7048.22	0.00	0.00	6667.27	1534.00	-1340.00	0.00	-1057.62
8046.22	89.82	180.00	7303.89	899.38	-1340.00	9.00	-452.64
13174.89	89.82	180.00	7320.00	-4229.27	-1340.00	0.00	4436.48

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FITZSIMMONS 34N-9HZ_PHL	7303.89	899.38	-1340.00	14553263.25	1698915.21	40.072667	-104.790893
FITZSIMMONS 34N-9HZ_PBHL	7320.00	-4229.27	-1340.00	14548134.62	1698927.53	40.058583	-104.790892



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Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well FITZSIMMONS 34N-9HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB @ 5009.00usft (D Rig)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB @ 5009.00usft (D Rig)
Site:	1N-66W-09 FITZSIMMONS 18-9HZ	North Reference:	True
Well:	FITZSIMMONS 34N-9HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-1		

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

Site						1N-66W-09 FITZSIMMONS 18-9HZ											
Site Position:			Northing:			14,552,357.60 usft			Latitude:			40.070171					
From:			Lat/Long			Easting:			1,700,245.63 usft			Longitude:			-104.786145		
Position Uncertainty:			0.00 usft			Slot Radius:			13-3/16 "			Grid Convergence:			0.14		

Well	FITZSIMMONS 34N-9HZ					
Well Position	+N/-S	9.47 usft	Northing:	14,552,367.09 usft	Latitude:	40.070197
	+E/-W	11.75 usft	Easting:	1,700,257.36 usft	Longitude:	-104.786103
Position Uncertainty		3.28 usft	Wellhead Elevation:	0.00 usft	Ground Level:	4,992.00 usft

Wellbore	Plan A				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/31/2016	8.18	66.61	52,432

Design	Permit Rev-1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	197.58

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	
1,826.90	23.65	318.86	1,782.49	241.68	-211.11	1.50	1.50	0.00	318.86	
5,304.04	23.65	318.86	4,967.51	1,292.32	-1,128.89	0.00	0.00	0.00	0.00	
6,880.94	0.00	0.00	6,500.00	1,534.00	-1,340.00	1.50	-1.50	0.00	180.00	
7,048.22	0.00	0.00	6,667.27	1,534.00	-1,340.00	0.00	0.00	0.00	0.00	
8,046.22	89.82	180.00	7,303.89	899.38	-1,340.00	9.00	9.00	0.00	180.00	
13,174.89	89.82	180.00	7,320.00	-4,229.27	-1,340.00	0.00	0.00	0.00	0.00	FITZSIMMONS 34N

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Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well FITZSIMMONS 34N-9HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB @ 5009.00usft (D Rig)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB @ 5009.00usft (D Rig)
Site:	1N-66W-09 FITZSIMMONS 18-9HZ	North Reference:	True
Well:	FITZSIMMONS 34N-9HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	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	318.86	300.00	0.25	-0.22	-0.17	1.50	1.50	0.00
400.00	2.25	318.86	399.96	2.22	-1.94	-1.53	1.50	1.50	0.00
500.00	3.75	318.86	499.82	6.16	-5.38	-4.25	1.50	1.50	0.00
600.00	5.25	318.86	599.51	12.07	-10.54	-8.32	1.50	1.50	0.00
700.00	6.75	318.86	698.96	19.94	-17.42	-13.75	1.50	1.50	0.00
800.00	8.25	318.86	798.10	29.77	-26.01	-20.53	1.50	1.50	0.00
900.00	9.75	318.86	896.87	41.55	-36.30	-28.65	1.50	1.50	0.00
1,000.00	11.25	318.86	995.19	55.28	-48.28	-38.11	1.50	1.50	0.00
1,100.00	12.75	318.86	1,093.00	70.93	-61.96	-48.91	1.50	1.50	0.00
1,200.00	14.25	318.86	1,190.24	88.51	-77.32	-61.03	1.50	1.50	0.00
1,300.00	15.75	318.86	1,286.83	108.01	-94.35	-74.46	1.50	1.50	0.00
1,400.00	17.25	318.86	1,382.71	129.40	-113.03	-89.21	1.50	1.50	0.00
1,490.70	18.61	318.86	1,469.00	150.42	-131.40	-103.71	1.50	1.50	0.00
Fox Hills									
1,500.00	18.75	318.86	1,477.81	152.67	-133.36	-105.26	1.50	1.50	0.00
1,600.00	20.25	318.86	1,572.07	177.81	-155.32	-122.59	1.50	1.50	0.00
1,700.00	21.75	318.86	1,665.43	204.80	-178.90	-141.20	1.50	1.50	0.00
1,800.00	23.25	318.86	1,757.81	233.62	-204.07	-161.07	1.50	1.50	0.00
1,826.90	23.65	318.86	1,782.49	241.68	-211.11	-166.63	1.50	1.50	0.00
1,846.02	23.65	318.86	1,800.00	247.45	-216.16	-170.61	0.00	0.00	0.00
9 5/8"									
1,900.00	23.65	318.86	1,849.45	263.77	-230.41	-181.85	0.00	0.00	0.00
2,000.00	23.65	318.86	1,941.05	293.98	-256.80	-202.69	0.00	0.00	0.00
2,100.00	23.65	318.86	2,032.64	324.20	-283.20	-223.52	0.00	0.00	0.00
2,200.00	23.65	318.86	2,124.24	354.41	-309.59	-244.35	0.00	0.00	0.00
2,300.00	23.65	318.86	2,215.84	384.63	-335.99	-265.18	0.00	0.00	0.00
2,400.00	23.65	318.86	2,307.44	414.84	-362.38	-286.01	0.00	0.00	0.00
2,500.00	23.65	318.86	2,399.04	445.06	-388.77	-306.85	0.00	0.00	0.00
2,600.00	23.65	318.86	2,490.64	475.28	-415.17	-327.68	0.00	0.00	0.00
2,700.00	23.65	318.86	2,582.24	505.49	-441.56	-348.51	0.00	0.00	0.00
2,800.00	23.65	318.86	2,673.84	535.71	-467.96	-369.34	0.00	0.00	0.00
2,900.00	23.65	318.86	2,765.44	565.92	-494.35	-390.18	0.00	0.00	0.00
3,000.00	23.65	318.86	2,857.03	596.14	-520.75	-411.01	0.00	0.00	0.00
3,100.00	23.65	318.86	2,948.63	626.35	-547.14	-431.84	0.00	0.00	0.00
3,200.00	23.65	318.86	3,040.23	656.57	-573.54	-452.67	0.00	0.00	0.00
3,300.00	23.65	318.86	3,131.83	686.79	-599.93	-473.51	0.00	0.00	0.00
3,400.00	23.65	318.86	3,223.43	717.00	-626.32	-494.34	0.00	0.00	0.00
3,500.00	23.65	318.86	3,315.03	747.22	-652.72	-515.17	0.00	0.00	0.00
3,600.00	23.65	318.86	3,406.63	777.43	-679.11	-536.00	0.00	0.00	0.00
3,700.00	23.65	318.86	3,498.23	807.65	-705.51	-556.83	0.00	0.00	0.00
3,800.00	23.65	318.86	3,589.82	837.86	-731.90	-577.67	0.00	0.00	0.00
3,900.00	23.65	318.86	3,681.42	868.08	-758.30	-598.50	0.00	0.00	0.00
4,000.00	23.65	318.86	3,773.02	898.30	-784.69	-619.33	0.00	0.00	0.00
4,100.00	23.65	318.86	3,864.62	928.51	-811.09	-640.16	0.00	0.00	0.00
4,200.00	23.65	318.86	3,956.22	958.73	-837.48	-661.00	0.00	0.00	0.00
4,300.00	23.65	318.86	4,047.82	988.94	-863.87	-681.83	0.00	0.00	0.00
4,400.00	23.65	318.86	4,139.42	1,019.16	-890.27	-702.66	0.00	0.00	0.00
4,500.00	23.65	318.86	4,231.02	1,049.37	-916.66	-723.49	0.00	0.00	0.00
4,600.00	23.65	318.86	4,322.62	1,079.59	-943.06	-744.33	0.00	0.00	0.00
4,700.00	23.65	318.86	4,414.21	1,109.81	-969.45	-765.16	0.00	0.00	0.00

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Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well FITZSIMMONS 34N-9HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB @ 5009.00usft (D Rig)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB @ 5009.00usft (D Rig)
Site:	1N-66W-09 FITZSIMMONS 18-9HZ	North Reference:	True
Well:	FITZSIMMONS 34N-9HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	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)
4,800.00	23.65	318.86	4,505.81	1,140.02	-995.85	-785.99	0.00	0.00	0.00
4,900.00	23.65	318.86	4,597.41	1,170.24	-1,022.24	-806.82	0.00	0.00	0.00
5,000.00	23.65	318.86	4,689.01	1,200.45	-1,048.64	-827.65	0.00	0.00	0.00
5,100.00	23.65	318.86	4,780.61	1,230.67	-1,075.03	-848.49	0.00	0.00	0.00
5,136.45	23.65	318.86	4,814.00	1,241.68	-1,084.65	-856.08	0.00	0.00	0.00
Sussex									
5,200.00	23.65	318.86	4,872.21	1,260.88	-1,101.42	-869.32	0.00	0.00	0.00
5,300.00	23.65	318.86	4,963.81	1,291.10	-1,127.82	-890.15	0.00	0.00	0.00
5,304.04	23.65	318.86	4,967.51	1,292.32	-1,128.89	-890.99	0.00	0.00	0.00
5,400.00	22.21	318.86	5,055.88	1,320.48	-1,153.48	-910.41	1.50	-1.50	0.00
5,500.00	20.71	318.86	5,148.94	1,348.04	-1,177.56	-929.41	1.50	-1.50	0.00
5,600.00	19.21	318.86	5,242.93	1,373.75	-1,200.02	-947.14	1.50	-1.50	0.00
5,700.00	17.71	318.86	5,337.78	1,397.60	-1,220.85	-963.58	1.50	-1.50	0.00
5,800.00	16.21	318.86	5,433.43	1,419.58	-1,240.05	-978.73	1.50	-1.50	0.00
5,900.00	14.71	318.86	5,529.80	1,439.66	-1,257.59	-992.57	1.50	-1.50	0.00
6,000.00	13.21	318.86	5,626.84	1,457.83	-1,273.46	-1,005.10	1.50	-1.50	0.00
6,100.00	11.71	318.86	5,724.48	1,474.09	-1,287.66	-1,016.31	1.50	-1.50	0.00
6,200.00	10.21	318.86	5,822.66	1,488.41	-1,300.17	-1,026.19	1.50	-1.50	0.00
6,300.00	8.71	318.86	5,921.29	1,500.79	-1,310.99	-1,034.72	1.50	-1.50	0.00
6,400.00	7.21	318.86	6,020.33	1,511.23	-1,320.11	-1,041.92	1.50	-1.50	0.00
6,500.00	5.71	318.86	6,119.69	1,519.71	-1,327.51	-1,047.76	1.50	-1.50	0.00
6,600.00	4.21	318.86	6,219.31	1,526.22	-1,333.21	-1,052.26	1.50	-1.50	0.00
6,700.00	2.71	318.86	6,319.12	1,530.77	-1,337.18	-1,055.39	1.50	-1.50	0.00
6,800.00	1.21	318.86	6,419.06	1,533.35	-1,339.44	-1,057.17	1.50	-1.50	0.00
6,880.94	0.00	0.00	6,500.00	1,534.00	-1,340.00	-1,057.62	1.50	-1.50	0.00
6,900.00	0.00	0.00	6,519.06	1,534.00	-1,340.00	-1,057.62	0.00	0.00	0.00
7,000.00	0.00	0.00	6,619.06	1,534.00	-1,340.00	-1,057.62	0.00	0.00	0.00
7,048.22	0.00	0.00	6,667.27	1,534.00	-1,340.00	-1,057.62	0.00	0.00	0.00
7,100.00	4.66	180.00	6,719.00	1,531.90	-1,340.00	-1,055.61	9.00	9.00	0.00
7,200.00	13.66	180.00	6,817.62	1,515.99	-1,340.00	-1,040.45	9.00	9.00	0.00
7,300.00	22.66	180.00	6,912.54	1,484.86	-1,340.00	-1,010.77	9.00	9.00	0.00
7,400.00	31.66	180.00	7,001.42	1,439.25	-1,340.00	-967.30	9.00	9.00	0.00
7,500.00	40.66	180.00	7,082.08	1,380.31	-1,340.00	-911.11	9.00	9.00	0.00
7,569.17	46.89	180.00	7,132.00	1,332.48	-1,340.00	-865.51	9.00	9.00	0.00
Sharon Springs									
7,600.00	49.66	180.00	7,152.52	1,309.47	-1,340.00	-843.58	9.00	9.00	0.00
7,629.36	52.30	180.00	7,171.00	1,286.66	-1,340.00	-821.83	9.00	9.00	0.00
Niobrara									
7,700.00	58.66	180.00	7,211.01	1,228.49	-1,340.00	-766.38	9.00	9.00	0.00
7,800.00	67.66	180.00	7,256.11	1,139.35	-1,340.00	-681.41	9.00	9.00	0.00
7,873.26	74.25	180.00	7,280.00	1,070.15	-1,340.00	-615.43	9.00	9.00	0.00
Nio B									
7,900.00	76.66	180.00	7,286.72	1,044.26	-1,340.00	-590.75	9.00	9.00	0.00
8,000.00	85.66	180.00	7,302.07	945.55	-1,340.00	-496.65	9.00	9.00	0.00
8,046.22	89.82	180.00	7,303.89	899.38	-1,340.00	-452.63	9.00	9.00	0.00
Top of Production - FITZSIMMONS 34N-9HZ_PHL									
8,100.00	89.82	180.00	7,304.06	845.60	-1,340.00	-401.37	0.00	0.00	0.00
8,200.00	89.82	180.00	7,304.37	745.60	-1,340.00	-306.04	0.00	0.00	0.00
8,300.00	89.82	180.00	7,304.69	645.60	-1,340.00	-210.71	0.00	0.00	0.00
8,400.00	89.82	180.00	7,305.00	545.60	-1,340.00	-115.38	0.00	0.00	0.00
8,500.00	89.82	180.00	7,305.31	445.60	-1,340.00	-20.05	0.00	0.00	0.00
8,600.00	89.82	180.00	7,305.63	345.60	-1,340.00	75.28	0.00	0.00	0.00
8,700.00	89.82	180.00	7,305.94	245.60	-1,340.00	170.61	0.00	0.00	0.00

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well FITZSIMMONS 34N-9HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB @ 5009.00usft (D Rig)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB @ 5009.00usft (D Rig)
Site:	1N-66W-09 FITZSIMMONS 18-9HZ	North Reference:	True
Well:	FITZSIMMONS 34N-9HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	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)	
8,800.00	89.82	180.00	7,306.26	145.60	-1,340.00	265.94	0.00	0.00	0.00	
8,900.00	89.82	180.00	7,306.57	45.60	-1,340.00	361.27	0.00	0.00	0.00	
9,000.00	89.82	180.00	7,306.88	-54.40	-1,340.00	456.59	0.00	0.00	0.00	
9,100.00	89.82	180.00	7,307.20	-154.40	-1,340.00	551.92	0.00	0.00	0.00	
9,200.00	89.82	180.00	7,307.51	-254.40	-1,340.00	647.25	0.00	0.00	0.00	
9,300.00	89.82	180.00	7,307.83	-354.40	-1,340.00	742.58	0.00	0.00	0.00	
9,400.00	89.82	180.00	7,308.14	-454.40	-1,340.00	837.91	0.00	0.00	0.00	
9,500.00	89.82	180.00	7,308.46	-554.40	-1,340.00	933.24	0.00	0.00	0.00	
9,600.00	89.82	180.00	7,308.77	-654.40	-1,340.00	1,028.57	0.00	0.00	0.00	
9,700.00	89.82	180.00	7,309.08	-754.40	-1,340.00	1,123.90	0.00	0.00	0.00	
9,800.00	89.82	180.00	7,309.40	-854.40	-1,340.00	1,219.23	0.00	0.00	0.00	
9,900.00	89.82	180.00	7,309.71	-954.39	-1,340.00	1,314.56	0.00	0.00	0.00	
10,000.00	89.82	180.00	7,310.03	-1,054.39	-1,340.00	1,409.88	0.00	0.00	0.00	
10,100.00	89.82	180.00	7,310.34	-1,154.39	-1,340.00	1,505.21	0.00	0.00	0.00	
10,200.00	89.82	180.00	7,310.65	-1,254.39	-1,340.00	1,600.54	0.00	0.00	0.00	
10,300.00	89.82	180.00	7,310.97	-1,354.39	-1,340.00	1,695.87	0.00	0.00	0.00	
10,400.00	89.82	180.00	7,311.28	-1,454.39	-1,340.00	1,791.20	0.00	0.00	0.00	
10,500.00	89.82	180.00	7,311.60	-1,554.39	-1,340.00	1,886.53	0.00	0.00	0.00	
10,600.00	89.82	180.00	7,311.91	-1,654.39	-1,340.00	1,981.86	0.00	0.00	0.00	
10,700.00	89.82	180.00	7,312.23	-1,754.39	-1,340.00	2,077.19	0.00	0.00	0.00	
10,800.00	89.82	180.00	7,312.54	-1,854.39	-1,340.00	2,172.52	0.00	0.00	0.00	
10,900.00	89.82	180.00	7,312.85	-1,954.39	-1,340.00	2,267.85	0.00	0.00	0.00	
11,000.00	89.82	180.00	7,313.17	-2,054.39	-1,340.00	2,363.17	0.00	0.00	0.00	
11,100.00	89.82	180.00	7,313.48	-2,154.39	-1,340.00	2,458.50	0.00	0.00	0.00	
11,200.00	89.82	180.00	7,313.80	-2,254.39	-1,340.00	2,553.83	0.00	0.00	0.00	
11,300.00	89.82	180.00	7,314.11	-2,354.39	-1,340.00	2,649.16	0.00	0.00	0.00	
11,400.00	89.82	180.00	7,314.42	-2,454.39	-1,340.00	2,744.49	0.00	0.00	0.00	
11,500.00	89.82	180.00	7,314.74	-2,554.39	-1,340.00	2,839.82	0.00	0.00	0.00	
11,600.00	89.82	180.00	7,315.05	-2,654.39	-1,340.00	2,935.15	0.00	0.00	0.00	
11,700.00	89.82	180.00	7,315.37	-2,754.39	-1,340.00	3,030.48	0.00	0.00	0.00	
11,800.00	89.82	180.00	7,315.68	-2,854.39	-1,340.00	3,125.81	0.00	0.00	0.00	
11,900.00	89.82	180.00	7,315.99	-2,954.38	-1,340.00	3,221.14	0.00	0.00	0.00	
12,000.00	89.82	180.00	7,316.31	-3,054.38	-1,340.00	3,316.46	0.00	0.00	0.00	
12,100.00	89.82	180.00	7,316.62	-3,154.38	-1,340.00	3,411.79	0.00	0.00	0.00	
12,200.00	89.82	180.00	7,316.94	-3,254.38	-1,340.00	3,507.12	0.00	0.00	0.00	
12,300.00	89.82	180.00	7,317.25	-3,354.38	-1,340.00	3,602.45	0.00	0.00	0.00	
12,400.00	89.82	180.00	7,317.57	-3,454.38	-1,340.00	3,697.78	0.00	0.00	0.00	
12,500.00	89.82	180.00	7,317.88	-3,554.38	-1,340.00	3,793.11	0.00	0.00	0.00	
12,600.00	89.82	180.00	7,318.19	-3,654.38	-1,340.00	3,888.44	0.00	0.00	0.00	
12,700.00	89.82	180.00	7,318.51	-3,754.38	-1,340.00	3,983.77	0.00	0.00	0.00	
12,800.00	89.82	180.00	7,318.82	-3,854.38	-1,340.00	4,079.10	0.00	0.00	0.00	
12,900.00	89.82	180.00	7,319.14	-3,954.38	-1,340.00	4,174.43	0.00	0.00	0.00	
13,000.00	89.82	180.00	7,319.45	-4,054.38	-1,340.00	4,269.75	0.00	0.00	0.00	
13,100.00	89.82	180.00	7,319.76	-4,154.38	-1,340.00	4,365.08	0.00	0.00	0.00	
13,174.89	89.82	180.00	7,320.00	-4,229.27	-1,340.00	4,436.48	0.00	0.00	0.00	
FITZSIMMONS 34N-9HZ_PBHL										

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well FITZSIMMONS 34N-9HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB @ 5009.00usft (D Rig)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB @ 5009.00usft (D Rig)
Site:	1N-66W-09 FITZSIMMONS 18-9HZ	North Reference:	True
Well:	FITZSIMMONS 34N-9HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	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 34N-9	0.00	0.00	7,303.89	899.38	-1,340.00	14,553,263.25	1,698,915.20	40.072667	-104.790893
- plan hits target center									
- Point									
FITZSIMMONS 34N-9	0.00	0.00	7,320.00	-4,229.27	-1,340.00	14,548,134.61	1,698,927.53	40.058583	-104.790892
- plan hits target center									
- Point									

Casing Points					
	Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
	1,846.02	1,800.00	9 5/8"	9-5/8	13-1/2
	8,046.22	7,303.89	Top of Production	5-1/2	8-1/2

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,490.70	1,469.00	Fox Hills			
	5,136.45	4,814.00	Sussex			
	7,569.17	7,132.00	Sharon Springs			
	7,629.36	7,171.00	Niobrara			
	7,873.26	7,280.00	Nio B			