

US ROCKIES WATTENBERG PLANNING

**WELD-NAD83-UTMFT13N
1N-66W-09 FITZSIMMONS 3-9HZ
FITZSIMMONS 35N-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 35N-9HZ
Wellbore: Plan A
Design: Permit Rev-1

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1467.00	1485.13	Fox Hills
4812.00	4931.41	Sussex
7124.00	7297.86	Sharon Springs
7163.00	7351.33	Niobrara
7274.00	7541.37	Nio B
7331.00	7710.94	Nio C

WELL DETAILS: FITZSIMMONS 35N-9HZ

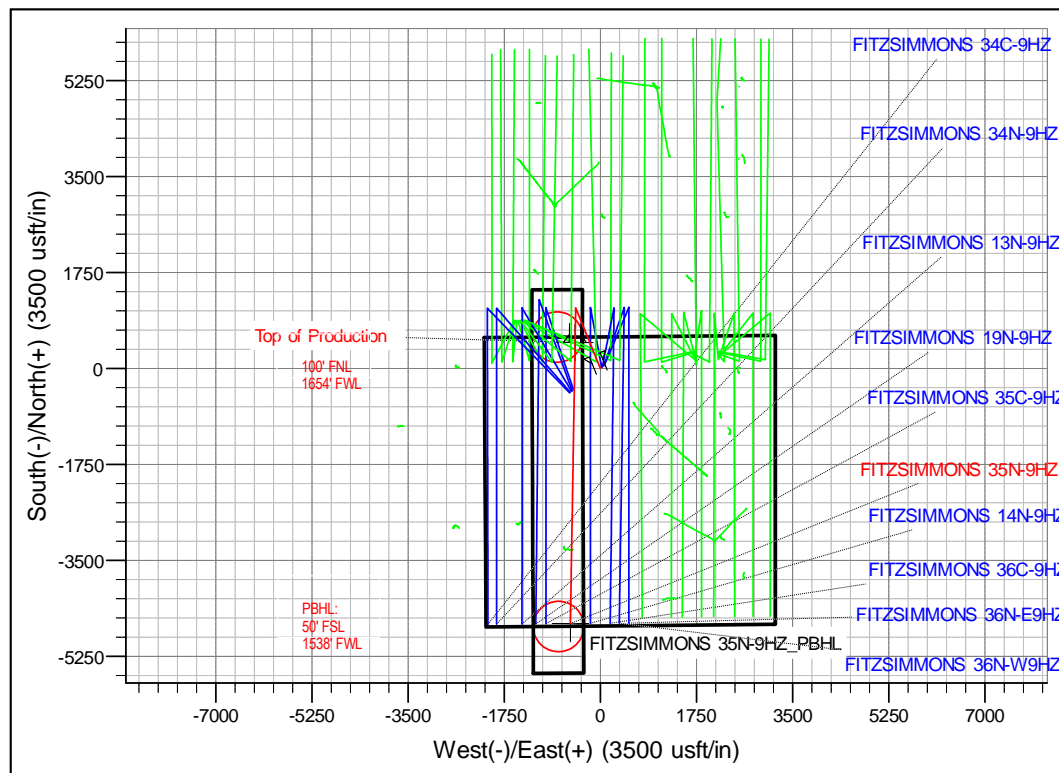
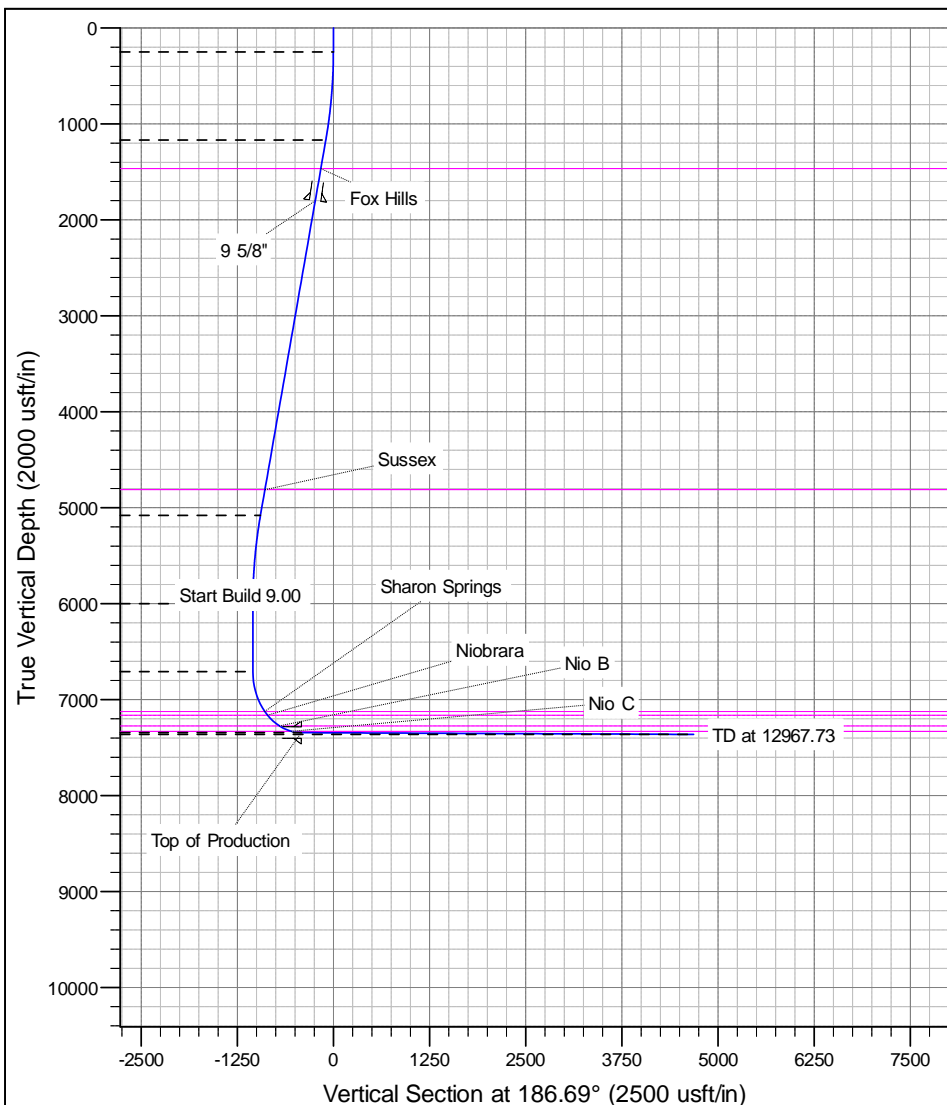
+N/-S	+E/-W	GL: 4990.00 Northing	RKB @ 5007.00usft (Original Well Elev) Easting	Latitude	Longitude	Slot
0.00	0.00	14552801.76	1700805.49	40.071387	-104.784140	

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
1178.32	13.92	337.87	1169.21	103.98	-42.29	1.50	-98.34
5208.34	13.92	337.87	5080.79	1002.32	-407.71	0.00	-947.97
6136.66	0.00	0.00	6000.00	1106.30	-450.00	1.50	1046.31
6845.15	0.00	0.00	6708.50	1106.30	-450.00	0.00	1046.31
7842.93	89.80	180.95	7345.11	471.99	-460.57	9.00	-415.10
12967.73	89.80	180.95	7363.00	-4652.07	-545.92	0.00	4683.99

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FITZSIMMONS 35N-9HZ_PHL	7345.11	471.99	-460.57	14553272.63	1700343.78	40.072683	-104.785786
FITZSIMMONS 35N-9HZ_PBHL	7363.00	-4652.07	-545.92	14548148.38	1700270.86	40.058612	-104.786091



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Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well FITZSIMMONS 35N-9HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB @ 5007.00usft (Original Well Elev)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB @ 5007.00usft (Original Well Elev)
Site:	1N-66W-09 FITZSIMMONS 3-9HZ	North Reference:	True
Well:	FITZSIMMONS 35N-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 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 35N-9HZ					
Well Position	+N/-S	0.00 usft	Northing:	14,552,801.75 usft	Latitude:	40.071387
	+E/-W	0.00 usft	Easting:	1,700,805.49 usft	Longitude:	-104.784140
Position Uncertainty		3.28 usft	Wellhead Elevation:	0.00 usft	Ground Level:	4,990.00 usft

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

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	186.69

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	
1,178.32	13.92	337.87	1,169.21	103.98	-42.29	1.50	1.50	0.00	337.87	
5,208.34	13.92	337.87	5,080.79	1,002.32	-407.71	0.00	0.00	0.00	0.00	
6,136.66	0.00	0.00	6,000.00	1,106.30	-450.00	1.50	-1.50	0.00	180.00	
6,845.15	0.00	0.00	6,708.50	1,106.30	-450.00	0.00	0.00	0.00	0.00	
7,842.93	89.80	180.95	7,345.11	471.99	-460.57	9.00	9.00	0.00	180.95	
12,967.73	89.80	180.95	7,363.00	-4,652.07	-545.92	0.00	0.00	0.00	0.00	FITZSIMMONS 35N

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Planning Report

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Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB @ 5007.00usft (Original Well Elev)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB @ 5007.00usft (Original Well Elev)
Site:	1N-66W-09 FITZSIMMONS 3-9HZ	North Reference:	True
Well:	FITZSIMMONS 35N-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	337.87	300.00	0.30	-0.12	-0.29	1.50	1.50	0.00
400.00	2.25	337.87	399.96	2.73	-1.11	-2.58	1.50	1.50	0.00
500.00	3.75	337.87	499.82	7.58	-3.08	-7.16	1.50	1.50	0.00
600.00	5.25	337.87	599.51	14.84	-6.04	-14.04	1.50	1.50	0.00
700.00	6.75	337.87	698.96	24.53	-9.98	-23.20	1.50	1.50	0.00
800.00	8.25	337.87	798.10	36.62	-14.89	-34.63	1.50	1.50	0.00
900.00	9.75	337.87	896.87	51.11	-20.79	-48.33	1.50	1.50	0.00
1,000.00	11.25	337.87	995.19	67.99	-27.65	-64.30	1.50	1.50	0.00
1,100.00	12.75	337.87	1,093.00	87.24	-35.49	-82.51	1.50	1.50	0.00
1,178.32	13.92	337.87	1,169.21	103.98	-42.29	-98.34	1.50	1.50	0.00
1,200.00	13.92	337.87	1,190.25	108.81	-44.26	-102.91	0.00	0.00	0.00
1,300.00	13.92	337.87	1,287.31	131.10	-53.33	-123.99	0.00	0.00	0.00
1,400.00	13.92	337.87	1,384.37	153.39	-62.40	-145.08	0.00	0.00	0.00
1,485.13	13.92	337.87	1,467.00	172.37	-70.11	-163.02	0.00	0.00	0.00
Fox Hills									
1,500.00	13.92	337.87	1,481.44	175.69	-71.46	-166.16	0.00	0.00	0.00
1,600.00	13.92	337.87	1,578.50	197.98	-80.53	-187.24	0.00	0.00	0.00
1,700.00	13.92	337.87	1,675.56	220.27	-89.60	-208.32	0.00	0.00	0.00
1,800.00	13.92	337.87	1,772.62	242.56	-98.66	-229.41	0.00	0.00	0.00
1,828.21	13.92	337.87	1,800.00	248.85	-101.22	-235.35	0.00	0.00	0.00
9 5/8"									
1,900.00	13.92	337.87	1,869.68	264.85	-107.73	-250.49	0.00	0.00	0.00
2,000.00	13.92	337.87	1,966.74	287.14	-116.80	-271.57	0.00	0.00	0.00
2,100.00	13.92	337.87	2,063.80	309.43	-125.87	-292.66	0.00	0.00	0.00
2,200.00	13.92	337.87	2,160.86	331.72	-134.93	-313.74	0.00	0.00	0.00
2,300.00	13.92	337.87	2,257.92	354.02	-144.00	-334.82	0.00	0.00	0.00
2,400.00	13.92	337.87	2,354.99	376.31	-153.07	-355.90	0.00	0.00	0.00
2,500.00	13.92	337.87	2,452.05	398.60	-162.13	-376.99	0.00	0.00	0.00
2,600.00	13.92	337.87	2,549.11	420.89	-171.20	-398.07	0.00	0.00	0.00
2,700.00	13.92	337.87	2,646.17	443.18	-180.27	-419.15	0.00	0.00	0.00
2,800.00	13.92	337.87	2,743.23	465.47	-189.34	-440.23	0.00	0.00	0.00
2,900.00	13.92	337.87	2,840.29	487.76	-198.40	-461.32	0.00	0.00	0.00
3,000.00	13.92	337.87	2,937.35	510.05	-207.47	-482.40	0.00	0.00	0.00
3,100.00	13.92	337.87	3,034.41	532.35	-216.54	-503.48	0.00	0.00	0.00
3,200.00	13.92	337.87	3,131.48	554.64	-225.60	-524.56	0.00	0.00	0.00
3,300.00	13.92	337.87	3,228.54	576.93	-234.67	-545.65	0.00	0.00	0.00
3,400.00	13.92	337.87	3,325.60	599.22	-243.74	-566.73	0.00	0.00	0.00
3,500.00	13.92	337.87	3,422.66	621.51	-252.81	-587.81	0.00	0.00	0.00
3,600.00	13.92	337.87	3,519.72	643.80	-261.87	-608.89	0.00	0.00	0.00
3,700.00	13.92	337.87	3,616.78	666.09	-270.94	-629.98	0.00	0.00	0.00
3,800.00	13.92	337.87	3,713.84	688.38	-280.01	-651.06	0.00	0.00	0.00
3,900.00	13.92	337.87	3,810.90	710.68	-289.08	-672.14	0.00	0.00	0.00
4,000.00	13.92	337.87	3,907.97	732.97	-298.14	-693.22	0.00	0.00	0.00
4,100.00	13.92	337.87	4,005.03	755.26	-307.21	-714.31	0.00	0.00	0.00
4,200.00	13.92	337.87	4,102.09	777.55	-316.28	-735.39	0.00	0.00	0.00
4,300.00	13.92	337.87	4,199.15	799.84	-325.34	-756.47	0.00	0.00	0.00
4,400.00	13.92	337.87	4,296.21	822.13	-334.41	-777.55	0.00	0.00	0.00
4,500.00	13.92	337.87	4,393.27	844.42	-343.48	-798.64	0.00	0.00	0.00
4,600.00	13.92	337.87	4,490.33	866.71	-352.55	-819.72	0.00	0.00	0.00
4,700.00	13.92	337.87	4,587.39	889.01	-361.61	-840.80	0.00	0.00	0.00

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Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well FITZSIMMONS 35N-9HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB @ 5007.00usft (Original Well Elev)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB @ 5007.00usft (Original Well Elev)
Site:	1N-66W-09 FITZSIMMONS 3-9HZ	North Reference:	True
Well:	FITZSIMMONS 35N-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	13.92	337.87	4,684.46	911.30	-370.68	-861.88	0.00	0.00	0.00
4,900.00	13.92	337.87	4,781.52	933.59	-379.75	-882.97	0.00	0.00	0.00
4,931.41	13.92	337.87	4,812.00	940.59	-382.60	-889.59	0.00	0.00	0.00
Sussex									
5,000.00	13.92	337.87	4,878.58	955.88	-388.81	-904.05	0.00	0.00	0.00
5,100.00	13.92	337.87	4,975.64	978.17	-397.88	-925.13	0.00	0.00	0.00
5,200.00	13.92	337.87	5,072.70	1,000.46	-406.95	-946.21	0.00	0.00	0.00
5,208.34	13.92	337.87	5,080.79	1,002.32	-407.71	-947.97	0.00	0.00	0.00
5,300.00	12.55	337.87	5,170.02	1,021.76	-415.61	-966.36	1.50	-1.50	0.00
5,400.00	11.05	337.87	5,267.90	1,040.70	-423.32	-984.27	1.50	-1.50	0.00
5,500.00	9.55	337.87	5,366.29	1,057.27	-430.06	-999.94	1.50	-1.50	0.00
5,600.00	8.05	337.87	5,465.11	1,071.44	-435.82	-1,013.34	1.50	-1.50	0.00
5,700.00	6.55	337.87	5,564.30	1,083.21	-440.61	-1,024.47	1.50	-1.50	0.00
5,800.00	5.05	337.87	5,663.78	1,092.57	-444.41	-1,033.32	1.50	-1.50	0.00
5,900.00	3.55	337.87	5,763.50	1,099.51	-447.24	-1,039.89	1.50	-1.50	0.00
6,000.00	2.05	337.87	5,863.37	1,104.04	-449.08	-1,044.17	1.50	-1.50	0.00
6,100.00	0.55	337.87	5,963.35	1,106.14	-449.93	-1,046.16	1.50	-1.50	0.00
6,136.66	0.00	0.00	6,000.00	1,106.30	-450.00	-1,046.31	1.50	-1.50	0.00
6,200.00	0.00	0.00	6,063.34	1,106.30	-450.00	-1,046.31	0.00	0.00	0.00
6,300.00	0.00	0.00	6,163.34	1,106.30	-450.00	-1,046.31	0.00	0.00	0.00
6,400.00	0.00	0.00	6,263.34	1,106.30	-450.00	-1,046.31	0.00	0.00	0.00
6,500.00	0.00	0.00	6,363.34	1,106.30	-450.00	-1,046.31	0.00	0.00	0.00
6,600.00	0.00	0.00	6,463.34	1,106.30	-450.00	-1,046.31	0.00	0.00	0.00
6,700.00	0.00	0.00	6,563.34	1,106.30	-450.00	-1,046.31	0.00	0.00	0.00
6,800.00	0.00	0.00	6,663.34	1,106.30	-450.00	-1,046.31	0.00	0.00	0.00
6,845.15	0.00	0.00	6,708.50	1,106.30	-450.00	-1,046.31	0.00	0.00	0.00
6,900.00	4.94	180.95	6,763.28	1,103.94	-450.04	-1,043.96	9.00	9.00	0.00
7,000.00	13.94	180.95	6,861.82	1,087.56	-450.31	-1,027.67	9.00	9.00	0.00
7,100.00	22.94	180.95	6,956.59	1,055.97	-450.84	-996.23	9.00	9.00	0.00
7,200.00	31.94	180.95	7,045.25	1,009.95	-451.60	-950.43	9.00	9.00	0.00
7,297.86	40.74	180.95	7,124.00	952.03	-452.57	-892.80	9.00	9.00	0.00
Sharon Springs									
7,300.00	40.94	180.95	7,125.62	950.63	-452.59	-891.40	9.00	9.00	0.00
7,351.33	45.56	180.95	7,163.00	915.48	-453.18	-856.42	9.00	9.00	0.00
Niobrara									
7,400.00	49.94	180.95	7,195.72	879.46	-453.78	-820.58	9.00	9.00	0.00
7,500.00	58.94	180.95	7,253.82	798.21	-455.13	-739.73	9.00	9.00	0.00
7,541.37	62.66	180.95	7,274.00	762.11	-455.73	-703.80	9.00	9.00	0.00
Nio B									
7,600.00	67.94	180.95	7,298.49	708.87	-456.62	-650.82	9.00	9.00	0.00
7,700.00	76.94	180.95	7,328.64	613.64	-458.21	-556.06	9.00	9.00	0.00
7,710.84	77.91	180.95	7,331.00	603.06	-458.38	-545.53	9.00	9.00	0.00
Nio C									
7,800.00	85.94	180.95	7,343.51	514.88	-459.85	-457.77	9.00	9.00	0.00
7,842.93	89.80	180.95	7,345.11	471.99	-460.57	-415.09	9.00	9.00	0.00
Top of Production - FITZSIMMONS 35N-9HZ_PHL									
7,900.00	89.80	180.95	7,345.31	414.93	-461.52	-358.31	0.00	0.00	0.00
8,000.00	89.80	180.95	7,345.66	314.94	-463.18	-258.81	0.00	0.00	0.00
8,100.00	89.80	180.95	7,346.01	214.96	-464.85	-159.31	0.00	0.00	0.00
8,200.00	89.80	180.95	7,346.36	114.97	-466.51	-59.82	0.00	0.00	0.00
8,300.00	89.80	180.95	7,346.71	14.99	-468.18	39.68	0.00	0.00	0.00
8,400.00	89.80	180.95	7,347.06	-85.00	-469.84	139.18	0.00	0.00	0.00
8,500.00	89.80	180.95	7,347.40	-184.99	-471.51	238.68	0.00	0.00	0.00

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Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well FITZSIMMONS 35N-9HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB @ 5007.00usft (Original Well Elev)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB @ 5007.00usft (Original Well Elev)
Site:	1N-66W-09 FITZSIMMONS 3-9HZ	North Reference:	True
Well:	FITZSIMMONS 35N-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)
8,600.00	89.80	180.95	7,347.75	-284.97	-473.17	338.18	0.00	0.00	0.00
8,700.00	89.80	180.95	7,348.10	-384.96	-474.84	437.68	0.00	0.00	0.00
8,800.00	89.80	180.95	7,348.45	-484.94	-476.50	537.17	0.00	0.00	0.00
8,900.00	89.80	180.95	7,348.80	-584.93	-478.17	636.67	0.00	0.00	0.00
9,000.00	89.80	180.95	7,349.15	-684.91	-479.84	736.17	0.00	0.00	0.00
9,100.00	89.80	180.95	7,349.50	-784.90	-481.50	835.67	0.00	0.00	0.00
9,200.00	89.80	180.95	7,349.85	-884.88	-483.17	935.17	0.00	0.00	0.00
9,300.00	89.80	180.95	7,350.20	-984.87	-484.83	1,034.66	0.00	0.00	0.00
9,400.00	89.80	180.95	7,350.55	-1,084.86	-486.50	1,134.16	0.00	0.00	0.00
9,500.00	89.80	180.95	7,350.90	-1,184.84	-488.16	1,233.66	0.00	0.00	0.00
9,600.00	89.80	180.95	7,351.24	-1,284.83	-489.83	1,333.16	0.00	0.00	0.00
9,700.00	89.80	180.95	7,351.59	-1,384.81	-491.49	1,432.66	0.00	0.00	0.00
9,800.00	89.80	180.95	7,351.94	-1,484.80	-493.16	1,532.16	0.00	0.00	0.00
9,900.00	89.80	180.95	7,352.29	-1,584.78	-494.82	1,631.65	0.00	0.00	0.00
10,000.00	89.80	180.95	7,352.64	-1,684.77	-496.49	1,731.15	0.00	0.00	0.00
10,100.00	89.80	180.95	7,352.99	-1,784.75	-498.16	1,830.65	0.00	0.00	0.00
10,200.00	89.80	180.95	7,353.34	-1,884.74	-499.82	1,930.15	0.00	0.00	0.00
10,300.00	89.80	180.95	7,353.69	-1,984.73	-501.49	2,029.65	0.00	0.00	0.00
10,400.00	89.80	180.95	7,354.04	-2,084.71	-503.15	2,129.15	0.00	0.00	0.00
10,500.00	89.80	180.95	7,354.39	-2,184.70	-504.82	2,228.64	0.00	0.00	0.00
10,600.00	89.80	180.95	7,354.74	-2,284.68	-506.48	2,328.14	0.00	0.00	0.00
10,700.00	89.80	180.95	7,355.08	-2,384.67	-508.15	2,427.64	0.00	0.00	0.00
10,800.00	89.80	180.95	7,355.43	-2,484.65	-509.81	2,527.14	0.00	0.00	0.00
10,900.00	89.80	180.95	7,355.78	-2,584.64	-511.48	2,626.64	0.00	0.00	0.00
11,000.00	89.80	180.95	7,356.13	-2,684.62	-513.14	2,726.13	0.00	0.00	0.00
11,100.00	89.80	180.95	7,356.48	-2,784.61	-514.81	2,825.63	0.00	0.00	0.00
11,200.00	89.80	180.95	7,356.83	-2,884.60	-516.48	2,925.13	0.00	0.00	0.00
11,300.00	89.80	180.95	7,357.18	-2,984.58	-518.14	3,024.63	0.00	0.00	0.00
11,400.00	89.80	180.95	7,357.53	-3,084.57	-519.81	3,124.13	0.00	0.00	0.00
11,500.00	89.80	180.95	7,357.88	-3,184.55	-521.47	3,223.63	0.00	0.00	0.00
11,600.00	89.80	180.95	7,358.23	-3,284.54	-523.14	3,323.12	0.00	0.00	0.00
11,700.00	89.80	180.95	7,358.57	-3,384.52	-524.80	3,422.62	0.00	0.00	0.00
11,800.00	89.80	180.95	7,358.92	-3,484.51	-526.47	3,522.12	0.00	0.00	0.00
11,900.00	89.80	180.95	7,359.27	-3,584.49	-528.13	3,621.62	0.00	0.00	0.00
12,000.00	89.80	180.95	7,359.62	-3,684.48	-529.80	3,721.12	0.00	0.00	0.00
12,100.00	89.80	180.95	7,359.97	-3,784.46	-531.46	3,820.62	0.00	0.00	0.00
12,200.00	89.80	180.95	7,360.32	-3,884.45	-533.13	3,920.11	0.00	0.00	0.00
12,300.00	89.80	180.95	7,360.67	-3,984.44	-534.79	4,019.61	0.00	0.00	0.00
12,400.00	89.80	180.95	7,361.02	-4,084.42	-536.46	4,119.11	0.00	0.00	0.00
12,500.00	89.80	180.95	7,361.37	-4,184.41	-538.13	4,218.61	0.00	0.00	0.00
12,600.00	89.80	180.95	7,361.72	-4,284.39	-539.79	4,318.11	0.00	0.00	0.00
12,700.00	89.80	180.95	7,362.07	-4,384.38	-541.46	4,417.60	0.00	0.00	0.00
12,800.00	89.80	180.95	7,362.41	-4,484.36	-543.12	4,517.10	0.00	0.00	0.00
12,900.00	89.80	180.95	7,362.76	-4,584.35	-544.79	4,616.60	0.00	0.00	0.00
12,967.73	89.80	180.95	7,363.00	-4,652.07	-545.92	4,683.99	0.00	0.00	0.00
FITZSIMMONS 35N-9HZ_PBHL									

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well FITZSIMMONS 35N-9HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB @ 5007.00usft (Original Well Elev)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB @ 5007.00usft (Original Well Elev)
Site:	1N-66W-09 FITZSIMMONS 3-9HZ	North Reference:	True
Well:	FITZSIMMONS 35N-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 35N-9	0.00	0.00	7,345.11	471.99	-460.57	14,553,272.62	1,700,343.78	40.072683	-104.785787
- plan hits target center									
- Point									
FITZSIMMONS 35N-9	0.00	0.00	7,363.00	-4,652.07	-545.92	14,548,148.37	1,700,270.86	40.058612	-104.786091
- plan hits target center									
- Point									

Casing Points					
	Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
	1,828.21	1,800.00	9 5/8"	9-5/8	13-1/2
	7,842.93	7,345.11	Top of Production	5-1/2	8-1/2

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,485.13	1,467.00	Fox Hills			
	4,931.41	4,812.00	Sussex			
	7,297.86	7,124.00	Sharon Springs			
	7,351.33	7,163.00	Niobrara			
	7,541.37	7,274.00	Nio B			
	7,710.84	7,331.00	Nio C			