

US ROCKIES WATTENBERG PLANNING

**WELD-NAD83-UTMFT13N
3N-67W-04 SWARTZ 2-4HZ PAD
SWARTZ 4-12HZ**

Plan B

Plan: Permit Rev-1

Standard Planning Report

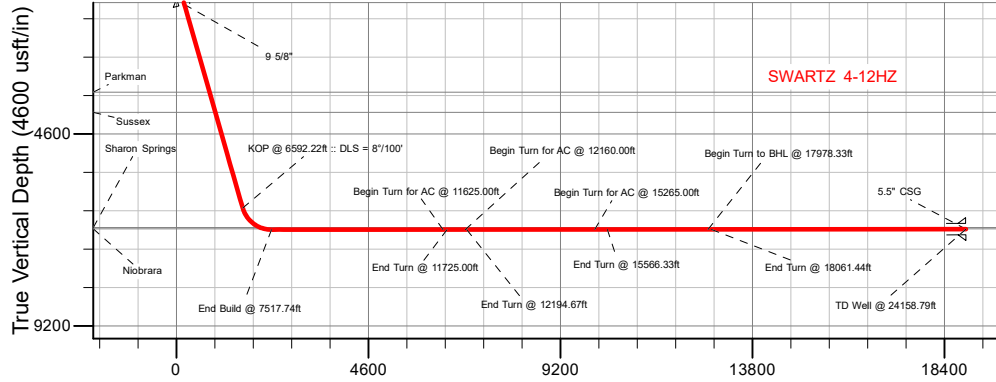
26 June, 2023

Project: WELD-NAD83-UTMFT13N
Site: 3N-67W-04 SWARTZ 2-4HZ PAD
Well: SWARTZ 4-12HZ
Wellbore: Plan B
Design: Permit Rev-1

US ROCKIES WATTENBERG PLANNING

CASING DETAILS

TVD	MD	Name	Size
1500.00	1519.44	9 5/8"	9-5/8
6879.00	24158.79	5.5" CSG	5-1/2



SHL
741' FNL
1602' FEL

LP
984' FNL
1372' FWL

BHL
1114' FNL
324' FWL

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
310.00	0.00	0.00	310.00	0.00	0.00	0.00	0.00	0.00	
1386.67	16.15	263.00	1372.47	-18.37	-149.61	1.50	263.00	149.51	
6592.22	16.15	263.00	6372.59	-194.83	-1586.76	0.00	0.00	1585.61	
7517.74	90.04	270.75	6891.00	-206.07	-2275.93	8.00	8.06	2274.70	
11625.00	90.04	270.75	6888.13	-152.31	-6382.84	0.00	0.00	6381.85	
11725.00	90.04	272.25	6888.06	-149.69	-6482.80	1.50	90.00	6481.83	
12160.00	90.04	272.25	6887.76	-132.61	-6917.46	0.00	0.00	6916.58	
12194.67	90.04	272.77	6887.74	-131.09	-6952.10	1.50	90.00	6951.23	
15265.00	90.04	272.77	6885.59	17.29	-10018.84	0.00	0.00	10018.77	
15566.33	90.04	268.25	6885.38	19.97	-10320.08	1.50	-90.00	10320.03	
17978.33	90.04	268.25	6883.70	-53.69	-12730.96	0.00	0.00	12730.44	
18061.44	90.04	269.50	6883.64	-55.32	-12814.05	1.50	89.84	12813.52	
24158.79	90.04	269.50	6879.00	-108.89	-18911.16	0.00	0.00	18910.22	SWARTZ 4-12HZ BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	Northing	Easting	Latitude	Longitude
SWARTZ 4-12HZ SHL	0.00	14621470.50	1670603.01	40.260110	-104.891800
SWARTZ 4-12HZ LP	6891.00	14621261.65	1668327.33	40.259544	-104.899957
SWARTZ 4-12HZ BHL	6879.00	14621338.53	1651692.00	40.259791	-104.959585

WELL DETAILS: SWARTZ 4-12HZ

GL = 4825'

RKB = 17' @ 4842.00usft (RIG)

Plan: Permit Rev-1 (SWARTZ 4-12HZ/Plan B)

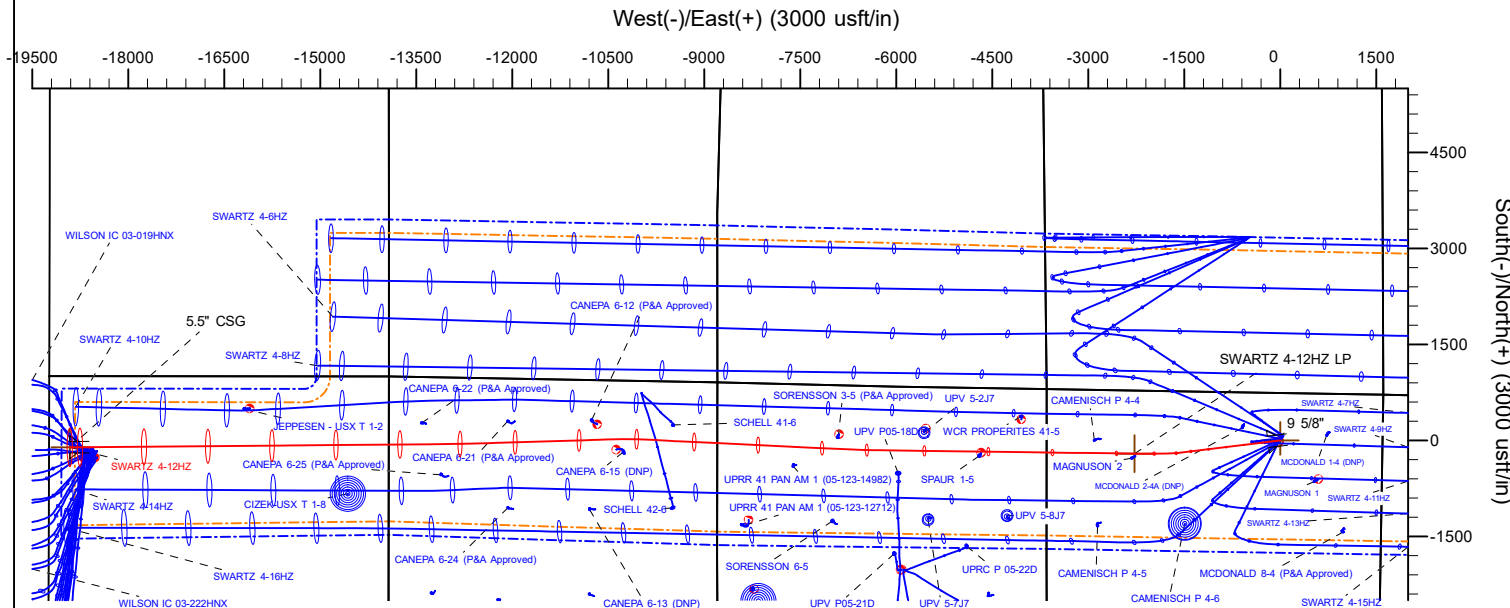
Date: 6/27/2023

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
707.00	707.72	Fox Hills
3598.00	3703.64	Parkman
4080.00	4205.44	Sussex
6841.00	7247.93	Sharon Springs
6871.00	7347.52	Niobrara

Azimuths to True North
Magnetic North: 7.71°

Magnetic Field
Strength: 51668.4nT
Dip Angle: 66.45°
Date: 5/5/2023
Model: IGRF2020



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SWARTZ 4-12HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4842.00usft (RIG)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4842.00usft (RIG)
Site:	3N-67W-04 SWARTZ 2-4HZ PAD	North Reference:	True
Well:	SWARTZ 4-12HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
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		3N-67W-04 SWARTZ 2-4HZ PAD			
Site Position:		Northing:	14,621,599.90 usft	Latitude:	40.260465
From:	Map	Easting:	1,670,705.29 usft	Longitude:	-104.891433
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	

Well		SWARTZ 4-12HZ				
Well Position	+N/-S	0.00 usft	Northing:	14,621,470.50 usft	Latitude:	40.260110
	+E/-W	0.00 usft	Easting:	1,670,603.01 usft	Longitude:	-104.891800
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	4,825.00 usft
Grid Convergence:		0.07 °				

Wellbore	Plan B				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	5/5/2023	7.71	66.45	51,668.42856041

Design	Permit Rev-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	270.33	

Plan Survey Tool Program		Date	5/8/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	2,000.00	Permit Rev-1 (Plan B)	APC_ISCWSA REV 2 MWD+I Fixed:v2:crustal field declinatio	
2	2,000.00	24,158.79	Permit Rev-1 (Plan B)	APC_ISCWSA REV 2 MWD+I Fixed:v2:Rockies, crustal dec +	

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Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4842.00usft (RIG)
Site:	3N-67W-04 SWARTZ 2-4HZ PAD	North Reference:	True
Well:	SWARTZ 4-12HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Permit Rev-1		

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	
310.00	0.00	0.00	310.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,386.67	16.15	263.00	1,372.47	-18.37	-149.61	1.50	1.50	0.00	263.00	
6,592.22	16.15	263.00	6,372.59	-194.83	-1,586.76	0.00	0.00	0.00	0.00	
7,517.74	90.04	270.75	6,891.00	-206.07	-2,275.93	8.00	7.98	0.84	8.06	
11,625.00	90.04	270.75	6,888.13	-152.31	-6,382.84	0.00	0.00	0.00	0.00	
11,725.00	90.04	272.25	6,888.06	-149.69	-6,482.80	1.50	0.00	1.50	90.00	
12,160.00	90.04	272.25	6,887.76	-132.61	-6,917.46	0.00	0.00	0.00	0.00	
12,194.67	90.04	272.77	6,887.74	-131.09	-6,952.10	1.50	0.00	1.50	90.00	
15,265.00	90.04	272.77	6,885.59	17.29	-10,018.84	0.00	0.00	0.00	0.00	
15,566.33	90.04	268.25	6,885.38	19.97	-10,320.08	1.50	0.00	-1.50	-90.00	
17,978.33	90.04	268.25	6,883.70	-53.69	-12,730.96	0.00	0.00	0.00	0.00	
18,061.44	90.04	269.50	6,883.64	-55.32	-12,814.05	1.50	0.00	1.50	89.84	
24,158.79	90.04	269.50	6,879.00	-108.89	-18,911.16	0.00	0.00	0.00	0.00	SWARTZ 4-12HZ BHI

Planning Report

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Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4842.00usft (RIG)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4842.00usft (RIG)
Site:	3N-67W-04 SWARTZ 2-4HZ PAD	North Reference:	True
Well:	SWARTZ 4-12HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
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
310.00	0.00	0.00	310.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 310.00ft									
400.00	1.35	263.00	399.99	-0.13	-1.05	1.05	1.50	1.50	0.00
500.00	2.85	263.00	499.92	-0.58	-4.69	4.69	1.50	1.50	0.00
600.00	4.35	263.00	599.72	-1.34	-10.92	10.91	1.50	1.50	0.00
700.00	5.85	263.00	699.32	-2.42	-19.74	19.73	1.50	1.50	0.00
707.72	5.97	263.00	707.00	-2.52	-20.53	20.52	1.50	1.50	0.00
Fox Hills									
800.00	7.35	263.00	798.66	-3.82	-31.15	31.13	1.50	1.50	0.00
900.00	8.85	263.00	897.66	-5.54	-45.14	45.10	1.50	1.50	0.00
1,000.00	10.35	263.00	996.25	-7.57	-61.69	61.64	1.50	1.50	0.00
1,100.00	11.85	263.00	1,094.38	-9.92	-80.80	80.74	1.50	1.50	0.00
1,200.00	13.35	263.00	1,191.97	-12.58	-102.45	102.37	1.50	1.50	0.00
1,300.00	14.85	263.00	1,288.95	-15.55	-126.63	126.54	1.50	1.50	0.00
1,386.67	16.15	263.00	1,372.47	-18.37	-149.61	149.51	1.50	1.50	0.00
Hold Tangent @ 1386.67ft									
1,400.00	16.15	263.00	1,385.27	-18.82	-153.30	153.18	0.00	0.00	0.00
1,500.00	16.15	263.00	1,481.33	-22.21	-180.90	180.77	0.00	0.00	0.00
1,519.44	16.15	263.00	1,500.00	-22.87	-186.27	186.14	0.00	0.00	0.00
9 5/8"									
1,600.00	16.15	263.00	1,577.38	-25.60	-208.51	208.36	0.00	0.00	0.00
1,700.00	16.15	263.00	1,673.43	-28.99	-236.12	235.95	0.00	0.00	0.00
1,800.00	16.15	263.00	1,769.49	-32.38	-263.73	263.54	0.00	0.00	0.00
1,900.00	16.15	263.00	1,865.54	-35.77	-291.34	291.12	0.00	0.00	0.00
2,000.00	16.15	263.00	1,961.60	-39.16	-318.94	318.71	0.00	0.00	0.00
2,100.00	16.15	263.00	2,057.65	-42.55	-346.55	346.30	0.00	0.00	0.00
2,200.00	16.15	263.00	2,153.70	-45.94	-374.16	373.89	0.00	0.00	0.00
2,300.00	16.15	263.00	2,249.76	-49.33	-401.77	401.48	0.00	0.00	0.00
2,400.00	16.15	263.00	2,345.81	-52.72	-429.38	429.06	0.00	0.00	0.00
2,500.00	16.15	263.00	2,441.86	-56.11	-456.98	456.65	0.00	0.00	0.00
2,600.00	16.15	263.00	2,537.92	-59.50	-484.59	484.24	0.00	0.00	0.00
2,700.00	16.15	263.00	2,633.97	-62.89	-512.20	511.83	0.00	0.00	0.00
2,800.00	16.15	263.00	2,730.02	-66.28	-539.81	539.42	0.00	0.00	0.00
2,900.00	16.15	263.00	2,826.08	-69.67	-567.42	567.00	0.00	0.00	0.00
3,000.00	16.15	263.00	2,922.13	-73.06	-595.02	594.59	0.00	0.00	0.00
3,100.00	16.15	263.00	3,018.19	-76.45	-622.63	622.18	0.00	0.00	0.00
3,200.00	16.15	263.00	3,114.24	-79.84	-650.24	649.77	0.00	0.00	0.00
3,300.00	16.15	263.00	3,210.29	-83.23	-677.85	677.36	0.00	0.00	0.00
3,400.00	16.15	263.00	3,306.35	-86.62	-705.46	704.94	0.00	0.00	0.00
3,500.00	16.15	263.00	3,402.40	-90.01	-733.06	732.53	0.00	0.00	0.00
3,600.00	16.15	263.00	3,498.45	-93.40	-760.67	760.12	0.00	0.00	0.00
3,700.00	16.15	263.00	3,594.51	-96.79	-788.28	787.71	0.00	0.00	0.00
3,703.64	16.15	263.00	3,598.00	-96.91	-789.28	788.71	0.00	0.00	0.00
Parkman									
3,800.00	16.15	263.00	3,690.56	-100.18	-815.89	815.30	0.00	0.00	0.00
3,900.00	16.15	263.00	3,786.62	-103.57	-843.50	842.88	0.00	0.00	0.00
4,000.00	16.15	263.00	3,882.67	-106.96	-871.10	870.47	0.00	0.00	0.00
4,100.00	16.15	263.00	3,978.72	-110.35	-898.71	898.06	0.00	0.00	0.00
4,200.00	16.15	263.00	4,074.78	-113.74	-926.32	925.65	0.00	0.00	0.00
4,205.44	16.15	263.00	4,080.00	-113.92	-927.82	927.15	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SWARTZ 4-12HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4842.00usft (RIG)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4842.00usft (RIG)
Site:	3N-67W-04 SWARTZ 2-4HZ PAD	North Reference:	True
Well:	SWARTZ 4-12HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
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)
Sussex									
4,300.00	16.15	263.00	4,170.83	-117.13	-953.93	953.24	0.00	0.00	0.00
4,400.00	16.15	263.00	4,266.88	-120.52	-981.53	980.82	0.00	0.00	0.00
4,500.00	16.15	263.00	4,362.94	-123.91	-1,009.14	1,008.41	0.00	0.00	0.00
4,600.00	16.15	263.00	4,458.99	-127.30	-1,036.75	1,036.00	0.00	0.00	0.00
4,700.00	16.15	263.00	4,555.04	-130.69	-1,064.36	1,063.59	0.00	0.00	0.00
4,800.00	16.15	263.00	4,651.10	-134.08	-1,091.97	1,091.18	0.00	0.00	0.00
4,900.00	16.15	263.00	4,747.15	-137.47	-1,119.57	1,118.76	0.00	0.00	0.00
5,000.00	16.15	263.00	4,843.21	-140.86	-1,147.18	1,146.35	0.00	0.00	0.00
5,100.00	16.15	263.00	4,939.26	-144.25	-1,174.79	1,173.94	0.00	0.00	0.00
5,200.00	16.15	263.00	5,035.31	-147.64	-1,202.40	1,201.53	0.00	0.00	0.00
5,300.00	16.15	263.00	5,131.37	-151.03	-1,230.01	1,229.12	0.00	0.00	0.00
5,400.00	16.15	263.00	5,227.42	-154.42	-1,257.61	1,256.70	0.00	0.00	0.00
5,500.00	16.15	263.00	5,323.47	-157.81	-1,285.22	1,284.29	0.00	0.00	0.00
5,600.00	16.15	263.00	5,419.53	-161.20	-1,312.83	1,311.88	0.00	0.00	0.00
5,700.00	16.15	263.00	5,515.58	-164.59	-1,340.44	1,339.47	0.00	0.00	0.00
5,800.00	16.15	263.00	5,611.64	-167.97	-1,368.05	1,367.06	0.00	0.00	0.00
5,900.00	16.15	263.00	5,707.69	-171.36	-1,395.65	1,394.64	0.00	0.00	0.00
6,000.00	16.15	263.00	5,803.74	-174.75	-1,423.26	1,422.23	0.00	0.00	0.00
6,100.00	16.15	263.00	5,899.80	-178.14	-1,450.87	1,449.82	0.00	0.00	0.00
6,200.00	16.15	263.00	5,995.85	-181.53	-1,478.48	1,477.41	0.00	0.00	0.00
6,300.00	16.15	263.00	6,091.90	-184.92	-1,506.09	1,505.00	0.00	0.00	0.00
6,400.00	16.15	263.00	6,187.96	-188.31	-1,533.69	1,532.58	0.00	0.00	0.00
6,500.00	16.15	263.00	6,284.01	-191.70	-1,561.30	1,560.17	0.00	0.00	0.00
6,592.22	16.15	263.00	6,372.59	-194.83	-1,586.76	1,585.61	0.00	0.00	0.00
KOP @ 6592.22ft :: DLS = 8°/100'									
6,600.00	16.77	263.30	6,380.05	-195.09	-1,588.95	1,587.80	8.00	7.92	3.89
6,650.00	20.74	264.83	6,427.39	-196.73	-1,604.94	1,603.78	8.00	7.94	3.05
6,700.00	24.72	265.88	6,473.50	-198.28	-1,624.19	1,623.02	8.00	7.96	2.11
6,750.00	28.70	266.66	6,518.16	-199.73	-1,646.61	1,645.43	8.00	7.97	1.55
6,800.00	32.69	267.26	6,561.14	-201.08	-1,672.09	1,670.90	8.00	7.98	1.20
6,850.00	36.68	267.74	6,602.25	-202.31	-1,700.51	1,699.31	8.00	7.98	0.97
6,900.00	40.67	268.14	6,641.28	-203.43	-1,731.73	1,730.53	8.00	7.98	0.80
6,950.00	44.67	268.48	6,678.03	-204.42	-1,765.59	1,764.39	8.00	7.99	0.68
7,000.00	48.66	268.78	6,712.34	-205.28	-1,801.94	1,800.73	8.00	7.99	0.59
7,050.00	52.65	269.04	6,744.03	-206.02	-1,840.60	1,839.38	8.00	7.99	0.52
7,100.00	56.65	269.28	6,772.95	-206.61	-1,881.37	1,880.14	8.00	7.99	0.47
7,150.00	60.65	269.49	6,798.96	-207.07	-1,924.05	1,922.83	8.00	7.99	0.43
7,200.00	64.64	269.69	6,821.93	-207.39	-1,968.45	1,967.22	8.00	7.99	0.40
7,247.93	68.47	269.87	6,841.00	-207.56	-2,012.42	2,011.19	8.00	7.99	0.37
Sharon Springs									
7,250.00	68.64	269.87	6,841.76	-207.56	-2,014.34	2,013.11	8.00	7.99	0.36
7,300.00	72.63	270.05	6,858.33	-207.59	-2,061.51	2,060.28	8.00	7.99	0.35
7,347.52	76.43	270.21	6,871.00	-207.49	-2,107.29	2,106.06	8.00	7.99	0.34
Niobrara									
7,350.00	76.63	270.22	6,871.58	-207.48	-2,109.71	2,108.48	8.00	7.99	0.33
7,400.00	80.63	270.38	6,881.43	-207.23	-2,158.72	2,157.49	8.00	7.99	0.32
7,450.00	84.63	270.54	6,887.85	-206.83	-2,208.29	2,207.06	8.00	7.99	0.32
7,500.00	88.62	270.69	6,890.79	-206.29	-2,258.19	2,256.97	8.00	7.99	0.31
7,517.74	90.04	270.75	6,891.00	-206.07	-2,275.93	2,274.70	8.00	7.99	0.31
End Build @ 7517.74ft									
7,600.00	90.04	270.75	6,890.94	-204.99	-2,358.18	2,356.96	0.00	0.00	0.00
7,700.00	90.04	270.75	6,890.87	-203.68	-2,458.17	2,456.96	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SWARTZ 4-12HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4842.00usft (RIG)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4842.00usft (RIG)
Site:	3N-67W-04 SWARTZ 2-4HZ PAD	North Reference:	True
Well:	SWARTZ 4-12HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
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)
7,800.00	90.04	270.75	6,890.80	-202.37	-2,558.16	2,556.96	0.00	0.00	0.00
7,900.00	90.04	270.75	6,890.73	-201.07	-2,658.16	2,656.95	0.00	0.00	0.00
8,000.00	90.04	270.75	6,890.66	-199.76	-2,758.15	2,756.95	0.00	0.00	0.00
8,100.00	90.04	270.75	6,890.59	-198.45	-2,858.14	2,856.95	0.00	0.00	0.00
8,200.00	90.04	270.75	6,890.52	-197.14	-2,958.13	2,956.94	0.00	0.00	0.00
8,300.00	90.04	270.75	6,890.45	-195.83	-3,058.12	3,056.94	0.00	0.00	0.00
8,400.00	90.04	270.75	6,890.38	-194.52	-3,158.11	3,156.94	0.00	0.00	0.00
8,500.00	90.04	270.75	6,890.31	-193.21	-3,258.10	3,256.94	0.00	0.00	0.00
8,600.00	90.04	270.75	6,890.24	-191.90	-3,358.09	3,356.93	0.00	0.00	0.00
8,700.00	90.04	270.75	6,890.17	-190.59	-3,458.09	3,456.93	0.00	0.00	0.00
8,800.00	90.04	270.75	6,890.11	-189.28	-3,558.08	3,556.93	0.00	0.00	0.00
8,900.00	90.04	270.75	6,890.04	-187.98	-3,658.07	3,656.93	0.00	0.00	0.00
9,000.00	90.04	270.75	6,889.97	-186.67	-3,758.06	3,756.92	0.00	0.00	0.00
9,100.00	90.04	270.75	6,889.90	-185.36	-3,858.05	3,856.92	0.00	0.00	0.00
9,200.00	90.04	270.75	6,889.83	-184.05	-3,958.04	3,956.92	0.00	0.00	0.00
9,300.00	90.04	270.75	6,889.76	-182.74	-4,058.03	4,056.92	0.00	0.00	0.00
9,400.00	90.04	270.75	6,889.69	-181.43	-4,158.03	4,156.91	0.00	0.00	0.00
9,500.00	90.04	270.75	6,889.62	-180.12	-4,258.02	4,256.91	0.00	0.00	0.00
9,600.00	90.04	270.75	6,889.55	-178.81	-4,358.01	4,356.91	0.00	0.00	0.00
9,700.00	90.04	270.75	6,889.48	-177.50	-4,458.00	4,456.90	0.00	0.00	0.00
9,800.00	90.04	270.75	6,889.41	-176.19	-4,557.99	4,556.90	0.00	0.00	0.00
9,900.00	90.04	270.75	6,889.34	-174.89	-4,657.98	4,656.90	0.00	0.00	0.00
10,000.00	90.04	270.75	6,889.27	-173.58	-4,757.97	4,756.90	0.00	0.00	0.00
10,100.00	90.04	270.75	6,889.20	-172.27	-4,857.97	4,856.89	0.00	0.00	0.00
10,200.00	90.04	270.75	6,889.13	-170.96	-4,957.96	4,956.89	0.00	0.00	0.00
10,300.00	90.04	270.75	6,889.06	-169.65	-5,057.95	5,056.89	0.00	0.00	0.00
10,400.00	90.04	270.75	6,888.99	-168.34	-5,157.94	5,156.89	0.00	0.00	0.00
10,500.00	90.04	270.75	6,888.92	-167.03	-5,257.93	5,256.88	0.00	0.00	0.00
10,600.00	90.04	270.75	6,888.85	-165.72	-5,357.92	5,356.88	0.00	0.00	0.00
10,700.00	90.04	270.75	6,888.78	-164.41	-5,457.91	5,456.88	0.00	0.00	0.00
10,800.00	90.04	270.75	6,888.71	-163.11	-5,557.91	5,556.87	0.00	0.00	0.00
10,900.00	90.04	270.75	6,888.64	-161.80	-5,657.90	5,656.87	0.00	0.00	0.00
11,000.00	90.04	270.75	6,888.57	-160.49	-5,757.89	5,756.87	0.00	0.00	0.00
11,100.00	90.04	270.75	6,888.50	-159.18	-5,857.88	5,856.87	0.00	0.00	0.00
11,200.00	90.04	270.75	6,888.43	-157.87	-5,957.87	5,956.86	0.00	0.00	0.00
11,300.00	90.04	270.75	6,888.36	-156.56	-6,057.86	6,056.86	0.00	0.00	0.00
11,400.00	90.04	270.75	6,888.29	-155.25	-6,157.85	6,156.86	0.00	0.00	0.00
11,500.00	90.04	270.75	6,888.22	-153.94	-6,257.85	6,256.86	0.00	0.00	0.00
11,600.00	90.04	270.75	6,888.15	-152.63	-6,357.84	6,356.85	0.00	0.00	0.00
11,625.00	90.04	270.75	6,888.13	-152.31	-6,382.84	6,381.85	0.00	0.00	0.00
Begin Turn for AC @ 11625.00ft									
11,700.00	90.04	271.88	6,888.08	-150.59	-6,457.81	6,456.84	1.50	0.00	1.50
11,725.00	90.04	272.25	6,888.06	-149.69	-6,482.80	6,481.83	1.50	0.00	1.50
End Turn @ 11725.00ft									
11,800.00	90.04	272.25	6,888.01	-146.74	-6,557.74	6,556.79	0.00	0.00	0.00
11,900.00	90.04	272.25	6,887.94	-142.82	-6,657.66	6,656.73	0.00	0.00	0.00
12,000.00	90.04	272.25	6,887.87	-138.89	-6,757.59	6,756.67	0.00	0.00	0.00
12,100.00	90.04	272.25	6,887.80	-134.97	-6,857.51	6,856.62	0.00	0.00	0.00
12,160.00	90.04	272.25	6,887.76	-132.61	-6,917.46	6,916.58	0.00	0.00	0.00
Begin Turn for AC @ 12160.00ft									
12,194.67	90.04	272.77	6,887.74	-131.09	-6,952.10	6,951.23	1.50	0.00	1.50
End Turn @ 12194.67ft									
12,200.00	90.04	272.77	6,887.73	-130.83	-6,957.42	6,956.55	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SWARTZ 4-12HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4842.00usft (RIG)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4842.00usft (RIG)
Site:	3N-67W-04 SWARTZ 2-4HZ PAD	North Reference:	True
Well:	SWARTZ 4-12HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
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)
12,300.00	90.04	272.77	6,887.66	-126.00	-7,057.31	7,056.46	0.00	0.00	0.00
12,400.00	90.04	272.77	6,887.59	-121.17	-7,157.19	7,156.37	0.00	0.00	0.00
12,500.00	90.04	272.77	6,887.52	-116.34	-7,257.07	7,256.28	0.00	0.00	0.00
12,600.00	90.04	272.77	6,887.45	-111.50	-7,356.96	7,356.19	0.00	0.00	0.00
12,700.00	90.04	272.77	6,887.38	-106.67	-7,456.84	7,456.10	0.00	0.00	0.00
12,800.00	90.04	272.77	6,887.31	-101.84	-7,556.72	7,556.01	0.00	0.00	0.00
12,900.00	90.04	272.77	6,887.24	-97.01	-7,656.60	7,655.92	0.00	0.00	0.00
13,000.00	90.04	272.77	6,887.17	-92.17	-7,756.49	7,755.83	0.00	0.00	0.00
13,100.00	90.04	272.77	6,887.10	-87.34	-7,856.37	7,855.74	0.00	0.00	0.00
13,200.00	90.04	272.77	6,887.03	-82.51	-7,956.25	7,955.65	0.00	0.00	0.00
13,300.00	90.04	272.77	6,886.96	-77.68	-8,056.14	8,055.56	0.00	0.00	0.00
13,400.00	90.04	272.77	6,886.89	-72.84	-8,156.02	8,155.47	0.00	0.00	0.00
13,500.00	90.04	272.77	6,886.82	-68.01	-8,255.90	8,255.38	0.00	0.00	0.00
13,600.00	90.04	272.77	6,886.75	-63.18	-8,355.79	8,355.28	0.00	0.00	0.00
13,700.00	90.04	272.77	6,886.68	-58.34	-8,455.67	8,455.19	0.00	0.00	0.00
13,800.00	90.04	272.77	6,886.61	-53.51	-8,555.55	8,555.10	0.00	0.00	0.00
13,900.00	90.04	272.77	6,886.54	-48.68	-8,655.44	8,655.01	0.00	0.00	0.00
14,000.00	90.04	272.77	6,886.47	-43.85	-8,755.32	8,754.92	0.00	0.00	0.00
14,100.00	90.04	272.77	6,886.41	-39.01	-8,855.20	8,854.83	0.00	0.00	0.00
14,200.00	90.04	272.77	6,886.34	-34.18	-8,955.09	8,954.74	0.00	0.00	0.00
14,300.00	90.04	272.77	6,886.27	-29.35	-9,054.97	9,054.65	0.00	0.00	0.00
14,400.00	90.04	272.77	6,886.20	-24.52	-9,154.85	9,154.56	0.00	0.00	0.00
14,500.00	90.04	272.77	6,886.13	-19.68	-9,254.74	9,254.47	0.00	0.00	0.00
14,600.00	90.04	272.77	6,886.06	-14.85	-9,354.62	9,354.38	0.00	0.00	0.00
14,700.00	90.04	272.77	6,885.99	-10.02	-9,454.50	9,454.29	0.00	0.00	0.00
14,800.00	90.04	272.77	6,885.92	-5.19	-9,554.38	9,554.20	0.00	0.00	0.00
14,900.00	90.04	272.77	6,885.85	-0.35	-9,654.27	9,654.11	0.00	0.00	0.00
15,000.00	90.04	272.77	6,885.78	4.48	-9,754.15	9,754.01	0.00	0.00	0.00
15,100.00	90.04	272.77	6,885.71	9.31	-9,854.03	9,853.92	0.00	0.00	0.00
15,200.00	90.04	272.77	6,885.64	14.15	-9,953.92	9,953.83	0.00	0.00	0.00
15,265.00	90.04	272.77	6,885.59	17.29	-10,018.84	10,018.77	0.00	0.00	0.00
Begin Turn for AC @ 15265.00ft									
15,300.00	90.04	272.25	6,885.57	18.82	-10,053.81	10,053.75	1.50	0.00	-1.50
15,400.00	90.04	270.75	6,885.50	21.43	-10,153.77	10,153.73	1.50	0.00	-1.50
15,500.00	90.04	269.25	6,885.43	21.42	-10,253.77	10,253.72	1.50	0.00	-1.50
15,566.33	90.04	268.25	6,885.38	19.97	-10,320.08	10,320.03	1.50	0.00	-1.50
End Turn @ 15566.33ft									
15,600.00	90.04	268.25	6,885.36	18.94	-10,353.74	10,353.67	0.00	0.00	0.00
15,700.00	90.04	268.25	6,885.29	15.89	-10,453.69	10,453.61	0.00	0.00	0.00
15,800.00	90.04	268.25	6,885.22	12.83	-10,553.64	10,553.54	0.00	0.00	0.00
15,900.00	90.04	268.25	6,885.15	9.78	-10,653.60	10,653.47	0.00	0.00	0.00
16,000.00	90.04	268.25	6,885.08	6.72	-10,753.55	10,753.41	0.00	0.00	0.00
16,100.00	90.04	268.25	6,885.01	3.67	-10,853.50	10,853.34	0.00	0.00	0.00
16,200.00	90.04	268.25	6,884.94	0.62	-10,953.46	10,953.28	0.00	0.00	0.00
16,300.00	90.04	268.25	6,884.87	-2.44	-11,053.41	11,053.21	0.00	0.00	0.00
16,400.00	90.04	268.25	6,884.80	-5.49	-11,153.36	11,153.15	0.00	0.00	0.00
16,500.00	90.04	268.25	6,884.73	-8.54	-11,253.32	11,253.08	0.00	0.00	0.00
16,600.00	90.04	268.25	6,884.66	-11.60	-11,353.27	11,353.01	0.00	0.00	0.00
16,700.00	90.04	268.25	6,884.59	-14.65	-11,453.22	11,452.95	0.00	0.00	0.00
16,800.00	90.04	268.25	6,884.52	-17.71	-11,553.18	11,552.88	0.00	0.00	0.00
16,900.00	90.04	268.25	6,884.45	-20.76	-11,653.13	11,652.82	0.00	0.00	0.00
17,000.00	90.04	268.25	6,884.38	-23.81	-11,753.08	11,752.75	0.00	0.00	0.00
17,100.00	90.04	268.25	6,884.31	-26.87	-11,853.04	11,852.68	0.00	0.00	0.00
17,200.00	90.04	268.25	6,884.24	-29.92	-11,952.99	11,952.62	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SWARTZ 4-12HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4842.00usft (RIG)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4842.00usft (RIG)
Site:	3N-67W-04 SWARTZ 2-4HZ PAD	North Reference:	True
Well:	SWARTZ 4-12HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
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)
17,300.00	90.04	268.25	6,884.17	-32.98	-12,052.94	12,052.55	0.00	0.00	0.00
17,400.00	90.04	268.25	6,884.10	-36.03	-12,152.90	12,152.49	0.00	0.00	0.00
17,500.00	90.04	268.25	6,884.03	-39.08	-12,252.85	12,252.42	0.00	0.00	0.00
17,600.00	90.04	268.25	6,883.96	-42.14	-12,352.80	12,352.35	0.00	0.00	0.00
17,700.00	90.04	268.25	6,883.89	-45.19	-12,452.76	12,452.29	0.00	0.00	0.00
17,800.00	90.04	268.25	6,883.82	-48.24	-12,552.71	12,552.22	0.00	0.00	0.00
17,900.00	90.04	268.25	6,883.75	-51.30	-12,652.66	12,652.16	0.00	0.00	0.00
17,978.33	90.04	268.25	6,883.70	-53.69	-12,730.96	12,730.44	0.00	0.00	0.00
Begin Turn to BHL @ 17978.33ft									
18,000.00	90.04	268.58	6,883.68	-54.29	-12,752.62	12,752.09	1.50	0.00	1.50
18,061.44	90.04	269.50	6,883.64	-55.32	-12,814.05	12,813.52	1.50	0.00	1.50
End Turn @ 18061.44ft									
18,100.00	90.04	269.50	6,883.61	-55.66	-12,852.61	12,852.07	0.00	0.00	0.00
18,200.00	90.04	269.50	6,883.53	-56.54	-12,952.60	12,952.06	0.00	0.00	0.00
18,300.00	90.04	269.50	6,883.46	-57.42	-13,052.60	13,052.05	0.00	0.00	0.00
18,400.00	90.04	269.50	6,883.38	-58.30	-13,152.59	13,152.04	0.00	0.00	0.00
18,500.00	90.04	269.50	6,883.30	-59.18	-13,252.59	13,252.03	0.00	0.00	0.00
18,600.00	90.04	269.50	6,883.23	-60.06	-13,352.59	13,352.02	0.00	0.00	0.00
18,700.00	90.04	269.50	6,883.15	-60.93	-13,452.58	13,452.01	0.00	0.00	0.00
18,800.00	90.04	269.50	6,883.08	-61.81	-13,552.58	13,552.00	0.00	0.00	0.00
18,900.00	90.04	269.50	6,883.00	-62.69	-13,652.58	13,651.99	0.00	0.00	0.00
19,000.00	90.04	269.50	6,882.92	-63.57	-13,752.57	13,751.98	0.00	0.00	0.00
19,100.00	90.04	269.50	6,882.85	-64.45	-13,852.57	13,851.97	0.00	0.00	0.00
19,200.00	90.04	269.50	6,882.77	-65.33	-13,952.56	13,951.96	0.00	0.00	0.00
19,300.00	90.04	269.50	6,882.69	-66.21	-14,052.56	14,051.95	0.00	0.00	0.00
19,400.00	90.04	269.50	6,882.62	-67.08	-14,152.56	14,151.93	0.00	0.00	0.00
19,500.00	90.04	269.50	6,882.54	-67.96	-14,252.55	14,251.92	0.00	0.00	0.00
19,600.00	90.04	269.50	6,882.47	-68.84	-14,352.55	14,351.91	0.00	0.00	0.00
19,700.00	90.04	269.50	6,882.39	-69.72	-14,452.54	14,451.90	0.00	0.00	0.00
19,800.00	90.04	269.50	6,882.31	-70.60	-14,552.54	14,551.89	0.00	0.00	0.00
19,900.00	90.04	269.50	6,882.24	-71.48	-14,652.54	14,651.88	0.00	0.00	0.00
20,000.00	90.04	269.50	6,882.16	-72.35	-14,752.53	14,751.87	0.00	0.00	0.00
20,100.00	90.04	269.50	6,882.09	-73.23	-14,852.53	14,851.86	0.00	0.00	0.00
20,200.00	90.04	269.50	6,882.01	-74.11	-14,952.52	14,951.85	0.00	0.00	0.00
20,300.00	90.04	269.50	6,881.93	-74.99	-15,052.52	15,051.84	0.00	0.00	0.00
20,400.00	90.04	269.50	6,881.86	-75.87	-15,152.52	15,151.83	0.00	0.00	0.00
20,500.00	90.04	269.50	6,881.78	-76.75	-15,252.51	15,251.82	0.00	0.00	0.00
20,600.00	90.04	269.50	6,881.71	-77.63	-15,352.51	15,351.81	0.00	0.00	0.00
20,700.00	90.04	269.50	6,881.63	-78.50	-15,452.51	15,451.80	0.00	0.00	0.00
20,800.00	90.04	269.50	6,881.55	-79.38	-15,552.50	15,551.79	0.00	0.00	0.00
20,900.00	90.04	269.50	6,881.48	-80.26	-15,652.50	15,651.78	0.00	0.00	0.00
21,000.00	90.04	269.50	6,881.40	-81.14	-15,752.49	15,751.76	0.00	0.00	0.00
21,100.00	90.04	269.50	6,881.33	-82.02	-15,852.49	15,851.75	0.00	0.00	0.00
21,200.00	90.04	269.50	6,881.25	-82.90	-15,952.49	15,951.74	0.00	0.00	0.00
21,300.00	90.04	269.50	6,881.17	-83.78	-16,052.48	16,051.73	0.00	0.00	0.00
21,400.00	90.04	269.50	6,881.10	-84.65	-16,152.48	16,151.72	0.00	0.00	0.00
21,500.00	90.04	269.50	6,881.02	-85.53	-16,252.47	16,251.71	0.00	0.00	0.00
21,600.00	90.04	269.50	6,880.95	-86.41	-16,352.47	16,351.70	0.00	0.00	0.00
21,700.00	90.04	269.50	6,880.87	-87.29	-16,452.47	16,451.69	0.00	0.00	0.00
21,800.00	90.04	269.50	6,880.79	-88.17	-16,552.46	16,551.68	0.00	0.00	0.00
21,900.00	90.04	269.50	6,880.72	-89.05	-16,652.46	16,651.67	0.00	0.00	0.00
22,000.00	90.04	269.50	6,880.64	-89.93	-16,752.45	16,751.66	0.00	0.00	0.00
22,100.00	90.04	269.50	6,880.57	-90.80	-16,852.45	16,851.65	0.00	0.00	0.00
22,200.00	90.04	269.50	6,880.49	-91.68	-16,952.45	16,951.64	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SWARTZ 4-12HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4842.00usft (RIG)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4842.00usft (RIG)
Site:	3N-67W-04 SWARTZ 2-4HZ PAD	North Reference:	True
Well:	SWARTZ 4-12HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
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)	
22,300.00	90.04	269.50	6,880.41	-92.56	-17,052.44	17,051.63	0.00	0.00	0.00	
22,400.00	90.04	269.50	6,880.34	-93.44	-17,152.44	17,151.62	0.00	0.00	0.00	
22,500.00	90.04	269.50	6,880.26	-94.32	-17,252.44	17,251.61	0.00	0.00	0.00	
22,600.00	90.04	269.50	6,880.19	-95.20	-17,352.43	17,351.60	0.00	0.00	0.00	
22,700.00	90.04	269.50	6,880.11	-96.07	-17,452.43	17,451.58	0.00	0.00	0.00	
22,800.00	90.04	269.50	6,880.03	-96.95	-17,552.42	17,551.57	0.00	0.00	0.00	
22,900.00	90.04	269.50	6,879.96	-97.83	-17,652.42	17,651.56	0.00	0.00	0.00	
23,000.00	90.04	269.50	6,879.88	-98.71	-17,752.42	17,751.55	0.00	0.00	0.00	
23,100.00	90.04	269.50	6,879.81	-99.59	-17,852.41	17,851.54	0.00	0.00	0.00	
23,200.00	90.04	269.50	6,879.73	-100.47	-17,952.41	17,951.53	0.00	0.00	0.00	
23,300.00	90.04	269.50	6,879.65	-101.35	-18,052.40	18,051.52	0.00	0.00	0.00	
23,400.00	90.04	269.50	6,879.58	-102.22	-18,152.40	18,151.51	0.00	0.00	0.00	
23,500.00	90.04	269.50	6,879.50	-103.10	-18,252.40	18,251.50	0.00	0.00	0.00	
23,600.00	90.04	269.50	6,879.43	-103.98	-18,352.39	18,351.49	0.00	0.00	0.00	
23,700.00	90.04	269.50	6,879.35	-104.86	-18,452.39	18,451.48	0.00	0.00	0.00	
23,800.00	90.04	269.50	6,879.27	-105.74	-18,552.38	18,551.47	0.00	0.00	0.00	
23,900.00	90.04	269.50	6,879.20	-106.62	-18,652.38	18,651.46	0.00	0.00	0.00	
24,000.00	90.04	269.50	6,879.12	-107.50	-18,752.38	18,751.45	0.00	0.00	0.00	
24,100.00	90.04	269.50	6,879.04	-108.37	-18,852.37	18,851.44	0.00	0.00	0.00	
24,158.79	90.04	269.50	6,879.00	-108.89	-18,911.16	18,910.22	0.00	0.00	0.00	
TD Well @ 24158.79ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,519.44	1,500.00	9 5/8"	9-5/8	13-1/2	
24,158.79	6,879.00	5.5" CSG	5-1/2	7-7/8	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
707.72	707.00	Fox Hills				
3,703.64	3,598.00	Parkman				
4,205.44	4,080.00	Sussex				
7,247.93	6,841.00	Sharon Springs				
7,347.52	6,871.00	Niobrara				

Planning Report

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Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4842.00usft (RIG)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4842.00usft (RIG)
Site:	3N-67W-04 SWARTZ 2-4HZ PAD	North Reference:	True
Well:	SWARTZ 4-12HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Permit Rev-1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
310.00	310.00	0.00	0.00	Begin Nudge @ 310.00ft
1,386.67	1,372.47	-18.37	-149.61	Hold Tangent @ 1386.67ft
6,592.22	6,372.59	-194.83	-1,586.76	KOP @ 6592.22ft :: DLS = 8°/100'
7,517.74	6,891.00	-206.07	-2,275.93	End Build @ 7517.74ft
11,625.00	6,888.13	-152.31	-6,382.84	Begin Turn for AC @ 11625.00ft
11,725.00	6,888.06	-149.69	-6,482.80	End Turn @ 11725.00ft
12,160.00	6,887.76	-132.61	-6,917.46	Begin Turn for AC @ 12160.00ft
12,194.67	6,887.74	-131.09	-6,952.10	End Turn @ 12194.67ft
15,265.00	6,885.59	17.29	-10,018.84	Begin Turn for AC @ 15265.00ft
15,566.33	6,885.38	19.97	-10,320.08	End Turn @ 15566.33ft
17,978.33	6,883.70	-53.69	-12,730.96	Begin Turn to BHL @ 17978.33ft
18,061.44	6,883.64	-55.32	-12,814.05	End Turn @ 18061.44ft
24,158.79	6,879.00	-108.89	-18,911.16	TD Well @ 24158.79ft