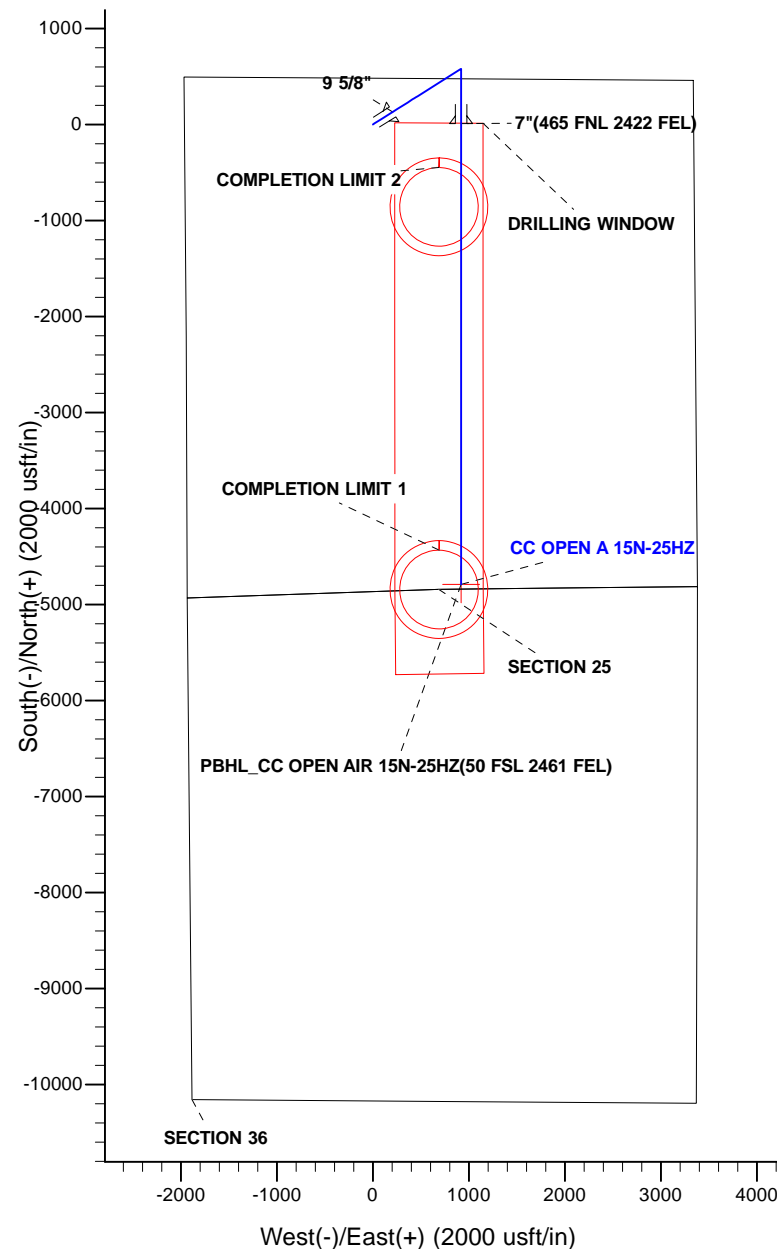
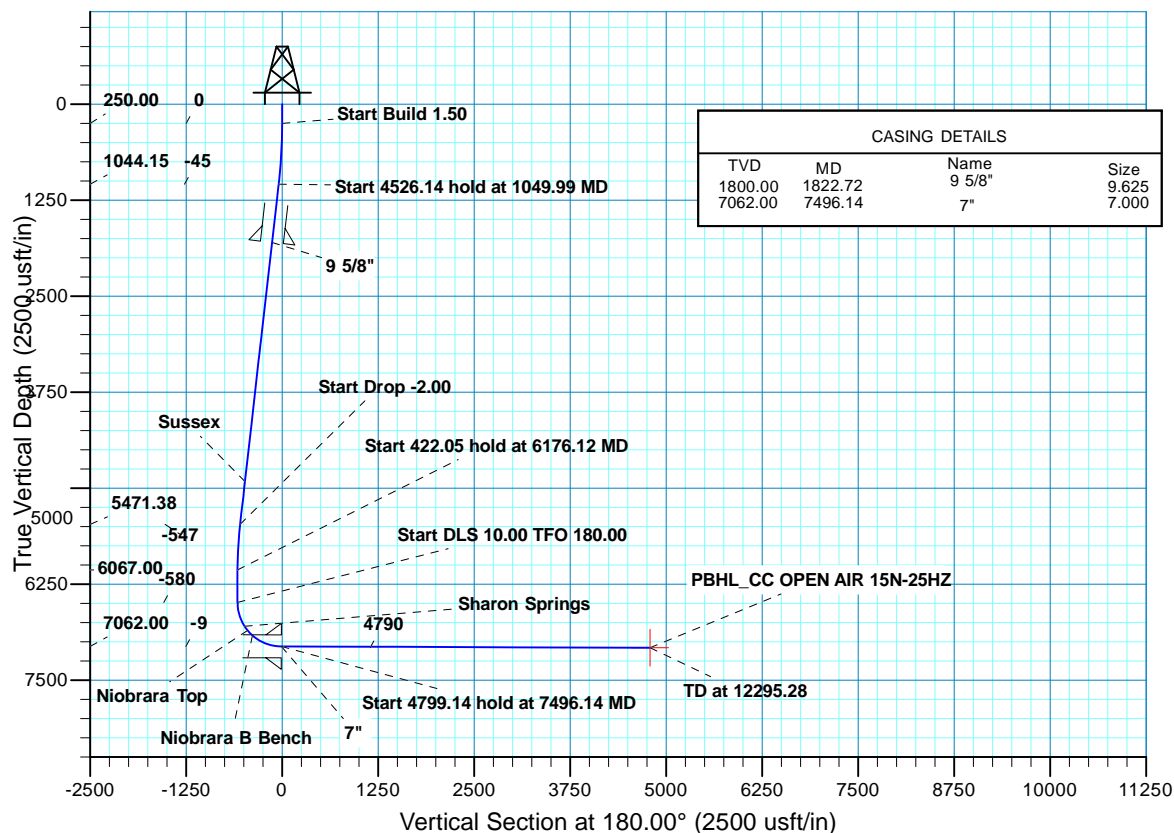




Project: WELD-NAD83-UTMFT13N
Site: 2N-65W-25 CC Open A Pad #2
Well: CC OPEN A 15N-25HZ
Wellbore: PLAN A
Design: PERMIT REV-2



WELL DETAILS: CC OPEN A 15N-25HZ										
GL 4895 & KB 17 @ 4912.00usft (ASSUMED)										
		+N/-S	+E/-W	Northing		Easting		Latitude	Longitude	
		0.00	0.00	14568995.97		1748132.11		40.115419	-104.614723	
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		
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00		
1049.99	12.00	57.76	1044.15	44.53	70.60	1.50	57.76	-44.53		
5576.12	12.00	57.76	5471.38	546.60	866.49	0.00	0.00	-546.60		
6176.12	0.00	0.00	6067.00	580.00	919.44	2.00	180.00	-580.00		
6598.17	0.00	0.00	6489.05	580.00	919.44	0.00	0.00	-580.00		
7496.14	89.80	180.00	7062.00	9.07	919.44	10.00	180.00	-9.07		
12295.28	89.80	180.00	7079.00	-4790.04	919.44	0.00	0.00	4790.04	PBHL_CC OPEN AIR 15N-25HZ	
DESIGN TARGET DETAILS										
Name		TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL		7079.00	-4790.04	919.44	14564209.96	1749072.30	40.102265	-104.611435	Point	
- plan hits target center										
FORMATION TOP DETAILS										
		TVDPath	MDPath	Formation		DipDirInc				
		4913.00	5005.27	Sussex		12.00				
		6798.00	6924.47	Sharon Springs		32.63				
		6854.00	6993.82	Niobrara Top		39.57				
		6919.00	7084.42	Niobrara B Bench		48.63				



Plan: PERMIT REV-2 (CC OPEN A 15N-25HZ/PLAN A)

Created By: RobertScott Date: 10:31, July 17 2015

US ROCKIES WATTENBERG PLANNING

WELD-NAD83-UTMFT13N

2N-65W-25 CC Open A Pad #2

CC OPEN A 15N-25HZ

PLAN A

Plan: PERMIT REV-2

Standard Planning Report

17 July, 2015

Database:	Denver Sales	Local Co-ordinate Reference:	Well CC OPEN A 15N-25HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4895 & KB 17 @ 4912.00usft (ASSUMED)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4895 & KB 17 @ 4912.00usft (ASSUMED)
Site:	2N-65W-25 CC Open A Pad #2	North Reference:	True
Well:	CC OPEN A 15N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	PLAN A		
Design:	PERMIT REV-2		

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						2N-65W-25 CC Open A Pad #2											
Site Position:						Northing:			14,568,996.67 usft			Latitude:			40.115422		
From:			Lat/Long			Easting:			1,748,042.08 usft			Longitude:			-104.615045		
Position Uncertainty:			0.00 usft			Slot Radius:			13.200 in			Grid Convergence:			0.25		

Well	CC OPEN A 15N-25HZ					
Well Position	+N/-S	-1.09 usft	Northing:	14,568,995.96 usft	Latitude:	40.115419
	+E/-W	90.03 usft	Easting:	1,748,132.11 usft	Longitude:	-104.614723
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	4,895.00 usft

Wellbore	PLAN A				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/7/2015	8.28	66.72	52,622

Design	PERMIT REV-2			
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	180.00

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	
1,049.99	12.00	57.76	1,044.15	44.53	70.60	1.50	1.50	0.00	57.76	
5,576.12	12.00	57.76	5,471.38	546.60	866.49	0.00	0.00	0.00	0.00	
6,176.12	0.00	0.00	6,067.00	580.00	919.44	2.00	-2.00	0.00	180.00	
6,598.17	0.00	0.00	6,489.05	580.00	919.44	0.00	0.00	0.00	0.00	
7,496.14	89.80	180.00	7,062.00	9.07	919.44	10.00	10.00	20.05	180.00	
12,295.28	89.80	180.00	7,079.00	-4,790.04	919.44	0.00	0.00	0.00	0.00	PBHL_CC OPEN AIR

Database:	Denver Sales	Local Co-ordinate Reference:	Well CC OPEN A 15N-25HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4895 & KB 17 @ 4912.00usft (ASSUMED)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4895 & KB 17 @ 4912.00usft (ASSUMED)
Site:	2N-65W-25 CC Open A Pad #2	North Reference:	True
Well:	CC OPEN A 15N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	PLAN A		
Design:	PERMIT REV-2		

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
Start Build 1.50									
300.00	0.75	57.76	300.00	0.17	0.28	-0.17	1.50	1.50	0.00
400.00	2.25	57.76	399.96	1.57	2.49	-1.57	1.50	1.50	0.00
500.00	3.75	57.76	499.82	4.36	6.92	-4.36	1.50	1.50	0.00
600.00	5.25	57.76	599.51	8.55	13.55	-8.55	1.50	1.50	0.00
700.00	6.75	57.76	698.96	14.13	22.39	-14.13	1.50	1.50	0.00
800.00	8.25	57.76	798.10	21.09	33.43	-21.09	1.50	1.50	0.00
900.00	9.75	57.76	896.87	29.44	46.66	-29.44	1.50	1.50	0.00
1,000.00	11.25	57.76	995.19	39.16	62.08	-39.16	1.50	1.50	0.00
1,049.99	12.00	57.76	1,044.15	44.53	70.60	-44.53	1.50	1.50	0.00
Start 4526.14 hold at 1049.99 MD									
1,100.00	12.00	57.76	1,093.07	50.08	79.39	-50.08	0.00	0.00	0.00
1,200.00	12.00	57.76	1,190.89	61.17	96.97	-61.17	0.00	0.00	0.00
1,300.00	12.00	57.76	1,288.70	72.27	114.56	-72.27	0.00	0.00	0.00
1,400.00	12.00	57.76	1,386.52	83.36	132.14	-83.36	0.00	0.00	0.00
1,500.00	12.00	57.76	1,484.33	94.45	149.73	-94.45	0.00	0.00	0.00
1,600.00	12.00	57.76	1,582.15	105.54	167.31	-105.54	0.00	0.00	0.00
1,700.00	12.00	57.76	1,679.96	116.64	184.90	-116.64	0.00	0.00	0.00
1,800.00	12.00	57.76	1,777.78	127.73	202.48	-127.73	0.00	0.00	0.00
1,822.72	12.00	57.76	1,800.00	130.25	206.48	-130.25	0.00	0.00	0.00
9 5/8"									
1,900.00	12.00	57.76	1,875.59	138.82	220.07	-138.82	0.00	0.00	0.00
2,000.00	12.00	57.76	1,973.40	149.91	237.65	-149.91	0.00	0.00	0.00
2,100.00	12.00	57.76	2,071.22	161.01	255.23	-161.01	0.00	0.00	0.00
2,200.00	12.00	57.76	2,169.03	172.10	272.82	-172.10	0.00	0.00	0.00
2,300.00	12.00	57.76	2,266.85	183.19	290.40	-183.19	0.00	0.00	0.00
2,400.00	12.00	57.76	2,364.66	194.28	307.99	-194.28	0.00	0.00	0.00
2,500.00	12.00	57.76	2,462.48	205.38	325.57	-205.38	0.00	0.00	0.00
2,600.00	12.00	57.76	2,560.29	216.47	343.16	-216.47	0.00	0.00	0.00
2,700.00	12.00	57.76	2,658.11	227.56	360.74	-227.56	0.00	0.00	0.00
2,800.00	12.00	57.76	2,755.92	238.66	378.33	-238.66	0.00	0.00	0.00
2,900.00	12.00	57.76	2,853.74	249.75	395.91	-249.75	0.00	0.00	0.00
3,000.00	12.00	57.76	2,951.55	260.84	413.50	-260.84	0.00	0.00	0.00
3,100.00	12.00	57.76	3,049.37	271.93	431.08	-271.93	0.00	0.00	0.00
3,200.00	12.00	57.76	3,147.18	283.03	448.66	-283.03	0.00	0.00	0.00
3,300.00	12.00	57.76	3,245.00	294.12	466.25	-294.12	0.00	0.00	0.00
3,400.00	12.00	57.76	3,342.81	305.21	483.83	-305.21	0.00	0.00	0.00
3,500.00	12.00	57.76	3,440.63	316.30	501.42	-316.30	0.00	0.00	0.00
3,600.00	12.00	57.76	3,538.44	327.40	519.00	-327.40	0.00	0.00	0.00
3,700.00	12.00	57.76	3,636.26	338.49	536.59	-338.49	0.00	0.00	0.00
3,800.00	12.00	57.76	3,734.07	349.58	554.17	-349.58	0.00	0.00	0.00
3,900.00	12.00	57.76	3,831.89	360.67	571.76	-360.67	0.00	0.00	0.00
4,000.00	12.00	57.76	3,929.70	371.77	589.34	-371.77	0.00	0.00	0.00
4,100.00	12.00	57.76	4,027.52	382.86	606.92	-382.86	0.00	0.00	0.00
4,200.00	12.00	57.76	4,125.33	393.95	624.51	-393.95	0.00	0.00	0.00
4,300.00	12.00	57.76	4,223.15	405.04	642.09	-405.04	0.00	0.00	0.00
4,400.00	12.00	57.76	4,320.96	416.14	659.68	-416.14	0.00	0.00	0.00
4,500.00	12.00	57.76	4,418.78	427.23	677.26	-427.23	0.00	0.00	0.00

Database:	Denver Sales	Local Co-ordinate Reference:	Well CC OPEN A 15N-25HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4895 & KB 17 @ 4912.00usft (ASSUMED)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4895 & KB 17 @ 4912.00usft (ASSUMED)
Site:	2N-65W-25 CC Open A Pad #2	North Reference:	True
Well:	CC OPEN A 15N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	PLAN A		
Design:	PERMIT REV-2		

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)
4,600.00	12.00	57.76	4,516.59	438.32	694.85	-438.32	0.00	0.00	0.00
4,700.00	12.00	57.76	4,614.41	449.42	712.43	-449.42	0.00	0.00	0.00
4,800.00	12.00	57.76	4,712.22	460.51	730.02	-460.51	0.00	0.00	0.00
4,900.00	12.00	57.76	4,810.03	471.60	747.60	-471.60	0.00	0.00	0.00
5,000.00	12.00	57.76	4,907.85	482.69	765.19	-482.69	0.00	0.00	0.00
5,005.27	12.00	57.76	4,913.00	483.28	766.11	-483.28	0.00	0.00	0.00
Sussex									
5,100.00	12.00	57.76	5,005.66	493.79	782.77	-493.79	0.00	0.00	0.00
5,200.00	12.00	57.76	5,103.48	504.88	800.35	-504.88	0.00	0.00	0.00
5,300.00	12.00	57.76	5,201.29	515.97	817.94	-515.97	0.00	0.00	0.00
5,400.00	12.00	57.76	5,299.11	527.06	835.52	-527.06	0.00	0.00	0.00
5,500.00	12.00	57.76	5,396.92	538.16	853.11	-538.16	0.00	0.00	0.00
5,576.12	12.00	57.76	5,471.38	546.60	866.49	-546.60	0.00	0.00	0.00
Start Drop -2.00									
5,600.00	11.52	57.76	5,494.76	549.20	870.61	-549.20	2.00	-2.00	0.00
5,700.00	9.52	57.76	5,593.07	558.94	886.05	-558.94	2.00	-2.00	0.00
5,800.00	7.52	57.76	5,691.96	566.85	898.59	-566.85	2.00	-2.00	0.00
5,900.00	5.52	57.76	5,791.31	572.91	908.20	-572.91	2.00	-2.00	0.00
6,000.00	3.52	57.76	5,890.99	577.11	914.86	-577.11	2.00	-2.00	0.00
6,100.00	1.52	57.76	5,990.89	579.46	918.59	-579.46	2.00	-2.00	0.00
6,176.12	0.00	0.00	6,067.00	580.00	919.44	-580.00	2.00	-2.00	0.00
Start 422.05 hold at 6176.12 MD									
6,200.00	0.00	0.00	6,090.88	580.00	919.44	-580.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,190.88	580.00	919.44	-580.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,290.88	580.00	919.44	-580.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,390.88	580.00	919.44	-580.00	0.00	0.00	0.00
6,598.17	0.00	0.00	6,489.05	580.00	919.44	-580.00	0.00	0.00	0.00
Start DLS 10.00 TFO 180.00									
6,600.00	0.18	180.00	6,490.88	580.00	919.44	-580.00	10.00	10.00	0.00
6,700.00	10.18	180.00	6,590.35	570.97	919.44	-570.97	10.00	10.00	0.00
6,800.00	20.18	180.00	6,686.73	544.82	919.44	-544.82	10.00	10.00	0.00
6,900.00	30.18	180.00	6,777.12	502.32	919.44	-502.32	10.00	10.00	0.00
6,924.47	32.63	180.00	6,798.00	489.57	919.44	-489.57	10.00	10.00	0.00
Sharon Springs									
6,993.82	39.57	180.00	6,854.00	448.73	919.44	-448.73	10.00	10.00	0.00
Niobrara Top									
7,000.00	40.18	180.00	6,858.74	444.77	919.44	-444.77	10.00	10.00	0.00
7,084.42	48.63	180.00	6,919.00	385.76	919.44	-385.76	10.00	10.00	0.00
Niobrara B Bench									
7,100.00	50.18	180.00	6,929.14	373.93	919.44	-373.93	10.00	10.00	0.00
7,200.00	60.18	180.00	6,986.16	291.93	919.44	-291.93	10.00	10.00	0.00
7,300.00	70.18	180.00	7,028.08	201.28	919.44	-201.28	10.00	10.00	0.00
7,400.00	80.18	180.00	7,053.62	104.73	919.44	-104.73	10.00	10.00	0.00
7,496.14	89.80	180.00	7,062.00	9.07	919.44	-9.07	10.00	10.00	0.00
Start 4799.14 hold at 7496.14 MD - 7"(465 FNL 2422 FEL)									
7,500.00	89.80	180.00	7,062.02	5.21	919.44	-5.21	0.00	0.00	0.00
7,600.00	89.80	180.00	7,062.37	-94.79	919.44	94.79	0.00	0.00	0.00
7,700.00	89.80	180.00	7,062.73	-194.79	919.44	194.79	0.00	0.00	0.00
7,800.00	89.80	180.00	7,063.08	-294.79	919.44	294.79	0.00	0.00	0.00
7,900.00	89.80	180.00	7,063.43	-394.79	919.44	394.79	0.00	0.00	0.00
8,000.00	89.80	180.00	7,063.79	-494.79	919.44	494.79	0.00	0.00	0.00

Database:	Denver Sales	Local Co-ordinate Reference:	Well CC OPEN A 15N-25HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4895 & KB 17 @ 4912.00usft (ASSUMED)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4895 & KB 17 @ 4912.00usft (ASSUMED)
Site:	2N-65W-25 CC Open A Pad #2	North Reference:	True
Well:	CC OPEN A 15N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	PLAN A		
Design:	PERMIT REV-2		

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)
8,100.00	89.80	180.00	7,064.14	-594.79	919.44	594.79	0.00	0.00	0.00
8,200.00	89.80	180.00	7,064.50	-694.79	919.44	694.79	0.00	0.00	0.00
8,300.00	89.80	180.00	7,064.85	-794.79	919.44	794.79	0.00	0.00	0.00
8,400.00	89.80	180.00	7,065.21	-894.79	919.44	894.79	0.00	0.00	0.00
8,500.00	89.80	180.00	7,065.56	-994.78	919.44	994.78	0.00	0.00	0.00
8,600.00	89.80	180.00	7,065.91	-1,094.78	919.44	1,094.78	0.00	0.00	0.00
8,700.00	89.80	180.00	7,066.27	-1,194.78	919.44	1,194.78	0.00	0.00	0.00
8,800.00	89.80	180.00	7,066.62	-1,294.78	919.44	1,294.78	0.00	0.00	0.00
8,900.00	89.80	180.00	7,066.98	-1,394.78	919.44	1,394.78	0.00	0.00	0.00
9,000.00	89.80	180.00	7,067.33	-1,494.78	919.44	1,494.78	0.00	0.00	0.00
9,100.00	89.80	180.00	7,067.68	-1,594.78	919.44	1,594.78	0.00	0.00	0.00
9,200.00	89.80	180.00	7,068.04	-1,694.78	919.44	1,694.78	0.00	0.00	0.00
9,300.00	89.80	180.00	7,068.39	-1,794.78	919.44	1,794.78	0.00	0.00	0.00
9,400.00	89.80	180.00	7,068.75	-1,894.78	919.44	1,894.78	0.00	0.00	0.00
9,500.00	89.80	180.00	7,069.10	-1,994.78	919.44	1,994.78	0.00	0.00	0.00
9,600.00	89.80	180.00	7,069.46	-2,094.78	919.44	2,094.78	0.00	0.00	0.00
9,700.00	89.80	180.00	7,069.81	-2,194.78	919.44	2,194.78	0.00	0.00	0.00
9,800.00	89.80	180.00	7,070.16	-2,294.78	919.44	2,294.78	0.00	0.00	0.00
9,900.00	89.80	180.00	7,070.52	-2,394.78	919.44	2,394.78	0.00	0.00	0.00
10,000.00	89.80	180.00	7,070.87	-2,494.78	919.44	2,494.78	0.00	0.00	0.00
10,100.00	89.80	180.00	7,071.23	-2,594.77	919.44	2,594.77	0.00	0.00	0.00
10,200.00	89.80	180.00	7,071.58	-2,694.77	919.44	2,694.77	0.00	0.00	0.00
10,300.00	89.80	180.00	7,071.93	-2,794.77	919.44	2,794.77	0.00	0.00	0.00
10,400.00	89.80	180.00	7,072.29	-2,894.77	919.44	2,894.77	0.00	0.00	0.00
10,500.00	89.80	180.00	7,072.64	-2,994.77	919.44	2,994.77	0.00	0.00	0.00
10,600.00	89.80	180.00	7,073.00	-3,094.77	919.44	3,094.77	0.00	0.00	0.00
10,700.00	89.80	180.00	7,073.35	-3,194.77	919.44	3,194.77	0.00	0.00	0.00
10,800.00	89.80	180.00	7,073.70	-3,294.77	919.44	3,294.77	0.00	0.00	0.00
10,900.00	89.80	180.00	7,074.06	-3,394.77	919.44	3,394.77	0.00	0.00	0.00
11,000.00	89.80	180.00	7,074.41	-3,494.77	919.44	3,494.77	0.00	0.00	0.00
11,100.00	89.80	180.00	7,074.77	-3,594.77	919.44	3,594.77	0.00	0.00	0.00
11,200.00	89.80	180.00	7,075.12	-3,694.77	919.44	3,694.77	0.00	0.00	0.00
11,300.00	89.80	180.00	7,075.48	-3,794.77	919.44	3,794.77	0.00	0.00	0.00
11,400.00	89.80	180.00	7,075.83	-3,894.77	919.44	3,894.77	0.00	0.00	0.00
11,500.00	89.80	180.00	7,076.18	-3,994.77	919.44	3,994.77	0.00	0.00	0.00
11,600.00	89.80	180.00	7,076.54	-4,094.77	919.44	4,094.77	0.00	0.00	0.00
11,700.00	89.80	180.00	7,076.89	-4,194.76	919.44	4,194.76	0.00	0.00	0.00
11,800.00	89.80	180.00	7,077.25	-4,294.76	919.44	4,294.76	0.00	0.00	0.00
11,900.00	89.80	180.00	7,077.60	-4,394.76	919.44	4,394.76	0.00	0.00	0.00
12,000.00	89.80	180.00	7,077.95	-4,494.76	919.44	4,494.76	0.00	0.00	0.00
12,100.00	89.80	180.00	7,078.31	-4,594.76	919.44	4,594.76	0.00	0.00	0.00
12,200.00	89.80	180.00	7,078.66	-4,694.76	919.44	4,694.76	0.00	0.00	0.00
12,295.28	89.80	180.00	7,079.00	-4,790.04	919.44	4,790.04	0.00	0.00	0.00
TD at 12295.28 - PBHL_CC OPEN AIR 15N-25HZ(50 FSL 2461 FEL)									

Database:	Denver Sales	Local Co-ordinate Reference:	Well CC OPEN A 15N-25HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4895 & KB 17 @ 4912.00usft (ASSUMED)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4895 & KB 17 @ 4912.00usft (ASSUMED)
Site:	2N-65W-25 CC Open A Pad #2	North Reference:	True
Well:	CC OPEN A 15N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	PLAN A		
Design:	PERMIT REV-2		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_CC OPEN AIR 15 - plan hits target center - Point	0.00	0.00	7,079.00	-4,790.04	919.44	14,564,209.95	1,749,072.30	40.102265	-104.611435

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,822.72	1,800.00	9 5/8"	9.625	13.500	
7,496.14	7,062.00	7"(465 FNL 2422 FEL)	7.000	8.750	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,005.27	4,913.00	Sussex			
6,924.47	6,798.00	Sharon Springs			
6,993.82	6,854.00	Niobrara Top			
7,084.42	6,919.00	Niobrara B Bench			

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
250.00	250.00	0.00	0.00	Start Build 1.50	
1,049.99	1,044.15	44.53	70.60	Start 4526.14 hold at 1049.99 MD	
5,576.12	5,471.38	546.60	866.49	Start Drop -2.00	
6,176.12	6,067.00	580.00	919.44	Start 422.05 hold at 6176.12 MD	
6,598.17	6,489.05	580.00	919.44	Start DLS 10.00 TFO 180.00	
7,496.14	7,062.00	9.07	919.44	Start 4799.14 hold at 7496.14 MD	
12,295.28	7,079.00	-4,790.04	919.44	TD at 12295.28	