



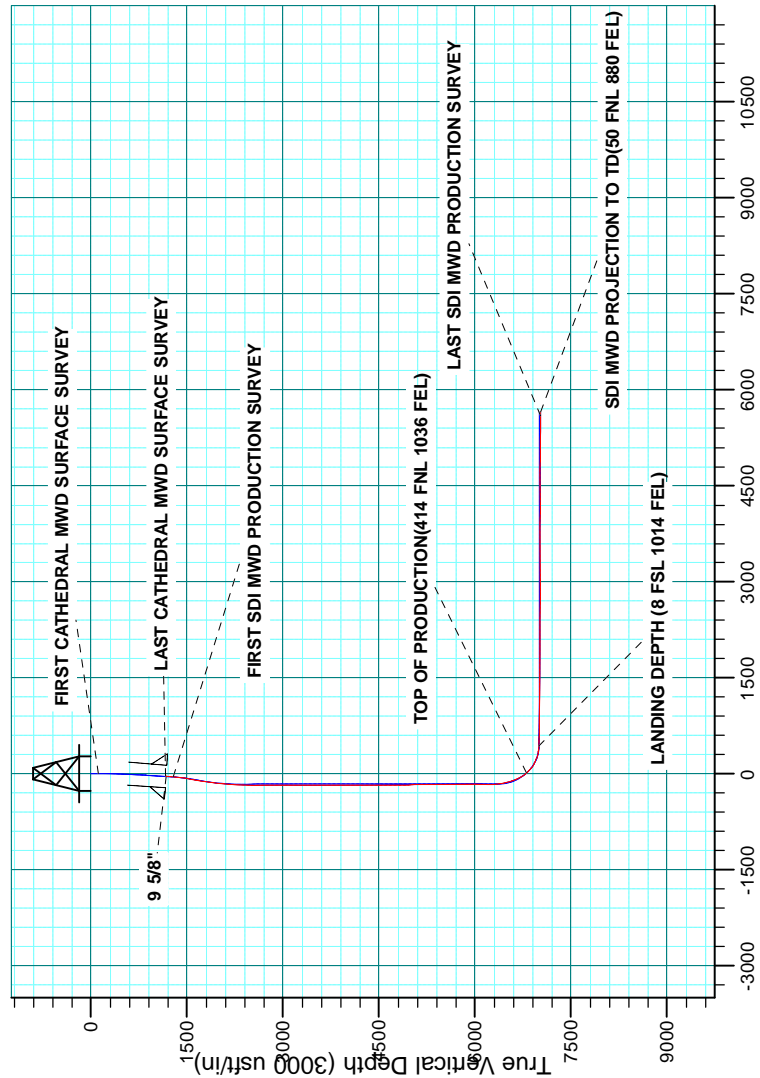
Project: WELD-NAD83-UTMFT13N
Site: 3N-65W-28 Cheese 1-28HZ Pad
Well: Cheese State 1N-21HZ
Wellbore: Plan A
Design: Plan A



WELL DETAILS: Cheese State 1N-21HZ				
GL 4818 & KB 25 @ 4842.99usft (HP 307)				
+N/-S 0.00	+E/-W 0.00	Northing 14600657.32	Easting 1734714.18	Latitude 40.202513 Longitude -104.662285

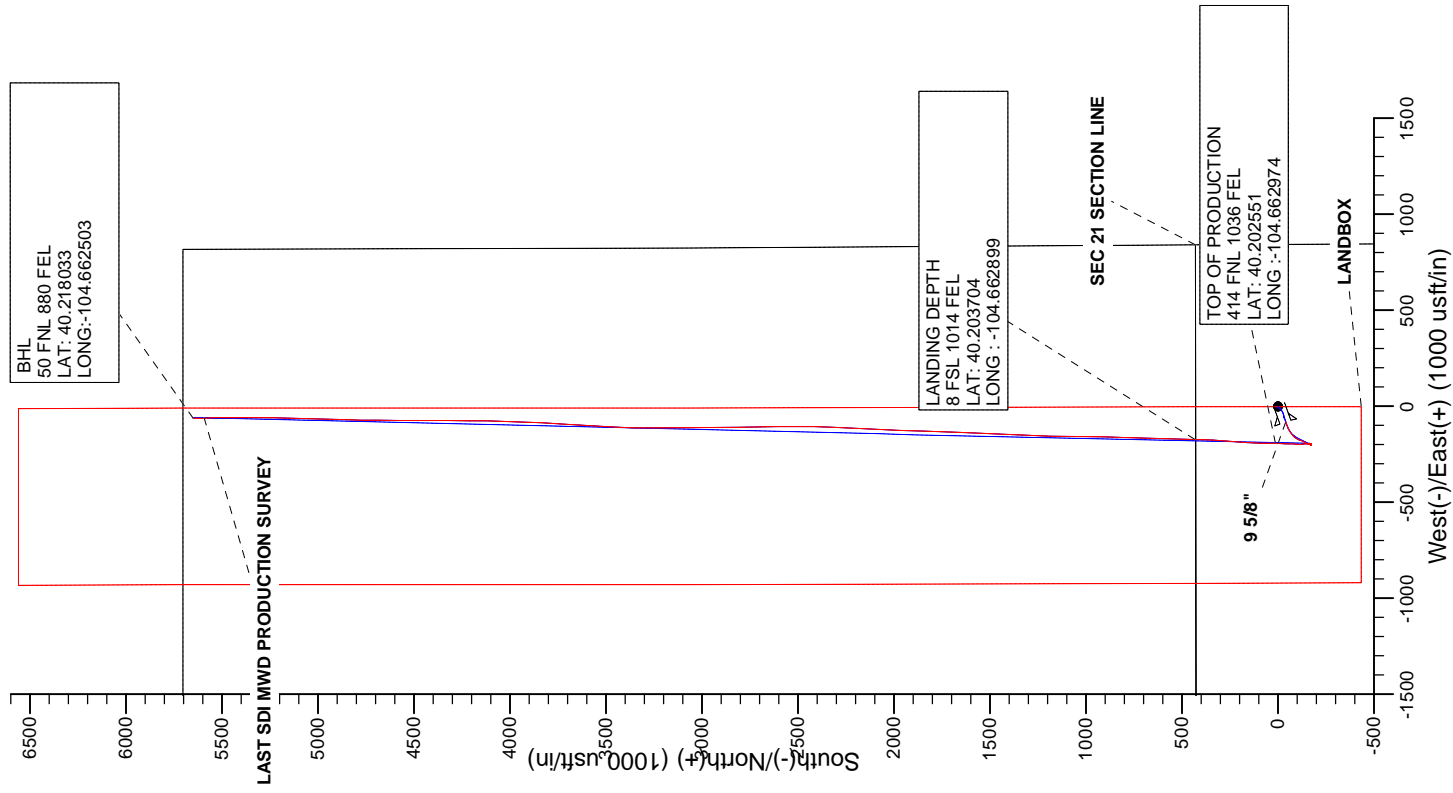
PROJECT DETAILS: WELD-NAD83-UTMFT13N	
Geodetic System: Universal Transverse Mercator (US Survey Feet)	
Datum: North American Datum 1983	
Ellipsoid: GRS 1980	
Zone: Zone 13N (108 W to 102 W)	
Location: SECTION 28 T3N R65W	
System Datum: Mean Sea Level	

CASING DETAILS		
TVD	MD	Name
1176.71	1183.00	9 5/8" 9.625



Vertical Section at 0.84° (3000 usft/in)

Survey: Survey #2 SDI MWD PRODUCTION (Cheese State 1N-21HZ/Plan A)
Created By: R.Scott Date: 16:38, May 20 2015



LAST SDI MWD PRODUCTION SURVEY

Company:	US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference:	Well Cheese State 1N-21HZ
Project:	WELD-NAD83-UTMFT13N	TVD Reference:	GL 4818 & KB 25 @ 4842.99usft (HP 307)
Site:	3N-65W-28 Cheese 1-28HZ Pad	MD Reference:	GL 4818 & KB 25 @ 4842.99usft (HP 307)
Well:	Cheese State 1N-21HZ	North Reference:	True
Wellbore:	Plan A	Survey Calculation Method:	Minimum Curvature
Design:	Plan A	Database:	Denver Sales

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-65W-28 Cheese 1-28HZ Pad, SECTION 28 T3N R65W				
Site Position:		Northing:	14,600,657.57	usft	Latitude:	40.202514
From:	Lat/Long	Easting:	1,734,684.02	usft	Longitude:	-104.662393
Position Uncertainty:		0.00	usft	Slot Radius:	13.200	in
					Grid Convergence:	0.22 °

Well							Cheese State 1N-21HZ, 428' FNL 845' FEL						
Well Position		+N/-S	0.00 usft	Northing:		14,600,657.32 usft	Latitude:		40.202513				
		+E/-W	0.00 usft	Easting:		1,734,714.18 usft	Longitude:		-104.662285				
Position Uncertainty			0.00 usft	Wellhead Elevation:		0.00 usft	Ground Level:		4,817.99 usft				

Wellbore	Plan A				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/9/2014	8.35	66.79	52,689

Design	Plan A				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	0.84	

Survey Program	Date	5/20/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
20.00	1,168.00	Survey #1 CATHEDRAL MWD SURFACE	APC_ISCWSA REV 2 MWD	Fixed:v2:standard declination	
1,297.00	12,564.00	Survey #2 SDI MWD PRODUCTION (Plan	APC_ISCWSA REV 2 MWD+	Fixed:v2:crustal field declination	

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	
20.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	
103.00	1.20	247.50	102.99	-0.33	-0.80	-0.34	1.45	1.45	0.00	
111.00	1.16	250.12	110.99	-0.39	-0.96	-0.41	0.81	-0.45	32.81	
FIRST CATHEDRAL MWD SURFACE SURVEY										
165.00	1.00	271.90	164.98	-0.56	-1.94	-0.59	0.81	-0.30	40.32	
224.00	0.70	250.20	223.98	-0.67	-2.80	-0.71	0.74	-0.51	-36.78	
282.00	0.70	233.70	281.97	-1.00	-3.42	-1.05	0.35	0.00	-28.45	
343.00	1.10	219.80	342.96	-1.67	-4.09	-1.73	0.74	0.66	-22.79	
407.00	1.60	216.90	406.95	-2.85	-5.02	-2.93	0.79	0.78	-4.53	

Company:	US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference:	Well Cheese State 1N-21HZ
Project:	WELD-NAD83-UTMFT13N	TVD Reference:	GL 4818 & KB 25 @ 4842.99usft (HP 307)
Site:	3N-65W-28 Cheese 1-28HZ Pad	MD Reference:	GL 4818 & KB 25 @ 4842.99usft (HP 307)
Well:	Cheese State 1N-21HZ	North Reference:	True
Wellbore:	Plan A	Survey Calculation Method:	Minimum Curvature
Design:	Plan A	Database:	Denver Sales

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)	
471.00	2.10	217.00	470.91	-4.51	-6.26	-4.60	0.78	0.78	0.16	
534.00	2.70	218.40	533.86	-6.59	-7.88	-6.71	0.96	0.95	2.22	
598.00	3.60	225.00	597.76	-9.19	-10.24	-9.34	1.51	1.41	10.31	
663.00	4.40	229.30	662.60	-12.26	-13.57	-12.46	1.31	1.23	6.62	
727.00	5.30	237.40	726.37	-15.46	-17.92	-15.72	1.76	1.41	12.66	
791.00	6.10	239.60	790.06	-18.77	-23.34	-19.11	1.30	1.25	3.44	
855.00	6.80	244.10	853.65	-22.14	-29.69	-22.58	1.35	1.09	7.03	
919.00	8.00	250.70	917.12	-25.27	-37.30	-25.82	2.29	1.88	10.31	
983.00	9.60	252.50	980.36	-28.35	-46.59	-29.03	2.54	2.50	2.81	
1,047.00	10.70	253.40	1,043.36	-31.65	-57.38	-32.49	1.74	1.72	1.41	
1,110.00	11.30	252.20	1,105.20	-35.21	-68.86	-36.21	1.02	0.95	-1.90	
1,168.00	11.80	251.10	1,162.03	-38.87	-79.88	-40.03	0.94	0.86	-1.90	
LAST CATHEDRAL MWD SURFACE SURVEY										
1,183.00	11.84	250.74	1,176.71	-39.87	-82.78	-41.08	0.57	0.28	-2.41	
9 5/8"										
1,297.00	12.17	248.07	1,288.22	-48.22	-104.97	-49.75	0.57	0.29	-2.34	
FIRST SDI MWD PRODUCTION SURVEY										
1,391.00	13.16	241.13	1,379.93	-57.09	-123.53	-58.89	1.93	1.05	-7.38	
1,486.00	12.49	233.37	1,472.57	-68.44	-141.25	-70.50	1.94	-0.71	-8.17	
1,580.00	12.26	222.12	1,564.40	-81.91	-156.10	-84.19	2.57	-0.24	-11.97	
1,675.00	10.53	210.77	1,657.54	-96.85	-167.31	-99.29	2.97	-1.82	-11.95	
1,769.00	8.48	201.42	1,750.25	-110.68	-174.24	-113.23	2.72	-2.18	-9.95	
1,864.00	8.40	204.75	1,844.22	-123.51	-179.70	-126.13	0.52	-0.08	3.51	
1,958.00	8.00	206.93	1,937.26	-135.57	-185.54	-138.28	0.54	-0.43	2.32	
2,052.00	7.92	206.27	2,030.35	-147.21	-191.37	-150.00	0.13	-0.09	-0.70	
2,146.00	5.84	202.03	2,123.67	-157.45	-196.03	-160.31	2.28	-2.21	-4.51	
2,241.00	4.01	201.34	2,218.31	-165.03	-199.05	-167.93	1.93	-1.93	-0.73	
2,335.00	1.31	177.58	2,312.21	-169.16	-200.20	-172.08	3.04	-2.87	-25.28	
2,430.00	1.17	109.05	2,407.19	-170.57	-199.24	-173.47	1.47	-0.15	-72.14	
2,524.00	0.87	98.24	2,501.17	-170.98	-197.62	-173.86	0.38	-0.32	-11.50	
2,619.00	0.45	154.40	2,596.17	-171.42	-196.75	-174.29	0.76	-0.44	59.12	
2,713.00	0.17	342.28	2,690.17	-171.62	-196.63	-174.49	0.66	-0.30	-183.11	
2,808.00	0.24	188.50	2,785.17	-171.68	-196.70	-174.55	0.42	0.07	-161.87	
2,902.00	0.30	230.25	2,879.17	-172.04	-196.92	-174.90	0.21	0.06	44.41	
2,997.00	0.12	178.98	2,974.17	-172.30	-197.11	-175.17	0.26	-0.19	-53.97	
3,091.00	0.10	36.77	3,068.17	-172.33	-197.06	-175.20	0.22	-0.02	-151.29	
3,186.00	0.15	321.75	3,163.17	-172.16	-197.09	-175.03	0.17	0.05	-78.97	
3,280.00	0.44	241.81	3,257.16	-172.24	-197.48	-175.11	0.47	0.31	-85.04	
3,375.00	0.89	275.05	3,352.16	-172.34	-198.54	-175.24	0.61	0.47	34.99	
3,469.00	0.95	272.62	3,446.15	-172.25	-200.05	-175.16	0.08	0.06	-2.59	
3,564.00	0.28	90.97	3,541.14	-172.21	-200.60	-175.14	1.29	-0.71	187.74	
3,658.00	1.07	194.87	3,635.14	-173.07	-200.60	-175.99	1.24	0.84	110.53	
3,753.00	0.48	228.99	3,730.13	-174.18	-201.12	-177.11	0.76	-0.62	35.92	
3,847.00	0.47	256.38	3,824.13	-174.53	-201.80	-177.47	0.24	-0.01	29.14	

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Site:	3N-65W-28 Cheese 1-28HZ Pad	MD Reference:	GL 4818 & KB 25 @ 4842.99usft (HP 307)
Well:	Cheese State 1N-21HZ	North Reference:	True
Wellbore:	Plan A	Survey Calculation Method:	Minimum Curvature
Design:	Plan A	Database:	Denver Sales

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)
3,942.00	0.89	43.74	3,919.12	-174.09	-201.66	-177.03	1.38	0.44	155.12
4,036.00	0.44	79.66	4,013.12	-173.50	-200.80	-176.42	0.63	-0.48	38.21
4,130.00	0.63	61.65	4,107.11	-173.19	-199.99	-176.10	0.27	0.20	-19.16
4,225.00	0.65	62.11	4,202.11	-172.69	-199.06	-175.59	0.02	0.02	0.48
4,319.00	0.69	71.86	4,296.10	-172.26	-198.05	-175.15	0.13	0.04	10.37
4,414.00	0.38	96.22	4,391.10	-172.12	-197.19	-174.99	0.40	-0.33	25.64
4,508.00	0.32	75.00	4,485.09	-172.09	-196.63	-174.95	0.15	-0.06	-22.57
4,602.00	0.30	84.46	4,579.09	-171.99	-196.13	-174.85	0.06	-0.02	10.06
4,791.00	0.19	252.64	4,768.09	-172.04	-195.94	-174.89	0.26	-0.06	88.98
4,886.00	1.08	269.74	4,863.08	-172.09	-196.98	-174.96	0.95	0.94	18.00
4,980.00	1.21	314.00	4,957.07	-171.40	-198.58	-174.30	0.93	0.14	47.09
5,075.00	1.25	317.99	5,052.05	-169.94	-200.00	-172.85	0.10	0.04	4.20
5,169.00	0.99	31.17	5,146.03	-168.48	-200.26	-171.40	1.44	-0.28	77.85
5,264.00	0.75	19.20	5,241.02	-167.19	-199.63	-170.10	0.32	-0.25	-12.60
5,358.00	0.86	0.38	5,335.01	-165.91	-199.43	-168.81	0.30	0.12	-20.02
5,453.00	0.46	4.70	5,430.01	-164.81	-199.39	-167.72	0.42	-0.42	4.55
5,547.00	0.51	348.02	5,524.00	-164.03	-199.45	-166.93	0.16	0.05	-17.74
5,642.00	0.72	6.05	5,619.00	-163.02	-199.47	-165.93	0.30	0.22	18.98
5,737.00	1.80	354.06	5,713.97	-160.94	-199.56	-163.85	1.16	1.14	-12.62
5,831.00	1.28	72.37	5,807.95	-159.16	-198.72	-162.05	2.11	-0.55	83.31
5,926.00	0.70	210.10	5,902.94	-159.34	-198.00	-162.22	1.96	-0.61	144.98
6,020.00	0.69	129.77	5,996.93	-160.20	-197.85	-163.08	0.95	-0.01	-85.46
6,115.00	1.40	109.61	6,091.92	-160.95	-196.32	-163.81	0.83	0.75	-21.22
6,209.00	1.71	110.98	6,185.88	-161.84	-193.92	-164.66	0.33	0.33	1.46
6,304.00	1.56	273.88	6,280.87	-162.26	-193.89	-165.08	3.40	-0.16	171.47
6,398.00	6.86	353.18	6,374.62	-156.59	-195.84	-159.45	7.18	5.64	84.36
6,493.00	13.64	359.12	6,468.06	-139.74	-196.68	-142.61	7.21	7.14	6.25
6,587.00	17.21	359.25	6,558.66	-114.74	-197.04	-117.62	3.80	3.80	0.14
6,682.00	23.66	3.20	6,647.63	-81.62	-196.15	-84.49	6.94	6.79	4.16
6,776.00	31.28	1.89	6,730.98	-38.33	-194.29	-41.18	8.13	8.11	-1.39
6,865.00	40.70	2.67	6,802.90	13.87	-192.18	11.05	10.60	10.59	0.87
TOP OF PRODUCTION(414 FNL 1036 FEL)									
6,871.00	41.34	2.71	6,807.43	17.80	-191.99	14.98	10.60	10.59	0.69
6,965.00	50.65	0.44	6,872.67	85.31	-190.24	82.51	10.05	9.90	-2.41
7,060.00	59.58	2.18	6,926.95	163.13	-188.40	160.35	9.52	9.40	1.83
7,154.00	71.07	4.76	6,966.13	248.23	-183.15	245.52	12.47	12.22	2.74
7,249.00	81.91	4.44	6,988.29	340.17	-175.76	337.56	11.42	11.41	-0.34
7,343.00	88.15	1.03	6,996.43	433.65	-171.30	431.09	7.56	6.64	-3.63
LANDING DEPTH (8 FSL 1014 FEL)									
7,438.00	89.13	0.62	6,998.69	528.61	-169.94	526.06	1.12	1.03	-0.43
7,532.00	88.02	3.05	7,001.03	622.53	-166.93	620.01	2.84	-1.18	2.59
7,627.00	88.93	1.87	7,003.55	717.40	-162.85	714.94	1.57	0.96	-1.24
7,721.00	90.37	1.57	7,004.13	811.35	-160.03	808.92	1.56	1.53	-0.32

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Well:	Cheese State 1N-21HZ	North Reference:	True
Wellbore:	Plan A	Survey Calculation Method:	Minimum Curvature
Design:	Plan A	Database:	Denver Sales

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)	
7,816.00	88.79	0.97	7,004.82	906.33	-157.92	903.91	1.78	-1.66	-0.63	
7,911.00	88.49	0.75	7,007.08	1,001.29	-156.50	998.89	0.39	-0.32	-0.23	
8,005.00	89.73	0.31	7,008.54	1,095.27	-155.63	1,092.87	1.40	1.32	-0.47	
8,099.00	89.90	0.61	7,008.84	1,189.27	-154.88	1,186.87	0.37	0.18	0.32	
8,194.00	89.36	2.91	7,009.46	1,284.21	-151.96	1,281.85	2.49	-0.57	2.42	
8,288.00	90.90	3.16	7,009.24	1,378.08	-146.98	1,375.78	1.66	1.64	0.27	
8,383.00	89.26	1.53	7,009.11	1,472.99	-143.09	1,470.74	2.43	-1.73	-1.72	
8,477.00	88.22	2.65	7,011.18	1,566.90	-139.67	1,564.69	1.63	-1.11	1.19	
8,572.00	89.87	1.17	7,012.76	1,661.83	-136.50	1,659.65	2.33	1.74	-1.56	
8,666.00	90.03	2.47	7,012.84	1,755.78	-133.52	1,753.64	1.39	0.17	1.38	
8,761.00	89.06	2.63	7,013.60	1,850.68	-129.29	1,848.59	1.03	-1.02	0.17	
8,855.00	90.23	1.73	7,014.18	1,944.61	-125.71	1,942.56	1.57	1.24	-0.96	
8,950.00	88.96	2.33	7,014.85	2,039.55	-122.35	2,037.53	1.48	-1.34	0.63	
9,044.00	89.70	3.86	7,015.95	2,133.40	-117.28	2,131.45	1.81	0.79	1.63	
9,139.00	89.76	2.23	7,016.40	2,228.26	-112.23	2,226.38	1.72	0.06	-1.72	
9,233.00	90.84	2.31	7,015.91	2,322.19	-108.51	2,320.35	1.15	1.15	0.09	
9,328.00	88.79	359.98	7,016.21	2,417.15	-106.61	2,415.33	3.27	-2.16	-2.45	
9,423.00	89.23	0.37	7,017.85	2,512.14	-106.32	2,510.31	0.62	0.46	0.41	
9,517.00	89.83	359.38	7,018.63	2,606.13	-106.52	2,604.29	1.23	0.64	-1.05	
9,612.00	90.87	358.69	7,018.05	2,701.12	-108.12	2,699.24	1.31	1.09	-0.73	
9,706.00	89.90	359.46	7,017.41	2,795.10	-109.64	2,793.19	1.32	-1.03	0.82	
9,801.00	88.76	359.56	7,018.52	2,890.09	-110.45	2,888.16	1.20	-1.20	0.11	
9,895.00	89.46	359.49	7,019.98	2,984.07	-111.23	2,982.12	0.75	0.74	-0.07	
9,989.00	91.71	359.13	7,019.02	3,078.06	-112.36	3,076.08	2.42	2.39	-0.38	
10,084.00	90.74	359.68	7,016.99	3,173.03	-113.35	3,171.03	1.17	-1.02	0.58	
10,178.00	88.86	1.45	7,017.32	3,267.02	-112.42	3,265.02	2.75	-2.00	1.88	
10,273.00	90.03	0.87	7,018.24	3,361.99	-110.50	3,360.01	1.37	1.23	-0.61	
10,368.00	90.30	2.81	7,017.97	3,456.94	-107.45	3,454.99	2.06	0.28	2.04	
10,462.00	89.50	2.90	7,018.13	3,550.82	-102.77	3,548.93	0.86	-0.85	0.10	
10,556.00	90.40	3.25	7,018.21	3,644.68	-97.73	3,642.86	1.03	0.96	0.37	
10,651.00	88.86	3.10	7,018.83	3,739.53	-92.46	3,737.77	1.63	-1.62	-0.16	
10,745.00	90.37	3.74	7,019.46	3,833.36	-86.86	3,831.67	1.74	1.61	0.68	
10,840.00	88.89	1.79	7,020.07	3,928.24	-82.27	3,926.61	2.58	-1.56	-2.05	
10,934.00	89.90	1.82	7,021.07	4,022.19	-79.31	4,020.59	1.07	1.07	0.03	
11,029.00	91.31	1.44	7,020.06	4,117.14	-76.61	4,115.57	1.54	1.48	-0.40	
11,123.00	89.53	0.43	7,019.37	4,211.12	-75.08	4,209.57	2.18	-1.89	-1.07	
11,218.00	90.24	0.92	7,019.56	4,306.11	-73.96	4,304.56	0.91	0.75	0.52	
11,312.00	91.24	359.98	7,018.35	4,400.10	-73.22	4,398.55	1.46	1.06	-1.00	
11,407.00	89.73	359.99	7,017.55	4,495.09	-73.25	4,493.54	1.59	-1.59	0.01	
11,501.00	90.91	359.46	7,017.02	4,589.09	-73.70	4,587.51	1.38	1.26	-0.56	
11,596.00	89.90	1.18	7,016.35	4,684.08	-73.17	4,682.50	2.10	-1.06	1.81	
11,690.00	88.19	1.49	7,017.92	4,778.04	-70.98	4,776.48	1.85	-1.82	0.33	
11,785.00	89.56	0.71	7,019.78	4,873.00	-69.15	4,871.46	1.66	1.44	-0.82	
11,879.00	89.26	1.95	7,020.75	4,966.97	-66.97	4,965.45	1.36	-0.32	1.32	

Company:	US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference:	Well Cheese State 1N-21HZ
Project:	WELD-NAD83-UTMFT13N	TVD Reference:	GL 4818 & KB 25 @ 4842.99usft (HP 307)
Site:	3N-65W-28 Cheese 1-28HZ Pad	MD Reference:	GL 4818 & KB 25 @ 4842.99usft (HP 307)
Well:	Cheese State 1N-21HZ	North Reference:	True
Wellbore:	Plan A	Survey Calculation Method:	Minimum Curvature
Design:	Plan A	Database:	Denver Sales

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)
11,974.00	90.54	2.00	7,020.92	5,061.91	-63.70	5,060.43	1.35	1.35	0.05
12,068.00	89.40	1.30	7,020.96	5,155.87	-60.99	5,154.42	1.42	-1.21	-0.74
12,163.00	90.54	1.18	7,021.01	5,250.84	-58.93	5,249.41	1.21	1.20	-0.13
12,257.00	88.59	0.35	7,021.73	5,344.83	-57.68	5,343.41	2.25	-2.07	-0.88
12,352.00	89.63	359.91	7,023.20	5,439.81	-57.46	5,438.39	1.19	1.09	-0.46
12,446.00	88.79	359.04	7,024.50	5,533.80	-58.33	5,532.35	1.29	-0.89	-0.93
12,507.00	89.73	358.64	7,025.29	5,594.78	-59.56	5,593.30	1.67	1.54	-0.66
LAST SDI MWD PRODUCTION SURVEY									
12,564.00	89.73	358.64	7,025.56	5,651.76	-60.91	5,650.26	0.00	0.00	0.00
SDI MWD PROJECTION TO TD(50 FNL 880 FEL)									

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,183.00	1,176.71	9 5/8"	9.625	13.500

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
111.00	110.99	-0.39	-0.96	FIRST CATHEDRAL MWD SURFACE SURVEY
1,168.00	1,162.03	-38.87	-79.88	LAST CATHEDRAL MWD SURFACE SURVEY
1,297.00	1,288.22	-48.22	-104.97	FIRST SDI MWD PRODUCTION SURVEY
6,865.00	6,802.90	13.87	-192.18	TOP OF PRODUCTION(414 FNL 1036 FEL)
7,343.00	6,996.43	433.65	-171.30	LANDING DEPTH (8 FSL 1014 FEL)
12,507.00	7,025.29	5,594.78	-59.56	LAST SDI MWD PRODUCTION SURVEY
12,564.00	7,025.56	5,651.76	-60.91	SDI MWD PROJECTION TO TD(50 FNL 880 FEL)

Checked By: _____ Approved By: _____ Date: _____