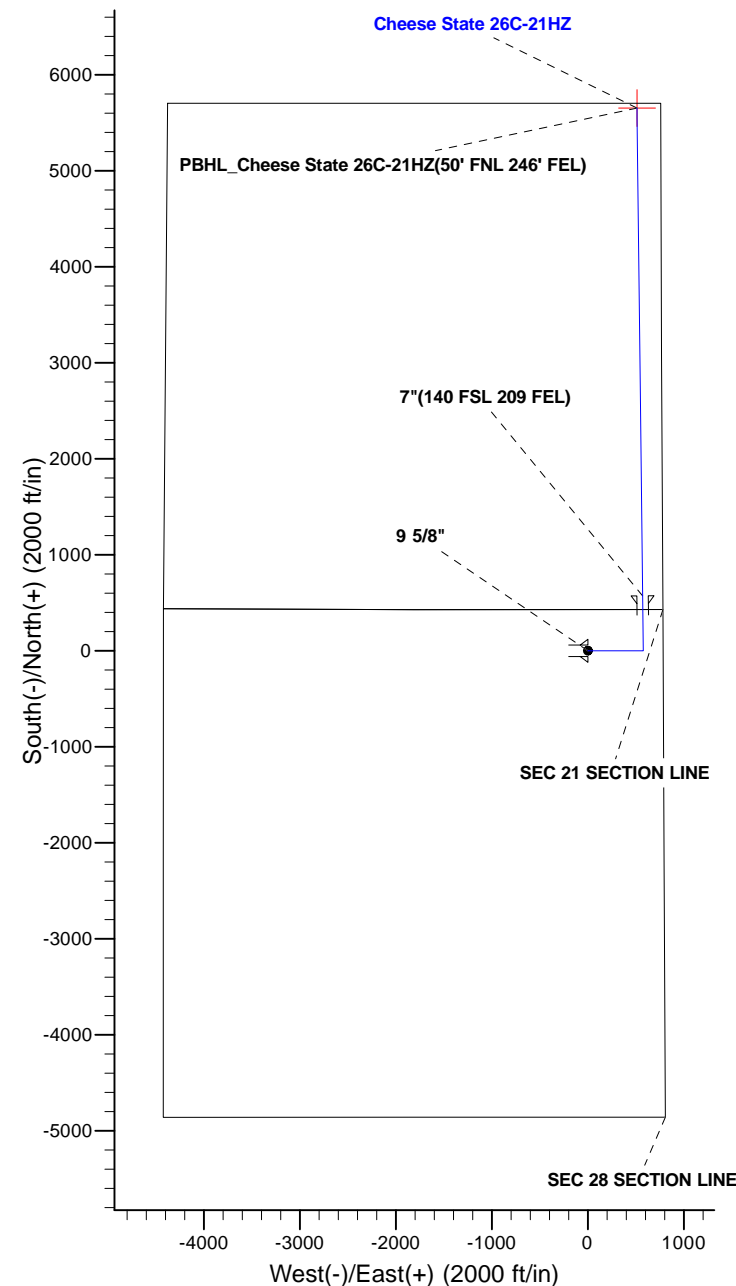
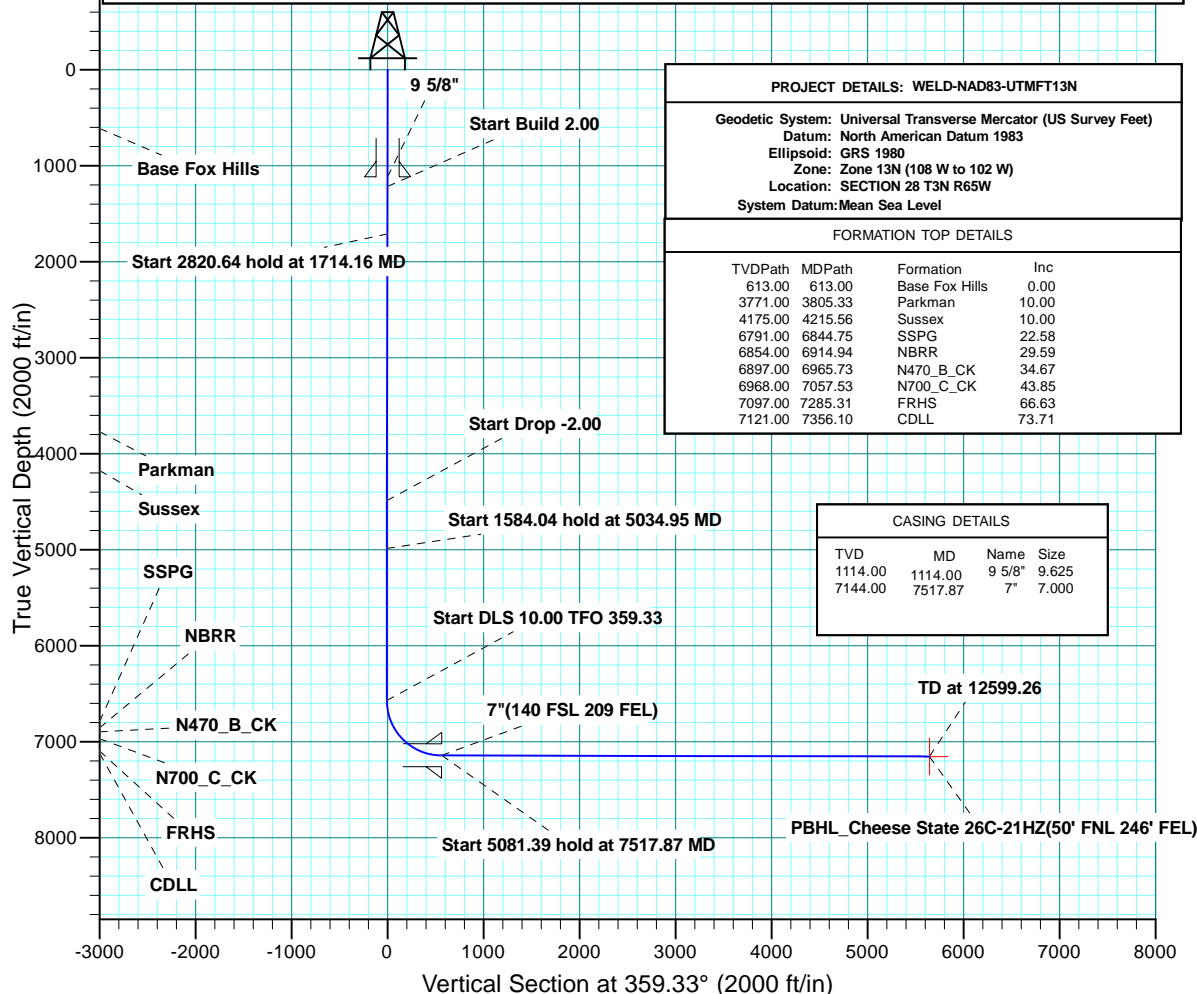


WELL DETAILS: Cheese State 26C-21HZ						
GL 4817 & KB 17 @ 4834.00ft (ASSUMED)						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	14600656.82	1734773.93	40.2025110	-104.6620710	

SECTION DETAILS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1214.00	0.00	0.00	1214.00	0.00	0.00	0.00	0.00	0.00
1714.16	10.00	90.00	1711.62	0.00	43.55	2.00	90.00	-0.51
4534.80	10.00	90.00	4489.38	0.00	533.50	0.00	0.00	-6.24
5034.95	0.00	0.00	4987.00	0.00	577.05	2.00	180.00	-6.75
6618.99	0.00	0.00	6571.04	0.00	577.05	0.00	0.00	-6.75
7517.87	89.89	359.33	7144.00	571.79	570.41	10.00	359.33	565.08
12599.26	89.89	359.33	7154.00	5652.83	511.42	0.00	0.00	5646.47

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL 7154.00	5652.83	511.42	14606311.55	1735263.83	40.2180340	-104.6602390		Point
- plan hits target center								





Scientific Drilling

US ROCKIES WATTENBERG PLANNING

WELD-NAD83-UTMFT13N

Cheese 1-28HZ PAD

Cheese State 26C-21HZ

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

13 October, 2014

Database:	Denver Sales	Local Co-ordinate Reference:	Well Cheese State 26C-21HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4817 & KB 17 @ 4834.00ft (ASSUMED)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4817 & KB 17 @ 4834.00ft (ASSUMED)
Site:	Cheese 1-28HZ PAD	North Reference:	True
Well:	Cheese State 26C-21HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

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	Cheese 1-28HZ PAD, SECTION 28 T3N R65W			
Site Position:		Northing:	14,600,657.57 usft	Latitude: 40.2025140
From:	Lat/Long	Easting:	1,734,684.02 usft	Longitude: -104.6623930
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.22 °

Well	Cheese State 26C-21HZ, 429' FNL 785' FEL			
Well Position	+N/-S	-1.09 ft	Northing:	14,600,656.82 usft
	+E/-W	89.91 ft	Easting:	1,734,773.93 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft
			Ground Level:	4,817.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	10/9/2014	8.44	66.79	52,582

Design	PLAN #1 PRELIMINARY			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	359.33

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	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	
1,214.00	0.00	0.00	1,214.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,714.16	10.00	90.00	1,711.62	0.00	43.55	2.00	2.00	0.00	90.00	
4,534.80	10.00	90.00	4,489.38	0.00	533.50	0.00	0.00	0.00	0.00	
5,034.95	0.00	0.00	4,987.00	0.00	577.05	2.00	-2.00	0.00	180.00	
6,618.99	0.00	0.00	6,571.04	0.00	577.05	0.00	0.00	0.00	0.00	
7,517.87	89.89	359.33	7,144.00	571.79	570.41	10.00	10.00	-0.07	359.33	
12,599.26	89.89	359.33	7,154.00	5,652.83	511.42	0.00	0.00	0.00	0.00	PBHL_Cheese State :

Database:	Denver Sales	Local Co-ordinate Reference:	Well Cheese State 26C-21HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4817 & KB 17 @ 4834.00ft (ASSUMED)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4817 & KB 17 @ 4834.00ft (ASSUMED)
Site:	Cheese 1-28HZ PAD	North Reference:	True
Well:	Cheese State 26C-21HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	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
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
613.00	0.00	0.00	613.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Fox Hills									
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,114.00	0.00	0.00	1,114.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,214.00	0.00	0.00	1,214.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,300.00	1.72	90.00	1,299.99	0.00	1.29	-0.02	2.00	2.00	0.00
1,400.00	3.72	90.00	1,399.87	0.00	6.04	-0.07	2.00	2.00	0.00
1,500.00	5.72	90.00	1,499.53	0.00	14.26	-0.17	2.00	2.00	0.00
1,600.00	7.72	90.00	1,598.83	0.00	25.97	-0.30	2.00	2.00	0.00
1,700.00	9.72	90.00	1,697.67	0.00	41.13	-0.48	2.00	2.00	0.00
1,714.16	10.00	90.00	1,711.62	0.00	43.55	-0.51	2.00	2.00	0.00
Start 2820.64 hold at 1714.16 MD									
1,800.00	10.00	90.00	1,796.16	0.00	58.46	-0.68	0.00	0.00	0.00
1,900.00	10.00	90.00	1,894.64	0.00	75.83	-0.89	0.00	0.00	0.00
2,000.00	10.00	90.00	1,993.12	0.00	93.20	-1.09	0.00	0.00	0.00
2,100.00	10.00	90.00	2,091.60	0.00	110.57	-1.29	0.00	0.00	0.00
2,200.00	10.00	90.00	2,190.08	0.00	127.94	-1.50	0.00	0.00	0.00
2,300.00	10.00	90.00	2,288.56	0.00	145.31	-1.70	0.00	0.00	0.00
2,400.00	10.00	90.00	2,387.04	0.00	162.68	-1.90	0.00	0.00	0.00
2,500.00	10.00	90.00	2,485.52	0.00	180.05	-2.11	0.00	0.00	0.00
2,600.00	10.00	90.00	2,584.00	0.00	197.42	-2.31	0.00	0.00	0.00
2,700.00	10.00	90.00	2,682.48	0.00	214.79	-2.51	0.00	0.00	0.00
2,800.00	10.00	90.00	2,780.96	0.00	232.16	-2.71	0.00	0.00	0.00
2,900.00	10.00	90.00	2,879.44	0.00	249.53	-2.92	0.00	0.00	0.00
3,000.00	10.00	90.00	2,977.92	0.00	266.90	-3.12	0.00	0.00	0.00
3,100.00	10.00	90.00	3,076.40	0.00	284.27	-3.32	0.00	0.00	0.00
3,200.00	10.00	90.00	3,174.88	0.00	301.64	-3.53	0.00	0.00	0.00
3,300.00	10.00	90.00	3,273.36	0.00	319.01	-3.73	0.00	0.00	0.00
3,400.00	10.00	90.00	3,371.84	0.00	336.38	-3.93	0.00	0.00	0.00
3,500.00	10.00	90.00	3,470.32	0.00	353.75	-4.14	0.00	0.00	0.00
3,600.00	10.00	90.00	3,568.80	0.00	371.12	-4.34	0.00	0.00	0.00
3,700.00	10.00	90.00	3,667.27	0.00	388.49	-4.54	0.00	0.00	0.00
3,800.00	10.00	90.00	3,765.75	0.00	405.86	-4.75	0.00	0.00	0.00
3,805.33	10.00	90.00	3,771.00	0.00	406.79	-4.76	0.00	0.00	0.00
Parkman									
3,900.00	10.00	90.00	3,864.23	0.00	423.24	-4.95	0.00	0.00	0.00
4,000.00	10.00	90.00	3,962.71	0.00	440.61	-5.15	0.00	0.00	0.00
4,100.00	10.00	90.00	4,061.19	0.00	457.98	-5.36	0.00	0.00	0.00
4,200.00	10.00	90.00	4,159.67	0.00	475.35	-5.56	0.00	0.00	0.00

Database:	Denver Sales	Local Co-ordinate Reference:	Well Cheese State 26C-21HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4817 & KB 17 @ 4834.00ft (ASSUMED)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4817 & KB 17 @ 4834.00ft (ASSUMED)
Site:	Cheese 1-28HZ PAD	North Reference:	True
Well:	Cheese State 26C-21HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,215.56	10.00	90.00	4,175.00	0.00	478.05	-5.59	0.00	0.00	0.00	
Sussex										
4,300.00	10.00	90.00	4,258.15	0.00	492.72	-5.76	0.00	0.00	0.00	
4,400.00	10.00	90.00	4,356.63	0.00	510.09	-5.96	0.00	0.00	0.00	
4,500.00	10.00	90.00	4,455.11	0.00	527.46	-6.17	0.00	0.00	0.00	
4,534.80	10.00	90.00	4,489.38	0.00	533.50	-6.24	0.00	0.00	0.00	
Start Drop -2.00										
4,600.00	8.70	90.00	4,553.72	0.00	544.09	-6.36	2.00	-2.00	0.00	
4,700.00	6.70	90.00	4,652.81	0.00	557.49	-6.52	2.00	-2.00	0.00	
4,800.00	4.70	90.00	4,752.31	0.00	567.42	-6.64	2.00	-2.00	0.00	
4,900.00	2.70	90.00	4,852.10	0.00	573.87	-6.71	2.00	-2.00	0.00	
5,000.00	0.70	90.00	4,952.05	0.00	576.84	-6.75	2.00	-2.00	0.00	
5,034.95	0.00	0.00	4,987.00	0.00	577.05	-6.75	2.00	-2.00	0.00	
Start 1584.04 hold at 5034.95 MD										
5,100.00	0.00	0.00	5,052.05	0.00	577.05	-6.75	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,152.05	0.00	577.05	-6.75	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,252.05	0.00	577.05	-6.75	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,352.05	0.00	577.05	-6.75	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,452.05	0.00	577.05	-6.75	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,552.05	0.00	577.05	-6.75	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,652.05	0.00	577.05	-6.75	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,752.05	0.00	577.05	-6.75	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,852.05	0.00	577.05	-6.75	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,952.05	0.00	577.05	-6.75	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,052.05	0.00	577.05	-6.75	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,152.05	0.00	577.05	-6.75	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,252.05	0.00	577.05	-6.75	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,352.05	0.00	577.05	-6.75	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,452.05	0.00	577.05	-6.75	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,552.05	0.00	577.05	-6.75	0.00	0.00	0.00	
6,618.99	0.00	0.00	6,571.04	0.00	577.05	-6.75	0.00	0.00	0.00	
Start DLS 10.00 TFO 359.33										
6,700.00	8.10	359.33	6,651.78	5.72	576.98	-1.03	10.00	10.00	0.00	
6,800.00	18.10	359.33	6,749.05	28.35	576.72	21.61	10.00	10.00	0.00	
6,844.75	22.58	359.33	6,791.00	43.90	576.54	37.16	10.00	10.00	0.00	
SSPG										
6,900.00	28.10	359.33	6,840.92	67.54	576.27	60.79	10.00	10.00	0.00	
6,914.94	29.59	359.33	6,854.00	74.74	576.18	68.00	10.00	10.00	0.00	
NBRR										
6,965.73	34.67	359.33	6,897.00	101.75	575.87	95.01	10.00	10.00	0.00	
N470_B_CK										
7,000.00	38.10	359.33	6,924.58	122.07	575.63	115.33	10.00	10.00	0.00	
7,057.53	43.85	359.33	6,968.00	159.78	575.19	153.05	10.00	10.00	0.00	
N700_C_CK										
7,100.00	48.10	359.33	6,997.50	190.31	574.84	183.58	10.00	10.00	0.00	
7,200.00	58.10	359.33	7,057.47	270.17	573.91	263.44	10.00	10.00	0.00	
7,285.31	66.63	359.33	7,097.00	345.67	573.04	338.95	10.00	10.00	0.00	
FRHS										
7,300.00	68.10	359.33	7,102.65	359.23	572.88	352.51	10.00	10.00	0.00	
7,356.10	73.71	359.33	7,121.00	412.23	572.26	405.51	10.00	10.00	0.00	
CDLL										
7,400.00	78.10	359.33	7,131.69	454.79	571.77	448.07	10.00	10.00	0.00	

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Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4817 & KB 17 @ 4834.00ft (ASSUMED)
Site:	Cheese 1-28HZ PAD	North Reference:	True
Well:	Cheese State 26C-21HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,500.00	88.10	359.33	7,143.68	553.93	570.62	547.22	10.00	10.00	0.00
7,517.87	89.89	359.33	7,144.00	571.80	570.41	565.09	10.00	10.00	0.00
Start 5081.39 hold at 7517.87 MD - 7"(140 FSL 209 FEL)									
7,600.00	89.89	359.33	7,144.16	653.92	569.46	647.22	0.00	0.00	0.00
7,700.00	89.89	359.33	7,144.36	753.91	568.30	747.22	0.00	0.00	0.00
7,800.00	89.89	359.33	7,144.55	853.91	567.14	847.22	0.00	0.00	0.00
7,900.00	89.89	359.33	7,144.75	953.90	565.98	947.22	0.00	0.00	0.00
8,000.00	89.89	359.33	7,144.95	1,053.89	564.81	1,047.22	0.00	0.00	0.00
8,100.00	89.89	359.33	7,145.14	1,153.89	563.65	1,147.22	0.00	0.00	0.00
8,200.00	89.89	359.33	7,145.34	1,253.88	562.49	1,247.22	0.00	0.00	0.00
8,300.00	89.89	359.33	7,145.54	1,353.87	561.33	1,347.22	0.00	0.00	0.00
8,400.00	89.89	359.33	7,145.73	1,453.86	560.17	1,447.22	0.00	0.00	0.00
8,500.00	89.89	359.33	7,145.93	1,553.86	559.01	1,547.21	0.00	0.00	0.00
8,600.00	89.89	359.33	7,146.13	1,653.85	557.85	1,647.21	0.00	0.00	0.00
8,700.00	89.89	359.33	7,146.32	1,753.84	556.69	1,747.21	0.00	0.00	0.00
8,800.00	89.89	359.33	7,146.52	1,853.84	555.53	1,847.21	0.00	0.00	0.00
8,900.00	89.89	359.33	7,146.72	1,953.83	554.37	1,947.21	0.00	0.00	0.00
9,000.00	89.89	359.33	7,146.92	2,053.82	553.21	2,047.21	0.00	0.00	0.00
9,100.00	89.89	359.33	7,147.11	2,153.82	552.04	2,147.21	0.00	0.00	0.00
9,200.00	89.89	359.33	7,147.31	2,253.81	550.88	2,247.21	0.00	0.00	0.00
9,300.00	89.89	359.33	7,147.51	2,353.80	549.72	2,347.21	0.00	0.00	0.00
9,400.00	89.89	359.33	7,147.70	2,453.80	548.56	2,447.21	0.00	0.00	0.00
9,500.00	89.89	359.33	7,147.90	2,553.79	547.40	2,547.21	0.00	0.00	0.00
9,600.00	89.89	359.33	7,148.10	2,653.78	546.24	2,647.21	0.00	0.00	0.00
9,700.00	89.89	359.33	7,148.29	2,753.77	545.08	2,747.21	0.00	0.00	0.00
9,800.00	89.89	359.33	7,148.49	2,853.77	543.92	2,847.21	0.00	0.00	0.00
9,900.00	89.89	359.33	7,148.69	2,953.76	542.76	2,947.21	0.00	0.00	0.00
10,000.00	89.89	359.33	7,148.88	3,053.75	541.60	3,047.21	0.00	0.00	0.00
10,100.00	89.89	359.33	7,149.08	3,153.75	540.44	3,147.21	0.00	0.00	0.00
10,200.00	89.89	359.33	7,149.28	3,253.74	539.27	3,247.21	0.00	0.00	0.00
10,300.00	89.89	359.33	7,149.47	3,353.73	538.11	3,347.21	0.00	0.00	0.00
10,400.00	89.89	359.33	7,149.67	3,453.73	536.95	3,447.21	0.00	0.00	0.00
10,500.00	89.89	359.33	7,149.87	3,553.72	535.79	3,547.21	0.00	0.00	0.00
10,600.00	89.89	359.33	7,150.06	3,653.71	534.63	3,647.21	0.00	0.00	0.00
10,700.00	89.89	359.33	7,150.26	3,753.71	533.47	3,747.21	0.00	0.00	0.00
10,800.00	89.89	359.33	7,150.46	3,853.70	532.31	3,847.21	0.00	0.00	0.00
10,900.00	89.89	359.33	7,150.66	3,953.69	531.15	3,947.21	0.00	0.00	0.00
11,000.00	89.89	359.33	7,150.85	4,053.68	529.99	4,047.21	0.00	0.00	0.00
11,100.00	89.89	359.33	7,151.05	4,153.68	528.83	4,147.21	0.00	0.00	0.00
11,200.00	89.89	359.33	7,151.25	4,253.67	527.67	4,247.21	0.00	0.00	0.00
11,300.00	89.89	359.33	7,151.44	4,353.66	526.50	4,347.21	0.00	0.00	0.00
11,400.00	89.89	359.33	7,151.64	4,453.66	525.34	4,447.21	0.00	0.00	0.00
11,500.00	89.89	359.33	7,151.84	4,553.65	524.18	4,547.21	0.00	0.00	0.00
11,600.00	89.89	359.33	7,152.03	4,653.64	523.02	4,647.21	0.00	0.00	0.00
11,700.00	89.89	359.33	7,152.23	4,753.64	521.86	4,747.21	0.00	0.00	0.00
11,800.00	89.89	359.33	7,152.43	4,853.63	520.70	4,847.21	0.00	0.00	0.00
11,900.00	89.89	359.33	7,152.62	4,953.62	519.54	4,947.21	0.00	0.00	0.00
12,000.00	89.89	359.33	7,152.82	5,053.62	518.38	5,047.21	0.00	0.00	0.00
12,100.00	89.89	359.33	7,153.02	5,153.61	517.22	5,147.21	0.00	0.00	0.00
12,200.00	89.89	359.33	7,153.21	5,253.60	516.06	5,247.21	0.00	0.00	0.00
12,300.00	89.89	359.33	7,153.41	5,353.59	514.90	5,347.21	0.00	0.00	0.00
12,400.00	89.89	359.33	7,153.61	5,453.59	513.74	5,447.21	0.00	0.00	0.00
12,500.00	89.89	359.33	7,153.80	5,553.58	512.57	5,547.21	0.00	0.00	0.00
12,599.26	89.89	359.33	7,154.00	5,652.83	511.42	5,646.47	0.00	0.00	0.00

Database:	Denver Sales	Local Co-ordinate Reference:	Well Cheese State 26C-21HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4817 & KB 17 @ 4834.00ft (ASSUMED)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4817 & KB 17 @ 4834.00ft (ASSUMED)
Site:	Cheese 1-28HZ PAD	North Reference:	True
Well:	Cheese State 26C-21HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
TD at 12599.26									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL_Cheese State 26C-21HZ	0.00	0.00	7,154.00	5,652.83	511.42	14,606,311.54	1,735,263.83	40.2180340	-104.6602390
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,114.00	1,114.00	9 5/8"	9.625	13.500	
7,517.87	7,144.00	7"(140 FSL 209 FEL)	7.000	8.750	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
613.00	614.00	Base Fox Hills				
3,805.33	3,772.00	Parkman				
4,215.56	4,176.00	Sussex				
6,844.75	6,792.00	SSPG				
6,914.94	6,855.00	NBRR				
6,965.73	6,898.00	N470_B_CK				
7,057.53	6,969.00	N700_C_CK				
7,285.31	7,098.00	FRHS				
7,356.10	7,122.00	CDLL				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,214.00	1,214.00	0.00	0.00	Start Build 2.00	
1,714.16	1,711.62	0.00	43.55	Start 2820.64 hold at 1714.16 MD	
4,534.80	4,489.38	0.00	533.50	Start Drop -2.00	
5,034.95	4,987.00	0.00	577.05	Start 1584.04 hold at 5034.95 MD	
6,618.99	6,571.04	0.00	577.05	Start DLS 10.00 TFO 359.33	
7,517.87	7,144.00	571.79	570.41	Start 5081.39 hold at 7517.87 MD	
12,599.26	7,154.00	5,652.83	511.42	TD at 12599.26	