



Incline Energy Partners

Weld County, CO (NAD 83)

Hungenberg

Hungenberg UH 7

Wellbore #1

Plan: Design #2

Standard Planning Report

13 March, 2020



Project: Weld County, CO (NAD 83)
 Site: Hungenberg
 Well: Hungenberg UH 7
 Wellbore: Wellbore #1
 Design: Design #2

Incline Energy Partners

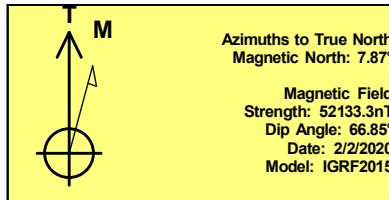
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Northern Zone
 System Datum: Mean Sea Level

SECTION DETAILS

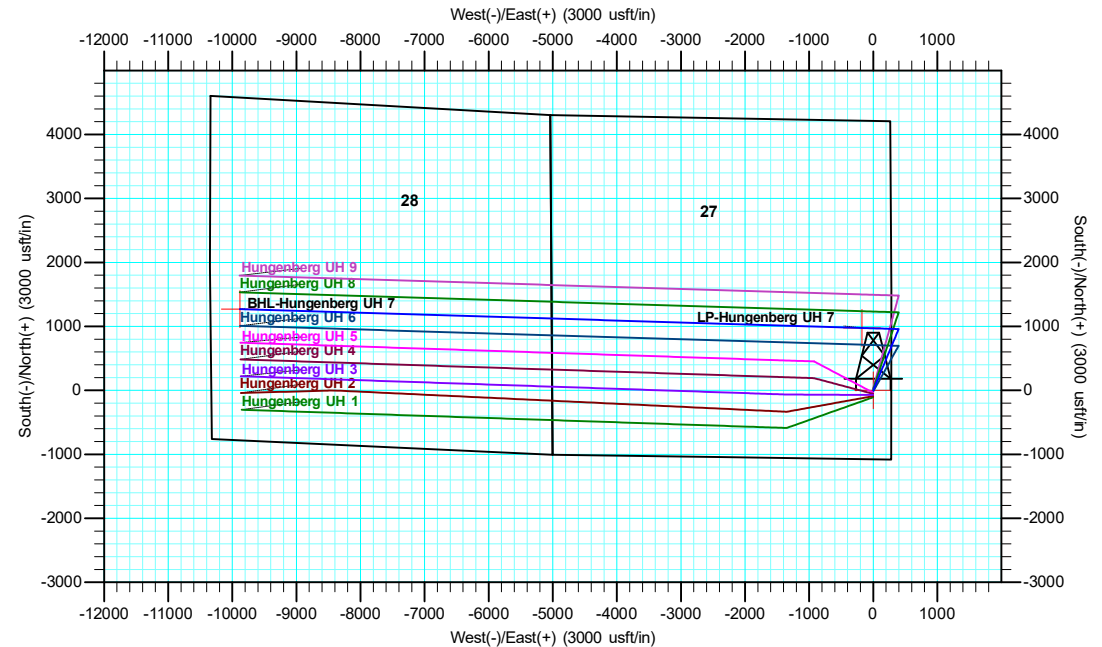
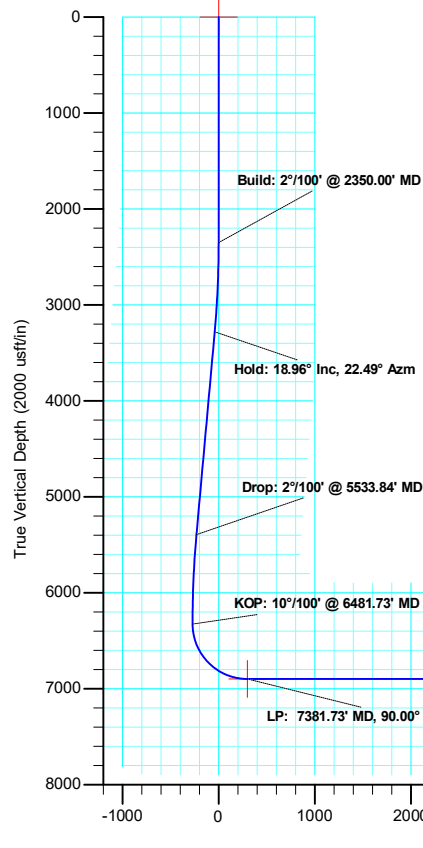
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2350.00	0.00	0.00	2350.00	0.00	0.00	0.00	0.00	0.00	
3	3297.89	18.96	22.49	3280.69	143.58	59.43	2.00	22.49	-40.63	
4	5533.84	18.96	22.49	5395.35	814.75	337.25	0.00	0.00	-230.53	
5	6481.73	0.00	0.00	6326.04	958.32	396.68	2.00	180.00	-271.16	
6	7381.73	90.00	271.74	6899.00	975.75	-176.01	10.00	0.00	299.08	LP-Hungenberg UH 7
7	17090.48	90.00	271.74	6899.00	1271.06	-9880.28	0.00	0.00	9961.70	BHL-Hungenberg UH 7

WELL DETAILS: Hungenberg UH 7

+N/-S	+E/-W	Northing	Ground Level: Easting	4694.00 Latitude	Longitude
0.00	0.00	1408888.83	3239100.25	40.452622	-104.640823



SHL: 1078 FSL/ 282 FEL Sec. 27
 TPZ: 2051 FSL/ 460 FEL Sec. 27
 BHL: 2051 FSL/ 460 FWL Sec. 28



Plan: Design #2 (Hungenberg UH 7/Wellbore #1)
 Created By: Keith Noack Date: 14:58, March 13 2020

Database:	Local	Local Co-ordinate Reference:	Well Hungenberg UH 7
Company:	Incline Energy Partners	TVD Reference:	WELL @ 4719.00usft
Project:	Weld County, CO (NAD 83)	MD Reference:	WELL @ 4719.00usft
Site:	Hungenberg	North Reference:	True
Well:	Hungenberg UH 7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Project	Weld County, CO (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Hungenberg				
Site Position:		Northing:	1,410,439.83 usft	Latitude:	40.456941	
From:	Lat/Long	Easting:	3,236,763.14 usft	Longitude:	-104.649167	
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.55 °

Well	Hungenberg UH 7					
Well Position	+N/-S	-1,573.35 usft	Northing:	1,408,888.83 usft	Latitude:	40.452622
	+E/-W	2,322.13 usft	Easting:	3,239,100.25 usft	Longitude:	-104.640823
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	4,694.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/2/2020	7.87	66.85	52,133.25415676

Design	Design #2			
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	277.33

Plan Survey Tool Program	Date	3/12/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,090.48	Design #2 (Wellbore #1)	MWD
				OWSG MWD - Standard

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	
2,350.00	0.00	0.00	2,350.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,297.89	18.96	22.49	3,280.69	143.58	59.43	2.00	2.00	0.00	22.49	
5,533.84	18.96	22.49	5,395.35	814.75	337.25	0.00	0.00	0.00	0.00	
6,481.73	0.00	0.00	6,326.04	958.32	396.68	2.00	-2.00	0.00	180.00	
7,381.73	90.00	271.74	6,899.00	975.75	-176.01	10.00	10.00	0.00	0.00	LP-Hungenberg UH
17,090.48	90.00	271.74	6,899.00	1,271.06	-9,880.28	0.00	0.00	0.00	0.00	BHL-Hungenberg U

Database:	Local	Local Co-ordinate Reference:	Well Hungenberg UH 7
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Project:	Weld County, CO (NAD 83)	MD Reference:	WELL @ 4719.00usft
Site:	Hungenberg	North Reference:	True
Well:	Hungenberg UH 7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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
SHL-Hungenberg UH 7									
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
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
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,350.00	0.00	0.00	2,350.00	0.00	0.00	0.00	0.00	0.00	0.00
Build: 2°/100' @ 2350.00' MD									
2,400.00	1.00	22.49	2,400.00	0.40	0.17	-0.11	2.00	2.00	0.00
2,500.00	3.00	22.49	2,499.93	3.63	1.50	-1.03	2.00	2.00	0.00
2,600.00	5.00	22.49	2,599.68	10.07	4.17	-2.85	2.00	2.00	0.00
2,700.00	7.00	22.49	2,699.13	19.73	8.17	-5.58	2.00	2.00	0.00
2,800.00	9.00	22.49	2,798.15	32.59	13.49	-9.22	2.00	2.00	0.00
2,900.00	11.00	22.49	2,896.63	48.63	20.13	-13.76	2.00	2.00	0.00
3,000.00	13.00	22.49	2,994.44	67.84	28.08	-19.20	2.00	2.00	0.00
3,100.00	15.00	22.49	3,091.46	90.19	37.33	-25.52	2.00	2.00	0.00
3,200.00	17.00	22.49	3,187.58	115.66	47.88	-32.73	2.00	2.00	0.00
3,297.89	18.96	22.49	3,280.69	143.58	59.43	-40.63	2.00	2.00	0.00
Hold: 18.96° Inc, 22.49° Azm									
3,300.00	18.96	22.49	3,282.68	144.21	59.69	-40.80	0.00	0.00	0.00
3,400.00	18.96	22.49	3,377.26	174.23	72.12	-49.30	0.00	0.00	0.00
3,500.00	18.96	22.49	3,471.84	204.25	84.54	-57.79	0.00	0.00	0.00
3,600.00	18.96	22.49	3,566.41	234.26	96.97	-66.28	0.00	0.00	0.00
3,700.00	18.96	22.49	3,660.99	264.28	109.39	-74.78	0.00	0.00	0.00
3,800.00	18.96	22.49	3,755.56	294.30	121.82	-83.27	0.00	0.00	0.00
3,900.00	18.96	22.49	3,850.14	324.31	134.24	-91.77	0.00	0.00	0.00
4,000.00	18.96	22.49	3,944.72	354.33	146.67	-100.26	0.00	0.00	0.00
4,100.00	18.96	22.49	4,039.29	384.35	159.09	-108.75	0.00	0.00	0.00
4,200.00	18.96	22.49	4,133.87	414.37	171.52	-117.25	0.00	0.00	0.00
4,300.00	18.96	22.49	4,228.44	444.38	183.94	-125.74	0.00	0.00	0.00
4,400.00	18.96	22.49	4,323.02	474.40	196.37	-134.23	0.00	0.00	0.00
4,500.00	18.96	22.49	4,417.59	504.42	208.79	-142.73	0.00	0.00	0.00
4,600.00	18.96	22.49	4,512.17	534.43	221.22	-151.22	0.00	0.00	0.00
4,700.00	18.96	22.49	4,606.75	564.45	233.64	-159.71	0.00	0.00	0.00

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Site:	Hungenberg	North Reference:	True
Well:	Hungenberg UH 7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
4,800.00	18.96	22.49	4,701.32	594.47	246.07	-168.21	0.00	0.00	0.00
4,900.00	18.96	22.49	4,795.90	624.49	258.49	-176.70	0.00	0.00	0.00
5,000.00	18.96	22.49	4,890.47	654.50	270.92	-185.19	0.00	0.00	0.00
5,100.00	18.96	22.49	4,985.05	684.52	283.34	-193.69	0.00	0.00	0.00
5,200.00	18.96	22.49	5,079.63	714.54	295.77	-202.18	0.00	0.00	0.00
5,300.00	18.96	22.49	5,174.20	744.56	308.19	-210.67	0.00	0.00	0.00
5,400.00	18.96	22.49	5,268.78	774.57	320.62	-219.17	0.00	0.00	0.00
5,500.00	18.96	22.49	5,363.35	804.59	333.04	-227.66	0.00	0.00	0.00
5,533.84	18.96	22.49	5,395.35	814.75	337.25	-230.53	0.00	0.00	0.00
Drop: 2°/100' @ 5533.84' MD									
5,600.00	17.63	22.49	5,458.17	833.94	345.19	-235.96	2.00	-2.00	0.00
5,700.00	15.63	22.49	5,553.98	860.39	356.14	-243.45	2.00	-2.00	0.00
5,800.00	13.63	22.49	5,650.73	883.73	365.80	-250.05	2.00	-2.00	0.00
5,900.00	11.63	22.49	5,748.31	903.94	374.17	-255.77	2.00	-2.00	0.00
6,000.00	9.63	22.49	5,846.58	920.99	381.22	-260.60	2.00	-2.00	0.00
6,100.00	7.63	22.49	5,945.44	934.86	386.97	-264.52	2.00	-2.00	0.00
6,200.00	5.63	22.49	6,044.77	945.53	391.38	-267.54	2.00	-2.00	0.00
6,300.00	3.63	22.49	6,144.44	953.00	394.47	-269.65	2.00	-2.00	0.00
6,400.00	1.63	22.49	6,244.33	957.25	396.23	-270.85	2.00	-2.00	0.00
6,481.73	0.00	0.00	6,326.04	958.32	396.68	-271.16	2.00	-2.00	0.00
KOP: 10°/100' @ 6481.73' MD									
6,500.00	1.83	271.74	6,344.31	958.33	396.39	-270.87	10.00	10.00	0.00
6,550.00	6.83	271.74	6,394.15	958.45	392.62	-267.12	10.00	10.00	0.00
6,600.00	11.83	271.74	6,443.48	958.69	384.52	-259.05	10.00	10.00	0.00
6,650.00	16.83	271.74	6,491.91	959.07	372.16	-246.74	10.00	10.00	0.00
6,700.00	21.83	271.74	6,539.07	959.57	355.62	-230.28	10.00	10.00	0.00
6,750.00	26.83	271.74	6,584.62	960.20	335.04	-209.79	10.00	10.00	0.00
6,800.00	31.83	271.74	6,628.20	960.94	310.57	-185.42	10.00	10.00	0.00
6,850.00	36.83	271.74	6,669.48	961.80	282.39	-157.37	10.00	10.00	0.00
6,900.00	41.83	271.74	6,708.14	962.77	250.73	-125.84	10.00	10.00	0.00
6,950.00	46.83	271.74	6,743.90	963.83	215.82	-91.08	10.00	10.00	0.00
7,000.00	51.83	271.74	6,776.47	964.98	177.93	-53.35	10.00	10.00	0.00
7,050.00	56.83	271.74	6,805.62	966.22	137.34	-12.94	10.00	10.00	0.00
7,100.00	61.83	271.74	6,831.12	967.52	94.37	29.85	10.00	10.00	0.00
7,150.00	66.83	271.74	6,852.78	968.89	49.34	74.69	10.00	10.00	0.00
7,200.00	71.83	271.74	6,870.42	970.32	2.60	121.23	10.00	10.00	0.00
7,250.00	76.83	271.74	6,883.92	971.78	-45.51	169.13	10.00	10.00	0.00
7,300.00	81.83	271.74	6,893.18	973.27	-94.60	218.01	10.00	10.00	0.00
7,350.00	86.83	271.74	6,898.12	974.79	-144.32	267.52	10.00	10.00	0.00
7,381.73	90.00	271.74	6,899.00	975.75	-176.01	299.08	10.00	10.00	0.00
LP: 7381.73' MD, 90.00° Inc, 271.74° Azm - LP-Hungenberg UH 7									
7,400.00	90.00	271.74	6,899.00	976.31	-194.28	317.26	0.00	0.00	0.00
7,500.00	90.00	271.74	6,899.00	979.35	-294.23	416.79	0.00	0.00	0.00
7,600.00	90.00	271.74	6,899.00	982.39	-394.19	516.31	0.00	0.00	0.00
7,700.00	90.00	271.74	6,899.00	985.43	-494.14	615.84	0.00	0.00	0.00
7,800.00	90.00	271.74	6,899.00	988.47	-594.09	715.36	0.00	0.00	0.00
7,900.00	90.00	271.74	6,899.00	991.52	-694.05	814.89	0.00	0.00	0.00
8,000.00	90.00	271.74	6,899.00	994.56	-794.00	914.41	0.00	0.00	0.00
8,100.00	90.00	271.74	6,899.00	997.60	-893.96	1,013.94	0.00	0.00	0.00
8,200.00	90.00	271.74	6,899.00	1,000.64	-993.91	1,113.46	0.00	0.00	0.00
8,300.00	90.00	271.74	6,899.00	1,003.68	-1,093.86	1,212.99	0.00	0.00	0.00
8,400.00	90.00	271.74	6,899.00	1,006.72	-1,193.82	1,312.51	0.00	0.00	0.00
8,500.00	90.00	271.74	6,899.00	1,009.77	-1,293.77	1,412.04	0.00	0.00	0.00

Database:	Local	Local Co-ordinate Reference:	Well Hungenberg UH 7
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Site:	Hungenberg	North Reference:	True
Well:	Hungenberg UH 7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)	
8,600.00	90.00	271.74	6,899.00	1,012.81	-1,393.72	1,511.56	0.00	0.00	0.00	
8,700.00	90.00	271.74	6,899.00	1,015.85	-1,493.68	1,611.09	0.00	0.00	0.00	
8,800.00	90.00	271.74	6,899.00	1,018.89	-1,593.63	1,710.61	0.00	0.00	0.00	
8,900.00	90.00	271.74	6,899.00	1,021.93	-1,693.59	1,810.14	0.00	0.00	0.00	
9,000.00	90.00	271.74	6,899.00	1,024.97	-1,793.54	1,909.66	0.00	0.00	0.00	
9,100.00	90.00	271.74	6,899.00	1,028.02	-1,893.49	2,009.19	0.00	0.00	0.00	
9,200.00	90.00	271.74	6,899.00	1,031.06	-1,993.45	2,108.71	0.00	0.00	0.00	
9,300.00	90.00	271.74	6,899.00	1,034.10	-2,093.40	2,208.24	0.00	0.00	0.00	
9,400.00	90.00	271.74	6,899.00	1,037.14	-2,193.35	2,307.76	0.00	0.00	0.00	
9,500.00	90.00	271.74	6,899.00	1,040.18	-2,293.31	2,407.28	0.00	0.00	0.00	
9,600.00	90.00	271.74	6,899.00	1,043.22	-2,393.26	2,506.81	0.00	0.00	0.00	
9,700.00	90.00	271.74	6,899.00	1,046.27	-2,493.22	2,606.33	0.00	0.00	0.00	
9,800.00	90.00	271.74	6,899.00	1,049.31	-2,593.17	2,705.86	0.00	0.00	0.00	
9,900.00	90.00	271.74	6,899.00	1,052.35	-2,693.12	2,805.38	0.00	0.00	0.00	
10,000.00	90.00	271.74	6,899.00	1,055.39	-2,793.08	2,904.91	0.00	0.00	0.00	
10,100.00	90.00	271.74	6,899.00	1,058.43	-2,893.03	3,004.43	0.00	0.00	0.00	
10,200.00	90.00	271.74	6,899.00	1,061.47	-2,992.98	3,103.96	0.00	0.00	0.00	
10,300.00	90.00	271.74	6,899.00	1,064.52	-3,092.94	3,203.48	0.00	0.00	0.00	
10,400.00	90.00	271.74	6,899.00	1,067.56	-3,192.89	3,303.01	0.00	0.00	0.00	
10,500.00	90.00	271.74	6,899.00	1,070.60	-3,292.85	3,402.53	0.00	0.00	0.00	
10,600.00	90.00	271.74	6,899.00	1,073.64	-3,392.80	3,502.06	0.00	0.00	0.00	
10,700.00	90.00	271.74	6,899.00	1,076.68	-3,492.75	3,601.58	0.00	0.00	0.00	
10,800.00	90.00	271.74	6,899.00	1,079.72	-3,592.71	3,701.11	0.00	0.00	0.00	
10,900.00	90.00	271.74	6,899.00	1,082.77	-3,692.66	3,800.63	0.00	0.00	0.00	
11,000.00	90.00	271.74	6,899.00	1,085.81	-3,792.61	3,900.16	0.00	0.00	0.00	
11,100.00	90.00	271.74	6,899.00	1,088.85	-3,892.57	3,999.68	0.00	0.00	0.00	
11,200.00	90.00	271.74	6,899.00	1,091.89	-3,992.52	4,099.21	0.00	0.00	0.00	
11,300.00	90.00	271.74	6,899.00	1,094.93	-4,092.47	4,198.73	0.00	0.00	0.00	
11,400.00	90.00	271.74	6,899.00	1,097.97	-4,192.43	4,298.26	0.00	0.00	0.00	
11,500.00	90.00	271.74	6,899.00	1,101.02	-4,292.38	4,397.78	0.00	0.00	0.00	
11,600.00	90.00	271.74	6,899.00	1,104.06	-4,392.34	4,497.31	0.00	0.00	0.00	
11,700.00	90.00	271.74	6,899.00	1,107.10	-4,492.29	4,596.83	0.00	0.00	0.00	
11,800.00	90.00	271.74	6,899.00	1,110.14	-4,592.24	4,696.36	0.00	0.00	0.00	
11,900.00	90.00	271.74	6,899.00	1,113.18	-4,692.20	4,795.88	0.00	0.00	0.00	
12,000.00	90.00	271.74	6,899.00	1,116.22	-4,792.15	4,895.41	0.00	0.00	0.00	
12,100.00	90.00	271.74	6,899.00	1,119.27	-4,892.10	4,994.93	0.00	0.00	0.00	
12,200.00	90.00	271.74	6,899.00	1,122.31	-4,992.06	5,094.46	0.00	0.00	0.00	
12,300.00	90.00	271.74	6,899.00	1,125.35	-5,092.01	5,193.98	0.00	0.00	0.00	
12,400.00	90.00	271.74	6,899.00	1,128.39	-5,191.97	5,293.51	0.00	0.00	0.00	
12,500.00	90.00	271.74	6,899.00	1,131.43	-5,291.92	5,393.03	0.00	0.00	0.00	
12,600.00	90.00	271.74	6,899.00	1,134.47	-5,391.87	5,492.56	0.00	0.00	0.00	
12,700.00	90.00	271.74	6,899.00	1,137.52	-5,491.83	5,592.08	0.00	0.00	0.00	
12,800.00	90.00	271.74	6,899.00	1,140.56	-5,591.78	5,691.60	0.00	0.00	0.00	
12,900.00	90.00	271.74	6,899.00	1,143.60	-5,691.73	5,791.13	0.00	0.00	0.00	
13,000.00	90.00	271.74	6,899.00	1,146.64	-5,791.69	5,890.65	0.00	0.00	0.00	
13,100.00	90.00	271.74	6,899.00	1,149.68	-5,891.64	5,990.18	0.00	0.00	0.00	
13,200.00	90.00	271.74	6,899.00	1,152.72	-5,991.60	6,089.70	0.00	0.00	0.00	
13,300.00	90.00	271.74	6,899.00	1,155.77	-6,091.55	6,189.23	0.00	0.00	0.00	
13,400.00	90.00	271.74	6,899.00	1,158.81	-6,191.50	6,288.75	0.00	0.00	0.00	
13,500.00	90.00	271.74	6,899.00	1,161.85	-6,291.46	6,388.28	0.00	0.00	0.00	
13,600.00	90.00	271.74	6,899.00	1,164.89	-6,391.41	6,487.80	0.00	0.00	0.00	
13,700.00	90.00	271.74	6,899.00	1,167.93	-6,491.36	6,587.33	0.00	0.00	0.00	
13,800.00	90.00	271.74	6,899.00	1,170.97	-6,591.32	6,686.85	0.00	0.00	0.00	
13,900.00	90.00	271.74	6,899.00	1,174.02	-6,691.27	6,786.38	0.00	0.00	0.00	

Database:	Local	Local Co-ordinate Reference:	Well Hungenberg UH 7
Company:	Incline Energy Partners	TVD Reference:	WELL @ 4719.00usft
Project:	Weld County, CO (NAD 83)	MD Reference:	WELL @ 4719.00usft
Site:	Hungenberg	North Reference:	True
Well:	Hungenberg UH 7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
14,000.00	90.00	271.74	6,899.00	1,177.06	-6,791.23	6,885.90	0.00	0.00	0.00
14,100.00	90.00	271.74	6,899.00	1,180.10	-6,891.18	6,985.43	0.00	0.00	0.00
14,200.00	90.00	271.74	6,899.00	1,183.14	-6,991.13	7,084.95	0.00	0.00	0.00
14,300.00	90.00	271.74	6,899.00	1,186.18	-7,091.09	7,184.48	0.00	0.00	0.00
14,400.00	90.00	271.74	6,899.00	1,189.22	-7,191.04	7,284.00	0.00	0.00	0.00
14,500.00	90.00	271.74	6,899.00	1,192.27	-7,290.99	7,383.53	0.00	0.00	0.00
14,600.00	90.00	271.74	6,899.00	1,195.31	-7,390.95	7,483.05	0.00	0.00	0.00
14,700.00	90.00	271.74	6,899.00	1,198.35	-7,490.90	7,582.58	0.00	0.00	0.00
14,800.00	90.00	271.74	6,899.00	1,201.39	-7,590.86	7,682.10	0.00	0.00	0.00
14,900.00	90.00	271.74	6,899.00	1,204.43	-7,690.81	7,781.63	0.00	0.00	0.00
15,000.00	90.00	271.74	6,899.00	1,207.47	-7,790.76	7,881.15	0.00	0.00	0.00
15,100.00	90.00	271.74	6,899.00	1,210.52	-7,890.72	7,980.68	0.00	0.00	0.00
15,200.00	90.00	271.74	6,899.00	1,213.56	-7,990.67	8,080.20	0.00	0.00	0.00
15,300.00	90.00	271.74	6,899.00	1,216.60	-8,090.62	8,179.73	0.00	0.00	0.00
15,400.00	90.00	271.74	6,899.00	1,219.64	-8,190.58	8,279.25	0.00	0.00	0.00
15,500.00	90.00	271.74	6,899.00	1,222.68	-8,290.53	8,378.78	0.00	0.00	0.00
15,600.00	90.00	271.74	6,899.00	1,225.72	-8,390.49	8,478.30	0.00	0.00	0.00
15,700.00	90.00	271.74	6,899.00	1,228.77	-8,490.44	8,577.83	0.00	0.00	0.00
15,800.00	90.00	271.74	6,899.00	1,231.81	-8,590.39	8,677.35	0.00	0.00	0.00
15,900.00	90.00	271.74	6,899.00	1,234.85	-8,690.35	8,776.88	0.00	0.00	0.00
16,000.00	90.00	271.74	6,899.00	1,237.89	-8,790.30	8,876.40	0.00	0.00	0.00
16,100.00	90.00	271.74	6,899.00	1,240.93	-8,890.25	8,975.93	0.00	0.00	0.00
16,200.00	90.00	271.74	6,899.00	1,243.97	-8,990.21	9,075.45	0.00	0.00	0.00
16,300.00	90.00	271.74	6,899.00	1,247.02	-9,090.16	9,174.97	0.00	0.00	0.00
16,400.00	90.00	271.74	6,899.00	1,250.06	-9,190.12	9,274.50	0.00	0.00	0.00
16,500.00	90.00	271.74	6,899.00	1,253.10	-9,290.07	9,374.02	0.00	0.00	0.00
16,600.00	90.00	271.74	6,899.00	1,256.14	-9,390.02	9,473.55	0.00	0.00	0.00
16,700.00	90.00	271.74	6,899.00	1,259.18	-9,489.98	9,573.07	0.00	0.00	0.00
16,800.00	90.00	271.74	6,899.00	1,262.22	-9,589.93	9,672.60	0.00	0.00	0.00
16,900.00	90.00	271.74	6,899.00	1,265.27	-9,689.88	9,772.12	0.00	0.00	0.00
17,000.00	90.00	271.74	6,899.00	1,268.31	-9,789.84	9,871.65	0.00	0.00	0.00
17,090.48	90.00	271.74	6,899.00	1,271.06	-9,880.28	9,961.70	0.00	0.00	0.00
TD @ 17090.48' MD/6899.00' TVD - BHL-Hungenberg UH 7									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL-Hungenberg UH	0.00	0.00	0.00	0.00	0.00	1,408,888.83	3,239,100.25	40.452622	-104.640823
- plan hits target center									
- Point									
LP-Hungenberg UH 7	0.00	0.00	6,899.00	975.75	-176.01	1,409,862.83	3,238,914.79	40.455300	-104.641456
- plan hits target center									
- Point									
BHL-Hungenberg UH	0.00	0.00	6,899.00	1,271.06	-9,880.28	1,410,064.10	3,229,208.12	40.456106	-104.676328
- plan hits target center									
- Point									

Database:	Local	Local Co-ordinate Reference:	Well Hungenberg UH 7
Company:	Incline Energy Partners	TVD Reference:	WELL @ 4719.00usft
Project:	Weld County, CO (NAD 83)	MD Reference:	WELL @ 4719.00usft
Site:	Hungenberg	North Reference:	True
Well:	Hungenberg UH 7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,941.45	6,738.00	Niobrara A			
7,163.66	6,858.00	Niobrara B			

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,350.00	2,350.00	0.00	0.00	Build: 2°/100' @ 2350.00' MD	
3,297.89	3,280.69	143.58	59.43	Hold: 18.96° Inc, 22.49° Azm	
5,533.84	5,395.35	814.75	337.25	Drop: 2°/100' @ 5533.84' MD	
6,481.73	6,326.04	958.32	396.68	KOP: 10°/100' @ 6481.73' MD	
7,381.73	6,899.00	975.75	-176.01	LP: 7381.73' MD, 90.00° Inc, 271.74° Azm	
17,090.48	6,899.00	1,271.06	-9,880.28	TD @ 17090.48' MD/6899.00' TVD	