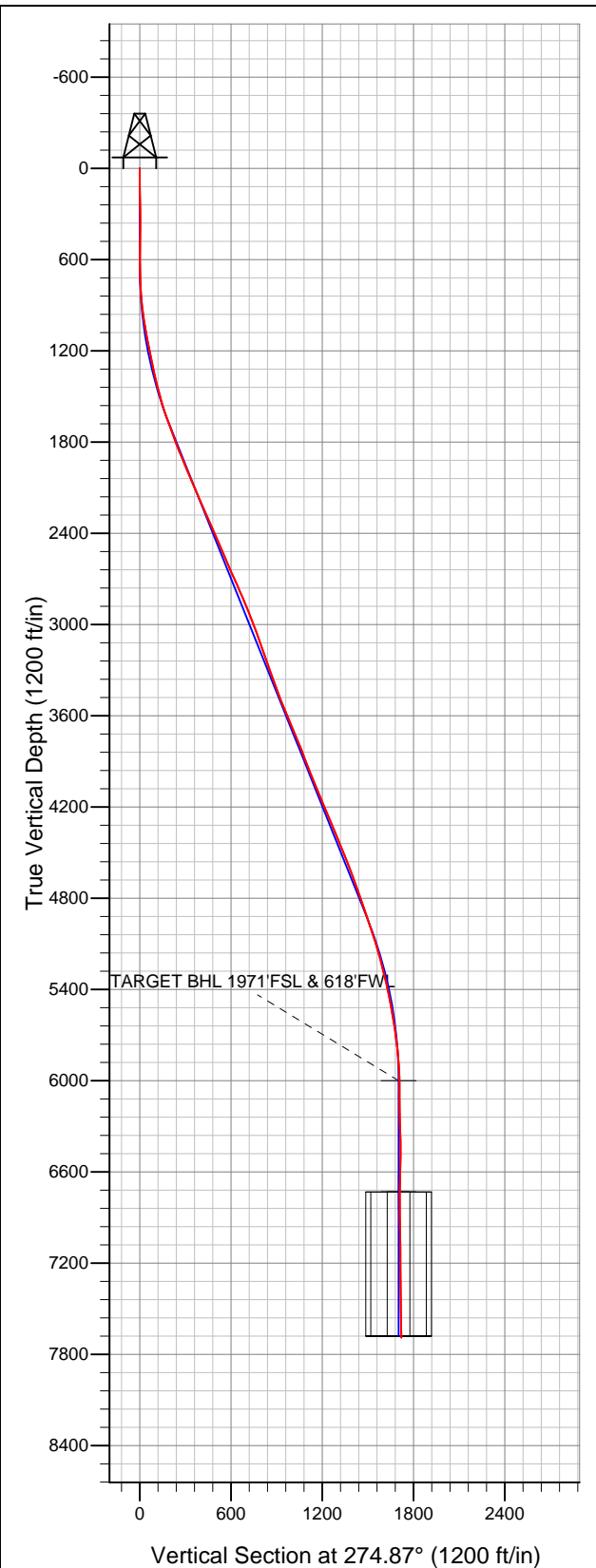


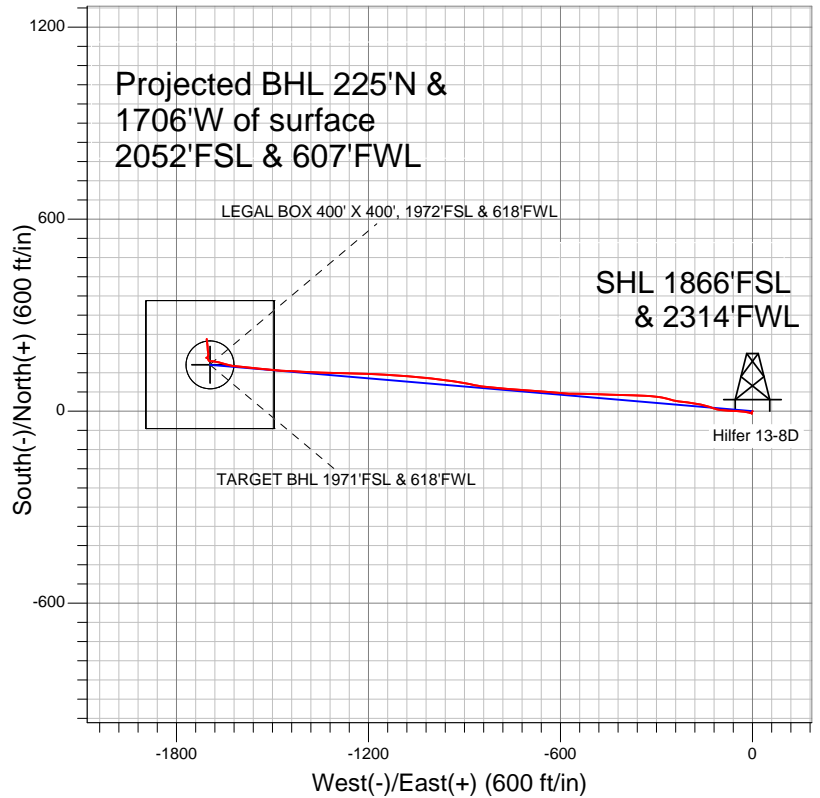
Well Name: Hilfer 13-8D

Surface Location: Hilfer 23-8D Pad Sec.8-T4N-R67W
 North American Datum 1983 US State Plane 1983Colorado Northern Zone
 Ground Elevation: 4829.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1361924.80	3162970.02	40.325410	-104.915490	
		Original Well Elev	WELL @ 4842.0ft (Original Well Elev)			



Synergy Resources



LEGEND

- Survey #1
- Hilfer 13-8D, Wellbore #1, Plan #2 (2-13-12) V0
- Wellbore #1

Final Survey Plot

Projected Final Survey -
 7994'MD & 7691'TVD @ 1719'VS
 2.60 deg Inc 349.90 deg AZ

Project: SEC.8-T4N-R67W
 Site: Hilfer 23-8D Pad Sec.8-T4N-R67W
 Well: Hilfer 13-8D
 Plan: Wellbore #1



Synergy Resources

SEC.8-T4N-R67W

Hilfer 23-8D Pad Sec.8-T4N-R67W

Hilfer 13-8D

Wellbore #1

Survey: Survey #1

Standard Survey Report

22 February, 2012

Company:	Synergy Resources	Local Co-ordinate Reference:	Well Hilfer 13-8D
Project:	SEC.8-T4N-R67W	TVD Reference:	WELL @ 4842.0ft (Original Well Elev)
Site:	Hilfer 23-8D Pad Sec.8-T4N-R67W	MD Reference:	WELL @ 4842.0ft (Original Well Elev)
Well:	Hilfer 13-8D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.8-T4N-R67W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site		Hilfer 23-8D Pad Sec.8-T4N-R67W			
Site Position:		Northing:	1,361,939.77 ft	Latitude:	40.325451
From:	Lat/Long	Easting:	3,162,972.15 ft	Longitude:	-104.915482
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.38 °

Well	Hilfer 13-8D					
Well Position	+N/-S	0.0 ft	Northing:	1,361,924.80 ft	Latitude:	40.325410
	+E/-W	0.0 ft	Easting:	3,162,970.02 ft	Longitude:	-104.915490
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,829.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/27/2011	8.87	66.95	53,020

Design	Wellbore #1			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	6,000.0	0.0	0.0	274.87

Survey Program		Date	2/22/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
77.0	7,994.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey	Wellbore Data									
	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Main Wellbore	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	77.0	0.90	198.90	77.0	-0.6	-0.2	0.1	1.17	1.17	0.00
	168.0	1.20	224.90	168.0	-1.9	-1.1	0.9	0.61	0.33	28.57
	258.0	1.40	230.70	258.0	-3.3	-2.6	2.3	0.27	0.22	6.44
	349.0	1.50	194.50	348.9	-5.1	-3.8	3.3	1.00	0.11	-39.78
	440.0	0.40	147.60	439.9	-6.6	-3.9	3.3	1.39	-1.21	-51.54
	523.0	0.60	103.30	522.9	-6.9	-3.3	2.7	0.51	0.24	-53.37
	604.0	1.10	95.40	603.9	-7.1	-2.1	1.5	0.63	0.62	-9.75
	698.0	1.10	283.80	697.9	-7.0	-2.1	1.5	2.33	0.00	-182.55
	792.0	3.80	284.00	791.8	-6.0	-6.0	5.5	2.87	2.87	0.21
	885.0	6.20	282.90	884.4	-4.1	-13.9	13.5	2.58	2.58	-1.18
	979.0	7.90	277.50	977.7	-2.1	-25.3	25.0	1.94	1.81	-5.74
1,073.0	9.80	272.20	1,070.6	-1.0	-39.7	39.4	2.20	2.02	-5.64	

Company:	Synergy Resources	Local Co-ordinate Reference:	Well Hilfer 13-8D
Project:	SEC.8-T4N-R67W	TVD Reference:	WELL @ 4842.0ft (Original Well Elev)
Site:	Hilfer 23-8D Pad Sec.8-T4N-R67W	MD Reference:	WELL @ 4842.0ft (Original Well Elev)
Well:	Hilfer 13-8D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,166.0	11.20	276.80	1,162.1	0.4	-56.5	56.4	1.75	1.51	4.95	
1,260.0	11.50	272.50	1,254.2	1.9	-75.0	74.8	0.95	0.32	-4.57	
1,354.0	13.30	273.40	1,346.0	2.9	-95.1	95.0	1.93	1.91	0.96	
1,447.0	13.50	287.30	1,436.5	6.8	-116.2	116.3	3.46	0.22	14.95	
1,541.0	16.60	288.50	1,527.3	14.3	-139.4	140.1	3.31	3.30	1.28	
1,635.0	19.50	281.00	1,616.7	21.6	-167.5	168.7	3.95	3.09	-7.98	
1,728.0	20.40	275.00	1,704.1	25.9	-198.9	200.4	2.40	0.97	-6.45	
1,822.0	20.20	280.30	1,792.2	30.3	-231.2	232.9	1.97	-0.21	5.64	
1,916.0	23.10	285.20	1,879.6	38.0	-265.0	267.2	3.63	3.09	5.21	
2,010.0	22.50	276.40	1,966.3	44.9	-300.7	303.4	3.68	-0.64	-9.36	
2,103.0	23.00	272.40	2,052.1	47.6	-336.5	339.3	1.75	0.54	-4.30	
2,197.0	23.70	271.50	2,138.4	48.9	-373.7	376.5	0.84	0.74	-0.96	
2,291.0	22.50	272.50	2,224.8	50.1	-410.6	413.4	1.34	-1.28	1.06	
2,384.0	24.30	271.70	2,310.2	51.5	-447.5	450.2	1.97	1.94	-0.86	
2,478.0	24.40	271.70	2,395.8	52.6	-486.2	488.9	0.11	0.11	0.00	
2,572.0	24.30	271.00	2,481.5	53.6	-525.0	527.6	0.32	-0.11	-0.74	
2,665.0	22.10	271.10	2,566.9	54.2	-561.6	564.2	2.37	-2.37	0.11	
2,759.0	24.10	274.80	2,653.4	56.2	-598.4	601.0	2.63	2.13	3.94	
2,853.0	23.80	275.20	2,739.3	59.5	-636.4	639.2	0.36	-0.32	0.43	
2,947.0	22.40	273.10	2,825.8	62.2	-673.2	676.0	1.73	-1.49	-2.23	
3,040.0	22.20	274.50	2,911.8	64.5	-708.4	711.3	0.61	-0.22	1.51	
3,134.0	21.60	275.90	2,999.0	67.7	-743.3	746.4	0.85	-0.64	1.49	
3,227.0	20.00	272.20	3,086.0	70.1	-776.2	779.4	2.23	-1.72	-3.98	
3,321.0	20.10	277.30	3,174.3	72.7	-808.3	811.6	1.86	0.11	5.43	
3,415.0	18.10	275.40	3,263.1	76.2	-838.9	842.3	2.23	-2.13	-2.02	
3,508.0	19.10	282.90	3,351.2	80.9	-868.1	871.9	2.79	1.08	8.06	
3,602.0	20.60	280.30	3,439.7	87.3	-899.4	903.5	1.85	1.60	-2.77	
3,695.0	22.80	277.80	3,526.1	92.7	-933.3	937.8	2.57	2.37	-2.69	
3,789.0	22.70	278.20	3,612.8	97.7	-969.3	974.1	0.20	-0.11	0.43	
3,883.0	22.70	275.50	3,699.5	102.1	-1,005.3	1,010.4	1.11	0.00	-2.87	
3,976.0	22.40	275.20	3,785.4	105.4	-1,040.8	1,046.0	0.35	-0.32	-0.32	
4,070.0	20.90	275.70	3,872.7	108.7	-1,075.4	1,080.7	1.61	-1.60	0.53	
4,164.0	22.40	273.80	3,960.1	111.5	-1,109.9	1,115.4	1.76	1.60	-2.02	
4,257.0	22.20	272.70	4,046.1	113.5	-1,145.2	1,150.7	0.50	-0.22	-1.18	
4,351.0	21.60	272.90	4,133.4	115.2	-1,180.2	1,185.7	0.64	-0.64	0.21	
4,445.0	23.60	271.50	4,220.1	116.6	-1,216.3	1,221.8	2.20	2.13	-1.49	
4,538.0	22.20	270.80	4,305.8	117.3	-1,252.4	1,257.9	1.53	-1.51	-0.75	
4,632.0	23.00	272.20	4,392.6	118.3	-1,288.6	1,293.9	1.03	0.85	1.49	
4,726.0	22.30	273.10	4,479.3	120.0	-1,324.7	1,330.1	0.83	-0.74	0.96	
4,819.0	22.50	270.30	4,565.3	121.0	-1,360.1	1,365.5	1.17	0.22	-3.01	
4,913.0	19.60	271.70	4,653.0	121.6	-1,393.9	1,399.2	3.13	-3.09	1.49	
5,007.0	19.70	276.10	4,741.6	123.7	-1,425.4	1,430.8	1.58	0.11	4.68	
5,101.0	17.90	270.30	4,830.6	125.5	-1,455.6	1,461.0	2.76	-1.91	-6.17	
5,195.0	20.40	274.80	4,919.4	126.9	-1,486.4	1,491.8	3.09	2.66	4.79	
5,288.0	18.60	277.60	5,007.0	130.2	-1,517.2	1,522.8	2.18	-1.94	3.01	
5,382.0	15.70	274.50	5,096.8	133.2	-1,544.8	1,550.5	3.23	-3.09	-3.30	
5,476.0	15.60	276.60	5,187.3	135.7	-1,570.0	1,575.9	0.61	-0.11	2.23	
5,569.0	14.30	274.10	5,277.2	137.9	-1,593.9	1,599.9	1.56	-1.40	-2.69	
5,663.0	12.90	276.60	5,368.6	140.0	-1,615.9	1,621.9	1.62	-1.49	2.66	
5,757.0	11.40	284.00	5,460.5	143.4	-1,635.3	1,641.6	2.30	-1.60	7.87	
5,851.0	10.30	286.60	5,552.8	148.1	-1,652.4	1,659.0	1.28	-1.17	2.77	
5,944.0	8.60	281.20	5,644.5	151.8	-1,667.2	1,674.1	2.06	-1.83	-5.81	
6,038.0	7.70	283.30	5,737.6	154.6	-1,680.2	1,687.3	1.01	-0.96	2.23	
6,132.0	4.80	264.10	5,831.0	155.7	-1,690.3	1,697.4	3.76	-3.09	-20.43	

Company:	Synergy Resources	Local Co-ordinate Reference:	Well Hilfer 13-8D
Project:	SEC.8-T4N-R67W	TVD Reference:	WELL @ 4842.0ft (Original Well Elev)
Site:	Hilfer 23-8D Pad Sec.8-T4N-R67W	MD Reference:	WELL @ 4842.0ft (Original Well Elev)
Well:	Hilfer 13-8D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
6,225.0	3.90	289.90	5,923.7	156.3	-1,697.1	1,704.3	2.29	-0.97	27.74	
6,300.9	1.13	329.46	5,999.6	157.9	-1,699.9	1,707.2	4.10	-3.65	52.10	
TARGET BHL 1971'FSL & 618'FWL										
6,319.0	0.90	10.50	6,017.7	158.2	-1,700.0	1,707.3	4.10	-1.25	227.12	
6,413.0	1.10	340.20	6,111.7	159.7	-1,700.2	1,707.6	0.59	0.21	-32.23	
6,507.0	1.80	339.00	6,205.6	162.0	-1,701.0	1,708.6	0.75	0.74	-1.28	
6,600.0	1.90	314.90	6,298.6	164.4	-1,702.6	1,710.4	0.84	0.11	-25.91	
6,694.0	2.30	290.80	6,392.5	166.2	-1,705.5	1,713.4	1.02	0.43	-25.64	
6,788.0	1.10	133.50	6,486.5	166.2	-1,706.6	1,714.5	3.56	-1.28	-167.34	
6,882.0	1.90	62.70	6,580.5	166.3	-1,704.5	1,712.5	1.97	0.85	-75.32	
6,976.0	2.60	25.90	6,674.4	169.0	-1,702.2	1,710.4	1.67	0.74	-39.15	
7,033.6	2.63	14.64	6,731.9	171.4	-1,701.3	1,709.7	0.89	0.06	-19.55	
LEGAL BOX 400' X 400', 1972'FSL & 618'FWL - TARGET CIRCLE 1971'FSL & 618'FWL										
7,069.0	2.70	8.00	6,767.3	173.0	-1,701.0	1,709.5	0.89	0.19	-18.75	
7,163.0	2.80	359.60	6,861.2	177.5	-1,700.7	1,709.6	0.44	0.11	-8.94	
7,257.0	3.20	352.90	6,955.1	182.4	-1,701.0	1,710.4	0.57	0.43	-7.13	
7,350.0	4.00	348.50	7,047.9	188.2	-1,702.0	1,711.8	0.91	0.86	-4.73	
7,444.0	3.60	1.70	7,141.7	194.3	-1,702.6	1,712.9	1.02	-0.43	14.04	
7,538.0	3.90	356.70	7,235.5	200.5	-1,702.7	1,713.5	0.47	0.32	-5.32	
7,632.0	3.50	352.20	7,329.3	206.5	-1,703.2	1,714.6	0.53	-0.43	-4.79	
7,725.0	3.20	355.00	7,422.1	211.9	-1,703.9	1,715.7	0.37	-0.32	3.01	
7,819.0	3.00	348.30	7,516.0	216.9	-1,704.6	1,716.8	0.44	-0.21	-7.13	
7,944.0	2.60	349.90	7,640.8	222.9	-1,705.7	1,718.5	0.33	-0.32	1.28	
7,994.0	2.60	349.90	7,690.8	225.1	-1,706.1	1,719.1	0.00	0.00	0.00	

Checked By: _____	Approved By: _____	Date: _____
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