

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	950.0	0.00	0.00	950.0	0.0	0.0	0.00	0.00	0.0	
3	1721.3	15.43	355.99	1712.0	102.9	-7.2	2.00	355.99	103.2	
4	5171.6	15.43	355.99	5038.0	1018.4	-71.4	0.00	0.00	1020.9	
5	5942.9	0.00	0.00	5800.0	1121.4	-78.6	2.00	180.00	1124.1	TARGET BHL 1311'FSL, 2405'FEL
6	7992.9	0.00	0.00	7850.0	1121.4	-78.6	0.00	0.00	1124.1	



Directional

Synergy Resources

SEC.8-T4N-R67W

Klein 44-8D Pad Sec.8-T4N-R67W

Klein 8PD

Wellbore #1

Plan: Plan #1 (5-03-11)

Standard Planning Report

11 May, 2011

Database: Landmark
Company: Synergy Resources
Project: SEC.8-T4N-R67W
Site: Klein 44-8D Pad Sec.8-T4N-R67W
Well: Klein 8PD
Wellbore: Wellbore #1
Design: Plan #1 (5-03-11)

Local Co-ordinate Reference: Well Klein 8PD
TVD Reference: WELL @ 4807.0ft (Original Well Elev)
MD Reference: WELL @ 4807.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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	Klein 44-8D Pad Sec.8-T4N-R67W			
Site Position:		Northing:	1,360,242.64 ft	Latitude: 40.320784
From:	Lat/Long	Easting:	3,163,433.95 ft	Longitude: -104.913866
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence: 0.38 °

Well	Klein 8PD			
Well Position	+N/-S	3.3 ft	Northing:	1,360,244.98 ft
	+E/-W	-140.0 ft	Easting:	3,163,293.95 ft
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft
			Ground Level:	4,794.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/11/2011	8.95	66.97	53,084

Design	Plan #1 (5-03-11)			
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Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	355.99

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
950.0	0.00	0.00	950.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,721.3	15.43	355.99	1,712.0	102.9	-7.2	2.00	2.00	0.00	355.99	
5,171.6	15.43	355.99	5,038.0	1,018.4	-71.4	0.00	0.00	0.00	0.00	
5,942.9	0.00	0.00	5,800.0	1,121.4	-78.6	2.00	-2.00	0.00	180.00	TARGET BHL 1311
7,992.9	0.00	0.00	7,850.0	1,121.4	-78.6	0.00	0.00	0.00	0.00	

Database: Landmark
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Design: Plan #1 (5-03-11)

Local Co-ordinate Reference: Well Klein 8PD
TVD Reference: WELL @ 4807.0ft (Original Well Elev)
MD Reference: WELL @ 4807.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned 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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
40.0	0.00	0.00	40.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
240.0	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	0.00
280.0	0.00	0.00	280.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
360.0	0.00	0.00	360.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
440.0	0.00	0.00	440.0	0.0	0.0	0.0	0.00	0.00	0.00
480.0	0.00	0.00	480.0	0.0	0.0	0.0	0.00	0.00	0.00
520.0	0.00	0.00	520.0	0.0	0.0	0.0	0.00	0.00	0.00
550.0	0.00	0.00	550.0	0.0	0.0	0.0	0.00	0.00	0.00
8 5/8"									
560.0	0.00	0.00	560.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
640.0	0.00	0.00	640.0	0.0	0.0	0.0	0.00	0.00	0.00
680.0	0.00	0.00	680.0	0.0	0.0	0.0	0.00	0.00	0.00
720.0	0.00	0.00	720.0	0.0	0.0	0.0	0.00	0.00	0.00
760.0	0.00	0.00	760.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
840.0	0.00	0.00	840.0	0.0	0.0	0.0	0.00	0.00	0.00
880.0	0.00	0.00	880.0	0.0	0.0	0.0	0.00	0.00	0.00
920.0	0.00	0.00	920.0	0.0	0.0	0.0	0.00	0.00	0.00
950.0	0.00	0.00	950.0	0.0	0.0	0.0	0.00	0.00	0.00
960.0	0.20	355.99	960.0	0.0	0.0	0.0	2.00	2.00	0.00
1,000.0	1.00	355.99	1,000.0	0.4	0.0	0.4	2.00	2.00	0.00
1,040.0	1.80	355.99	1,040.0	1.4	-0.1	1.4	2.00	2.00	0.00
1,080.0	2.60	355.99	1,080.0	2.9	-0.2	2.9	2.00	2.00	0.00
1,120.0	3.40	355.99	1,119.9	5.0	-0.4	5.0	2.00	2.00	0.00
1,160.0	4.20	355.99	1,159.8	7.7	-0.5	7.7	2.00	2.00	0.00
1,200.0	5.00	355.99	1,199.7	10.9	-0.8	10.9	2.00	2.00	0.00
1,240.0	5.80	355.99	1,239.5	14.6	-1.0	14.7	2.00	2.00	0.00
1,280.0	6.60	355.99	1,279.3	18.9	-1.3	19.0	2.00	2.00	0.00
1,320.0	7.40	355.99	1,319.0	23.8	-1.7	23.9	2.00	2.00	0.00
1,360.0	8.20	355.99	1,358.6	29.2	-2.0	29.3	2.00	2.00	0.00
1,400.0	9.00	355.99	1,398.2	35.2	-2.5	35.3	2.00	2.00	0.00
1,440.0	9.80	355.99	1,437.6	41.7	-2.9	41.8	2.00	2.00	0.00
1,480.0	10.60	355.99	1,477.0	48.8	-3.4	48.9	2.00	2.00	0.00
1,520.0	11.40	355.99	1,516.2	56.4	-4.0	56.5	2.00	2.00	0.00
1,560.0	12.20	355.99	1,555.4	64.5	-4.5	64.7	2.00	2.00	0.00
1,600.0	13.00	355.99	1,594.4	73.2	-5.1	73.4	2.00	2.00	0.00
1,640.0	13.80	355.99	1,633.3	82.5	-5.8	82.7	2.00	2.00	0.00
1,680.0	14.60	355.99	1,672.1	92.3	-6.5	92.5	2.00	2.00	0.00
1,720.0	15.40	355.99	1,710.8	102.6	-7.2	102.9	2.00	2.00	0.00
1,721.3	15.43	355.99	1,712.0	102.9	-7.2	103.2	2.00	2.00	0.00
1,760.0	15.43	355.99	1,749.3	113.2	-7.9	113.5	0.00	0.00	0.00
1,800.0	15.43	355.99	1,787.9	123.8	-8.7	124.1	0.00	0.00	0.00
1,840.0	15.43	355.99	1,826.4	134.4	-9.4	134.8	0.00	0.00	0.00
1,880.0	15.43	355.99	1,865.0	145.1	-10.2	145.4	0.00	0.00	0.00
1,920.0	15.43	355.99	1,903.6	155.7	-10.9	156.1	0.00	0.00	0.00
1,960.0	15.43	355.99	1,942.1	166.3	-11.7	166.7	0.00	0.00	0.00

Database: Landmark
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Site: Klein 44-8D Pad Sec.8-T4N-R67W
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Wellbore: Wellbore #1
Design: Plan #1 (5-03-11)

Local Co-ordinate Reference: Well Klein 8PD
TVD Reference: WELL @ 4807.0ft (Original Well Elev)
MD Reference: WELL @ 4807.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned 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)
2,000.0	15.43	355.99	1,980.7	176.9	-12.4	177.3	0.00	0.00	0.00
2,040.0	15.43	355.99	2,019.2	187.5	-13.1	188.0	0.00	0.00	0.00
2,080.0	15.43	355.99	2,057.8	198.1	-13.9	198.6	0.00	0.00	0.00
2,120.0	15.43	355.99	2,096.4	208.7	-14.6	209.3	0.00	0.00	0.00
2,160.0	15.43	355.99	2,134.9	219.4	-15.4	219.9	0.00	0.00	0.00
2,200.0	15.43	355.99	2,173.5	230.0	-16.1	230.5	0.00	0.00	0.00
2,240.0	15.43	355.99	2,212.0	240.6	-16.9	241.2	0.00	0.00	0.00
2,280.0	15.43	355.99	2,250.6	251.2	-17.6	251.8	0.00	0.00	0.00
2,320.0	15.43	355.99	2,289.1	261.8	-18.4	262.4	0.00	0.00	0.00
2,360.0	15.43	355.99	2,327.7	272.4	-19.1	273.1	0.00	0.00	0.00
2,400.0	15.43	355.99	2,366.3	283.0	-19.8	283.7	0.00	0.00	0.00
2,440.0	15.43	355.99	2,404.8	293.6	-20.6	294.4	0.00	0.00	0.00
2,480.0	15.43	355.99	2,443.4	304.3	-21.3	305.0	0.00	0.00	0.00
2,520.0	15.43	355.99	2,481.9	314.9	-22.1	315.6	0.00	0.00	0.00
2,560.0	15.43	355.99	2,520.5	325.5	-22.8	326.3	0.00	0.00	0.00
2,600.0	15.43	355.99	2,559.1	336.1	-23.6	336.9	0.00	0.00	0.00
2,640.0	15.43	355.99	2,597.6	346.7	-24.3	347.6	0.00	0.00	0.00
2,680.0	15.43	355.99	2,636.2	357.3	-25.1	358.2	0.00	0.00	0.00
2,720.0	15.43	355.99	2,674.7	367.9	-25.8	368.8	0.00	0.00	0.00
2,760.0	15.43	355.99	2,713.3	378.5	-26.5	379.5	0.00	0.00	0.00
2,800.0	15.43	355.99	2,751.9	389.2	-27.3	390.1	0.00	0.00	0.00
2,840.0	15.43	355.99	2,790.4	399.8	-28.0	400.8	0.00	0.00	0.00
2,880.0	15.43	355.99	2,829.0	410.4	-28.8	411.4	0.00	0.00	0.00
2,920.0	15.43	355.99	2,867.5	421.0	-29.5	422.0	0.00	0.00	0.00
2,960.0	15.43	355.99	2,906.1	431.6	-30.3	432.7	0.00	0.00	0.00
3,000.0	15.43	355.99	2,944.7	442.2	-31.0	443.3	0.00	0.00	0.00
3,040.0	15.43	355.99	2,983.2	452.8	-31.8	454.0	0.00	0.00	0.00
3,080.0	15.43	355.99	3,021.8	463.5	-32.5	464.6	0.00	0.00	0.00
3,120.0	15.43	355.99	3,060.3	474.1	-33.2	475.2	0.00	0.00	0.00
3,160.0	15.43	355.99	3,098.9	484.7	-34.0	485.9	0.00	0.00	0.00
3,200.0	15.43	355.99	3,137.5	495.3	-34.7	496.5	0.00	0.00	0.00
3,240.0	15.43	355.99	3,176.0	505.9	-35.5	507.1	0.00	0.00	0.00
3,280.0	15.43	355.99	3,214.6	516.5	-36.2	517.8	0.00	0.00	0.00
3,320.0	15.43	355.99	3,253.1	527.1	-37.0	528.4	0.00	0.00	0.00
3,360.0	15.43	355.99	3,291.7	537.7	-37.7	539.1	0.00	0.00	0.00
3,400.0	15.43	355.99	3,330.2	548.4	-38.5	549.7	0.00	0.00	0.00
3,440.0	15.43	355.99	3,368.8	559.0	-39.2	560.3	0.00	0.00	0.00
3,480.0	15.43	355.99	3,407.4	569.6	-39.9	571.0	0.00	0.00	0.00
3,520.0	15.43	355.99	3,445.9	580.2	-40.7	581.6	0.00	0.00	0.00
3,560.0	15.43	355.99	3,484.5	590.8	-41.4	592.3	0.00	0.00	0.00
3,600.0	15.43	355.99	3,523.0	601.4	-42.2	602.9	0.00	0.00	0.00
3,640.0	15.43	355.99	3,561.6	612.0	-42.9	613.5	0.00	0.00	0.00
3,680.0	15.43	355.99	3,600.2	622.6	-43.7	624.2	0.00	0.00	0.00
3,720.0	15.43	355.99	3,638.7	633.3	-44.4	634.8	0.00	0.00	0.00
3,760.0	15.43	355.99	3,677.3	643.9	-45.1	645.5	0.00	0.00	0.00
3,800.0	15.43	355.99	3,715.8	654.5	-45.9	656.1	0.00	0.00	0.00
3,840.0	15.43	355.99	3,754.4	665.1	-46.6	666.7	0.00	0.00	0.00
3,880.0	15.43	355.99	3,793.0	675.7	-47.4	677.4	0.00	0.00	0.00
3,920.0	15.43	355.99	3,831.5	686.3	-48.1	688.0	0.00	0.00	0.00
3,960.0	15.43	355.99	3,870.1	696.9	-48.9	698.7	0.00	0.00	0.00
4,000.0	15.43	355.99	3,908.6	707.6	-49.6	709.3	0.00	0.00	0.00
4,040.0	15.43	355.99	3,947.2	718.2	-50.4	719.9	0.00	0.00	0.00
4,080.0	15.43	355.99	3,985.8	728.8	-51.1	730.6	0.00	0.00	0.00
4,120.0	15.43	355.99	4,024.3	739.4	-51.8	741.2	0.00	0.00	0.00

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Survey Calculation Method: Minimum Curvature

Planned 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)
4,160.0	15.43	355.99	4,062.9	750.0	-52.6	751.8	0.00	0.00	0.00
4,200.0	15.43	355.99	4,101.4	760.6	-53.3	762.5	0.00	0.00	0.00
4,240.0	15.43	355.99	4,140.0	771.2	-54.1	773.1	0.00	0.00	0.00
4,280.0	15.43	355.99	4,178.5	781.8	-54.8	783.8	0.00	0.00	0.00
4,320.0	15.43	355.99	4,217.1	792.5	-55.6	794.4	0.00	0.00	0.00
4,360.0	15.43	355.99	4,255.7	803.1	-56.3	805.0	0.00	0.00	0.00
4,400.0	15.43	355.99	4,294.2	813.7	-57.1	815.7	0.00	0.00	0.00
4,440.0	15.43	355.99	4,332.8	824.3	-57.8	826.3	0.00	0.00	0.00
4,480.0	15.43	355.99	4,371.3	834.9	-58.5	837.0	0.00	0.00	0.00
4,520.0	15.43	355.99	4,409.9	845.5	-59.3	847.6	0.00	0.00	0.00
4,560.0	15.43	355.99	4,448.5	856.1	-60.0	858.2	0.00	0.00	0.00
4,600.0	15.43	355.99	4,487.0	866.8	-60.8	868.9	0.00	0.00	0.00
4,640.0	15.43	355.99	4,525.6	877.4	-61.5	879.5	0.00	0.00	0.00
4,680.0	15.43	355.99	4,564.1	888.0	-62.3	890.2	0.00	0.00	0.00
4,720.0	15.43	355.99	4,602.7	898.6	-63.0	900.8	0.00	0.00	0.00
4,760.0	15.43	355.99	4,641.3	909.2	-63.8	911.4	0.00	0.00	0.00
4,800.0	15.43	355.99	4,679.8	919.8	-64.5	922.1	0.00	0.00	0.00
4,840.0	15.43	355.99	4,718.4	930.4	-65.2	932.7	0.00	0.00	0.00
4,880.0	15.43	355.99	4,756.9	941.0	-66.0	943.4	0.00	0.00	0.00
4,920.0	15.43	355.99	4,795.5	951.7	-66.7	954.0	0.00	0.00	0.00
4,960.0	15.43	355.99	4,834.1	962.3	-67.5	964.6	0.00	0.00	0.00
5,000.0	15.43	355.99	4,872.6	972.9	-68.2	975.3	0.00	0.00	0.00
5,040.0	15.43	355.99	4,911.2	983.5	-69.0	985.9	0.00	0.00	0.00
5,080.0	15.43	355.99	4,949.7	994.1	-69.7	996.5	0.00	0.00	0.00
5,120.0	15.43	355.99	4,988.3	1,004.7	-70.5	1,007.2	0.00	0.00	0.00
5,160.0	15.43	355.99	5,026.8	1,015.3	-71.2	1,017.8	0.00	0.00	0.00
5,171.6	15.43	355.99	5,038.0	1,018.4	-71.4	1,020.9	0.00	0.00	0.00
5,200.0	14.86	355.99	5,065.4	1,025.8	-71.9	1,028.3	2.00	-2.00	0.00
5,240.0	14.06	355.99	5,104.2	1,035.8	-72.6	1,038.3	2.00	-2.00	0.00
5,280.0	13.26	355.99	5,143.0	1,045.2	-73.3	1,047.8	2.00	-2.00	0.00
5,320.0	12.46	355.99	5,182.0	1,054.1	-73.9	1,056.7	2.00	-2.00	0.00
5,360.0	11.66	355.99	5,221.2	1,062.4	-74.5	1,065.0	2.00	-2.00	0.00
5,400.0	10.86	355.99	5,260.4	1,070.2	-75.0	1,072.8	2.00	-2.00	0.00
5,440.0	10.06	355.99	5,299.7	1,077.4	-75.6	1,080.1	2.00	-2.00	0.00
5,480.0	9.26	355.99	5,339.2	1,084.1	-76.0	1,086.8	2.00	-2.00	0.00
5,520.0	8.46	355.99	5,378.7	1,090.3	-76.5	1,093.0	2.00	-2.00	0.00
5,560.0	7.66	355.99	5,418.3	1,095.9	-76.8	1,098.6	2.00	-2.00	0.00
5,600.0	6.86	355.99	5,458.0	1,100.9	-77.2	1,103.6	2.00	-2.00	0.00
5,640.0	6.06	355.99	5,497.7	1,105.4	-77.5	1,108.1	2.00	-2.00	0.00
5,680.0	5.26	355.99	5,537.5	1,109.3	-77.8	1,112.1	2.00	-2.00	0.00
5,720.0	4.46	355.99	5,577.4	1,112.7	-78.0	1,115.4	2.00	-2.00	0.00
5,760.0	3.66	355.99	5,617.3	1,115.5	-78.2	1,118.3	2.00	-2.00	0.00
5,800.0	2.86	355.99	5,657.2	1,117.8	-78.4	1,120.5	2.00	-2.00	0.00
5,840.0	2.06	355.99	5,697.2	1,119.5	-78.5	1,122.3	2.00	-2.00	0.00
5,880.0	1.26	355.99	5,737.2	1,120.7	-78.6	1,123.4	2.00	-2.00	0.00
5,920.0	0.46	355.99	5,777.1	1,121.3	-78.6	1,124.0	2.00	-2.00	0.00
5,942.9	0.00	0.00	5,800.0	1,121.4	-78.6	1,124.1	2.00	-2.00	17.55
TARGET BHL 1311'FSL, 2405'FEL									
5,960.0	0.00	0.00	5,817.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,857.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,040.0	0.00	0.00	5,897.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,080.0	0.00	0.00	5,937.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,120.0	0.00	0.00	5,977.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,160.0	0.00	0.00	6,017.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00

Database: Landmark
Company: Synergy Resources
Project: SEC.8-T4N-R67W
Site: Klein 44-8D Pad Sec.8-T4N-R67W
Well: Klein 8PD
Wellbore: Wellbore #1
Design: Plan #1 (5-03-11)

Local Co-ordinate Reference: Well Klein 8PD
TVD Reference: WELL @ 4807.0ft (Original Well Elev)
MD Reference: WELL @ 4807.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned 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)
6,200.0	0.00	0.00	6,057.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,240.0	0.00	0.00	6,097.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,280.0	0.00	0.00	6,137.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,320.0	0.00	0.00	6,177.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,360.0	0.00	0.00	6,217.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,257.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,440.0	0.00	0.00	6,297.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,480.0	0.00	0.00	6,337.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,520.0	0.00	0.00	6,377.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,560.0	0.00	0.00	6,417.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,457.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,640.0	0.00	0.00	6,497.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,680.0	0.00	0.00	6,537.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,720.0	0.00	0.00	6,577.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,760.0	0.00	0.00	6,617.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,657.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,840.0	0.00	0.00	6,697.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,880.0	0.00	0.00	6,737.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,920.0	0.00	0.00	6,777.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
6,960.0	0.00	0.00	6,817.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,857.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,040.0	0.00	0.00	6,897.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,080.0	0.00	0.00	6,937.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,120.0	0.00	0.00	6,977.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,160.0	0.00	0.00	7,017.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,200.0	0.00	0.00	7,057.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,240.0	0.00	0.00	7,097.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,280.0	0.00	0.00	7,137.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,320.0	0.00	0.00	7,177.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,360.0	0.00	0.00	7,217.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,400.0	0.00	0.00	7,257.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,440.0	0.00	0.00	7,297.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,480.0	0.00	0.00	7,337.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,520.0	0.00	0.00	7,377.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,560.0	0.00	0.00	7,417.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,457.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,640.0	0.00	0.00	7,497.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,680.0	0.00	0.00	7,537.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,720.0	0.00	0.00	7,577.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,760.0	0.00	0.00	7,617.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,657.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,840.0	0.00	0.00	7,697.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,880.0	0.00	0.00	7,737.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,920.0	0.00	0.00	7,777.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,960.0	0.00	0.00	7,817.1	1,121.4	-78.6	1,124.1	0.00	0.00	0.00
7,992.9	0.00	0.00	7,850.0	1,121.4	-78.6	1,124.1	0.00	0.00	0.00

HARD LINES 76°W OF BHL

Database: Landmark
Company: Synergy Resources
Project: SEC.8-T4N-R67W
Site: Klein 44-8D Pad Sec.8-T4N-R67W
Well: Klein 8PD
Wellbore: Wellbore #1
Design: Plan #1 (5-03-11)

Local Co-ordinate Reference: Well Klein 8PD
TVD Reference: WELL @ 4807.0ft (Original Well Elev)
MD Reference: WELL @ 4807.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
TARGET BHL 1311'F - plan hits target center - Point	0.00	0.00	5,800.0	1,121.4	-78.6	1,361,365.73	3,163,207.92	40.323871	-104.914650
HARD LINES 76'W O - plan misses target center by 125.6ft at 7992.9ft MD (7850.0 TVD, 1121.4 N, -78.6 E) - Polygon	0.00	0.00	7,850.0	1,021.3	-154.6	1,361,265.19	3,163,132.62	40.323596	-104.914922
Point 1			7,850.0	0.0	0.0	1,361,265.19	3,163,132.62		
Point 2			7,850.0	200.0	0.0	1,361,465.18	3,163,131.30		

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
550.0	550.0	8 5/8"	8-5/8	12-1/4



Directional

Synergy Resources

SEC.8-T4N-R67W

Klein 44-8D Pad Sec.8-T4N-R67W

Klein 8PD

Wellbore #1

Plan #1 (5-03-11)

Anticollision Report

12 May, 2011

Company: Synergy Resources
Project: SEC.8-T4N-R67W
Reference Site: Klein 44-8D Pad Sec.8-T4N-R67W
Site Error: 0.0ft
Reference Well: Klein 8PD
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (5-03-11)

Local Co-ordinate Reference: Well Klein 8PD
TVD Reference: WELL @ 4807.0ft (Original Well Elev)
MD Reference: WELL @ 4807.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

Reference	Plan #1 (5-03-11)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 5/12/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	7,992.9	Plan #1 (5-03-11) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Klein 44-8D Pad Sec.8-T4N-R67W						
Klein 80D - Wellbore #1 - Plan #1 (5-03-11)	395.8	395.8	20.0	18.5	12.886	CC
Klein 80D - Wellbore #1 - Plan #1 (5-03-11)	400.0	400.0	20.0	18.5	12.733	ES
Klein 80D - Wellbore #1 - Plan #1 (5-03-11)	600.0	599.1	24.5	22.0	9.809	SF

Offset Design Klein 44-8D Pad Sec.8-T4N-R67W - Klein 80D - Wellbore #1 - Plan #1 (5-03-11)											
Survey Program: 0-MWD											
Reference Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)
											Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	92.08	-0.7	20.1	20.1		
100.0	100.0	100.0	100.0	0.1	0.1	92.08	-0.7	20.1	20.1	19.9	0.22
200.0	200.0	200.0	200.0	0.3	0.3	92.08	-0.7	20.1	20.1	19.4	0.67
300.0	300.0	300.0	300.0	0.6	0.6	92.08	-0.7	20.1	20.1	19.0	1.12
395.8	395.8	395.8	395.8	0.8	0.8	87.50	0.9	20.0	20.0	18.5	1.55
400.0	400.0	400.0	400.0	0.8	0.8	87.09	1.0	20.0	20.0	18.5	1.57
500.0	500.0	499.8	499.6	1.0	1.0	72.52	6.2	19.8	20.7	18.7	2.03
600.0	600.0	599.1	598.5	1.2	1.3	52.56	14.9	19.4	24.5	22.0	2.50
700.0	700.0	697.7	696.4	1.5	1.5	35.16	26.8	18.9	33.0	30.0	2.97
800.0	800.0	795.3	792.8	1.7	1.8	23.48	41.9	18.2	46.3	42.8	3.45
900.0	900.0	891.8	887.6	1.9	2.2	16.16	60.1	17.4	63.8	59.9	3.93
950.0	950.0	939.5	934.2	2.0	2.4	13.58	70.3	17.0	74.0	69.8	4.17
1,000.0	1,000.0	987.0	980.4	2.1	2.6	15.52	81.2	16.5	84.7	80.3	4.38
1,100.0	1,099.9	1,081.5	1,071.8	2.4	3.0	12.69	105.1	15.5	106.2	101.3	4.85
1,200.0	1,199.7	1,175.3	1,161.8	2.6	3.5	10.85	131.8	14.3	127.7	122.3	5.33
1,300.0	1,299.1	1,268.5	1,250.2	2.8	4.0	9.59	161.3	13.0	149.0	143.2	5.81
1,400.0	1,398.2	1,361.1	1,337.0	3.1	4.6	8.68	193.4	11.6	170.2	163.9	6.31
1,500.0	1,496.6	1,453.1	1,422.2	3.4	5.2	8.00	228.0	10.1	191.1	184.3	6.80
1,600.0	1,594.4	1,544.5	1,505.8	3.7	5.9	7.48	265.1	8.5	211.8	204.5	7.32
1,700.0	1,691.5	1,635.4	1,587.6	4.1	6.7	7.08	304.6	6.8	232.2	224.4	7.85
1,721.3	1,712.0	1,654.7	1,604.7	4.2	6.8	7.01	313.3	6.4	236.5	228.6	7.97
1,800.0	1,787.9	1,725.7	1,667.6	4.5	7.4	6.78	346.4	4.9	253.4	245.0	8.43
1,900.0	1,884.3	1,822.9	1,753.0	4.9	8.3	6.49	392.8	2.9	276.0	267.0	9.04
2,000.0	1,980.7	1,920.3	1,838.6	5.4	9.2	6.24	439.3	0.9	298.7	289.0	9.66

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company: Synergy Resources
Project: SEC.8-T4N-R67W
Reference Site: Klein 44-8D Pad Sec.8-T4N-R67W
Site Error: 0.0ft
Reference Well: Klein 8PD
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (5-03-11)

Local Co-ordinate Reference: Well Klein 8PD
TVD Reference: WELL @ 4807.0ft (Original Well Elev)
MD Reference: WELL @ 4807.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

Offset Design Klein 44-8D Pad Sec.8-T4N-R67W - Klein 80D - Wellbore #1 - Plan #1 (5-03-11)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
2,100.0	2,077.1	2,017.7	1,924.2	5.9	10.0	6.02	485.7	-1.1	321.3	311.0	10.29	31.220		
2,200.0	2,173.5	2,115.1	2,009.8	6.4	10.9	5.83	532.2	-3.2	343.9	333.0	10.93	31.476		
2,300.0	2,269.9	2,212.5	2,095.3	6.9	11.8	5.67	578.6	-5.2	366.6	355.0	11.57	31.691		
2,400.0	2,366.3	2,309.9	2,180.9	7.4	12.7	5.53	625.1	-7.2	389.2	377.0	12.21	31.871		
2,500.0	2,462.7	2,407.3	2,266.5	7.9	13.6	5.40	671.5	-9.3	411.9	399.0	12.86	32.025		
2,600.0	2,559.1	2,504.7	2,352.1	8.4	14.5	5.28	718.0	-11.3	434.5	421.0	13.51	32.156		
2,700.0	2,655.5	2,602.1	2,437.7	8.9	15.3	5.18	764.4	-13.3	457.2	443.0	14.17	32.268		
2,800.0	2,751.9	2,699.5	2,523.3	9.4	16.2	5.08	810.9	-15.3	479.8	465.0	14.83	32.366		
2,900.0	2,848.3	2,796.9	2,608.8	9.9	17.1	5.00	857.3	-17.4	502.5	487.0	15.48	32.451		
3,000.0	2,944.7	2,894.3	2,694.4	10.5	18.0	4.92	903.8	-19.4	525.1	509.0	16.15	32.525		
3,100.0	3,041.1	2,991.7	2,780.0	11.0	18.9	4.85	950.2	-21.4	547.8	531.0	16.81	32.590		
3,200.0	3,137.5	3,089.1	2,865.6	11.5	19.8	4.78	996.7	-23.4	570.5	553.0	17.47	32.648		
3,300.0	3,233.8	3,186.5	2,951.2	12.0	20.7	4.72	1,043.1	-25.5	593.1	575.0	18.14	32.699		
3,400.0	3,330.2	3,283.9	3,036.8	12.6	21.6	4.67	1,089.6	-27.5	615.8	597.0	18.81	32.745		
3,500.0	3,426.6	3,381.3	3,122.3	13.1	22.5	4.61	1,136.0	-29.5	638.4	619.0	19.47	32.785		
3,600.0	3,523.0	3,478.7	3,207.9	13.6	23.4	4.56	1,182.5	-31.6	661.1	640.9	20.14	32.822		
3,700.0	3,619.4	3,576.1	3,293.5	14.2	24.3	4.52	1,228.9	-33.6	683.7	662.9	20.81	32.854		
3,800.0	3,715.8	3,673.5	3,379.1	14.7	25.2	4.48	1,275.4	-35.6	706.4	684.9	21.48	32.884		
3,900.0	3,812.2	3,770.9	3,464.7	15.2	26.1	4.44	1,321.8	-37.6	729.1	706.9	22.15	32.910		
4,000.0	3,908.6	3,868.3	3,550.3	15.8	27.0	4.40	1,368.3	-39.7	751.7	728.9	22.82	32.935		
4,100.0	4,005.0	3,965.7	3,635.8	16.3	27.9	4.36	1,414.7	-41.7	774.4	750.9	23.50	32.956		
4,200.0	4,101.4	4,063.1	3,721.4	16.8	28.8	4.33	1,461.2	-43.7	797.1	772.9	24.17	32.976		
4,300.0	4,197.8	4,160.5	3,807.0	17.4	29.7	4.30	1,507.6	-45.7	819.7	794.9	24.84	32.995		
4,400.0	4,294.2	4,257.9	3,892.6	17.9	30.6	4.27	1,554.1	-47.8	842.4	816.9	25.52	33.011		
4,500.0	4,390.6	4,355.3	3,978.2	18.4	31.5	4.24	1,600.5	-49.8	865.0	838.8	26.19	33.026		
4,600.0	4,487.0	4,452.7	4,063.8	19.0	32.4	4.21	1,647.0	-51.8	887.7	860.8	26.87	33.040		
4,700.0	4,583.4	4,550.1	4,149.3	19.5	33.3	4.19	1,693.4	-53.8	910.4	882.8	27.54	33.053		
4,800.0	4,679.8	4,647.5	4,234.9	20.0	34.2	4.16	1,739.9	-55.9	933.0	904.8	28.22	33.065		
4,900.0	4,776.2	4,744.9	4,320.5	20.6	35.1	4.14	1,786.3	-57.9	955.7	926.8	28.89	33.076		
5,000.0	4,872.6	4,842.3	4,406.1	21.1	36.0	4.12	1,832.8	-59.9	978.3	948.8	29.57	33.086		
5,100.0	4,969.0	4,939.6	4,491.7	21.7	36.9	4.10	1,879.2	-62.0	1,001.0	970.8	30.25	33.095		
5,171.6	5,038.0	5,009.4	4,552.9	22.0	37.5	4.08	1,912.5	-63.4	1,017.2	986.5	30.73	33.101		
5,200.0	5,065.4	5,037.0	4,577.2	22.2	37.8	4.09	1,925.7	-64.0	1,023.8	992.9	30.89	33.140		
5,300.0	5,162.5	5,133.7	4,662.2	22.6	38.6	4.09	1,971.8	-66.0	1,049.1	1,017.7	31.41	33.406		
5,400.0	5,260.4	5,239.1	4,754.9	22.9	39.6	4.09	2,022.0	-68.2	1,077.7	1,045.8	31.89	33.793		
5,500.0	5,358.9	5,339.9	4,893.4	23.2	40.7	4.06	2,090.9	-71.2	1,106.3	1,073.8	32.46	34.085		
5,600.0	5,458.0	5,552.0	5,038.6	23.5	41.6	4.03	2,153.4	-73.9	1,133.0	1,100.0	32.93	34.403		
5,700.0	5,557.4	5,713.4	5,190.1	23.7	42.5	3.99	2,208.9	-76.3	1,157.6	1,124.3	33.33	34.736		
5,800.0	5,657.2	5,877.9	5,347.5	23.9	43.3	3.96	2,256.6	-78.4	1,180.2	1,146.5	33.63	35.090		
5,900.0	5,757.2	6,045.3	5,510.2	24.0	43.9	3.92	2,295.8	-80.1	1,200.4	1,166.6	33.85	35.467		
5,942.9	5,800.0	6,117.9	5,581.5	24.1	44.2	-0.10	2,309.8	-80.7	1,208.4	1,174.5	33.91	35.635		
6,000.0	5,857.1	6,215.7	5,677.9	24.2	44.5	-0.13	2,325.8	-81.4	1,217.8	1,183.6	34.20	35.608		
6,100.0	5,957.1	6,388.9	5,849.9	24.3	44.8	-0.17	2,346.2	-82.3	1,229.5	1,194.8	34.69	35.446		
6,200.0	6,057.1	6,564.1	6,024.7	24.4	45.1	-0.19	2,356.1	-82.8	1,235.2	1,200.1	35.12	35.168		
6,300.0	6,157.1	6,696.5	6,157.1	24.5	45.2	-0.19	2,357.1	-82.8	1,235.7	1,200.3	35.47	34.836		
6,400.0	6,257.1	6,796.5	6,257.1	24.6	45.2	-0.19	2,357.1	-82.8	1,235.7	1,199.9	35.80	34.522		
6,500.0	6,357.1	6,896.5	6,357.1	24.7	45.3	-0.19	2,357.1	-82.8	1,235.7	1,199.6	36.12	34.210		
6,600.0	6,457.1	6,996.5	6,457.1	24.8	45.4	-0.19	2,357.1	-82.8	1,235.7	1,199.3	36.45	33.902		
6,700.0	6,557.1	7,096.5	6,557.1	25.0	45.4	-0.19	2,357.1	-82.8	1,235.7	1,199.0	36.78	33.597		
6,800.0	6,657.1	7,196.5	6,657.1	25.1	45.5	-0.19	2,357.1	-82.8	1,235.7	1,198.6	37.11	33.296		
6,900.0	6,757.1	7,296.5	6,757.1	25.2	45.6	-0.19	2,357.1	-82.8	1,235.7	1,198.3	37.45	32.997		
7,000.0	6,857.1	7,396.5	6,857.1	25.3	45.6	-0.19	2,357.1	-82.8	1,235.7	1,198.0	37.79	32.703		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company: Synergy Resources
Project: SEC.8-T4N-R67W
Reference Site: Klein 44-8D Pad Sec.8-T4N-R67W
Site Error: 0.0ft
Reference Well: Klein 8PD
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (5-03-11)

Local Co-ordinate Reference: Well Klein 8PD
TVD Reference: WELL @ 4807.0ft (Original Well Elev)
MD Reference: WELL @ 4807.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

Offset Design Klein 44-8D Pad Sec.8-T4N-R67W - Klein 80D - Wellbore #1 - Plan #1 (5-03-11)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance										Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
7,100.0	6,957.1	7,496.5	6,957.1	25.5	45.7	-0.19	2,357.1	-82.8	1,235.7	1,197.6	38.13	32.411		
7,200.0	7,057.1	7,596.5	7,057.1	25.6	45.8	-0.19	2,357.1	-82.8	1,235.7	1,197.3	38.47	32.123		
7,300.0	7,157.1	7,696.5	7,157.1	25.7	45.8	-0.19	2,357.1	-82.8	1,235.7	1,196.9	38.81	31.838		
7,400.0	7,257.1	7,796.5	7,257.1	25.9	45.9	-0.19	2,357.1	-82.8	1,235.7	1,196.6	39.16	31.557		
7,500.0	7,357.1	7,896.5	7,357.1	26.0	46.0	-0.19	2,357.1	-82.8	1,235.7	1,196.2	39.51	31.279		
7,600.0	7,457.1	7,996.5	7,457.1	26.1	46.0	-0.19	2,357.1	-82.8	1,235.7	1,195.9	39.86	31.004		
7,700.0	7,557.1	8,096.5	7,557.1	26.3	46.1	-0.19	2,357.1	-82.8	1,235.7	1,195.5	40.21	30.733		
7,800.0	7,657.1	8,196.5	7,657.1	26.4	46.2	-0.19	2,357.1	-82.8	1,235.7	1,195.2	40.56	30.465		
7,900.0	7,757.1	8,296.5	7,757.1	26.5	46.3	-0.19	2,357.1	-82.8	1,235.7	1,194.8	40.92	30.201		
7,992.9	7,850.0	8,389.3	7,850.0	26.7	46.3	-0.19	2,357.1	-82.8	1,235.7	1,194.5	41.25	29.958		

Company: Synergy Resources
Project: SEC.8-T4N-R67W
Reference Site: Klein 44-8D Pad Sec.8-T4N-R67W
Site Error: 0.0ft
Reference Well: Klein 8PD
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (5-03-11)

Local Co-ordinate Reference: Well Klein 8PD
TVD Reference: WELL @ 4807.0ft (Original Well Elev)
MD Reference: WELL @ 4807.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

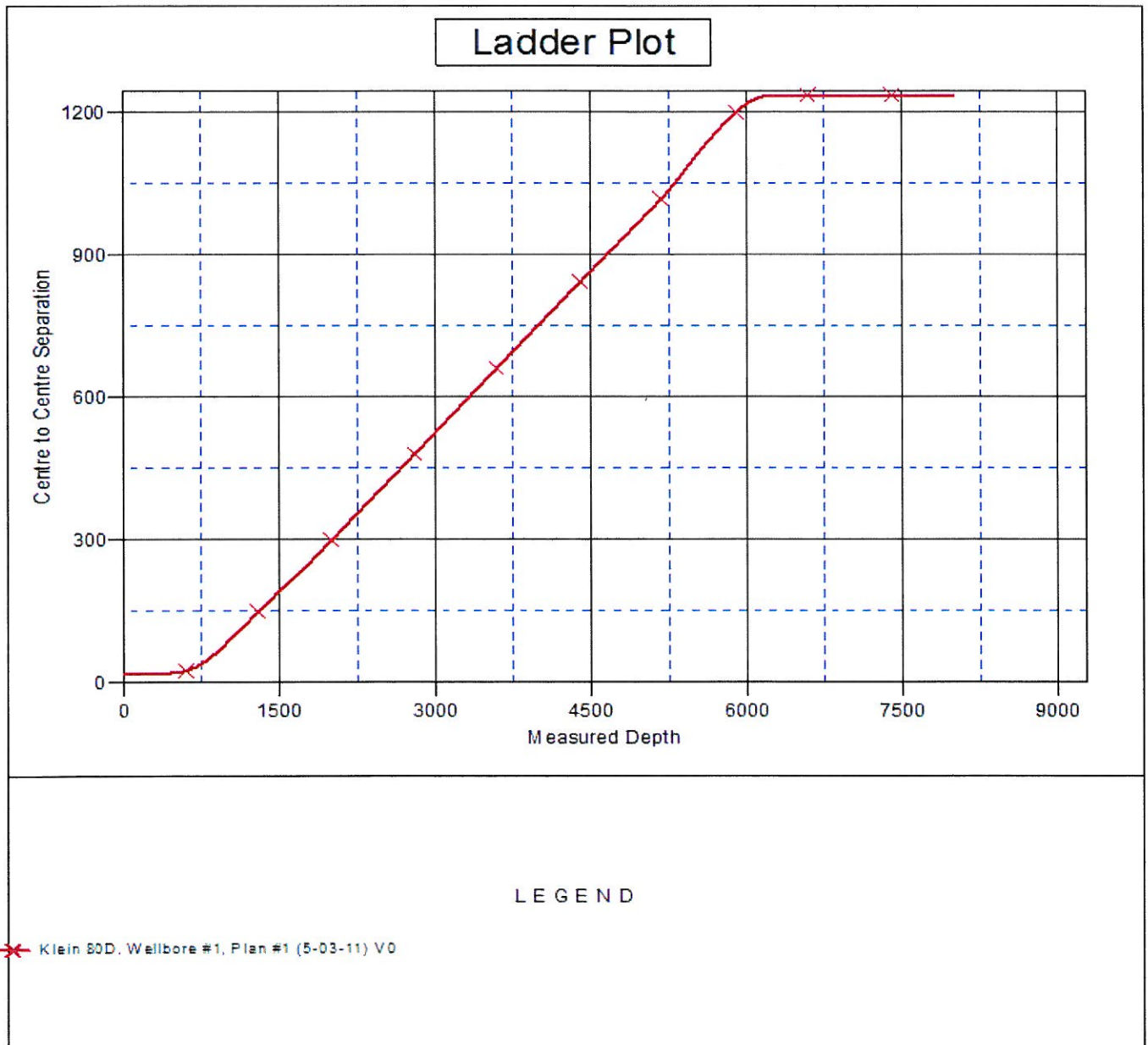
Reference Depths are relative to WELL @ 4807.0ft (Original Well Elev) Coordinates are relative to: Klein 8PD

Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1983, Colorado Northern Zone

Central Meridian is -105.500000 °

Grid Convergence at Surface is: 0.38°



Company: Synergy Resources
Project: SEC.8-T4N-R67W
Reference Site: Klein 44-8D Pad Sec.8-T4N-R67W
Site Error: 0.0ft
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Reference Depths are relative to WELL @ 4807.0ft (Original Well Elev) Coordinates are relative to: Klein 8PD
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.38°

