

Synergy Resources

Well Name: **SRC Wiedeman A-5-3NBHZ**

Surface Location: SRC Wiedeman Pad Sec.5-T5N-R66W

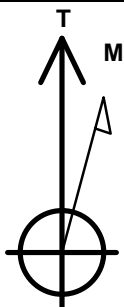
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4783.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1401447.38	3194380.75	40.433274	-104.801720	
RKB -13' WELL @ 4796.0ft (RKB -13')						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 1423'FNL & 2438'FEL, Sec. 5		0.0	0.0	Point
BHL 1311'FNL & 2143'FWL, Sec.3	7223.0	183.1	9940.2	Point



Azimuths to True North
Magnetic North: 8.45°

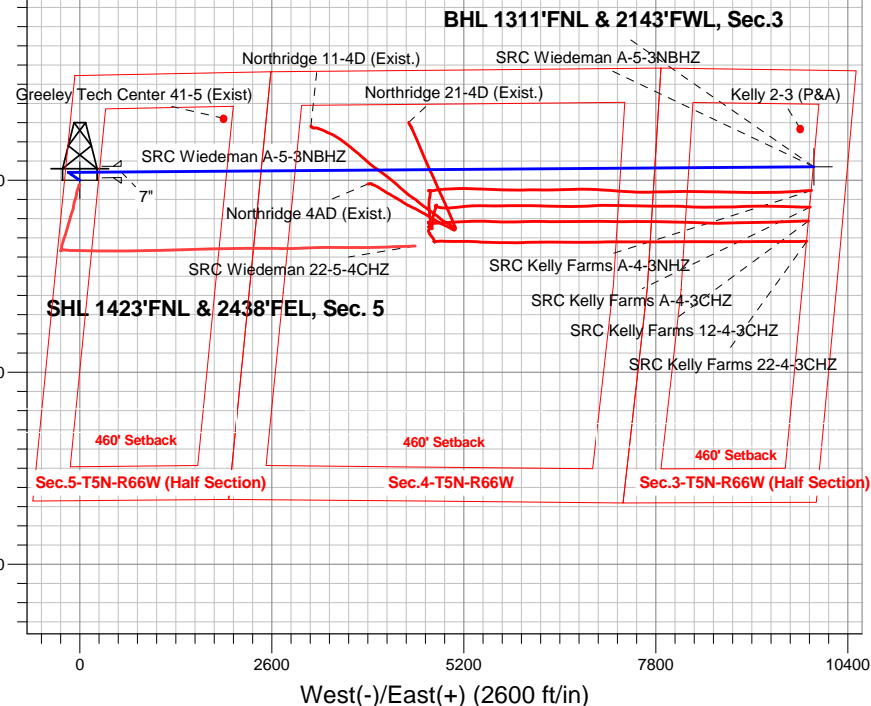
Magnetic Field
Strength: 52800.0snT
Dip Angle: 66.96°
Date: 9/24/2014
Model: IGRF2010

SRC Wiedeman Pad Sec.5-T5N-R66W
SRC Wiedeman A-5-3NBHZ
Plan #3 (9-24-14)
15:00, September 24 2014

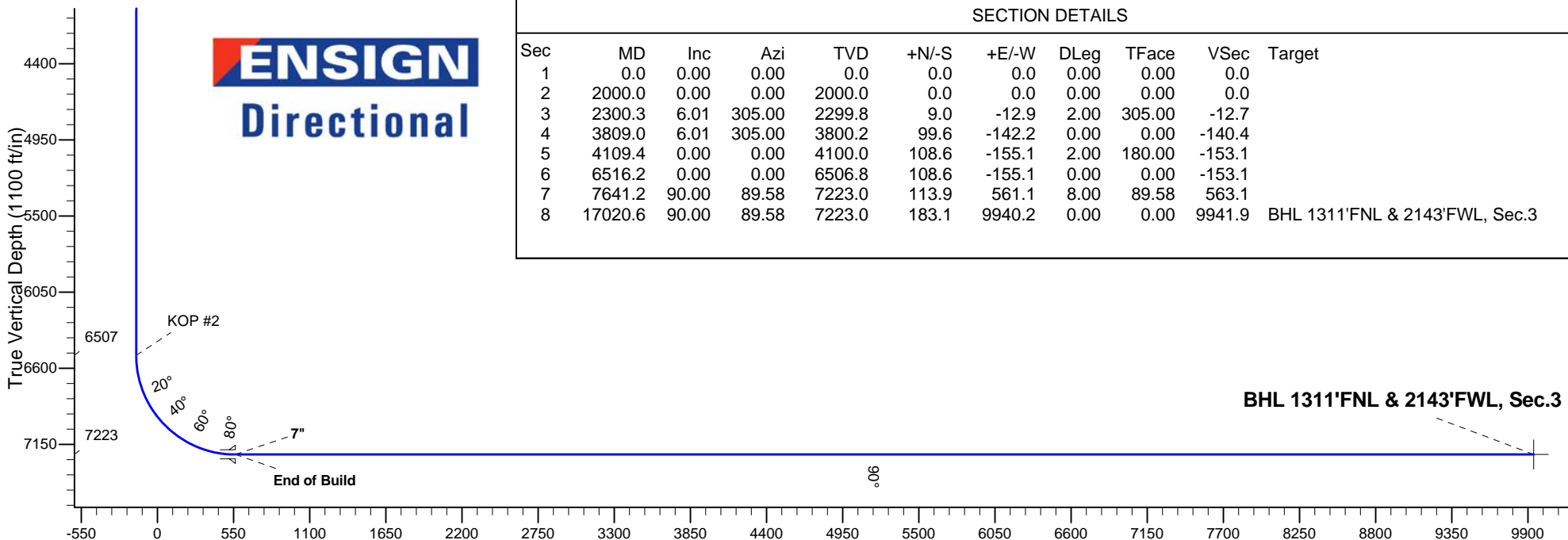
ANNOTATIONS

TVD	MD	Annotation
2000.0	2000.0	KOP #1
6506.8	6516.2	KOP #2
7223.0	7641.2	End of Build

South(-)/North(+) (2600 ft/in)



ENSIGN
Directional



SECTION DETAILS

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	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2300.3	6.01	305.00	2299.8	9.0	-12.9	2.00	305.00	-12.7	
4	3809.0	6.01	305.00	3800.2	99.6	-142.2	0.00	0.00	-140.4	
5	4109.4	0.00	0.00	4100.0	108.6	-155.1	2.00	180.00	-153.1	
6	6516.2	0.00	0.00	6506.8	108.6	-155.1	0.00	0.00	-153.1	
7	7641.2	90.00	89.58	7223.0	113.9	561.1	8.00	89.58	563.1	
8	17020.6	90.00	89.58	7223.0	183.1	9940.2	0.00	0.00	9941.9	BHL 1311'FNL & 2143'FWL, Sec.3

BHL 1311'FNL & 2143'FWL, Sec.3

Vertical Section at 88.94° (1100 ft/in)



Synergy Resources

Sec.5-T5N-R66W

SRC Wiedeman Pad Sec.5-T5N-R66W

SRC Wiedeman A-5-3NBHZ

Wellbore #1

Plan: Plan #3 (9-24-14)

Standard Planning Report

24 September, 2014

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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,300.3	6.01	305.00	2,299.8	9.0	-12.9	2.00	2.00	0.00	305.00	
3,809.0	6.01	305.00	3,800.2	99.6	-142.2	0.00	0.00	0.00	0.00	
4,109.4	0.00	0.00	4,100.0	108.6	-155.1	2.00	-2.00	0.00	180.00	
6,516.2	0.00	0.00	6,506.8	108.6	-155.1	0.00	0.00	0.00	0.00	
7,641.2	90.00	89.58	7,223.0	113.9	561.1	8.00	8.00	0.00	89.58	
17,020.6	90.00	89.58	7,223.0	183.1	9,940.2	0.00	0.00	0.00	0.00	BHL 1311'FNL & 21

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Company:	Synergy Resources	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Project:	Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	North Reference:	True
Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 (9-24-14)		

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
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 1423'FNL & 2438'FEL, Sec. 5									
100.0	0.00	0.00	100.0	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
300.0	0.00	0.00	300.0	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
500.0	0.00	0.00	500.0	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
700.0	0.00	0.00	700.0	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
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP #1									
2,100.0	2.00	305.00	2,100.0	1.0	-1.4	-1.4	2.00	2.00	0.00
2,200.0	4.00	305.00	2,199.8	4.0	-5.7	-5.6	2.00	2.00	0.00
2,300.0	6.00	305.00	2,299.5	9.0	-12.9	-12.7	2.00	2.00	0.00
2,300.3	6.01	305.00	2,299.8	9.0	-12.9	-12.7	2.00	2.00	0.00
2,400.0	6.01	305.00	2,398.9	15.0	-21.4	-21.1	0.00	0.00	0.00
2,500.0	6.01	305.00	2,498.4	21.0	-30.0	-29.6	0.00	0.00	0.00
2,600.0	6.01	305.00	2,597.8	27.0	-38.6	-38.1	0.00	0.00	0.00
2,700.0	6.01	305.00	2,697.3	33.0	-47.1	-46.5	0.00	0.00	0.00
2,800.0	6.01	305.00	2,796.7	39.0	-55.7	-55.0	0.00	0.00	0.00
2,900.0	6.01	305.00	2,896.2	45.0	-64.3	-63.4	0.00	0.00	0.00
3,000.0	6.01	305.00	2,995.6	51.0	-72.9	-71.9	0.00	0.00	0.00
3,100.0	6.01	305.00	3,095.1	57.0	-81.4	-80.4	0.00	0.00	0.00
3,200.0	6.01	305.00	3,194.5	63.0	-90.0	-88.8	0.00	0.00	0.00
3,300.0	6.01	305.00	3,294.0	69.0	-98.6	-97.3	0.00	0.00	0.00
3,400.0	6.01	305.00	3,393.4	75.0	-107.2	-105.8	0.00	0.00	0.00
3,500.0	6.01	305.00	3,492.9	81.0	-115.7	-114.2	0.00	0.00	0.00
3,600.0	6.01	305.00	3,592.3	87.0	-124.3	-122.7	0.00	0.00	0.00
3,700.0	6.01	305.00	3,691.8	93.0	-132.9	-131.1	0.00	0.00	0.00
3,800.0	6.01	305.00	3,791.2	99.0	-141.4	-139.6	0.00	0.00	0.00
3,809.0	6.01	305.00	3,800.2	99.6	-142.2	-140.4	0.00	0.00	0.00
3,900.0	4.19	305.00	3,890.8	104.2	-148.8	-146.9	2.00	-2.00	0.00
4,000.0	2.19	305.00	3,990.6	107.4	-153.4	-151.4	2.00	-2.00	0.00
4,100.0	0.19	305.00	4,090.6	108.6	-155.1	-153.1	2.00	-2.00	0.00
4,109.4	0.00	0.00	4,100.0	108.6	-155.1	-153.1	2.00	-2.00	0.00
4,200.0	0.00	0.00	4,190.6	108.6	-155.1	-153.1	0.00	0.00	0.00
4,300.0	0.00	0.00	4,290.6	108.6	-155.1	-153.1	0.00	0.00	0.00
4,400.0	0.00	0.00	4,390.6	108.6	-155.1	-153.1	0.00	0.00	0.00
4,500.0	0.00	0.00	4,490.6	108.6	-155.1	-153.1	0.00	0.00	0.00
4,600.0	0.00	0.00	4,590.6	108.6	-155.1	-153.1	0.00	0.00	0.00
4,700.0	0.00	0.00	4,690.6	108.6	-155.1	-153.1	0.00	0.00	0.00

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Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	North Reference:	True
Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 (9-24-14)		

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)
4,800.0	0.00	0.00	4,790.6	108.6	-155.1	-153.1	0.00	0.00	0.00
4,900.0	0.00	0.00	4,890.6	108.6	-155.1	-153.1	0.00	0.00	0.00
5,000.0	0.00	0.00	4,990.6	108.6	-155.1	-153.1	0.00	0.00	0.00
5,100.0	0.00	0.00	5,090.6	108.6	-155.1	-153.1	0.00	0.00	0.00
5,200.0	0.00	0.00	5,190.6	108.6	-155.1	-153.1	0.00	0.00	0.00
5,300.0	0.00	0.00	5,290.6	108.6	-155.1	-153.1	0.00	0.00	0.00
5,400.0	0.00	0.00	5,390.6	108.6	-155.1	-153.1	0.00	0.00	0.00
5,500.0	0.00	0.00	5,490.6	108.6	-155.1	-153.1	0.00	0.00	0.00
5,600.0	0.00	0.00	5,590.6	108.6	-155.1	-153.1	0.00	0.00	0.00
5,700.0	0.00	0.00	5,690.6	108.6	-155.1	-153.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,790.6	108.6	-155.1	-153.1	0.00	0.00	0.00
5,900.0	0.00	0.00	5,890.6	108.6	-155.1	-153.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,990.6	108.6	-155.1	-153.1	0.00	0.00	0.00
6,100.0	0.00	0.00	6,090.6	108.6	-155.1	-153.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,190.6	108.6	-155.1	-153.1	0.00	0.00	0.00
6,300.0	0.00	0.00	6,290.6	108.6	-155.1	-153.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,390.6	108.6	-155.1	-153.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,490.6	108.6	-155.1	-153.1	0.00	0.00	0.00
6,516.2	0.00	0.00	6,506.8	108.6	-155.1	-153.1	0.00	0.00	0.00
KOP #2									
6,600.0	6.71	89.58	6,590.4	108.6	-150.2	-148.2	8.00	8.00	0.00
6,700.0	14.71	89.58	6,688.6	108.8	-131.6	-129.6	8.00	8.00	0.00
6,800.0	22.71	89.58	6,783.2	109.0	-99.6	-97.6	8.00	8.00	0.00
6,900.0	30.71	89.58	6,872.5	109.3	-54.7	-52.7	8.00	8.00	0.00
7,000.0	38.71	89.58	6,954.6	109.8	2.2	4.2	8.00	8.00	0.00
7,100.0	46.71	89.58	7,028.1	110.3	70.0	72.0	8.00	8.00	0.00
7,200.0	54.71	89.58	7,091.4	110.8	147.3	149.3	8.00	8.00	0.00
7,300.0	62.71	89.58	7,143.3	111.5	232.7	234.7	8.00	8.00	0.00
7,400.0	70.71	89.58	7,182.8	112.1	324.4	326.4	8.00	8.00	0.00
7,500.0	78.71	89.58	7,209.1	112.8	420.8	422.8	8.00	8.00	0.00
7,600.0	86.71	89.58	7,221.8	113.6	519.9	521.9	8.00	8.00	0.00
7,641.2	90.00	89.58	7,223.0	113.9	561.1	563.1	8.00	8.00	0.00
End of Build - 7"									
7,700.0	90.00	89.58	7,223.0	114.3	619.9	621.9	0.00	0.00	0.00
7,800.0	90.00	89.58	7,223.0	115.1	719.9	721.9	0.00	0.00	0.00
7,900.0	90.00	89.58	7,223.0	115.8	819.9	821.9	0.00	0.00	0.00
8,000.0	90.00	89.58	7,223.0	116.5	919.9	921.9	0.00	0.00	0.00
8,100.0	90.00	89.58	7,223.0	117.3	1,019.9	1,021.9	0.00	0.00	0.00
8,200.0	90.00	89.58	7,223.0	118.0	1,119.9	1,121.9	0.00	0.00	0.00
8,300.0	90.00	89.58	7,223.0	118.7	1,219.9	1,221.9	0.00	0.00	0.00
8,400.0	90.00	89.58	7,223.0	119.5	1,319.9	1,321.8	0.00	0.00	0.00
8,500.0	90.00	89.58	7,223.0	120.2	1,419.9	1,421.8	0.00	0.00	0.00
8,600.0	90.00	89.58	7,223.0	121.0	1,519.9	1,521.8	0.00	0.00	0.00
8,700.0	90.00	89.58	7,223.0	121.7	1,619.9	1,621.8	0.00	0.00	0.00
8,800.0	90.00	89.58	7,223.0	122.4	1,719.9	1,721.8	0.00	0.00	0.00
8,900.0	90.00	89.58	7,223.0	123.2	1,819.9	1,821.8	0.00	0.00	0.00
9,000.0	90.00	89.58	7,223.0	123.9	1,919.9	1,921.8	0.00	0.00	0.00
9,100.0	90.00	89.58	7,223.0	124.6	2,019.9	2,021.8	0.00	0.00	0.00
9,200.0	90.00	89.58	7,223.0	125.4	2,119.8	2,121.8	0.00	0.00	0.00
9,300.0	90.00	89.58	7,223.0	126.1	2,219.8	2,221.8	0.00	0.00	0.00
9,400.0	90.00	89.58	7,223.0	126.9	2,319.8	2,321.8	0.00	0.00	0.00
9,500.0	90.00	89.58	7,223.0	127.6	2,419.8	2,421.8	0.00	0.00	0.00
9,600.0	90.00	89.58	7,223.0	128.3	2,519.8	2,521.8	0.00	0.00	0.00
9,700.0	90.00	89.58	7,223.0	129.1	2,619.8	2,621.8	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Company:	Synergy Resources	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Project:	Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	North Reference:	True
Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 (9-24-14)		

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)
9,800.0	90.00	89.58	7,223.0	129.8	2,719.8	2,721.8	0.00	0.00	0.00
9,900.0	90.00	89.58	7,223.0	130.5	2,819.8	2,821.8	0.00	0.00	0.00
10,000.0	90.00	89.58	7,223.0	131.3	2,919.8	2,921.8	0.00	0.00	0.00
10,100.0	90.00	89.58	7,223.0	132.0	3,019.8	3,021.7	0.00	0.00	0.00
10,200.0	90.00	89.58	7,223.0	132.8	3,119.8	3,121.7	0.00	0.00	0.00
10,300.0	90.00	89.58	7,223.0	133.5	3,219.8	3,221.7	0.00	0.00	0.00
10,400.0	90.00	89.58	7,223.0	134.2	3,319.8	3,321.7	0.00	0.00	0.00
10,500.0	90.00	89.58	7,223.0	135.0	3,419.8	3,421.7	0.00	0.00	0.00
10,600.0	90.00	89.58	7,223.0	135.7	3,519.8	3,521.7	0.00	0.00	0.00
10,700.0	90.00	89.58	7,223.0	136.4	3,619.8	3,621.7	0.00	0.00	0.00
10,800.0	90.00	89.58	7,223.0	137.2	3,719.8	3,721.7	0.00	0.00	0.00
10,900.0	90.00	89.58	7,223.0	137.9	3,819.8	3,821.7	0.00	0.00	0.00
11,000.0	90.00	89.58	7,223.0	138.7	3,919.8	3,921.7	0.00	0.00	0.00
11,100.0	90.00	89.58	7,223.0	139.4	4,019.8	4,021.7	0.00	0.00	0.00
11,200.0	90.00	89.58	7,223.0	140.1	4,119.8	4,121.7	0.00	0.00	0.00
11,300.0	90.00	89.58	7,223.0	140.9	4,219.8	4,221.7	0.00	0.00	0.00
11,400.0	90.00	89.58	7,223.0	141.6	4,319.8	4,321.7	0.00	0.00	0.00
11,500.0	90.00	89.58	7,223.0	142.3	4,419.8	4,421.7	0.00	0.00	0.00
11,600.0	90.00	89.58	7,223.0	143.1	4,519.8	4,521.7	0.00	0.00	0.00
11,700.0	90.00	89.58	7,223.0	143.8	4,619.8	4,621.6	0.00	0.00	0.00
11,800.0	90.00	89.58	7,223.0	144.6	4,719.8	4,721.6	0.00	0.00	0.00
11,900.0	90.00	89.58	7,223.0	145.3	4,819.8	4,821.6	0.00	0.00	0.00
12,000.0	90.00	89.58	7,223.0	146.0	4,919.8	4,921.6	0.00	0.00	0.00
12,100.0	90.00	89.58	7,223.0	146.8	5,019.8	5,021.6	0.00	0.00	0.00
12,200.0	90.00	89.58	7,223.0	147.5	5,119.8	5,121.6	0.00	0.00	0.00
12,300.0	90.00	89.58	7,223.0	148.3	5,219.8	5,221.6	0.00	0.00	0.00
12,400.0	90.00	89.58	7,223.0	149.0	5,319.8	5,321.6	0.00	0.00	0.00
12,500.0	90.00	89.58	7,223.0	149.7	5,419.8	5,421.6	0.00	0.00	0.00
12,600.0	90.00	89.58	7,223.0	150.5	5,519.8	5,521.6	0.00	0.00	0.00
12,700.0	90.00	89.58	7,223.0	151.2	5,619.8	5,621.6	0.00	0.00	0.00
12,800.0	90.00	89.58	7,223.0	151.9	5,719.8	5,721.6	0.00	0.00	0.00
12,900.0	90.00	89.58	7,223.0	152.7	5,819.7	5,821.6	0.00	0.00	0.00
13,000.0	90.00	89.58	7,223.0	153.4	5,919.7	5,921.6	0.00	0.00	0.00
13,100.0	90.00	89.58	7,223.0	154.2	6,019.7	6,021.6	0.00	0.00	0.00
13,200.0	90.00	89.58	7,223.0	154.9	6,119.7	6,121.6	0.00	0.00	0.00
13,300.0	90.00	89.58	7,223.0	155.6	6,219.7	6,221.5	0.00	0.00	0.00
13,400.0	90.00	89.58	7,223.0	156.4	6,319.7	6,321.5	0.00	0.00	0.00
13,500.0	90.00	89.58	7,223.0	157.1	6,419.7	6,421.5	0.00	0.00	0.00
13,600.0	90.00	89.58	7,223.0	157.8	6,519.7	6,521.5	0.00	0.00	0.00
13,700.0	90.00	89.58	7,223.0	158.6	6,619.7	6,621.5	0.00	0.00	0.00
13,800.0	90.00	89.58	7,223.0	159.3	6,719.7	6,721.5	0.00	0.00	0.00
13,900.0	90.00	89.58	7,223.0	160.1	6,819.7	6,821.5	0.00	0.00	0.00
14,000.0	90.00	89.58	7,223.0	160.8	6,919.7	6,921.5	0.00	0.00	0.00
14,100.0	90.00	89.58	7,223.0	161.5	7,019.7	7,021.5	0.00	0.00	0.00
14,200.0	90.00	89.58	7,223.0	162.3	7,119.7	7,121.5	0.00	0.00	0.00
14,300.0	90.00	89.58	7,223.0	163.0	7,219.7	7,221.5	0.00	0.00	0.00
14,400.0	90.00	89.58	7,223.0	163.7	7,319.7	7,321.5	0.00	0.00	0.00
14,500.0	90.00	89.58	7,223.0	164.5	7,419.7	7,421.5	0.00	0.00	0.00
14,600.0	90.00	89.58	7,223.0	165.2	7,519.7	7,521.5	0.00	0.00	0.00
14,700.0	90.00	89.58	7,223.0	166.0	7,619.7	7,621.5	0.00	0.00	0.00
14,800.0	90.00	89.58	7,223.0	166.7	7,719.7	7,721.5	0.00	0.00	0.00
14,900.0	90.00	89.58	7,223.0	167.4	7,819.7	7,821.5	0.00	0.00	0.00
15,000.0	90.00	89.58	7,223.0	168.2	7,919.7	7,921.4	0.00	0.00	0.00
15,100.0	90.00	89.58	7,223.0	168.9	8,019.7	8,021.4	0.00	0.00	0.00

Plan Annotations					
	Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
			+N/-S	+E/-W	
			(ft)	(ft)	
	2,000.0	2,000.0	0.0	0.0	KOP #1
	6,516.2	6,506.8	108.6	-155.1	KOP #2
	7,641.2	7,223.0	113.9	561.1	End of Build



Synergy Resources

Sec.5-T5N-R66W

SRC Wiedeman Pad Sec.5-T5N-R66W

SRC Wiedeman A-5-3NBHZ

Wellbore #1

Plan #3 (9-24-14)

Anticollision Report

24 September, 2014

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

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						
SRC Wiedeman Pad Sec.5-T5N-R66W						
SRC Wiedeman 11-5-3NCHZ - Wellbore #1 - Plan #3 (9-	1,500.0	1,500.0	15.0	8.5	2.301	CC
SRC Wiedeman 11-5-3NCHZ - Wellbore #1 - Plan #3 (9-	17,020.6	16,838.2	278.0	-174.6	0.614	Level 1, ES, SF
SRC Wiedeman 12-5-4CHZ - Wellbore #1 - Plan #3 (9-2	1,400.0	1,400.0	15.0	9.0	2.477	CC, ES
SRC Wiedeman 12-5-4CHZ - Wellbore #1 - Plan #3 (9-2	11,708.4	11,584.3	359.0	125.1	1.535	SF
SRC Wiedeman 12-5-4NCHZ - Wellbore #1 - Plan #3 (9-	1,000.0	1,000.0	30.0	25.8	7.032	CC, ES
SRC Wiedeman 12-5-4NCHZ - Wellbore #1 - Plan #3 (9-	11,700.0	11,770.2	536.5	274.6	2.048	SF
SRC Wiedeman 21-5-3CHZ - Wellbore #1 - Plan #2 (9-2	500.0	500.0	45.0	43.0	22.259	CC, ES
SRC Wiedeman 21-5-3CHZ - Wellbore #1 - Plan #2 (9-2	17,020.6	16,823.0	710.6	166.7	1.307	Level 3, SF
SRC Wiedeman 21-5-3NBHZ - Wellbore #1 - Plan #3 (9-	1,000.0	1,000.0	30.0	25.7	7.025	CC
SRC Wiedeman 21-5-3NBHZ - Wellbore #1 - Plan #3 (9-	17,020.6	17,002.1	439.4	-119.3	0.787	Level 1, ES, SF
SRC Wiedeman 22-5-4CHZ - Wellbore #1 - Wellbore #1	0.0	0.0	60.0			
SRC Wiedeman 22-5-4CHZ - Wellbore #1 - Wellbore #1	800.0	789.6	93.8	90.4	27.329	SF
SRC Wiedeman 22-5-4NBHZ - Wellbore #1 - Plan #3 (9	800.0	800.0	45.0	41.7	13.358	CC, ES
SRC Wiedeman 22-5-4NBHZ - Wellbore #1 - Plan #3 (9	11,700.0	11,630.6	825.6	566.7	3.189	SF

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 7811-UNKNOWN												Offset Well Error:	0.0 ft
Existing Wells - Sec.4-T5N-R66W - Greeley Tech Center 41-5 (Exist) - Wellbore #1 - Wellbore #1													
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8,400.0	7,223.0	2,427.0	2,427.0	40.8	48.5	-90.00	841.3	1,945.0	954.9	865.5	89.35	10.687	
8,500.0	7,223.0	2,427.0	2,427.0	43.4	48.5	-90.00	841.3	1,945.0	892.0	800.1	91.94	9.703	
8,600.0	7,223.0	2,427.0	2,427.0	46.0	48.5	-90.00	841.3	1,945.0	836.4	741.9	94.55	8.847	
8,700.0	7,223.0	2,427.0	2,427.0	48.6	48.5	-90.00	841.3	1,945.0	789.6	692.5	97.18	8.126	
8,800.0	7,223.0	2,427.0	2,427.0	51.3	48.5	-90.00	841.3	1,945.0	753.3	653.5	99.83	7.546	
8,900.0	7,223.0	2,427.0	2,427.0	54.0	48.5	-90.00	841.3	1,945.0	728.9	626.4	102.50	7.112	
9,000.0	7,223.0	2,427.0	2,427.0	56.6	48.5	-90.00	841.3	1,945.0	717.8	612.6	105.18	6.825	
9,030.4	7,223.0	2,427.0	2,427.0	57.5	48.5	-90.00	841.3	1,945.0	717.2	611.2	106.00	6.766	CC, ES
9,100.0	7,223.0	2,427.0	2,427.0	59.3	48.5	-90.00	841.3	1,945.0	720.5	612.7	107.87	6.680	
9,200.0	7,223.0	2,427.0	2,427.0	62.0	48.5	-90.00	841.3	1,945.0	736.9	626.4	110.57	6.665	SF
9,300.0	7,223.0	2,427.0	2,427.0	64.7	48.5	-90.00	841.3	1,945.0	766.2	652.9	113.28	6.763	
9,400.0	7,223.0	2,427.0	2,427.0	67.5	48.5	-90.00	841.3	1,945.0	806.8	690.8	116.00	6.955	
9,500.0	7,223.0	2,427.0	2,427.0	70.2	48.5	-90.00	841.3	1,945.0	857.2	738.5	118.73	7.220	
9,600.0	7,223.0	2,427.0	2,427.0	72.9	48.5	-90.00	841.3	1,945.0	915.8	794.4	121.46	7.540	
9,700.0	7,223.0	2,427.0	2,427.0	75.7	48.5	-90.00	841.3	1,945.0	981.1	856.9	124.20	7.900	

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Existing Wells - Sec.4-T5N-R66W - Kelly 1-3 (P&A) - Wellbore #1 - Wellbore #1												Offset Well Error:	0.0 ft
Survey Program: 7356-UNKNOWN													
Reference		Offset		Semi Major Axis			Distance						
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	Warning
15,100.0	7,223.0	2,427.0	2,427.0	226.0	48.5	90.00	-738.1	8,440.3	999.8	725.2	274.58	3.641	
15,200.0	7,223.0	2,427.0	2,427.0	228.8	48.5	90.00	-738.1	8,440.3	962.7	685.3	277.38	3.471	
15,300.0	7,223.0	2,427.0	2,427.0	231.6	48.5	90.00	-738.1	8,440.3	934.9	654.7	280.18	3.337	
15,400.0	7,223.0	2,427.0	2,427.0	234.4	48.5	90.00	-738.1	8,440.3	917.2	634.2	282.98	3.241	
15,500.0	7,223.0	2,427.0	2,427.0	237.2	48.5	90.00	-738.1	8,440.3	910.2	624.4	285.78	3.185	
15,513.9	7,223.0	2,427.0	2,427.0	237.6	48.5	90.00	-738.1	8,440.3	910.1	623.9	286.17	3.180 CC, ES	
15,600.0	7,223.0	2,427.0	2,427.0	240.0	48.5	90.00	-738.1	8,440.3	914.2	625.6	288.58	3.168 SF	
15,700.0	7,223.0	2,427.0	2,427.0	242.8	48.5	90.00	-738.1	8,440.3	928.9	637.5	291.38	3.188	
15,800.0	7,223.0	2,427.0	2,427.0	245.6	48.5	90.00	-738.1	8,440.3	954.0	659.8	294.18	3.243	
15,900.0	7,223.0	2,427.0	2,427.0	248.4	48.5	90.00	-738.1	8,440.3	988.6	691.6	296.98	3.329	

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Existing Wells - Sec.4-T5N-R66W - Kelly 2-3 (P&A) - Wellbore #1 - Wellbore #1													Offset Well Error:	0.0 ft
Survey Program: 7403-UNKNOWN														
Reference		Offset		Semi Major Axis			Distance							
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	Warning	
16,000.0	7,223.0	2,427.0	2,427.0	251.2	48.5	-90.00	701.4	9,756.6	988.4	688.6	299.78	3.297		
16,100.0	7,223.0	2,427.0	2,427.0	254.0	48.5	-90.00	701.4	9,756.6	904.9	602.3	302.58	2.990		
16,200.0	7,223.0	2,427.0	2,427.0	256.8	48.5	-90.00	701.4	9,756.6	825.0	519.6	305.39	2.702		
16,300.0	7,223.0	2,427.0	2,427.0	259.6	48.5	-90.00	701.4	9,756.6	750.0	441.8	308.19	2.434		
16,400.0	7,223.0	2,427.0	2,427.0	262.5	48.5	-90.00	701.4	9,756.6	681.4	370.4	310.99	2.191		
16,500.0	7,223.0	2,427.0	2,427.0	265.3	48.5	-90.00	701.4	9,756.6	621.4	307.6	313.79	1.980		
16,600.0	7,223.0	2,427.0	2,427.0	268.1	48.5	-90.00	701.4	9,756.6	572.7	256.1	316.59	1.809		
16,700.0	7,223.0	2,427.0	2,427.0	270.9	48.5	-90.00	701.4	9,756.6	538.4	219.0	319.39	1.686		
16,800.0	7,223.0	2,427.0	2,427.0	273.7	48.5	-90.00	701.4	9,756.6	521.3	199.1	322.20	1.618		
16,840.8	7,223.0	2,427.0	2,427.0	274.8	48.5	-90.00	701.4	9,756.6	519.7	196.3	323.34	1.607 CC, ES, SF		
16,900.0	7,223.0	2,427.0	2,427.0	276.5	48.5	-90.00	701.4	9,756.6	523.0	198.1	325.00	1.609		
17,000.0	7,223.0	2,427.0	2,427.0	279.3	48.5	-90.00	701.4	9,756.6	543.5	215.7	327.80	1.658		
17,020.6	7,223.0	2,427.0	2,427.0	279.8	48.5	-90.00	701.4	9,756.6	549.9	221.5	328.38	1.675		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design Northridge Pad Sec.4-T5N-R66W - Northridge 11-4D (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 147-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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	Warning
9,500.0	7,223.0	7,706.8	7,187.4	70.2	49.4	-90.71	729.4	3,133.6	933.6	821.5	112.14	8.325	
9,600.0	7,223.0	7,704.6	7,185.2	72.9	49.4	-90.50	729.3	3,133.7	859.1	744.2	114.89	7.478	
9,700.0	7,223.0	7,702.4	7,182.9	75.7	49.4	-90.28	729.3	3,133.7	790.2	672.5	117.63	6.717	
9,800.0	7,223.0	7,700.1	7,180.6	78.4	49.4	-90.06	729.2	3,133.8	728.5	608.1	120.39	6.051	
9,900.0	7,223.0	7,697.7	7,178.3	81.2	49.4	-89.84	729.2	3,133.8	676.0	552.9	123.14	5.490	
10,000.0	7,223.0	7,695.4	7,175.9	83.9	49.4	-89.61	729.2	3,133.9	635.1	509.2	125.90	5.044	
10,100.0	7,223.0	7,693.0	7,173.6	86.7	49.4	-89.38	729.1	3,134.0	608.0	479.3	128.66	4.725	
10,200.0	7,223.0	7,690.5	7,171.1	89.4	49.4	-89.15	729.1	3,134.0	596.6	465.2	131.42	4.540	
10,218.6	7,223.0	7,690.1	7,170.7	89.9	49.4	-89.10	729.1	3,134.0	596.3	464.4	131.93	4.520 CC, ES	
10,300.0	7,223.0	7,688.1	7,168.6	92.2	49.4	-88.91	729.1	3,134.1	601.8	467.6	134.18	4.485 SF	
10,400.0	7,223.0	7,685.5	7,166.1	94.9	49.4	-88.67	729.0	3,134.1	623.3	486.3	136.94	4.551	
10,500.0	7,223.0	7,683.0	7,163.6	97.7	49.4	-88.42	729.0	3,134.2	659.3	519.6	139.70	4.720	
10,600.0	7,223.0	7,680.4	7,161.0	100.5	49.4	-88.17	728.9	3,134.3	707.8	565.3	142.46	4.968	
10,700.0	7,223.0	7,677.7	7,158.3	103.2	49.4	-87.92	728.9	3,134.3	766.3	621.0	145.22	5.277	
10,800.0	7,223.0	7,675.0	7,155.6	106.0	49.4	-87.66	728.9	3,134.4	832.7	684.7	147.97	5.627	
10,900.0	7,223.0	7,672.3	7,152.9	108.8	49.4	-87.39	728.8	3,134.5	905.3	754.6	150.73	6.006	
11,000.0	7,223.0	7,669.5	7,150.1	111.6	49.4	-87.13	728.8	3,134.6	982.7	829.2	153.48	6.403	

Northridge Pad Sec.4-T5N-R66W - Northridge 21-4D (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 150-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
10,800.0	7,223.0	7,383.1	7,155.8	106.0	31.7	-87.80	772.1	4,457.0	973.2	846.2	127.03	7.661	4.269 CC, ES 4.241 SF
10,900.0	7,223.0	7,381.1	7,153.8	108.8	31.7	-87.61	772.0	4,457.0	899.3	769.5	129.79	6.929	
11,000.0	7,223.0	7,379.0	7,151.7	111.6	31.7	-87.42	771.8	4,457.1	830.9	698.3	132.56	6.268	
11,100.0	7,223.0	7,376.9	7,149.5	114.3	31.7	-87.23	771.7	4,457.1	769.4	634.1	135.32	5.686	
11,200.0	7,223.0	7,374.6	7,147.3	117.1	31.7	-87.02	771.6	4,457.2	716.7	578.6	138.08	5.190	
11,300.0	7,223.0	7,372.4	7,145.0	119.9	31.7	-86.82	771.4	4,457.2	674.7	533.8	140.84	4.790	
11,400.0	7,223.0	7,370.0	7,142.7	122.7	31.7	-86.60	771.3	4,457.3	645.6	502.0	143.60	4.496	
11,500.0	7,223.0	7,367.5	7,140.2	125.5	31.7	-86.38	771.1	4,457.3	631.1	484.8	146.36	4.312	
11,542.2	7,223.0	7,366.5	7,139.2	126.6	31.7	-86.28	771.0	4,457.4	629.7	482.2	147.52		
11,600.0	7,223.0	7,365.0	7,137.7	128.2	31.7	-86.15	770.9	4,457.4	632.4	483.3	149.11		
11,700.0	7,223.0	7,362.4	7,135.1	131.0	31.6	-85.91	770.8	4,457.5	649.2	497.3	151.86	4.275	
11,800.0	7,223.0	7,361.0	7,133.7	133.8	31.6	-85.78	770.7	4,457.5	680.4	525.8	154.62	4.401	
11,900.0	7,223.0	7,357.5	7,130.2	136.6	31.6	-85.47	770.5	4,457.6	724.2	566.9	157.35	4.602	
12,000.0	7,223.0	7,355.1	7,127.8	139.4	31.6	-85.25	770.3	4,457.6	778.5	618.4	160.10	4.862	
12,100.0	7,223.0	7,352.7	7,125.4	142.2	31.6	-85.03	770.1	4,457.7	841.1	678.3	162.84	5.165	
12,200.0	7,223.0	7,350.2	7,123.0	145.0	31.6	-84.80	770.0	4,457.8	910.5	744.9	165.57	5.499	
12,300.0	7,223.0	7,347.7	7,120.5	147.8	31.6	-84.58	769.8	4,457.8	985.1	816.8	168.30	5.853	

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design Northridge Pad Sec.4-T5N-R66W - Northridge 4AD (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 182-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	
10,100.0	7,223.0	7,382.3	7,192.5	86.7	28.9	93.79	-50.8	3,903.7	902.6	789.4	113.27	7.969	
10,200.0	7,223.0	7,381.1	7,191.3	89.4	28.9	93.42	-50.8	3,903.7	805.1	689.1	116.05	6.938	
10,300.0	7,223.0	7,379.9	7,190.1	92.2	28.9	93.06	-50.8	3,903.7	708.3	589.5	118.84	5.960	
10,400.0	7,223.0	7,378.7	7,188.9	94.9	28.9	92.70	-50.8	3,903.7	612.6	490.9	121.62	5.037	
10,500.0	7,223.0	7,377.5	7,187.7	97.7	28.9	92.33	-50.8	3,903.7	518.4	394.0	124.41	4.167	
10,600.0	7,223.0	7,376.3	7,186.5	100.5	28.9	91.97	-50.8	3,903.7	426.9	299.7	127.19	3.356	
10,700.0	7,223.0	7,375.1	7,185.3	103.2	28.9	91.61	-50.8	3,903.7	340.2	210.2	129.97	2.617	
10,800.0	7,223.0	7,373.9	7,184.1	106.0	28.9	91.24	-50.8	3,903.8	263.1	130.3	132.75	1.982	
10,900.0	7,223.0	7,372.7	7,182.9	108.8	28.9	90.88	-50.9	3,903.8	206.6	71.1	135.53	1.525	
10,982.5	7,223.0	7,371.7	7,181.9	111.1	28.9	90.58	-50.9	3,903.8	189.4	51.6	137.82	1.374 Level 3, CC, ES, SF	
11,000.0	7,223.0	7,371.5	7,181.7	111.6	28.9	90.52	-50.9	3,903.8	190.2	51.9	138.31	1.375 Level 3	
11,100.0	7,223.0	7,370.2	7,180.5	114.3	28.9	90.15	-50.9	3,903.8	222.8	81.8	141.08	1.580	
11,200.0	7,223.0	7,369.0	7,179.3	117.1	28.9	89.79	-50.9	3,903.8	288.3	144.5	143.84	2.005	
11,300.0	7,223.0	7,367.8	7,178.1	119.9	28.9	89.42	-50.9	3,903.8	369.6	223.0	146.61	2.521	
11,400.0	7,223.0	7,366.6	7,176.9	122.7	28.9	89.06	-50.9	3,903.8	458.4	309.0	149.37	3.069	
11,500.0	7,223.0	7,365.4	7,175.7	125.5	28.9	88.70	-50.9	3,903.9	551.0	398.8	152.12	3.622	
11,600.0	7,223.0	7,364.2	7,174.5	128.2	28.9	88.33	-50.9	3,903.9	645.8	490.9	154.87	4.170	
11,700.0	7,223.0	7,363.0	7,173.3	131.0	28.9	87.97	-51.0	3,903.9	741.9	584.3	157.61	4.707	
11,800.0	7,223.0	7,361.8	7,172.1	133.8	28.9	87.61	-51.0	3,903.9	839.0	678.7	160.35	5.232	
11,900.0	7,223.0	7,360.6	7,170.9	136.6	28.9	87.24	-51.0	3,903.9	936.7	773.6	163.08	5.744	

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 169-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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	Warning
11,400.0	7,223.0	6,907.0	6,878.3	122.7	14.5	66.57	-577.0	4,866.6	955.8	829.1	126.63	7.548	
11,500.0	7,223.0	6,933.3	6,900.2	125.5	14.6	68.02	-576.0	4,881.2	902.1	771.6	130.54	6.910	
11,600.0	7,223.0	6,966.0	6,926.4	128.2	14.7	69.81	-574.9	4,900.7	854.9	720.2	134.72	6.346	
11,700.0	7,223.0	7,001.3	6,953.5	131.0	14.9	71.70	-573.8	4,923.3	814.7	675.7	138.98	5.862	
11,800.0	7,223.0	7,055.0	6,991.8	133.8	15.2	74.46	-571.9	4,960.8	781.8	638.0	143.84	5.435	
11,900.0	7,223.0	7,101.7	7,022.1	136.6	15.6	76.69	-569.9	4,996.3	755.9	607.6	148.25	5.099	
12,000.0	7,223.0	7,166.3	7,058.6	139.4	16.1	79.44	-566.3	5,049.4	736.1	583.1	152.96	4.812	
12,100.0	7,223.0	7,233.0	7,092.2	142.2	16.9	82.05	-563.2	5,106.9	722.1	564.6	157.50	4.585	
12,200.0	7,223.0	7,315.2	7,130.7	145.0	17.9	85.09	-560.2	5,179.5	712.8	550.6	162.26	4.393	
12,300.0	7,223.0	7,402.8	7,167.3	147.8	19.3	88.03	-557.0	5,259.0	706.7	539.8	166.88	4.235	
12,400.0	7,223.0	7,496.3	7,198.1	150.5	20.9	90.54	-553.3	5,347.2	702.8	531.4	171.43	4.100	
12,476.2	7,223.0	7,552.0	7,211.9	152.7	22.0	91.66	-551.7	5,401.1	701.6	527.0	174.60	4.018 CC	
12,500.0	7,223.0	7,569.4	7,215.3	153.3	22.4	91.94	-551.6	5,418.2	701.7	526.1	175.59	3.996	
12,600.0	7,223.0	7,636.0	7,223.5	156.1	23.7	92.60	-553.1	5,484.2	705.2	525.5	179.68	3.925	
12,700.0	7,223.0	7,733.3	7,226.8	158.9	25.8	92.85	-558.6	5,581.3	711.7	527.1	184.57	3.856	
12,800.0	7,223.0	7,865.4	7,225.9	161.7	28.9	92.76	-562.7	5,713.3	715.5	525.1	190.40	3.758	
12,900.0	7,223.0	7,975.1	7,224.4	164.5	31.5	92.63	-563.2	5,823.0	716.6	520.8	195.83	3.659	
13,000.0	7,223.0	8,080.8	7,224.5	167.3	34.1	92.64	-562.1	5,928.7	716.3	515.1	201.22	3.560	
13,100.0	7,223.0	8,198.0	7,224.4	170.1	37.0	92.64	-559.3	6,045.8	714.7	507.7	206.95	3.453	
13,200.0	7,223.0	8,287.0	7,225.4	172.9	39.3	92.72	-557.2	6,134.8	713.1	501.1	212.01	3.363	
13,217.6	7,223.0	8,292.4	7,225.4	173.4	39.5	92.72	-557.2	6,140.2	713.0	500.4	212.64	3.353	
13,300.0	7,223.0	8,365.8	7,225.7	175.7	41.4	92.74	-557.3	6,213.5	713.8	497.0	216.84	3.292	
13,400.0	7,223.0	8,454.4	7,224.8	178.5	43.7	92.66	-558.9	6,302.1	716.2	494.2	221.96	3.227	
13,500.0	7,223.0	8,571.4	7,221.7	181.3	46.8	92.41	-560.4	6,419.1	718.2	490.3	227.87	3.152	
13,600.0	7,223.0	8,674.9	7,219.6	184.1	49.5	92.24	-561.0	6,522.6	719.4	485.9	233.43	3.082	
13,700.0	7,223.0	8,791.9	7,218.2	186.9	52.6	92.13	-558.4	6,639.6	717.7	478.4	239.35	2.999	
13,800.0	7,223.0	8,884.8	7,217.9	189.7	55.1	92.12	-556.2	6,732.4	716.1	471.4	244.64	2.927	
13,900.0	7,223.0	8,977.8	7,217.6	192.5	57.6	92.09	-555.0	6,825.4	715.6	465.6	249.94	2.863	
13,906.9	7,223.0	8,984.3	7,217.5	192.7	57.8	92.08	-555.0	6,831.9	715.6	465.3	250.31	2.859	
14,000.0	7,223.0	9,066.8	7,216.5	195.3	60.0	92.00	-555.0	6,914.4	716.2	461.1	255.16	2.807	
14,100.0	7,223.0	9,163.7	7,215.9	198.1	62.7	91.95	-556.1	7,011.3	718.1	457.5	260.59	2.756	
14,200.0	7,223.0	9,254.1	7,214.6	200.9	65.1	91.84	-557.7	7,101.7	720.5	454.7	265.86	2.710	
14,300.0	7,223.0	9,350.3	7,213.0	203.6	67.7	91.71	-560.5	7,197.8	724.1	452.8	271.30	2.669	
14,400.0	7,223.0	9,486.3	7,211.1	206.4	71.5	91.55	-561.2	7,333.8	725.3	447.5	277.83	2.611	
14,500.0	7,223.0	9,590.3	7,212.8	209.2	74.3	91.69	-558.3	7,437.7	723.3	439.8	283.45	2.552	
14,581.1	7,223.0	9,658.8	7,214.9	211.5	76.2	91.85	-557.0	7,506.1	722.4	434.9	287.57	2.512	
14,600.0	7,223.0	9,673.7	7,215.3	212.0	76.6	91.89	-556.9	7,521.0	722.5	434.0	288.51	2.504	
14,700.0	7,223.0	9,763.4	7,217.9	214.8	79.1	92.09	-557.7	7,610.7	724.1	430.4	293.74	2.465	
14,800.0	7,223.0	9,865.7	7,221.2	217.6	81.9	92.34	-558.7	7,713.0	726.0	426.7	299.31	2.426	
14,900.0	7,223.0	9,960.2	7,223.3	220.4	84.5	92.51	-559.6	7,807.5	727.9	423.2	304.69	2.389	
15,000.0	7,223.0	10,058.4	7,223.9	223.2	87.2	92.55	-561.5	7,905.6	730.5	420.3	310.19	2.355	
15,100.0	7,223.0	10,159.8	7,222.1	226.0	90.0	92.39	-563.4	8,006.9	733.1	417.3	315.81	2.321	
15,200.0	7,223.0	10,251.0	7,217.6	228.8	92.5	92.03	-565.8	8,098.1	736.2	415.0	321.20	2.292	
15,300.0	7,223.0	10,357.8	7,212.7	231.6	95.5	91.65	-568.5	8,204.7	739.4	412.4	327.01	2.261	
15,400.0	7,223.0	10,458.4	7,210.2	234.4	98.3	91.45	-570.4	8,305.2	741.9	409.3	332.62	2.230	
15,500.0	7,223.0	10,546.9	7,210.5	237.2	100.7	91.46	-572.7	8,393.7	745.3	407.4	337.87	2.206	
15,600.0	7,223.0	10,639.8	7,210.0	240.0	103.3	91.41	-576.7	8,486.5	750.3	407.0	343.26	2.186	
15,700.0	7,223.0	10,755.9	7,210.0	242.8	106.5	91.40	-580.8	8,602.5	754.6	405.3	349.28	2.160	
15,800.0	7,223.0	10,889.3	7,210.3	245.6	110.2	91.43	-580.9	8,735.9	755.3	399.6	355.78	2.123	
15,900.0	7,223.0	10,993.5	7,210.9	248.4	113.1	91.48	-578.3	8,840.1	753.6	392.1	361.46	2.085	
16,000.0	7,223.0	11,093.3	7,212.4	251.2	115.9	91.59	-575.4	8,939.9	751.5	384.5	367.01	2.048	
16,100.0	7,223.0	11,192.2	7,213.2	254.0	118.6	91.66	-572.9	9,038.7	749.8	377.2	372.55	2.013	

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 169-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
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	Warning	
16,200.0	7,223.0	11,298.7	7,212.7	256.8	121.6	91.63	-569.9	9,145.1	747.6	369.3	378.30	1.976		
16,300.0	7,223.0	11,387.8	7,212.8	259.6	124.0	91.64	-567.2	9,234.2	745.4	361.8	383.58	1.943		
16,400.0	7,223.0	11,482.2	7,213.7	262.5	126.7	91.71	-565.9	9,328.6	744.8	355.8	388.99	1.915		
16,477.3	7,223.0	11,556.1	7,215.0	264.6	128.7	91.81	-565.1	9,402.4	744.6	351.4	393.19	1.894		
16,500.0	7,223.0	11,577.6	7,215.2	265.3	129.3	91.83	-565.0	9,424.0	744.6	350.2	394.42	1.888		
16,600.0	7,223.0	11,706.9	7,217.8	268.1	132.9	92.04	-561.1	9,553.2	742.3	341.5	400.77	1.852		
16,700.0	7,223.0	11,798.7	7,222.3	270.9	135.5	92.39	-557.2	9,644.8	739.0	333.0	406.03	1.820		
16,800.0	7,223.0	11,897.1	7,225.8	273.7	138.2	92.67	-554.2	9,743.1	736.8	325.3	411.49	1.791		
16,900.0	7,223.0	12,006.1	7,228.8	276.5	141.2	92.91	-549.7	9,851.9	733.6	316.3	417.23	1.758		
16,942.8	7,223.0	12,022.0	7,229.2	277.7	141.7	92.95	-549.0	9,867.8	732.5	313.6	418.86	1.749 ES		
17,000.0	7,223.0	12,022.0	7,229.2	279.3	141.7	92.95	-549.0	9,867.8	734.7	314.3	420.46	1.747 SF		
17,020.6	7,223.0	12,022.0	7,229.2	279.8	141.7	92.95	-549.0	9,867.8	736.6	315.6	421.04	1.750		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design		SRC Kelly Farms Pad Sec.4-T5N-R66W - SRC Kelly Farms 22-4-3CHZ - Wellbore #1 - Wellbore #1										Offset Site Error:		0.0 ft
Survey Program: 80-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		
12,000.0	7,223.0	7,151.0	7,068.5	139.4	16.5	82.63	-827.2	5,070.8	992.9	838.4	154.52	6.426		
12,100.0	7,223.0	7,196.8	7,097.1	142.2	17.0	84.29	-826.2	5,106.6	981.7	823.4	158.24	6.204		
12,200.0	7,223.0	7,252.1	7,126.9	145.0	17.6	86.03	-826.0	5,153.1	976.4	814.4	162.01	6.027		
12,274.3	7,223.0	7,306.4	7,151.8	147.0	18.3	87.49	-826.5	5,201.3	975.5	810.5	165.02	5.911 CC		
12,300.0	7,223.0	7,328.0	7,160.6	147.8	18.6	88.01	-826.7	5,221.1	975.6	809.5	166.08	5.874		
12,400.0	7,223.0	7,398.4	7,186.5	150.5	19.7	89.53	-828.4	5,286.5	978.0	807.9	170.07	5.751		
12,500.0	7,223.0	7,483.0	7,212.1	153.3	21.2	91.03	-832.2	5,367.0	983.5	809.1	174.34	5.641		
12,600.0	7,223.0	7,601.4	7,229.7	156.1	23.5	92.04	-837.1	5,483.7	988.8	809.4	179.40	5.512		
12,700.0	7,223.0	7,714.6	7,228.8	158.9	25.9	91.98	-840.7	5,596.8	992.7	808.1	184.61	5.377		
12,800.0	7,223.0	7,828.7	7,227.0	161.7	28.5	91.87	-843.2	5,710.8	995.7	805.7	190.01	5.240		
12,900.0	7,223.0	7,931.0	7,226.2	164.5	30.9	91.82	-843.6	5,813.1	996.8	801.6	195.23	5.106		
13,000.0	7,223.0	8,086.7	7,225.3	167.3	34.7	91.77	-844.2	5,968.8	999.3	797.4	201.85	4.951		
13,100.0	7,223.0	8,172.2	7,227.4	170.1	36.9	91.90	-839.6	6,054.1	994.9	788.2	206.77	4.812		
13,200.0	7,223.0	8,253.5	7,228.7	172.9	38.9	91.97	-838.4	6,135.4	994.0	782.4	211.63	4.697		
13,300.0	7,223.0	8,350.0	7,229.9	175.7	41.4	92.04	-836.7	6,231.8	993.0	776.1	216.90	4.578		
13,361.8	7,223.0	8,407.0	7,230.1	177.4	42.9	92.06	-836.2	6,288.9	992.9	772.8	220.11	4.511		
13,400.0	7,223.0	8,443.7	7,230.4	178.5	43.9	92.07	-835.9	6,325.6	993.0	770.8	222.13	4.470		
13,500.0	7,223.0	8,537.1	7,231.4	181.3	46.3	92.13	-835.6	6,418.9	993.4	766.0	227.37	4.369		
13,600.0	7,223.0	8,634.4	7,232.5	184.1	48.9	92.19	-835.8	6,516.3	994.4	761.7	232.73	4.273		
13,700.0	7,223.0	8,721.0	7,232.6	186.9	51.2	92.20	-836.6	6,602.9	996.1	758.3	237.83	4.188		
13,800.0	7,223.0	8,836.6	7,231.9	189.7	54.3	92.15	-837.8	6,718.4	997.9	754.1	243.72	4.094		
13,900.0	7,223.0	8,940.8	7,230.8	192.5	57.1	92.08	-838.0	6,822.6	998.7	749.3	249.33	4.005		
14,000.0	7,223.0	9,046.3	7,231.5	195.3	59.9	92.12	-837.0	6,928.1	998.5	743.6	254.97	3.916		
14,100.0	7,223.0	9,148.9	7,231.6	198.1	62.7	92.13	-836.2	7,030.7	998.5	738.0	260.54	3.833		
14,200.0	7,223.0	9,269.0	7,231.0	200.9	66.0	92.10	-833.7	7,150.8	997.1	730.5	266.59	3.740		
14,270.3	7,223.0	9,315.6	7,230.6	202.8	67.2	92.08	-832.7	7,197.3	996.2	726.4	269.83	3.692		
14,300.0	7,223.0	9,334.2	7,230.4	203.6	67.7	92.06	-832.7	7,216.0	996.3	725.2	271.17	3.674		
14,400.0	7,223.0	9,428.6	7,229.0	206.4	70.3	91.98	-834.0	7,310.3	998.4	721.8	276.56	3.610		
14,500.0	7,223.0	9,534.8	7,228.2	209.2	73.2	91.93	-834.6	7,416.5	999.7	717.4	282.26	3.542 ES, SF		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 79-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	
11,300.0	7,223.0	6,886.0	6,852.6	119.9	15.2	56.75	-372.4	4,911.2	925.8	811.6	114.14	8.111	
11,400.0	7,223.0	6,886.0	6,852.6	122.7	15.2	56.75	-372.4	4,911.2	854.1	737.6	116.49	7.332	
11,500.0	7,223.0	6,913.6	6,876.9	125.5	15.3	58.73	-373.6	4,924.4	787.7	666.4	121.29	6.494	
11,600.0	7,223.0	6,940.3	6,899.6	128.2	15.4	60.64	-374.5	4,938.4	727.3	601.3	125.97	5.774	
11,700.0	7,223.0	6,975.0	6,927.8	131.0	15.5	63.09	-375.2	4,958.5	674.0	542.7	131.23	5.136	
11,800.0	7,223.0	7,028.0	6,968.5	133.8	15.8	66.74	-374.7	4,992.5	627.9	490.2	137.70	4.560	
11,900.0	7,223.0	7,091.3	7,013.4	136.6	16.1	70.94	-371.3	5,036.8	588.2	443.8	144.38	4.074	
12,000.0	7,223.0	7,153.0	7,054.9	139.4	16.6	75.02	-367.1	5,082.4	555.6	405.2	150.49	3.692	
12,100.0	7,223.0	7,227.6	7,101.1	142.2	17.3	79.82	-361.3	5,140.6	530.2	373.6	156.63	3.385	
12,200.0	7,223.0	7,300.8	7,140.5	145.0	18.2	84.09	-354.7	5,201.9	511.6	349.7	161.88	3.160	
12,300.0	7,223.0	7,373.6	7,171.5	147.8	19.2	87.59	-348.4	5,267.4	499.3	332.9	166.42	3.001	
12,400.0	7,223.0	7,446.6	7,193.2	150.5	20.4	90.09	-344.3	5,336.9	493.6	323.0	170.57	2.894	
12,462.3	7,223.0	7,496.7	7,204.5	152.3	21.3	91.39	-343.3	5,385.7	492.9	319.7	173.20	2.846 CC	
12,500.0	7,223.0	7,529.0	7,210.6	153.3	21.9	92.10	-343.0	5,417.5	493.1	318.3	174.82	2.821	
12,600.0	7,223.0	7,626.0	7,223.9	156.1	23.8	93.64	-343.7	5,513.4	495.2	315.8	179.37	2.761	
12,700.0	7,223.0	7,730.5	7,230.8	158.9	26.0	94.42	-344.1	5,617.7	496.8	312.5	184.28	2.696	
12,800.0	7,223.0	7,835.7	7,233.7	161.7	28.4	94.75	-343.8	5,722.9	497.4	308.1	189.36	2.627	
12,900.0	7,223.0	7,937.7	7,234.2	164.5	30.7	94.81	-342.9	5,824.9	497.4	302.8	194.52	2.557	
13,000.0	7,223.0	8,039.2	7,231.7	167.3	33.2	94.52	-341.7	5,926.3	496.7	296.9	199.83	2.486	
13,037.3	7,223.0	8,073.6	7,230.7	168.3	34.0	94.41	-341.4	5,960.7	496.6	294.9	201.74	2.462	
13,100.0	7,223.0	8,133.1	7,229.5	170.1	35.5	94.27	-341.3	6,020.2	496.9	291.9	205.00	2.424	
13,200.0	7,223.0	8,226.8	7,229.5	172.9	37.9	94.26	-341.5	6,113.9	497.8	287.7	210.15	2.369	
13,300.0	7,223.0	8,316.7	7,228.5	175.7	40.2	94.12	-344.0	6,203.8	501.2	285.9	215.27	2.328	
13,400.0	7,223.0	8,415.2	7,228.9	178.5	42.7	94.14	-346.8	6,302.2	504.8	284.2	220.60	2.288	
13,500.0	7,223.0	8,514.0	7,229.0	181.3	45.3	94.11	-350.9	6,401.0	509.7	283.7	225.98	2.255	
13,600.0	7,223.0	8,625.8	7,229.7	184.1	48.2	94.16	-353.7	6,512.7	513.0	281.2	231.70	2.214	
13,700.0	7,223.0	8,732.0	7,228.3	186.9	51.0	93.99	-354.5	6,618.9	514.4	277.0	237.35	2.167	
13,800.0	7,223.0	8,846.5	7,225.8	189.7	54.1	93.71	-353.6	6,733.3	514.1	270.9	243.25	2.114	
13,900.0	7,223.0	8,959.7	7,224.2	192.5	57.1	93.56	-348.4	6,846.4	510.2	261.1	249.10	2.048	
14,000.0	7,223.0	9,056.1	7,222.0	195.3	59.7	93.35	-343.8	6,942.7	506.0	251.5	254.53	1.988	
14,100.0	7,223.0	9,152.5	7,220.9	198.1	62.3	93.24	-339.9	7,039.0	502.6	242.6	259.94	1.933	
14,187.9	7,223.0	9,224.9	7,220.4	200.5	64.2	93.20	-337.9	7,111.3	500.9	236.5	264.36	1.895	
14,200.0	7,223.0	9,234.1	7,220.3	200.9	64.5	93.18	-337.9	7,120.6	500.9	236.0	264.96	1.891	
14,300.0	7,223.0	9,324.1	7,218.4	203.6	66.9	92.96	-339.3	7,210.5	503.0	232.8	270.24	1.861	
14,400.0	7,223.0	9,419.6	7,217.0	206.4	69.5	92.78	-341.4	7,306.0	505.9	230.2	275.68	1.835	
14,500.0	7,223.0	9,527.6	7,215.3	209.2	72.5	92.56	-343.9	7,413.9	509.0	227.5	281.47	1.808	
14,600.0	7,223.0	9,623.8	7,214.4	212.0	75.1	92.46	-345.3	7,510.1	511.1	224.2	286.92	1.781	
14,700.0	7,223.0	9,731.0	7,215.1	214.8	78.1	92.52	-346.2	7,617.3	512.7	220.0	292.65	1.752	
14,800.0	7,223.0	9,823.5	7,215.8	217.6	80.6	92.60	-347.5	7,709.8	514.8	216.8	297.98	1.728	
14,900.0	7,223.0	9,927.1	7,214.7	220.4	83.5	92.45	-349.3	7,813.3	517.3	213.6	303.65	1.704	
15,000.0	7,223.0	10,031.4	7,214.8	223.2	86.3	92.46	-349.9	7,917.7	518.6	209.3	309.32	1.677	
15,100.0	7,223.0	10,126.1	7,215.8	226.0	88.9	92.57	-350.6	8,012.4	520.0	205.3	314.71	1.652	
15,200.0	7,223.0	10,223.0	7,217.1	228.8	91.6	92.70	-352.3	8,109.3	522.7	202.5	320.16	1.632	
15,300.0	7,223.0	10,315.2	7,218.0	231.6	94.2	92.78	-354.6	8,201.4	526.0	200.5	325.49	1.616	
15,400.0	7,223.0	10,401.9	7,217.0	234.4	96.6	92.64	-358.7	8,288.0	531.3	200.6	330.72	1.607	
15,500.0	7,223.0	10,525.3	7,214.8	237.2	100.0	92.38	-364.3	8,411.3	536.7	199.7	336.99	1.593	
15,600.0	7,223.0	10,640.8	7,215.6	240.0	103.2	92.46	-364.4	8,526.7	537.6	194.6	342.97	1.567	
15,700.0	7,223.0	10,746.1	7,216.9	242.8	106.1	92.61	-362.1	8,632.0	536.1	187.4	348.65	1.538	
15,782.5	7,223.0	10,820.2	7,216.7	245.2	108.2	92.59	-360.7	8,706.1	535.2	182.2	353.01	1.516	
15,800.0	7,223.0	10,834.9	7,216.6	245.6	108.6	92.58	-360.7	8,720.7	535.3	181.4	353.91	1.512	
15,900.0	7,223.0	10,945.2	7,216.8	248.4	111.6	92.60	-360.5	8,831.0	536.0	176.2	359.76	1.490 Level 3	
16,000.0	7,223.0	11,059.1	7,219.6	251.2	114.8	92.91	-356.0	8,944.9	532.8	167.2	365.63	1.457 Level 3	

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
SRC Kelly Farms Pad Sec.4-T5N-R66W - SRC Kelly Farms A-4-3CHZ - Wellbore #1 - Wellbore #1												Offset Well Error:	0.0 ft
Survey Program: 79-MWD													
Reference		Offset		Semi Major Axis			Distance						
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	Warning
16,100.0	7,223.0	11,140.7	7,220.3	254.0	117.0	93.00	-353.5	9,026.4	530.6	159.9	370.66	1.431	Level 3
16,200.0	7,223.0	11,249.9	7,221.6	256.8	120.1	93.16	-350.6	9,135.5	528.7	152.3	376.44	1.405	Level 3
16,300.0	7,223.0	11,339.3	7,222.8	259.6	122.6	93.29	-348.9	9,224.9	527.5	145.8	381.67	1.382	Level 3
16,318.3	7,223.0	11,356.3	7,222.9	260.2	123.0	93.31	-348.7	9,241.9	527.5	144.8	382.65	1.379	Level 3
16,400.0	7,223.0	11,431.5	7,223.3	262.5	125.1	93.35	-348.6	9,317.1	528.0	141.0	387.02	1.364	Level 3
16,500.0	7,223.0	11,520.2	7,224.3	265.3	127.6	93.44	-349.7	9,405.8	530.1	137.9	392.25	1.351	Level 3
16,600.0	7,223.0	11,608.0	7,225.4	268.1	130.0	93.53	-353.3	9,493.4	534.9	137.4	397.46	1.346	Level 3
16,700.0	7,223.0	11,711.5	7,226.4	270.9	132.9	93.60	-358.1	9,596.8	540.3	137.2	403.11	1.340	Level 3
16,800.0	7,223.0	11,819.2	7,227.2	273.7	135.9	93.66	-361.8	9,704.5	544.6	135.7	408.89	1.332	Level 3
16,900.0	7,223.0	11,932.4	7,227.3	276.5	139.1	93.64	-363.7	9,817.7	547.0	132.2	414.84	1.319	Level 3
17,000.0	7,223.0	12,005.0	7,224.8	279.3	141.1	93.38	-364.2	9,890.2	548.9	129.1	419.77	1.308	Level 3, ES, SF
17,020.6	7,223.0	12,005.0	7,224.8	279.8	141.1	93.38	-364.2	9,890.2	550.5	130.2	420.34	1.310	Level 3

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 174-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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	Warning
11,200.0	7,223.0	6,704.0	6,651.1	117.1	16.6	26.64	-126.5	4,862.6	957.6	890.0	67.61	14.164	
11,300.0	7,223.0	6,743.8	6,683.0	119.9	16.7	27.92	-124.7	4,886.2	880.4	809.3	71.18	12.369	
11,400.0	7,223.0	6,794.0	6,721.1	122.7	17.0	29.61	-122.4	4,918.9	807.3	731.7	75.57	10.682	
11,500.0	7,223.0	6,807.9	6,731.3	125.5	17.0	30.09	-121.8	4,928.3	736.2	658.3	77.96	9.444	
11,600.0	7,223.0	6,862.4	6,770.5	128.2	17.3	32.14	-119.4	4,966.1	668.6	585.3	83.26	8.029	
11,700.0	7,223.0	6,913.6	6,806.5	131.0	17.6	34.30	-117.3	5,002.5	603.6	514.7	88.92	6.789	
11,800.0	7,223.0	6,972.0	6,845.7	133.8	18.0	37.00	-115.1	5,045.6	542.7	447.0	95.73	5.669	
11,900.0	7,223.0	7,019.5	6,875.8	136.6	18.3	39.34	-113.2	5,082.3	486.4	384.4	102.03	4.768	
12,000.0	7,223.0	7,077.1	6,909.9	139.4	18.9	42.29	-110.4	5,128.7	435.8	326.1	109.61	3.975	
12,100.0	7,223.0	7,135.2	6,941.9	142.2	19.5	45.64	-109.4	5,177.2	392.0	274.0	118.00	3.322	
12,200.0	7,223.0	7,198.5	6,973.8	145.0	20.3	49.65	-110.3	5,231.8	356.8	229.1	127.63	2.795	
12,300.0	7,223.0	7,268.7	7,004.4	147.8	21.3	54.04	-111.9	5,294.9	330.3	192.5	137.87	2.396	
12,400.0	7,223.0	7,344.2	7,031.3	150.5	22.5	58.33	-113.7	5,365.5	312.1	164.3	147.83	2.111	
12,500.0	7,223.0	7,417.0	7,051.2	153.3	23.8	61.93	-117.0	5,435.4	302.7	146.2	156.54	1.934	
12,600.0	7,223.0	7,507.4	7,070.1	156.1	25.6	65.72	-123.1	5,523.5	300.1	134.5	165.62	1.812	
12,656.7	7,223.0	7,563.2	7,079.1	157.7	26.8	67.58	-126.4	5,578.5	299.9	129.5	170.42	1.760 CC	
12,700.0	7,223.0	7,605.3	7,084.1	158.9	27.7	68.62	-128.2	5,620.3	300.0	126.4	173.60	1.728	
12,800.0	7,223.0	7,700.2	7,086.7	161.7	29.8	69.26	-130.1	5,715.1	301.6	122.6	178.98	1.685	
12,900.0	7,223.0	7,808.4	7,084.0	164.5	32.4	68.81	-129.7	5,823.3	302.9	119.4	183.49	1.651	
12,921.8	7,223.0	7,829.2	7,083.6	165.1	32.9	68.73	-129.4	5,844.0	302.8	118.4	184.44	1.642	
13,000.0	7,223.0	7,902.0	7,082.4	167.3	34.6	68.54	-129.2	5,916.8	303.7	115.7	187.93	1.616	
13,100.0	7,223.0	8,006.2	7,081.3	170.1	37.2	68.39	-129.1	6,021.0	304.7	111.9	192.80	1.580	
13,200.0	7,223.0	8,102.2	7,080.3	172.9	39.6	68.24	-128.8	6,117.0	305.5	108.0	197.50	1.547	
13,300.0	7,223.0	8,196.7	7,078.9	175.7	42.0	68.16	-130.4	6,211.5	308.3	106.0	202.26	1.524	
13,400.0	7,223.0	8,302.6	7,076.8	178.5	44.8	67.96	-132.0	6,317.3	311.1	103.9	207.17	1.502	
13,500.0	7,223.0	8,411.0	7,075.5	181.3	47.6	67.69	-130.5	6,425.8	310.9	98.9	212.03	1.466 Level 3	
13,600.0	7,223.0	8,517.3	7,074.2	184.1	50.4	67.25	-126.6	6,531.9	308.7	92.1	216.59	1.425 Level 3	
13,700.0	7,223.0	8,610.8	7,072.4	186.9	52.8	66.71	-122.7	6,625.3	306.3	85.7	220.65	1.388 Level 3	
13,780.9	7,223.0	8,688.2	7,069.6	189.1	54.9	66.10	-120.5	6,702.7	305.9	82.2	223.68	1.367 Level 3	
13,800.0	7,223.0	8,706.6	7,069.1	189.7	55.4	66.00	-120.1	6,721.0	305.9	81.5	224.45	1.363 Level 3	
13,900.0	7,223.0	8,802.5	7,067.6	192.5	58.0	65.76	-119.6	6,816.9	306.7	77.7	229.00	1.339 Level 3	
14,000.0	7,223.0	8,892.4	7,067.2	195.3	60.4	65.94	-122.1	6,906.7	310.1	76.0	234.09	1.325 Level 3	
14,100.0	7,223.0	8,990.5	7,066.6	198.1	63.0	66.22	-126.6	7,004.7	315.2	75.6	239.59	1.316 Level 3	
14,200.0	7,223.0	9,088.8	7,066.3	200.9	65.7	66.61	-131.9	7,102.9	320.9	75.6	245.32	1.308 Level 3	
14,300.0	7,223.0	9,183.1	7,066.1	203.6	68.2	67.01	-137.5	7,197.1	327.2	76.3	250.98	1.304 Level 3	
14,400.0	7,223.0	9,274.8	7,062.8	206.4	70.7	67.02	-144.7	7,288.4	336.5	80.6	255.90	1.315 Level 3	
14,500.0	7,223.0	9,382.0	7,057.1	209.2	73.6	66.71	-152.5	7,395.1	345.9	85.3	260.63	1.327 Level 3	
14,600.0	7,223.0	9,492.7	7,054.8	212.0	76.6	66.77	-157.9	7,505.7	351.9	85.8	266.13	1.322 Level 3	
14,700.0	7,223.0	9,605.1	7,055.2	214.8	79.7	67.06	-160.8	7,618.1	354.8	82.7	272.11	1.304 Level 3	
14,800.0	7,223.0	9,714.2	7,056.0	217.6	82.7	67.18	-160.2	7,727.2	354.7	77.0	277.72	1.277 Level 3	
14,900.0	7,223.0	9,816.7	7,057.2	220.4	85.5	67.24	-157.4	7,829.6	352.4	69.4	283.03	1.245 Level 2	
15,000.0	7,223.0	9,912.2	7,058.6	223.2	88.1	67.40	-155.8	7,925.1	351.0	62.6	288.39	1.217 Level 2	
15,100.0	7,223.0	10,009.3	7,058.4	226.0	90.8	67.33	-154.6	8,022.2	350.6	57.2	293.33	1.195 Level 2	
15,200.0	7,223.0	10,113.7	7,057.8	228.8	93.7	67.21	-153.2	8,126.5	350.2	51.9	298.35	1.174 Level 2	
15,281.9	7,223.0	10,191.1	7,057.8	231.1	95.8	67.14	-151.8	8,203.9	349.5	47.1	302.32	1.156 Level 2	
15,300.0	7,223.0	10,207.6	7,057.7	231.6	96.3	67.13	-151.6	8,220.5	349.5	46.3	303.19	1.153 Level 2	
15,400.0	7,223.0	10,304.8	7,056.7	234.4	99.0	67.02	-151.5	8,317.6	350.5	42.4	308.03	1.138 Level 2	
15,500.0	7,223.0	10,393.9	7,054.6	237.2	101.5	66.82	-152.6	8,406.7	353.2	40.8	312.47	1.130 Level 2	
15,600.0	7,223.0	10,497.4	7,051.7	240.0	104.3	66.59	-155.1	8,510.1	357.1	39.9	317.22	1.126 Level 2	
15,700.0	7,223.0	10,598.7	7,049.2	242.8	107.1	66.39	-156.9	8,611.4	360.5	38.6	321.94	1.120 Level 2	
15,800.0	7,223.0	10,703.6	7,047.1	245.6	110.0	66.18	-157.5	8,716.3	362.5	35.8	326.70	1.110 Level 2	
15,900.0	7,223.0	10,801.6	7,046.3	248.4	112.8	66.17	-158.4	8,814.2	364.3	32.6	331.77	1.098 Level 2	

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
SRC Kelly Farms Pad Sec.4-T5N-R66W - SRC Kelly Farms A-4-3NHZ - Wellbore #1 - Wellbore #1												Offset Well Error:	0.0 ft
Survey Program: 174-MWD													
Reference		Offset		Semi Major Axis			Distance						
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	Warning
16,000.0	7,223.0	10,902.4	7,045.5	251.2	115.6	66.18	-159.8	8,915.0	366.6	29.6	336.96	1.088	Level 2
16,100.0	7,223.0	11,006.9	7,045.2	254.0	118.5	66.24	-160.5	9,019.6	368.0	25.6	342.34	1.075	Level 2
16,200.0	7,223.0	11,095.2	7,046.0	256.8	120.9	66.48	-162.0	9,107.8	369.9	22.1	347.77	1.064	Level 2
16,300.0	7,223.0	11,201.7	7,045.7	259.6	123.9	66.68	-165.1	9,214.3	373.4	19.8	353.59	1.056	Level 2
16,400.0	7,223.0	11,307.0	7,045.1	262.5	126.8	66.67	-165.6	9,319.6	374.7	15.8	358.85	1.044	Level 2
16,500.0	7,223.0	11,412.5	7,044.3	265.3	129.7	66.57	-165.1	9,425.0	375.3	11.4	363.90	1.031	Level 2
16,600.0	7,223.0	11,524.2	7,042.9	268.1	132.8	66.12	-160.2	9,536.6	372.4	4.2	368.17	1.011	Level 2
16,700.0	7,223.0	11,627.4	7,040.9	270.9	135.7	65.47	-153.6	9,639.6	368.0	-3.6	371.58	0.990	Level 1
16,800.0	7,223.0	11,720.3	7,038.3	273.7	138.3	64.75	-147.6	9,732.3	364.0	-10.5	374.47	0.972	Level 1
16,900.0	7,223.0	11,822.1	7,035.5	276.5	141.1	64.04	-142.2	9,833.9	361.1	-16.4	377.49	0.957	Level 1
16,987.6	7,223.0	11,898.0	7,032.8	278.9	143.2	63.36	-137.5	9,909.6	358.4	-21.2	379.56	0.944	Level 1
17,000.0	7,223.0	11,898.0	7,032.8	279.3	143.2	63.36	-137.5	9,909.6	358.6	-21.3	379.88	0.944	Level 1, ES, SF
17,020.6	7,223.0	11,898.0	7,032.8	279.8	143.2	63.36	-137.5	9,909.6	359.9	-20.5	380.40	0.946	Level 1

SRC Wiedeman Pad Sec.5-T5N-R66W - SRC Wiedeman 11-5-3NCHZ - Wellbore #1 - Plan #3 (9-24-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference				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		
0.0	0.0	0.0	0.0	0.0	0.0	5.32	14.9	1.4	15.0	15.0	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	5.32	14.9	1.4	15.0	14.8	0.22	66.743		
200.0	200.0	200.0	200.0	0.3	0.3	5.32	14.9	1.4	15.0	14.3	0.67	22.248		
300.0	300.0	300.0	300.0	0.6	0.6	5.32	14.9	1.4	15.0	13.9	1.12	13.349		
400.0	400.0	400.0	400.0	0.8	0.8	5.32	14.9	1.4	15.0	13.4	1.57	9.535		
500.0	500.0	500.0	500.0	1.0	1.0	5.32	14.9	1.4	15.0	13.0	2.02	7.416		
600.0	600.0	600.0	600.0	1.2	1.2	5.32	14.9	1.4	15.0	12.5	2.47	6.068		
700.0	700.0	700.0	700.0	1.5	1.5	5.32	14.9	1.4	15.0	12.1	2.92	5.134		
800.0	800.0	800.0	800.0	1.7	1.7	5.32	14.9	1.4	15.0	11.6	3.37	4.450		
900.0	900.0	900.0	900.0	1.9	1.9	5.32	14.9	1.4	15.0	11.2	3.82	3.926		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	5.32	14.9	1.4	15.0	10.7	4.27	3.513		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	5.32	14.9	1.4	15.0	10.3	4.72	3.178		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	5.32	14.9	1.4	15.0	9.8	5.17	2.902		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	5.32	14.9	1.4	15.0	9.4	5.62	2.670		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	5.32	14.9	1.4	15.0	8.9	6.07	2.472		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	5.32	14.9	1.4	15.0	8.5	6.52	2.301	CC	
1,600.0	1,600.0	1,599.5	1,599.5	3.5	3.5	2.46	16.5	0.7	16.5	9.6	6.97	2.376		
1,700.0	1,700.0	1,698.8	1,698.6	3.7	3.7	-3.57	21.3	-1.3	21.4	13.9	7.41	2.882		
1,800.0	1,800.0	1,797.6	1,797.0	3.9	3.9	-9.16	29.1	-4.7	29.7	21.8	7.86	3.771		
1,900.0	1,900.0	1,896.2	1,895.0	4.2	4.2	-13.13	39.8	-9.3	41.2	32.9	8.32	4.947		
2,000.0	2,000.0	1,995.4	1,993.5	4.4	4.4	-15.45	51.1	-14.1	53.4	44.6	8.79	6.072		
2,100.0	2,100.0	2,094.8	2,092.1	4.6	4.7	38.91	62.4	-19.0	64.3	55.1	9.20	6.985		
2,200.0	2,199.8	2,194.5	2,191.0	4.8	4.9	40.19	73.7	-23.8	72.5	62.9	9.64	7.521		
2,300.3	2,299.8	2,294.6	2,290.3	5.0	5.2	42.91	85.0	-28.7	78.2	68.1	10.09	7.752		
2,400.0	2,398.9	2,394.0	2,389.0	5.3	5.5	46.16	96.3	-33.5	82.8	72.2	10.56	7.843		
2,500.0	2,498.4	2,493.8	2,488.0	5.5	5.8	49.08	107.6	-38.4	87.7	76.6	11.04	7.942		
2,600.0	2,597.8	2,593.6	2,587.1	5.8	6.0	51.68	119.0	-43.3	92.7	81.2	11.53	8.044		
2,700.0	2,697.3	2,693.4	2,686.1	6.0	6.3	54.01	130.3	-48.1	97.9	85.9	12.02	8.146		
2,800.0	2,796.7	2,793.2	2,785.1	6.3	6.6	56.10	141.6	-53.0	103.3	90.8	12.53	8.245		
2,900.0	2,896.2	2,893.0	2,884.1	6.5	6.9	57.98	153.0	-57.9	108.8	95.8	13.04	8.342		
3,000.0	2,995.6	2,992.8	2,983.1	6.8	7.2	59.68	164.3	-62.7	114.4	100.8	13.56	8.435		
3,100.0	3,095.1	3,092.6	3,082.2	7.0	7.5	61.22	175.6	-67.6	120.1	106.0	14.09	8.524		
3,200.0	3,194.5	3,192.3	3,181.2	7.3	7.8	62.62	186.9	-72.5	125.9	111.2	14.62	8.609		
3,300.0	3,294.0	3,292.1	3,280.2	7.6	8.1	63.90	198.3	-77.3	131.7	116.6	15.16	8.689		
3,400.0	3,393.4	3,391.9	3,379.2	7.8	8.4	65.07	209.6	-82.2	137.6	121.9	15.70	8.765		
3,500.0	3,492.9	3,491.7	3,478.3	8.1	8.7	66.14	220.9	-87.0	143.6	127.3	16.25	8.836		
3,600.0	3,592.3	3,591.5	3,577.3	8.4	9.0	67.13	232.3	-91.9	149.6	132.8	16.80	8.904		
3,700.0	3,691.8	3,691.3	3,676.3	8.7	9.3	68.04	243.6	-96.8	155.6	138.2	17.35	8.969		
3,809.0	3,800.2	3,800.1	3,784.3	9.0	9.6	68.95	255.9	-102.1	162.2	144.3	17.96	9.035		
3,900.0	3,890.8	3,890.9	3,874.3	9.2	9.9	69.31	266.2	-106.5	168.3	149.9	18.42	9.137		
4,000.0	3,990.6	3,990.5	3,973.2	9.4	10.2	68.69	277.6	-111.4	176.1	157.3	18.85	9.342		
4,109.4	4,100.0	4,099.2	4,081.1	9.6	10.6	11.97	289.9	-116.7	186.3	167.2	19.10	9.754		
4,200.0	4,190.6	4,189.2	4,170.4	9.7	10.8	10.09	300.1	-121.0	195.6	176.0	19.59	9.984		
4,300.0	4,290.6	4,289.9	4,270.4	9.9	11.1	8.19	311.5	-125.9	205.9	185.8	20.14	10.224		
4,400.0	4,390.6	4,396.2	4,376.1	10.1	11.4	6.76	320.9	-130.0	214.3	193.6	20.64	10.383		
4,500.0	4,490.6	4,503.0	4,482.8	10.4	11.6	5.93	326.7	-132.5	219.4	198.4	21.09	10.407		
4,600.0	4,590.6	4,610.2	4,589.9	10.6	11.8	5.62	328.9	-133.4	221.4	199.9	21.50	10.299		
4,700.0	4,690.6	4,710.9	4,690.6	10.8	11.9	5.62	328.9	-133.4	221.4	199.5	21.89	10.114		
4,800.0	4,790.6	4,810.9	4,790.6	11.0	12.1	5.62	328.9	-133.4	221.4	199.1	22.30	9.927		
4,900.0	4,890.6	4,910.9	4,890.6	11.2	12.3	5.62	328.9	-133.4	221.4	198.7	22.72	9.746		
5,000.0	4,990.6	5,010.9	4,990.6	11.4	12.5	5.62	328.9	-133.4	221.4	198.3	23.13	9.571		
5,100.0	5,090.6	5,110.9	5,090.6	11.6	12.7	5.62	328.9	-133.4	221.4	197.9	23.55	9.402		

SRC Wiedeman Pad Sec.5-T5N-R66W - SRC Wiedeman 11-5-3NCHZ - Wellbore #1 - Plan #3 (9-24-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
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	Warning	
5,200.0	5,190.6	5,210.9	5,190.6	11.8	12.9	5.62	328.9	-133.4	221.4	197.4	23.97	9.239		
5,300.0	5,290.6	5,310.9	5,290.6	12.1	13.1	5.62	328.9	-133.4	221.4	197.0	24.38	9.080		
5,400.0	5,390.6	5,410.9	5,390.6	12.3	13.3	5.62	328.9	-133.4	221.4	196.6	24.80	8.926		
5,500.0	5,490.6	5,510.9	5,490.6	12.5	13.5	5.62	328.9	-133.4	221.4	196.2	25.22	8.778		
5,600.0	5,590.6	5,610.9	5,590.6	12.7	13.7	5.62	328.9	-133.4	221.4	195.8	25.65	8.633		
5,700.0	5,690.6	5,710.9	5,690.6	12.9	13.9	5.62	328.9	-133.4	221.4	195.3	26.07	8.493		
5,800.0	5,790.6	5,810.9	5,790.6	13.1	14.1	5.62	328.9	-133.4	221.4	194.9	26.49	8.358		
5,900.0	5,890.6	5,910.9	5,890.6	13.3	14.3	5.62	328.9	-133.4	221.4	194.5	26.91	8.226		
6,000.0	5,990.6	6,010.9	5,990.6	13.6	14.5	5.62	328.9	-133.4	221.4	194.1	27.34	8.098		
6,100.0	6,090.6	6,110.9	6,090.6	13.8	14.7	5.62	328.9	-133.4	221.4	193.6	27.77	7.974		
6,200.0	6,190.6	6,210.9	6,190.6	14.0	14.9	5.62	328.9	-133.4	221.4	193.2	28.19	7.854		
6,300.0	6,290.6	6,310.9	6,290.6	14.2	15.1	5.62	328.9	-133.4	221.4	192.8	28.62	7.736		
6,330.8	6,321.4	6,341.7	6,321.4	14.3	15.2	5.62	328.9	-133.4	221.4	192.7	28.75	7.701		
6,400.0	6,390.6	6,409.1	6,388.8	14.4	15.3	6.11	329.0	-131.5	221.6	192.6	29.02	7.636		
6,500.0	6,490.6	6,504.0	6,482.6	14.6	15.4	9.45	329.0	-118.4	223.6	194.3	29.35	7.619		
6,516.2	6,506.8	6,518.9	6,497.3	14.7	15.4	10.26	329.1	-115.2	224.3	194.9	29.40	7.628		
6,550.0	6,540.6	6,550.0	6,527.4	14.7	15.5	-77.47	329.1	-107.6	225.8	196.3	29.53	7.647		
6,600.0	6,590.4	6,595.2	6,570.5	14.8	15.5	-74.86	329.2	-94.2	228.5	198.7	29.72	7.687		
6,650.0	6,639.8	6,639.9	6,612.3	14.9	15.6	-72.38	329.3	-78.3	231.5	201.6	29.88	7.747		
6,700.0	6,688.6	6,684.2	6,652.6	15.0	15.6	-70.03	329.5	-60.0	234.8	204.8	30.00	7.826		
6,750.0	6,736.5	6,727.9	6,691.3	15.0	15.7	-67.84	329.6	-39.5	238.4	208.3	30.08	7.923		
6,800.0	6,783.2	6,771.2	6,728.3	15.1	15.7	-65.80	329.8	-17.0	242.1	211.9	30.13	8.034		
6,850.0	6,828.7	6,814.2	6,763.5	15.2	15.8	-63.91	330.0	7.6	245.9	215.7	30.14	8.157		
6,900.0	6,872.5	6,856.7	6,796.9	15.3	15.8	-62.18	330.2	33.9	249.7	219.5	30.12	8.288		
6,950.0	6,914.6	6,900.0	6,829.2	15.3	15.9	-60.56	330.4	62.7	253.4	223.3	30.10	8.419		
7,000.0	6,954.6	6,940.8	6,858.0	15.5	16.0	-59.16	330.6	91.6	257.1	227.0	30.09	8.545		
7,050.0	6,992.5	6,982.5	6,885.7	15.7	16.1	-57.87	330.8	122.7	260.6	230.5	30.09	8.660		
7,100.0	7,028.1	7,023.9	6,911.4	15.9	16.4	-56.72	331.1	155.2	263.9	233.8	30.14	8.757		
7,150.0	7,061.1	7,065.0	6,935.0	16.2	16.7	-55.70	331.3	188.9	267.0	236.7	30.25	8.826		
7,200.0	7,091.4	7,106.0	6,956.5	16.6	17.1	-54.82	331.6	223.8	269.7	239.3	30.44	8.861		
7,250.0	7,118.8	7,150.0	6,977.4	17.0	17.6	-54.02	331.8	262.5	272.2	241.5	30.76	8.849		
7,300.0	7,143.3	7,187.5	6,993.3	17.5	18.1	-53.44	332.1	296.5	274.3	243.1	31.19	8.796		
7,350.0	7,164.6	7,228.1	7,008.4	18.1	18.6	-52.93	332.4	334.1	276.1	244.3	31.77	8.690		
7,400.0	7,182.8	7,268.6	7,021.4	18.8	19.2	-52.54	332.7	372.4	277.4	244.9	32.50	8.536		
7,450.0	7,197.6	7,309.0	7,032.2	19.6	19.9	-52.27	332.9	411.3	278.4	245.0	33.40	8.336		
7,500.0	7,209.1	7,350.0	7,040.9	20.4	20.6	-52.11	333.2	451.4	279.0	244.5	34.47	8.094		
7,550.0	7,217.2	7,389.7	7,047.0	21.3	21.3	-52.07	333.5	490.6	279.1	243.4	35.68	7.822		
7,600.0	7,221.8	7,430.0	7,051.1	22.2	22.0	-52.14	333.8	530.7	278.9	241.8	37.06	7.524		
7,641.2	7,223.0	7,463.2	7,052.8	23.0	22.7	-52.28	334.1	563.9	278.3	240.0	38.30	7.267		
7,673.8	7,223.0	7,491.3	7,053.0	23.6	23.2	-52.33	334.3	592.0	278.2	238.9	39.28	7.082		
7,700.0	7,223.0	7,517.6	7,053.0	24.2	23.8	-52.33	334.5	618.3	278.2	238.0	40.12	6.932		
7,800.0	7,223.0	7,617.6	7,053.0	26.3	25.9	-52.32	335.2	718.3	278.1	234.7	43.49	6.396		
7,900.0	7,223.0	7,717.6	7,053.0	28.5	28.1	-52.32	335.9	818.3	278.1	231.1	47.05	5.911		
8,000.0	7,223.0	7,817.6	7,053.0	30.9	30.4	-52.32	336.7	918.3	278.1	227.4	50.77	5.478		
8,100.0	7,223.0	7,917.6	7,053.0	33.3	32.8	-52.32	337.4	1,018.3	278.1	223.5	54.62	5.093		
8,200.0	7,223.0	8,017.6	7,053.0	35.8	35.3	-52.32	338.1	1,118.3	278.1	219.6	58.56	4.750		
8,300.0	7,223.0	8,117.6	7,053.0	38.3	37.8	-52.32	338.9	1,218.3	278.1	215.6	62.58	4.444		
8,400.0	7,223.0	8,217.6	7,053.0	40.8	40.3	-52.32	339.6	1,318.3	278.1	211.5	66.67	4.172		
8,500.0	7,223.0	8,317.6	7,053.0	43.4	42.9	-52.32	340.3	1,418.3	278.1	207.3	70.82	3.927		
8,600.0	7,223.0	8,417.6	7,053.0	46.0	45.5	-52.32	341.1	1,518.2	278.1	203.1	75.01	3.708		
8,700.0	7,223.0	8,517.6	7,053.0	48.6	48.2	-52.32	341.8	1,618.2	278.1	198.9	79.24	3.510		
8,800.0	7,223.0	8,617.6	7,053.0	51.3	50.8	-52.32	342.5	1,718.2	278.1	194.6	83.50	3.331		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design		SRC Wiedeman Pad Sec.5-T5N-R66W - SRC Wiedeman 11-5-3NCHZ - Wellbore #1 - Plan #3 (9-24-14)										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		
8,900.0	7,223.0	8,717.6	7,053.0	54.0	53.5	-52.32	343.3	1,818.2	278.1	190.3	87.79	3.168		
9,000.0	7,223.0	8,817.6	7,053.0	56.6	56.1	-52.32	344.0	1,918.2	278.1	186.0	92.10	3.020		
9,100.0	7,223.0	8,917.6	7,053.0	59.3	58.8	-52.32	344.8	2,018.2	278.1	181.7	96.44	2.884		
9,200.0	7,223.0	9,017.6	7,053.0	62.0	61.5	-52.32	345.5	2,118.2	278.1	177.3	100.79	2.759		
9,300.0	7,223.0	9,117.6	7,053.0	64.7	64.2	-52.32	346.2	2,218.2	278.1	173.0	105.16	2.645		
9,400.0	7,223.0	9,217.6	7,053.0	67.5	67.0	-52.32	347.0	2,318.2	278.1	168.6	109.54	2.539		
9,500.0	7,223.0	9,317.6	7,053.0	70.2	69.7	-52.32	347.7	2,418.2	278.1	164.2	113.94	2.441		
9,600.0	7,223.0	9,417.6	7,053.0	72.9	72.4	-52.32	348.4	2,518.2	278.1	159.8	118.34	2.350		
9,700.0	7,223.0	9,517.6	7,053.0	75.7	75.2	-52.32	349.2	2,618.2	278.1	155.4	122.75	2.266		
9,800.0	7,223.0	9,617.6	7,053.0	78.4	77.9	-52.32	349.9	2,718.2	278.1	150.9	127.18	2.187		
9,900.0	7,223.0	9,717.6	7,053.0	81.2	80.6	-52.32	350.6	2,818.2	278.1	146.5	131.61	2.113		
10,000.0	7,223.0	9,817.6	7,053.0	83.9	83.4	-52.32	351.4	2,918.2	278.1	142.1	136.05	2.044		
10,100.0	7,223.0	9,917.6	7,053.0	86.7	86.1	-52.32	352.1	3,018.2	278.1	137.6	140.49	1.979		
10,200.0	7,223.0	10,017.6	7,053.0	89.4	88.9	-52.32	352.8	3,118.2	278.1	133.2	144.94	1.919		
10,300.0	7,223.0	10,117.6	7,053.0	92.2	91.7	-52.32	353.6	3,218.2	278.1	128.7	149.40	1.861		
10,400.0	7,223.0	10,217.6	7,053.0	94.9	94.4	-52.32	354.3	3,318.2	278.1	124.2	153.86	1.807		
10,500.0	7,223.0	10,317.6	7,053.0	97.7	97.2	-52.32	355.0	3,418.2	278.1	119.8	158.33	1.756		
10,600.0	7,223.0	10,417.6	7,053.0	100.5	100.0	-52.32	355.8	3,518.2	278.1	115.3	162.79	1.708		
10,700.0	7,223.0	10,517.6	7,053.0	103.2	102.7	-52.31	356.5	3,618.2	278.1	110.8	167.27	1.663		
10,800.0	7,223.0	10,617.6	7,053.0	106.0	105.5	-52.31	357.2	3,718.2	278.1	106.3	171.74	1.619		
10,900.0	7,223.0	10,717.6	7,053.0	108.8	108.3	-52.31	358.0	3,818.2	278.1	101.9	176.22	1.578		
11,000.0	7,223.0	10,817.6	7,053.0	111.6	111.1	-52.31	358.7	3,918.2	278.1	97.4	180.70	1.539		
11,100.0	7,223.0	10,917.6	7,053.0	114.3	113.8	-52.31	359.5	4,018.2	278.1	92.9	185.19	1.502		
11,200.0	7,223.0	11,017.6	7,053.0	117.1	116.6	-52.31	360.2	4,118.2	278.1	88.4	189.68	1.466	Level 3	
11,300.0	7,223.0	11,117.6	7,053.0	119.9	119.4	-52.31	360.9	4,218.2	278.1	83.9	194.17	1.432	Level 3	
11,400.0	7,223.0	11,217.6	7,053.0	122.7	122.2	-52.31	361.7	4,318.2	278.1	79.4	198.66	1.400	Level 3	
11,500.0	7,223.0	11,317.6	7,053.0	125.5	124.9	-52.31	362.4	4,418.2	278.1	74.9	203.15	1.369	Level 3	
11,600.0	7,223.0	11,417.6	7,053.0	128.2	127.7	-52.31	363.1	4,518.2	278.1	70.4	207.65	1.339	Level 3	
11,700.0	7,223.0	11,517.6	7,053.0	131.0	130.5	-52.31	363.9	4,618.2	278.1	65.9	212.15	1.311	Level 3	
11,800.0	7,223.0	11,617.6	7,053.0	133.8	133.3	-52.31	364.6	4,718.2	278.1	61.4	216.65	1.283	Level 3	
11,900.0	7,223.0	11,717.6	7,053.0	136.6	136.1	-52.31	365.3	4,818.2	278.1	56.9	221.15	1.257	Level 3	
12,000.0	7,223.0	11,817.6	7,053.0	139.4	138.9	-52.31	366.1	4,918.2	278.1	52.4	225.65	1.232	Level 2	
12,100.0	7,223.0	11,917.6	7,053.0	142.2	141.7	-52.31	366.8	5,018.2	278.1	47.9	230.15	1.208	Level 2	
12,200.0	7,223.0	12,017.6	7,053.0	145.0	144.5	-52.31	367.5	5,118.2	278.1	43.4	234.66	1.185	Level 2	
12,300.0	7,223.0	12,117.6	7,053.0	147.8	147.2	-52.31	368.3	5,218.1	278.1	38.9	239.16	1.163	Level 2	
12,400.0	7,223.0	12,217.6	7,053.0	150.5	150.0	-52.31	369.0	5,318.1	278.1	34.4	243.67	1.141	Level 2	
12,500.0	7,223.0	12,317.6	7,053.0	153.3	152.8	-52.31	369.7	5,418.1	278.0	29.9	248.18	1.120	Level 2	
12,600.0	7,223.0	12,417.6	7,053.0	156.1	155.6	-52.31	370.5	5,518.1	278.0	25.4	252.69	1.100	Level 2	
12,700.0	7,223.0	12,517.6	7,053.0	158.9	158.4	-52.31	371.2	5,618.1	278.0	20.8	257.20	1.081	Level 2	
12,800.0	7,223.0	12,617.6	7,053.0	161.7	161.2	-52.31	371.9	5,718.1	278.0	16.3	261.71	1.062	Level 2	
12,900.0	7,223.0	12,717.6	7,053.0	164.5	164.0	-52.31	372.7	5,818.1	278.0	11.8	266.22	1.044	Level 2	
13,000.0	7,223.0	12,817.6	7,053.0	167.3	166.8	-52.31	373.4	5,918.1	278.0	7.3	270.74	1.027	Level 2	
13,100.0	7,223.0	12,917.6	7,053.0	170.1	169.6	-52.31	374.2	6,018.1	278.0	2.8	275.25	1.010	Level 2	
13,200.0	7,223.0	13,017.6	7,053.0	172.9	172.4	-52.31	374.9	6,118.1	278.0	-1.7	279.76	0.994	Level 1	
13,300.0	7,223.0	13,117.6	7,053.0	175.7	175.2	-52.31	375.6	6,218.1	278.0	-6.2	284.28	0.978	Level 1	
13,400.0	7,223.0	13,217.6	7,053.0	178.5	178.0	-52.31	376.4	6,318.1	278.0	-10.8	288.79	0.963	Level 1	
13,500.0	7,223.0	13,317.6	7,053.0	181.3	180.8	-52.31	377.1	6,418.1	278.0	-15.3	293.31	0.948	Level 1	
13,600.0	7,223.0	13,417.6	7,053.0	184.1	183.5	-52.31	377.8	6,518.1	278.0	-19.8	297.83	0.934	Level 1	
13,700.0	7,223.0	13,517.6	7,053.0	186.9	186.3	-52.30	378.6	6,618.1	278.0	-24.3	302.35	0.920	Level 1	
13,800.0	7,223.0	13,617.6	7,053.0	189.7	189.1	-52.30	379.3	6,718.1	278.0	-28.8	306.86	0.906	Level 1	
13,900.0	7,223.0	13,717.6	7,053.0	192.5	191.9	-52.30	380.0	6,818.1	278.0	-33.4	311.38	0.893	Level 1	
14,000.0	7,223.0	13,817.6	7,053.0	195.3	194.7	-52.30	380.8	6,918.1	278.0	-37.9	315.90	0.880	Level 1	

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design													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		
14,100.0	7,223.0	13,917.6	7,053.0	198.1	197.5	-52.30	381.5	7,018.1	278.0	-42.4	320.42	0.868	Level 1	
14,200.0	7,223.0	14,017.6	7,053.0	200.9	200.3	-52.30	382.2	7,118.1	278.0	-46.9	324.94	0.856	Level 1	
14,300.0	7,223.0	14,117.6	7,053.0	203.6	203.1	-52.30	383.0	7,218.1	278.0	-51.5	329.46	0.844	Level 1	
14,400.0	7,223.0	14,217.6	7,053.0	206.4	205.9	-52.30	383.7	7,318.1	278.0	-56.0	333.98	0.832	Level 1	
14,500.0	7,223.0	14,317.6	7,053.0	209.2	208.7	-52.30	384.4	7,418.1	278.0	-60.5	338.51	0.821	Level 1	
14,600.0	7,223.0	14,417.6	7,053.0	212.0	211.5	-52.30	385.2	7,518.1	278.0	-65.0	343.03	0.810	Level 1	
14,700.0	7,223.0	14,517.6	7,053.0	214.8	214.3	-52.30	385.9	7,618.1	278.0	-69.5	347.55	0.800	Level 1	
14,800.0	7,223.0	14,617.6	7,053.0	217.6	217.1	-52.30	386.6	7,718.1	278.0	-74.1	352.07	0.790	Level 1	
14,900.0	7,223.0	14,717.6	7,053.0	220.4	219.9	-52.30	387.4	7,818.1	278.0	-78.6	356.59	0.780	Level 1	
15,000.0	7,223.0	14,817.6	7,053.0	223.2	222.7	-52.30	388.1	7,918.1	278.0	-83.1	361.12	0.770	Level 1	
15,100.0	7,223.0	14,917.6	7,053.0	226.0	225.5	-52.30	388.9	8,018.1	278.0	-87.6	365.64	0.760	Level 1	
15,200.0	7,223.0	15,017.6	7,053.0	228.8	228.3	-52.30	389.6	8,118.1	278.0	-92.2	370.16	0.751	Level 1	
15,300.0	7,223.0	15,117.6	7,053.0	231.6	231.1	-52.30	390.3	8,218.1	278.0	-96.7	374.69	0.742	Level 1	
15,400.0	7,223.0	15,217.6	7,053.0	234.4	233.9	-52.30	391.1	8,318.1	278.0	-101.2	379.21	0.733	Level 1	
15,500.0	7,223.0	15,317.6	7,053.0	237.2	236.7	-52.30	391.8	8,418.1	278.0	-105.8	383.74	0.724	Level 1	
15,600.0	7,223.0	15,417.6	7,053.0	240.0	239.5	-52.30	392.5	8,518.1	278.0	-110.3	388.26	0.716	Level 1	
15,700.0	7,223.0	15,517.6	7,053.0	242.8	242.3	-52.30	393.3	8,618.1	278.0	-114.8	392.79	0.708	Level 1	
15,800.0	7,223.0	15,617.6	7,053.0	245.6	245.1	-52.30	394.0	8,718.1	278.0	-119.3	397.31	0.700	Level 1	
15,900.0	7,223.0	15,717.6	7,053.0	248.4	247.9	-52.30	394.7	8,818.1	278.0	-123.9	401.84	0.692	Level 1	
16,000.0	7,223.0	15,817.6	7,053.0	251.2	250.7	-52.30	395.5	8,918.0	278.0	-128.4	406.36	0.684	Level 1	
16,100.0	7,223.0	15,917.6	7,053.0	254.0	253.5	-52.30	396.2	9,018.0	278.0	-132.9	410.89	0.677	Level 1	
16,200.0	7,223.0	16,017.6	7,053.0	256.8	256.3	-52.30	396.9	9,118.0	278.0	-137.4	415.42	0.669	Level 1	
16,300.0	7,223.0	16,117.6	7,053.0	259.6	259.1	-52.30	397.7	9,218.0	278.0	-142.0	419.94	0.662	Level 1	
16,400.0	7,223.0	16,217.6	7,053.0	262.5	261.9	-52.30	398.4	9,318.0	278.0	-146.5	424.47	0.655	Level 1	
16,500.0	7,223.0	16,317.6	7,053.0	265.3	264.7	-52.30	399.1	9,418.0	278.0	-151.0	429.00	0.648	Level 1	
16,600.0	7,223.0	16,417.6	7,053.0	268.1	267.5	-52.29	399.9	9,518.0	278.0	-155.6	433.52	0.641	Level 1	
16,700.0	7,223.0	16,517.6	7,053.0	270.9	270.3	-52.29	400.6	9,618.0	278.0	-160.1	438.05	0.635	Level 1	
16,800.0	7,223.0	16,617.6	7,053.0	273.7	273.1	-52.29	401.3	9,718.0	278.0	-164.6	442.58	0.628	Level 1	
16,900.0	7,223.0	16,717.6	7,053.0	276.5	275.9	-52.29	402.1	9,818.0	278.0	-169.1	447.10	0.622	Level 1	
17,000.0	7,223.0	16,817.6	7,053.0	279.3	278.7	-52.29	402.8	9,918.0	278.0	-173.7	451.63	0.615	Level 1	
17,020.6	7,223.0	16,838.2	7,053.0	279.8	279.3	-52.29	403.0	9,938.6	278.0	-174.6	452.56	0.614	Level 1, ES, SF	

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design SRC Wiedeman Pad Sec.5-T5N-R66W - SRC Wiedeman 12-5-4CHZ - Wellbore #1 - Plan #3 (9-24-14)													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		
0.0	0.0	0.0	0.0	0.0	0.0	-173.62	-14.9	-1.7	15.0	15.0	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	-173.62	-14.9	-1.7	15.0	14.8	0.22	66.869		
200.0	200.0	200.0	200.0	0.3	0.3	-173.62	-14.9	-1.7	15.0	14.4	0.67	22.290		
300.0	300.0	300.0	300.0	0.6	0.6	-173.62	-14.9	-1.7	15.0	13.9	1.12	13.374		
400.0	400.0	400.0	400.0	0.8	0.8	-173.62	-14.9	-1.7	15.0	13.5	1.57	9.553		
500.0	500.0	500.0	500.0	1.0	1.0	-173.62	-14.9	-1.7	15.0	13.0	2.02	7.430		
600.0	600.0	600.0	600.0	1.2	1.2	-173.62	-14.9	-1.7	15.0	12.6	2.47	6.079		
700.0	700.0	700.0	700.0	1.5	1.5	-173.62	-14.9	-1.7	15.0	12.1	2.92	5.144		
800.0	800.0	800.0	800.0	1.7	1.7	-173.62	-14.9	-1.7	15.0	11.7	3.37	4.458		
900.0	900.0	900.0	900.0	1.9	1.9	-173.62	-14.9	-1.7	15.0	11.2	3.82	3.933		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-173.62	-14.9	-1.7	15.0	10.8	4.27	3.519		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-173.62	-14.9	-1.7	15.0	10.3	4.72	3.184		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-173.62	-14.9	-1.7	15.0	9.9	5.17	2.907		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-173.62	-14.9	-1.7	15.0	9.4	5.62	2.675		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-173.62	-14.9	-1.7	15.0	9.0	6.07	2.477 CC, ES		
1,500.0	1,500.0	1,499.5	1,499.5	3.3	3.2	-170.36	-16.3	-2.8	16.5	10.0	6.49	2.544		
1,600.0	1,600.0	1,598.8	1,598.6	3.5	3.4	-163.41	-20.3	-6.0	21.2	14.3	6.89	3.074		
1,700.0	1,700.0	1,697.6	1,697.1	3.7	3.6	-156.92	-26.9	-11.5	29.4	22.1	7.30	4.021		
1,800.0	1,800.0	1,796.8	1,795.7	3.9	3.8	-152.54	-35.3	-18.3	40.0	32.3	7.72	5.180		
1,900.0	1,900.0	1,896.2	1,894.5	4.2	4.0	-149.99	-43.8	-25.3	50.9	42.7	8.15	6.236		
2,000.0	2,000.0	1,995.6	1,993.3	4.4	4.3	-148.34	-52.2	-32.2	61.8	53.2	8.60	7.185		
2,100.0	2,100.0	2,095.0	2,092.0	4.6	4.5	-93.34	-60.7	-39.2	72.8	63.8	8.99	8.099		
2,200.0	2,199.8	2,194.3	2,190.7	4.8	4.7	-95.67	-69.2	-46.1	84.1	74.7	9.41	8.936		
2,300.3	2,299.8	2,293.7	2,289.5	5.0	5.0	-99.46	-77.7	-53.0	96.1	86.2	9.85	9.757		
2,400.0	2,398.9	2,392.3	2,387.5	5.3	5.3	-103.47	-86.1	-59.9	108.8	98.5	10.30	10.560		
2,500.0	2,498.4	2,491.2	2,485.9	5.5	5.5	-106.64	-94.5	-66.8	121.9	111.1	10.76	11.325		
2,600.0	2,597.8	2,590.2	2,584.2	5.8	5.8	-109.19	-102.9	-73.7	135.3	124.1	11.23	12.044		
2,700.0	2,697.3	2,689.1	2,682.5	6.0	6.1	-111.28	-111.4	-80.6	149.0	137.2	11.71	12.716		
2,800.0	2,796.7	2,788.0	2,780.8	6.3	6.3	-113.01	-119.8	-87.5	162.8	150.6	12.20	13.340		
2,900.0	2,896.2	2,886.9	2,879.2	6.5	6.6	-114.48	-128.3	-94.4	176.7	164.0	12.69	13.921		
3,000.0	2,995.6	2,985.9	2,977.5	6.8	6.9	-115.73	-136.7	-101.4	190.7	177.5	13.19	14.461		
3,100.0	3,095.1	3,084.8	3,075.8	7.0	7.2	-116.80	-145.1	-108.3	204.8	191.1	13.69	14.962		
3,200.0	3,194.5	3,183.7	3,174.2	7.3	7.5	-117.74	-153.6	-115.2	219.0	204.8	14.19	15.428		
3,300.0	3,294.0	3,282.7	3,272.5	7.6	7.8	-118.57	-162.0	-122.1	233.2	218.5	14.70	15.863		
3,400.0	3,393.4	3,381.6	3,370.8	7.8	8.1	-119.30	-170.4	-129.0	247.5	232.2	15.21	16.268		
3,500.0	3,492.9	3,480.5	3,469.2	8.1	8.3	-119.95	-178.9	-135.9	261.7	246.0	15.72	16.646		
3,600.0	3,592.3	3,579.5	3,567.5	8.4	8.6	-120.53	-187.3	-142.8	276.1	259.8	16.24	17.000		
3,700.0	3,691.8	3,678.4	3,665.8	8.7	8.9	-121.06	-195.7	-149.7	290.4	273.7	16.76	17.331		
3,809.0	3,800.2	3,786.3	3,773.0	9.0	9.3	-121.58	-204.9	-157.2	306.1	288.8	17.32	17.669		
3,900.0	3,890.8	3,876.4	3,862.6	9.2	9.5	-121.96	-212.6	-163.5	318.4	300.6	17.78	17.910		
4,000.0	3,990.6	3,975.7	3,961.3	9.4	9.8	-121.84	-221.1	-170.5	330.2	312.0	18.23	18.118		
4,109.4	4,100.0	4,084.4	4,069.3	9.6	10.1	-176.13	-230.4	-178.0	341.1	322.3	18.79	18.155		
4,200.0	4,190.6	4,182.8	4,167.3	9.7	10.4	-175.21	-237.8	-184.2	348.4	329.2	19.22	18.124		
4,300.0	4,290.6	4,293.9	4,278.1	9.9	10.6	-174.57	-243.1	-188.5	353.5	333.9	19.68	17.965		
4,400.0	4,390.6	4,405.3	4,389.5	10.1	10.8	-174.34	-245.1	-190.1	355.5	335.3	20.10	17.682		
4,500.0	4,490.6	4,506.4	4,490.6	10.4	11.0	-174.34	-245.1	-190.1	355.5	335.0	20.50	17.336		
4,600.0	4,590.6	4,606.4	4,590.6	10.6	11.2	-174.34	-245.1	-190.1	355.5	334.6	20.90	17.008		
4,700.0	4,690.6	4,706.4	4,690.6	10.8	11.4	-174.34	-245.1	-190.1	355.5	334.2	21.30	16.690		
4,800.0	4,790.6	4,806.4	4,790.6	11.0	11.5	-174.34	-245.1	-190.1	355.5	333.8	21.70	16.383		
4,900.0	4,890.6	4,906.4	4,890.6	11.2	11.7	-174.34	-245.1	-190.1	355.5	333.4	22.10	16.085		
5,000.0	4,990.6	5,006.4	4,990.6	11.4	11.9	-174.34	-245.1	-190.1	355.5	333.0	22.50	15.797		
5,100.0	5,090.6	5,106.4	5,090.6	11.6	12.1	-174.34	-245.1	-190.1	355.5	332.6	22.91	15.517		

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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	Warning
5,200.0	5,190.6	5,206.4	5,190.6	11.8	12.3	-174.34	-245.1	-190.1	355.5	332.2	23.31	15.247	
5,300.0	5,290.6	5,306.4	5,290.6	12.1	12.4	-174.34	-245.1	-190.1	355.5	331.7	23.72	14.985	
5,400.0	5,390.6	5,406.4	5,390.6	12.3	12.6	-174.34	-245.1	-190.1	355.5	331.3	24.13	14.730	
5,500.0	5,490.6	5,506.4	5,490.6	12.5	12.8	-174.34	-245.1	-190.1	355.5	330.9	24.54	14.484	
5,600.0	5,590.6	5,606.4	5,590.6	12.7	13.0	-174.34	-245.1	-190.1	355.5	330.5	24.95	14.245	
5,700.0	5,690.6	5,706.4	5,690.6	12.9	13.2	-174.34	-245.1	-190.1	355.5	330.1	25.37	14.012	
5,800.0	5,790.6	5,806.4	5,790.6	13.1	13.4	-174.34	-245.1	-190.1	355.5	329.7	25.78	13.787	
5,900.0	5,890.6	5,906.4	5,890.6	13.3	13.6	-174.34	-245.1	-190.1	355.5	329.3	26.20	13.568	
6,000.0	5,990.6	6,006.4	5,990.6	13.6	13.8	-174.34	-245.1	-190.1	355.5	328.9	26.61	13.356	
6,100.0	6,090.6	6,106.4	6,090.6	13.8	14.0	-174.34	-245.1	-190.1	355.5	328.4	27.03	13.150	
6,200.0	6,190.6	6,206.4	6,190.6	14.0	14.2	-174.34	-245.1	-190.1	355.5	328.0	27.45	12.949	
6,300.0	6,290.6	6,306.4	6,290.6	14.2	14.4	-174.34	-245.1	-190.1	355.5	327.6	27.87	12.754	
6,400.0	6,390.6	6,406.4	6,390.6	14.4	14.5	-174.34	-245.1	-187.9	355.2	326.9	28.29	12.558	
6,500.0	6,490.6	6,506.4	6,490.6	14.6	14.7	-177.22	-244.9	-172.3	353.9	325.3	28.66	12.348	
6,516.2	6,506.8	6,529.1	6,511.5	14.7	14.7	-177.83	-244.8	-168.5	353.7	325.0	28.72	12.315	
6,550.0	6,540.6	6,562.6	6,543.8	14.7	14.7	91.30	-244.7	-159.6	353.3	324.5	28.82	12.262	
6,600.0	6,590.4	6,611.5	6,590.1	14.8	14.8	89.39	-244.4	-143.9	353.1	324.2	28.97	12.189	
6,601.2	6,591.6	6,612.6	6,591.1	14.8	14.8	89.35	-244.4	-143.5	353.1	324.2	28.97	12.188	
6,650.0	6,639.8	6,659.5	6,634.4	14.9	14.8	87.50	-244.2	-125.4	353.3	324.2	29.12	12.135	
6,700.0	6,688.6	6,706.8	6,676.8	15.0	14.9	85.64	-243.8	-104.3	353.9	324.6	29.25	12.096	
6,750.0	6,736.5	6,753.4	6,717.0	15.0	14.9	83.81	-243.5	-80.9	354.8	325.4	29.39	12.069	
6,800.0	6,783.2	6,800.0	6,755.7	15.1	14.9	82.01	-243.1	-54.9	356.0	326.5	29.54	12.051	
6,850.0	6,828.7	6,844.7	6,791.1	15.2	15.0	80.30	-242.7	-27.6	357.5	327.8	29.70	12.036	
6,900.0	6,872.5	6,889.5	6,824.8	15.3	15.0	78.64	-242.2	1.8	359.3	329.4	29.89	12.021	
6,950.0	6,914.6	6,933.8	6,856.3	15.3	15.1	77.04	-241.8	33.0	361.2	331.1	30.11	11.998	
7,000.0	6,954.6	6,977.5	6,885.4	15.5	15.2	75.52	-241.3	65.6	363.4	333.0	30.37	11.965	
7,050.0	6,992.5	7,020.9	6,912.2	15.7	15.5	74.08	-240.8	99.6	365.6	334.9	30.69	11.914	
7,100.0	7,028.1	7,063.8	6,936.7	15.9	15.8	72.72	-240.2	134.8	368.0	336.9	31.08	11.840	
7,150.0	7,061.1	7,106.3	6,958.9	16.2	16.2	71.44	-239.7	171.1	370.3	338.8	31.54	11.741	
7,200.0	7,091.4	7,150.0	6,979.4	16.6	16.7	70.22	-239.1	209.7	372.7	340.6	32.11	11.607	
7,250.0	7,118.8	7,190.3	6,996.2	17.0	17.2	69.17	-238.5	246.4	375.0	342.2	32.76	11.444	
7,300.0	7,143.3	7,231.9	7,011.3	17.5	17.8	68.16	-238.0	285.1	377.2	343.6	33.54	11.246	
7,350.0	7,164.6	7,273.2	7,024.0	18.1	18.4	67.26	-237.4	324.4	379.3	344.8	34.42	11.018	
7,400.0	7,182.8	7,314.3	7,034.5	18.8	19.0	66.44	-236.8	364.1	381.2	345.8	35.42	10.761	
7,450.0	7,197.6	7,355.2	7,042.6	19.6	19.7	65.72	-236.2	404.2	382.9	346.4	36.53	10.482	
7,500.0	7,209.1	7,400.0	7,048.8	20.4	20.6	65.05	-235.5	448.5	384.5	346.6	37.81	10.168	
7,550.0	7,217.2	7,436.5	7,051.8	21.3	21.3	64.57	-234.9	484.9	385.7	346.6	39.09	9.868	
7,600.0	7,221.8	7,477.6	7,053.0	22.2	22.1	64.13	-234.3	526.0	386.7	346.2	40.51	9.545	
7,641.2	7,223.0	7,518.0	7,053.0	23.0	22.9	63.94	-233.7	566.3	387.0	345.0	41.92	9.230	
7,700.0	7,223.0	7,576.8	7,053.0	24.2	24.1	63.91	-232.8	625.1	386.6	342.5	44.09	8.768	
7,800.0	7,223.0	7,676.8	7,053.0	26.3	26.3	63.86	-231.3	725.1	385.9	337.9	47.96	8.045	
7,900.0	7,223.0	7,776.8	7,053.0	28.5	28.6	63.81	-229.8	825.1	385.2	333.1	52.04	7.401	
8,000.0	7,223.0	7,876.8	7,053.0	30.9	31.0	63.76	-228.3	925.1	384.5	328.2	56.27	6.832	
8,100.0	7,223.0	7,976.8	7,053.0	33.3	33.5	63.71	-226.8	1,025.1	383.8	323.1	60.63	6.330	
8,200.0	7,223.0	8,076.8	7,053.0	35.8	36.0	63.65	-225.3	1,125.1	383.1	318.0	65.08	5.886	
8,300.0	7,223.0	8,176.8	7,053.0	38.3	38.5	63.60	-223.7	1,225.1	382.4	312.8	69.61	5.493	
8,400.0	7,223.0	8,276.8	7,053.0	40.8	41.1	63.55	-222.2	1,325.0	381.7	307.5	74.20	5.144	
8,500.0	7,223.0	8,376.8	7,053.0	43.4	43.7	63.50	-220.7	1,425.0	381.0	302.2	78.84	4.832	
8,600.0	7,223.0	8,476.8	7,053.0	46.0	46.4	63.45	-219.2	1,525.0	380.3	296.8	83.53	4.553	
8,700.0	7,223.0	8,576.8	7,053.0	48.6	49.0	63.40	-217.7	1,625.0	379.6	291.4	88.24	4.302	
8,800.0	7,223.0	8,676.8	7,053.0	51.3	51.7	63.34	-216.2	1,725.0	378.9	285.9	92.99	4.075	
8,900.0	7,223.0	8,776.8	7,053.0	54.0	54.4	63.29	-214.7	1,825.0	378.2	280.5	97.75	3.869	

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

SRC Wiedeman Pad Sec.5-T5N-R66W - SRC Wiedeman 12-5-4CHZ - Wellbore #1 - Plan #3 (9-24-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Minimum	Separation	Warning	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Separation (ft)	Factor		
9,000.0	7,223.0	8,876.7	7,053.0	56.6	57.1	63.24	-213.2	1,925.0	377.5	275.0	102.54	3.682		
9,100.0	7,223.0	8,976.7	7,053.0	59.3	59.8	63.18	-211.6	2,024.9	376.9	269.5	107.35	3.511		
9,200.0	7,223.0	9,076.7	7,053.0	62.0	62.5	63.13	-210.1	2,124.9	376.2	264.0	112.16	3.354		
9,300.0	7,223.0	9,176.7	7,053.0	64.7	65.2	63.08	-208.6	2,224.9	375.5	258.5	116.99	3.209		
9,400.0	7,223.0	9,276.7	7,053.0	67.5	67.9	63.02	-207.1	2,324.9	374.8	253.0	121.83	3.076		
9,500.0	7,223.0	9,376.7	7,053.0	70.2	70.6	62.97	-205.6	2,424.9	374.1	247.4	126.67	2.953		
9,600.0	7,223.0	9,476.7	7,053.0	72.9	73.4	62.92	-204.1	2,524.9	373.4	241.9	131.52	2.839		
9,700.0	7,223.0	9,576.7	7,053.0	75.7	76.1	62.86	-202.6	2,624.9	372.7	236.3	136.37	2.733		
9,800.0	7,223.0	9,676.7	7,053.0	78.4	78.9	62.81	-201.1	2,724.8	372.0	230.8	141.23	2.634		
9,900.0	7,223.0	9,776.7	7,053.0	81.2	81.6	62.75	-199.6	2,824.8	371.3	225.2	146.09	2.542		
10,000.0	7,223.0	9,876.7	7,053.0	83.9	84.4	62.70	-198.0	2,924.8	370.6	219.7	150.96	2.455		
10,100.0	7,223.0	9,976.7	7,053.0	86.7	87.1	62.64	-196.5	3,024.8	370.0	214.1	155.82	2.374		
10,200.0	7,223.0	10,076.7	7,053.0	89.4	89.9	62.59	-195.0	3,124.8	369.3	208.6	160.69	2.298		
10,300.0	7,223.0	10,176.7	7,053.0	92.2	92.7	62.53	-193.5	3,224.8	368.6	203.0	165.55	2.226		
10,400.0	7,223.0	10,276.7	7,053.0	94.9	95.4	62.48	-192.0	3,324.7	367.9	197.5	170.42	2.159		
10,500.0	7,223.0	10,376.7	7,053.0	97.7	98.2	62.42	-190.5	3,424.7	367.2	191.9	175.29	2.095		
10,600.0	7,223.0	10,476.7	7,053.0	100.5	101.0	62.37	-189.0	3,524.7	366.5	186.4	180.15	2.035		
10,700.0	7,223.0	10,576.7	7,053.0	103.2	103.7	62.31	-187.5	3,624.7	365.8	180.8	185.01	1.977		
10,800.0	7,223.0	10,676.7	7,053.0	106.0	106.5	62.25	-186.0	3,724.7	365.2	175.3	189.87	1.923		
10,900.0	7,223.0	10,776.7	7,053.0	108.8	109.3	62.20	-184.4	3,824.7	364.5	169.7	194.73	1.872		
11,000.0	7,223.0	10,876.7	7,053.0	111.6	112.1	62.14	-182.9	3,924.7	363.8	164.2	199.59	1.823		
11,100.0	7,223.0	10,976.7	7,053.0	114.3	114.8	62.08	-181.4	4,024.6	363.1	158.7	204.44	1.776		
11,200.0	7,223.0	11,076.7	7,053.0	117.1	117.6	62.03	-179.9	4,124.6	362.4	153.1	209.29	1.732		
11,300.0	7,223.0	11,176.7	7,053.0	119.9	120.4	61.97	-178.4	4,224.6	361.7	147.6	214.14	1.689		
11,400.0	7,223.0	11,276.7	7,053.0	122.7	123.2	61.91	-176.9	4,324.6	361.1	142.1	218.98	1.649		
11,500.0	7,223.0	11,376.7	7,053.0	125.5	126.0	61.85	-175.4	4,424.6	360.4	136.5	223.82	1.610		
11,600.0	7,223.0	11,476.7	7,053.0	128.2	128.8	61.79	-173.9	4,524.6	359.7	131.0	228.66	1.573		
11,700.0	7,223.0	11,576.7	7,053.0	131.0	131.5	61.74	-172.3	4,624.6	359.0	125.5	233.49	1.538		
11,708.4	7,223.0	11,584.3	7,053.0	131.3	131.7	61.73	-172.2	4,632.2	359.0	125.1	233.87	1.535 SF		
11,800.0	7,223.0	11,584.3	7,053.0	133.8	131.7	61.73	-172.2	4,632.2	370.0	133.9	236.14	1.567		
11,900.0	7,223.0	11,584.3	7,053.0	136.6	131.7	61.73	-172.2	4,632.2	406.1	167.5	238.61	1.702		
12,000.0	7,223.0	11,584.3	7,053.0	139.4	131.7	61.73	-172.2	4,632.2	461.4	220.3	241.09	1.914		
12,100.0	7,223.0	11,584.3	7,053.0	142.2	131.7	61.73	-172.2	4,632.2	530.0	286.4	243.57	2.176		
12,200.0	7,223.0	11,584.3	7,053.0	145.0	131.7	61.73	-172.2	4,632.2	607.4	361.3	246.04	2.469		
12,300.0	7,223.0	11,584.3	7,053.0	147.8	131.7	61.73	-172.2	4,632.2	690.6	442.1	248.52	2.779		
12,400.0	7,223.0	11,584.3	7,053.0	150.5	131.7	61.73	-172.2	4,632.2	777.7	526.7	251.00	3.099		
12,500.0	7,223.0	11,584.3	7,053.0	153.3	131.7	61.73	-172.2	4,632.2	867.7	614.2	253.48	3.423		
12,600.0	7,223.0	11,584.3	7,053.0	156.1	131.7	61.73	-172.2	4,632.2	959.6	703.7	255.96	3.749		

Offset Design													Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference				Offset			Semi Major Axis			Distance					
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-174.15	-29.9	-3.1	30.0						
100.0	100.0	100.0	100.0	0.1	0.1	-174.15	-29.9	-3.1	30.0	29.8	0.22	133.607			
200.0	200.0	200.0	200.0	0.3	0.3	-174.15	-29.9	-3.1	30.0	29.4	0.67	44.536			
300.0	300.0	300.0	300.0	0.6	0.6	-174.15	-29.9	-3.1	30.0	28.9	1.12	26.721			
400.0	400.0	400.0	400.0	0.8	0.8	-174.15	-29.9	-3.1	30.0	28.5	1.57	19.087			
500.0	500.0	500.0	500.0	1.0	1.0	-174.15	-29.9	-3.1	30.0	28.0	2.02	14.845			
600.0	600.0	600.0	600.0	1.2	1.2	-174.15	-29.9	-3.1	30.0	27.6	2.47	12.146			
700.0	700.0	700.0	700.0	1.5	1.5	-174.15	-29.9	-3.1	30.0	27.1	2.92	10.277			
800.0	800.0	800.0	800.0	1.7	1.7	-174.15	-29.9	-3.1	30.0	26.7	3.37	8.907			
900.0	900.0	900.0	900.0	1.9	1.9	-174.15	-29.9	-3.1	30.0	26.2	3.82	7.859			
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-174.15	-29.9	-3.1	30.0	25.8	4.27	7.032 CC, ES			
1,100.0	1,100.0	1,099.0	1,099.0	2.4	2.3	-173.10	-31.4	-3.8	31.7	27.0	4.69	6.750			
1,200.0	1,200.0	1,197.7	1,197.6	2.6	2.5	-170.53	-36.0	-6.0	36.6	31.5	5.09	7.188			
1,300.0	1,300.0	1,296.0	1,295.5	2.8	2.7	-167.52	-43.7	-9.7	44.9	39.4	5.50	8.164			
1,400.0	1,400.0	1,394.3	1,393.1	3.0	2.9	-164.83	-54.1	-14.7	56.5	50.6	5.93	9.522			
1,500.0	1,500.0	1,493.5	1,491.5	3.3	3.1	-162.95	-65.3	-20.0	68.8	62.4	6.37	10.795			
1,600.0	1,600.0	1,592.7	1,589.9	3.5	3.4	-161.64	-76.4	-25.4	81.2	74.3	6.83	11.888			
1,700.0	1,700.0	1,691.9	1,688.4	3.7	3.7	-160.67	-87.6	-30.7	93.6	86.3	7.29	12.830			
1,800.0	1,800.0	1,791.2	1,786.8	3.9	3.9	-159.94	-98.8	-36.1	106.0	98.2	7.77	13.646			
1,900.0	1,900.0	1,890.4	1,885.3	4.2	4.2	-159.35	-109.9	-41.4	118.4	110.2	8.25	14.357			
2,000.0	2,000.0	1,989.6	1,983.7	4.4	4.5	-158.88	-121.1	-46.8	130.8	122.1	8.73	14.981			
2,100.0	2,100.0	2,088.8	2,082.1	4.6	4.8	-103.92	-132.3	-52.1	143.7	134.7	8.96	16.041			
2,200.0	2,199.8	2,187.7	2,180.3	4.8	5.1	-105.14	-143.4	-57.5	157.4	148.1	9.39	16.759			
2,300.3	2,299.8	2,286.7	2,278.5	5.0	5.4	-107.22	-154.5	-62.8	172.3	162.5	9.84	17.510			
2,400.0	2,398.9	2,384.8	2,375.9	5.3	5.7	-109.71	-165.6	-68.1	187.9	177.6	10.30	18.243			
2,500.0	2,498.4	2,483.3	2,473.6	5.5	6.0	-111.82	-176.7	-73.4	203.9	193.1	10.77	18.927			
2,600.0	2,597.8	2,581.8	2,571.3	5.8	6.3	-113.62	-187.8	-78.7	220.1	208.8	11.25	19.560			
2,700.0	2,697.3	2,680.2	2,668.9	6.0	6.6	-115.18	-198.8	-84.0	236.5	224.7	11.74	20.146			
2,800.0	2,796.7	2,778.7	2,766.6	6.3	6.9	-116.54	-209.9	-89.3	253.0	240.8	12.23	20.688			
2,900.0	2,896.2	2,877.1	2,864.3	6.5	7.2	-117.72	-221.0	-94.6	269.6	256.9	12.72	21.190			
3,000.0	2,995.6	2,975.6	2,962.0	6.8	7.5	-118.78	-232.1	-100.0	286.4	273.1	13.22	21.656			
3,100.0	3,095.1	3,074.1	3,059.7	7.0	7.9	-119.71	-243.2	-105.3	303.2	289.5	13.73	22.088			
3,200.0	3,194.5	3,172.5	3,157.4	7.3	8.2	-120.55	-254.3	-110.6	320.1	305.9	14.23	22.489			
3,300.0	3,294.0	3,271.0	3,255.1	7.6	8.5	-121.30	-265.3	-115.9	337.1	322.3	14.74	22.863			
3,400.0	3,393.4	3,369.4	3,352.8	7.8	8.8	-121.98	-276.4	-121.2	354.1	338.8	15.25	23.212			
3,500.0	3,492.9	3,467.9	3,450.5	8.1	9.1	-122.60	-287.5	-126.5	371.1	355.3	15.77	23.537			
3,600.0	3,592.3	3,566.4	3,548.2	8.4	9.4	-123.16	-298.6	-131.8	388.2	371.9	16.28	23.842			
3,700.0	3,691.8	3,664.8	3,645.9	8.7	9.8	-123.68	-309.7	-137.1	405.3	388.5	16.80	24.128			
3,809.0	3,800.2	3,772.2	3,752.4	9.0	10.1	-124.19	-321.7	-142.9	424.0	406.7	17.36	24.419			
3,900.0	3,890.8	3,861.9	3,841.4	9.2	10.4	-124.68	-331.8	-147.8	438.8	421.0	17.83	24.617			
4,000.0	3,990.6	3,960.9	3,939.6	9.4	10.7	-124.81	-343.0	-153.1	453.3	435.0	18.28	24.792			
4,109.4	4,100.0	4,069.3	4,047.2	9.6	11.1	-179.53	-355.2	-158.9	466.8	447.0	19.84	23.525			
4,200.0	4,190.6	4,159.2	4,136.4	9.7	11.4	-178.95	-365.3	-163.8	477.1	456.8	20.31	23.489			
4,300.0	4,290.6	4,258.4	4,234.8	9.9	11.7	-178.34	-376.5	-169.1	488.5	467.6	20.85	23.430			
4,400.0	4,390.6	4,357.7	4,333.3	10.1	12.0	-177.76	-387.6	-174.5	499.9	478.5	21.39	23.375			
4,500.0	4,490.6	4,456.9	4,431.7	10.4	12.3	-177.21	-398.8	-179.8	511.4	489.5	21.93	23.324			
4,600.0	4,590.6	4,556.1	4,530.2	10.6	12.7	-176.68	-410.0	-185.2	523.0	500.5	22.47	23.275			
4,700.0	4,690.6	4,655.3	4,628.6	10.8	13.0	-176.17	-421.1	-190.5	534.5	511.5	23.01	23.230			
4,800.0	4,790.6	4,754.5	4,727.0	11.0	13.3	-175.69	-432.3	-195.9	546.2	522.6	23.55	23.188			
4,900.0	4,890.6	4,853.7	4,825.5	11.2	13.6	-175.22	-443.5	-201.2	557.8	533.7	24.10	23.149			
5,000.0	4,990.6	4,971.8	4,942.8	11.4	13.9	-174.76	-455.2	-206.8	568.2	543.5	24.61	23.082			
5,100.0	5,090.6	5,094.5	5,065.2	11.6	14.2	-174.46	-462.7	-210.5	574.6	549.5	25.08	22.910			

COMPASS 2003.21 Build 46

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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	Warning
5,200.0	5,190.6	5,217.8	5,188.4	11.8	14.4	-174.36	-465.6	-211.8	577.0	551.5	25.51	22.622	
5,300.0	5,290.6	5,319.9	5,290.6	12.1	14.5	-174.36	-465.6	-211.8	577.0	551.1	25.89	22.290	
5,400.0	5,390.6	5,419.9	5,390.6	12.3	14.7	-174.36	-465.6	-211.8	577.0	550.7	26.25	21.978	
5,500.0	5,490.6	5,519.9	5,490.6	12.5	14.8	-174.36	-465.6	-211.8	577.0	550.4	26.62	21.673	
5,600.0	5,590.6	5,619.9	5,590.6	12.7	15.0	-174.36	-465.6	-211.8	577.0	550.0	27.00	21.374	
5,700.0	5,690.6	5,719.9	5,690.6	12.9	15.1	-174.36	-465.6	-211.8	577.0	549.6	27.37	21.082	
5,800.0	5,790.6	5,819.9	5,790.6	13.1	15.3	-174.36	-465.6	-211.8	577.0	549.3	27.74	20.797	
5,900.0	5,890.6	5,919.9	5,890.6	13.3	15.4	-174.36	-465.6	-211.8	577.0	548.9	28.12	20.518	
6,000.0	5,990.6	6,019.9	5,990.6	13.6	15.6	-174.36	-465.6	-211.8	577.0	548.5	28.50	20.244	
6,100.0	6,090.6	6,119.9	6,090.6	13.8	15.8	-174.36	-465.6	-211.8	577.0	548.1	28.88	19.977	
6,200.0	6,190.6	6,219.9	6,190.6	14.0	15.9	-174.36	-465.6	-211.8	577.0	547.7	29.27	19.716	
6,300.0	6,290.6	6,319.9	6,290.6	14.2	16.1	-174.36	-465.6	-211.8	577.0	547.3	29.65	19.460	
6,400.0	6,390.6	6,419.9	6,390.6	14.4	16.2	-174.36	-465.6	-211.8	577.0	547.0	30.04	19.210	
6,500.0	6,490.6	6,519.9	6,490.6	14.6	16.4	-174.36	-465.6	-211.8	577.0	546.6	30.42	18.965	
6,516.2	6,506.8	6,536.1	6,506.8	14.7	16.4	-174.36	-465.6	-211.8	577.0	546.5	30.49	18.926	
6,550.0	6,540.6	6,573.3	6,544.0	14.7	16.5	96.06	-465.6	-210.9	577.0	547.9	29.06	19.853	
6,600.0	6,590.4	6,628.4	6,598.8	14.8	16.6	96.02	-465.5	-205.9	576.9	547.7	29.23	19.737	
6,650.0	6,639.8	6,683.3	6,652.9	14.9	16.6	95.95	-465.4	-196.8	576.8	547.4	29.38	19.634	
6,700.0	6,688.6	6,738.2	6,706.2	15.0	16.7	95.85	-465.2	-183.5	576.6	547.0	29.51	19.539	
6,750.0	6,736.5	6,792.9	6,758.1	15.0	16.7	95.72	-464.9	-166.3	576.3	546.7	29.63	19.449	
6,800.0	6,783.2	6,847.5	6,808.5	15.1	16.7	95.55	-464.6	-145.2	576.0	546.2	29.75	19.357	
6,850.0	6,828.7	6,901.9	6,856.9	15.2	16.8	95.36	-464.2	-120.5	575.6	545.7	29.89	19.255	
6,900.0	6,872.5	6,956.2	6,903.2	15.3	16.8	95.14	-463.8	-92.2	575.2	545.1	30.07	19.131	
6,950.0	6,914.6	7,010.2	6,947.0	15.3	16.8	94.89	-463.3	-60.6	574.7	544.4	30.29	18.975	
7,000.0	6,954.6	7,063.9	6,988.1	15.5	16.8	94.62	-462.8	-26.0	574.2	543.6	30.58	18.776	
7,050.0	6,992.5	7,117.4	7,026.4	15.7	16.8	94.32	-462.2	11.4	573.7	542.7	30.97	18.524	
7,100.0	7,028.1	7,170.7	7,061.5	15.9	16.8	94.01	-461.6	51.3	573.2	541.7	31.48	18.209	
7,150.0	7,061.1	7,223.6	7,093.4	16.2	16.9	93.67	-461.0	93.5	572.6	540.5	32.11	17.831	
7,200.0	7,091.4	7,276.2	7,122.0	16.6	17.0	93.31	-460.3	137.6	572.1	539.1	32.91	17.384	
7,250.0	7,118.8	7,328.5	7,147.1	17.0	17.3	92.94	-459.6	183.5	571.5	537.6	33.86	16.877	
7,300.0	7,143.3	7,380.5	7,168.7	17.5	17.8	92.55	-458.9	230.8	570.9	536.0	34.98	16.320	
7,350.0	7,164.6	7,432.1	7,186.7	18.1	18.4	92.15	-458.2	279.2	570.4	534.1	36.27	15.727	
7,400.0	7,182.8	7,483.4	7,201.1	18.8	19.2	91.74	-457.4	328.4	569.9	532.2	37.71	15.110	
7,450.0	7,197.6	7,534.4	7,211.8	19.6	20.0	91.33	-456.7	378.2	569.4	530.1	39.30	14.487	
7,500.0	7,209.1	7,585.1	7,219.0	20.4	20.9	90.91	-455.9	428.4	568.9	527.9	41.02	13.869	
7,550.0	7,217.2	7,635.4	7,222.5	21.3	21.8	90.48	-455.2	478.5	568.5	525.6	42.84	13.269	
7,600.0	7,221.8	7,685.4	7,223.0	22.2	22.8	90.09	-454.4	528.5	568.1	523.3	44.75	12.694	
7,641.2	7,223.0	7,726.5	7,223.0	23.0	23.6	90.00	-453.8	569.7	567.7	521.3	46.39	12.238	
7,700.0	7,223.0	7,785.4	7,223.0	24.2	24.9	90.00	-452.9	628.5	567.3	518.5	48.80	11.623	
7,800.0	7,223.0	7,885.3	7,223.0	26.3	27.1	90.00	-451.4	728.5	566.5	513.4	53.13	10.662	
7,900.0	7,223.0	7,985.3	7,223.0	28.5	29.4	90.00	-449.9	828.4	565.7	508.0	57.68	9.807	
8,000.0	7,223.0	8,085.3	7,223.0	30.9	31.7	90.00	-448.4	928.4	565.0	502.5	62.41	9.053	
8,100.0	7,223.0	8,185.3	7,223.0	33.3	34.2	90.00	-446.9	1,028.4	564.2	496.9	67.27	8.387	
8,200.0	7,223.0	8,285.3	7,223.0	35.8	36.7	90.00	-445.3	1,128.4	563.4	491.2	72.24	7.799	
8,300.0	7,223.0	8,385.3	7,223.0	38.3	39.2	90.00	-443.8	1,228.4	562.6	485.3	77.30	7.279	
8,400.0	7,223.0	8,485.3	7,223.0	40.8	41.8	90.00	-442.3	1,328.4	561.9	479.4	82.43	6.816	
8,500.0	7,223.0	8,585.3	7,223.0	43.4	44.4	90.00	-440.8	1,428.4	561.1	473.5	87.62	6.404	
8,600.0	7,223.0	8,685.3	7,223.0	46.0	47.0	90.00	-439.3	1,528.3	560.3	467.5	92.86	6.034	
8,700.0	7,223.0	8,785.3	7,223.0	48.6	49.6	90.00	-437.8	1,628.3	559.5	461.4	98.14	5.702	
8,800.0	7,223.0	8,885.3	7,223.0	51.3	52.3	90.00	-436.3	1,728.3	558.8	455.3	103.45	5.401	
8,900.0	7,223.0	8,985.3	7,223.0	54.0	55.0	90.00	-434.8	1,828.3	558.0	449.2	108.80	5.129	
9,000.0	7,223.0	9,085.3	7,223.0	56.6	57.6	90.00	-433.2	1,928.3	557.2	443.0	114.17	4.881	

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design		SRC Wiedeman Pad Sec.5-T5N-R66W - SRC Wiedeman 12-5-4NCHZ - Wellbore #1 - Plan #3 (9-24-14)										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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,100.0	7,223.0	9,185.3	7,223.0	59.3	60.3	90.00	-431.7	2,028.3	556.4	436.9	119.56	4.654		
9,200.0	7,223.0	9,285.3	7,223.0	62.0	63.0	90.00	-430.2	2,128.3	555.7	430.7	124.97	4.446		
9,300.0	7,223.0	9,385.3	7,223.0	64.7	65.8	90.00	-428.7	2,228.2	554.9	424.5	130.40	4.255		
9,400.0	7,223.0	9,485.3	7,223.0	67.5	68.5	90.00	-427.2	2,328.2	554.1	418.3	135.84	4.079		
9,500.0	7,223.0	9,585.3	7,223.0	70.2	71.2	90.00	-425.7	2,428.2	553.3	412.0	141.30	3.916		
9,600.0	7,223.0	9,685.3	7,223.0	72.9	73.9	90.00	-424.2	2,528.2	552.6	405.8	146.77	3.765		
9,700.0	7,223.0	9,785.3	7,223.0	75.7	76.7	90.00	-422.7	2,628.2	551.8	399.5	152.25	3.624		
9,800.0	7,223.0	9,885.3	7,223.0	78.4	79.4	90.00	-421.2	2,728.2	551.0	393.3	157.74	3.493		
9,900.0	7,223.0	9,985.3	7,223.0	81.2	82.2	90.00	-419.6	2,828.1	550.2	387.0	163.24	3.371		
10,000.0	7,223.0	10,085.3	7,223.0	83.9	84.9	90.00	-418.1	2,928.1	549.5	380.7	168.74	3.256		
10,100.0	7,223.0	10,185.3	7,223.0	86.7	87.7	90.00	-416.6	3,028.1	548.7	374.4	174.25	3.149		
10,200.0	7,223.0	10,285.3	7,223.0	89.4	90.4	90.00	-415.1	3,128.1	547.9	368.2	179.77	3.048		
10,300.0	7,223.0	10,385.3	7,223.0	92.2	93.2	90.00	-413.6	3,228.1	547.2	361.9	185.29	2.953		
10,400.0	7,223.0	10,485.3	7,223.0	94.9	96.0	90.00	-412.1	3,328.1	546.4	355.6	190.82	2.863		
10,500.0	7,223.0	10,585.3	7,223.0	97.7	98.7	90.00	-410.6	3,428.1	545.6	349.2	196.36	2.779		
10,600.0	7,223.0	10,685.3	7,223.0	100.5	101.5	90.00	-409.1	3,528.0	544.8	342.9	201.89	2.699		
10,700.0	7,223.0	10,785.3	7,223.0	103.2	104.3	90.00	-407.5	3,628.0	544.1	336.6	207.44	2.623		
10,800.0	7,223.0	10,885.3	7,223.0	106.0	107.0	90.00	-406.0	3,728.0	543.3	330.3	212.98	2.551		
10,900.0	7,223.0	10,985.3	7,223.0	108.8	109.8	90.00	-404.5	3,828.0	542.5	324.0	218.53	2.483		
11,000.0	7,223.0	11,085.3	7,223.0	111.6	112.6	90.00	-403.0	3,928.0	541.7	317.6	224.08	2.418		
11,100.0	7,223.0	11,185.2	7,223.0	114.3	115.3	90.00	-401.5	4,028.0	541.0	311.3	229.64	2.356		
11,200.0	7,223.0	11,285.2	7,223.0	117.1	118.1	90.00	-400.0	4,128.0	540.2	305.0	235.20	2.297		
11,300.0	7,223.0	11,385.2	7,223.0	119.9	120.9	90.00	-398.5	4,227.9	539.4	298.7	240.76	2.240		
11,400.0	7,223.0	11,485.2	7,223.0	122.7	123.7	90.00	-397.0	4,327.9	538.6	292.3	246.32	2.187		
11,500.0	7,223.0	11,585.2	7,223.0	125.5	126.5	90.00	-395.5	4,427.9	537.9	286.0	251.88	2.135		
11,600.0	7,223.0	11,685.2	7,223.0	128.2	129.2	90.00	-393.9	4,527.9	537.1	279.6	257.45	2.086		
11,680.2	7,223.0	11,765.5	7,223.0	130.5	130.8	90.00	-392.7	4,608.1	536.5	275.2	261.27	2.053		
11,700.0	7,223.0	11,770.2	7,223.0	131.0	130.9	90.00	-392.7	4,612.9	536.5	274.6	261.91	2.048 SF		
11,800.0	7,223.0	11,770.2	7,223.0	133.8	130.9	90.00	-392.7	4,612.9	547.7	283.0	264.70	2.069		
11,900.0	7,223.0	11,770.2	7,223.0	136.6	130.9	90.00	-392.7	4,612.9	576.4	308.9	267.48	2.155		
12,000.0	7,223.0	11,770.2	7,223.0	139.4	130.9	90.00	-392.7	4,612.9	620.0	349.7	270.27	2.294		
12,100.0	7,223.0	11,770.2	7,223.0	142.2	130.9	90.00	-392.7	4,612.9	675.7	402.6	273.06	2.474		
12,200.0	7,223.0	11,770.2	7,223.0	145.0	130.9	90.00	-392.7	4,612.9	740.7	464.9	275.85	2.685		
12,300.0	7,223.0	11,770.2	7,223.0	147.8	130.9	90.00	-392.7	4,612.9	812.9	534.3	278.64	2.918		
12,400.0	7,223.0	11,770.2	7,223.0	150.5	130.9	90.00	-392.7	4,612.9	890.5	609.1	281.43	3.164		
12,500.0	7,223.0	11,770.2	7,223.0	153.3	130.9	90.00	-392.7	4,612.9	972.2	688.0	284.22	3.421		

SRC Wiedeman Pad Sec.5-T5N-R66W - SRC Wiedeman 21-5-3CHZ - Wellbore #1 - Plan #2 (9-24-14)												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	
0.0	0.0	0.0	0.0	0.0	0.0	5.68	44.8	4.5	45.0				
100.0	100.0	100.0	100.0	0.1	0.1	5.68	44.8	4.5	45.0	44.8	0.22	200.330	
200.0	200.0	200.0	200.0	0.3	0.3	5.68	44.8	4.5	45.0	44.4	0.67	66.777	
300.0	300.0	300.0	300.0	0.6	0.6	5.68	44.8	4.5	45.0	43.9	1.12	40.066	
400.0	400.0	400.0	400.0	0.8	0.8	5.68	44.8	4.5	45.0	43.5	1.57	28.619	
500.0	500.0	500.0	500.0	1.0	1.0	5.68	44.8	4.5	45.0	43.0	2.02	22.259	CC, ES
600.0	600.0	598.5	598.4	1.2	1.2	5.23	46.5	4.3	46.7	44.2	2.47	18.920	
700.0	700.0	696.7	696.5	1.5	1.5	4.05	51.5	3.6	51.8	48.8	2.92	17.742	
800.0	800.0	794.4	793.9	1.7	1.7	2.53	59.8	2.6	60.2	56.8	3.37	17.834	
900.0	900.0	891.5	890.3	1.9	1.9	1.01	71.3	1.3	72.0	68.1	3.85	18.708	
1,000.0	1,000.0	989.5	987.2	2.1	2.2	-0.31	85.6	-0.5	86.5	82.2	4.35	19.908	
1,100.0	1,100.0	1,088.4	1,085.0	2.4	2.5	-1.27	100.1	-2.2	101.3	96.4	4.85	20.860	
1,200.0	1,200.0	1,187.3	1,182.8	2.6	2.8	-1.98	114.7	-4.0	116.1	110.7	5.37	21.603	
1,300.0	1,300.0	1,286.2	1,280.6	2.8	3.2	-2.54	129.3	-5.7	130.9	125.0	5.89	22.197	
1,400.0	1,400.0	1,385.1	1,378.4	3.0	3.5	-2.98	143.9	-7.5	145.7	139.2	6.42	22.682	
1,500.0	1,500.0	1,484.0	1,476.2	3.3	3.8	-3.34	158.4	-9.2	160.5	153.5	6.95	23.085	
1,600.0	1,600.0	1,582.9	1,574.0	3.5	4.1	-3.64	173.0	-11.0	175.3	167.8	7.48	23.424	
1,700.0	1,700.0	1,681.8	1,671.8	3.7	4.5	-3.89	187.6	-12.8	190.1	182.1	8.02	23.714	
1,800.0	1,800.0	1,780.6	1,769.6	3.9	4.8	-4.10	202.2	-14.5	204.9	196.4	8.55	23.963	
1,900.0	1,900.0	1,879.5	1,867.4	4.2	5.2	-4.29	216.7	-16.3	219.8	210.7	9.09	24.181	
2,000.0	2,000.0	1,978.4	1,965.2	4.4	5.5	-4.45	231.3	-18.0	234.6	225.0	9.63	24.372	
2,100.0	2,100.0	2,077.5	2,063.1	4.6	5.8	50.50	245.9	-19.8	248.3	239.0	9.36	26.526	
2,200.0	2,199.8	2,176.7	2,161.3	4.8	6.2	51.07	260.5	-21.5	259.9	250.1	9.82	26.453	
2,300.3	2,299.8	2,276.5	2,259.9	5.0	6.5	52.20	275.2	-23.3	269.4	259.1	10.30	26.164	
2,400.0	2,398.9	2,375.5	2,357.9	5.3	6.9	53.67	289.8	-25.1	277.9	267.1	10.78	25.788	
2,500.0	2,498.4	2,474.9	2,456.2	5.5	7.2	55.05	304.5	-26.8	286.6	275.4	11.27	25.440	
2,600.0	2,597.8	2,574.3	2,554.4	5.8	7.6	56.36	319.1	-28.6	295.5	283.7	11.76	25.118	
2,700.0	2,697.3	2,673.7	2,652.7	6.0	7.9	57.59	333.8	-30.4	304.5	292.2	12.27	24.819	
2,800.0	2,796.7	2,773.0	2,751.0	6.3	8.3	58.74	348.4	-32.1	313.7	300.9	12.78	24.542	
2,900.0	2,896.2	2,872.4	2,849.3	6.5	8.6	59.83	363.1	-33.9	322.9	309.6	13.30	24.283	
3,000.0	2,995.6	2,971.8	2,947.6	6.8	8.9	60.86	377.7	-35.7	332.3	318.5	13.82	24.042	
3,100.0	3,095.1	3,071.2	3,045.9	7.0	9.3	61.84	392.4	-37.4	341.8	327.4	14.35	23.816	
3,200.0	3,194.5	3,170.6	3,144.2	7.3	9.6	62.76	407.0	-39.2	351.4	336.5	14.89	23.605	
3,300.0	3,294.0	3,270.0	3,242.4	7.6	10.0	63.63	421.7	-41.0	361.0	345.6	15.42	23.407	
3,400.0	3,393.4	3,369.4	3,340.7	7.8	10.3	64.45	436.3	-42.7	370.8	354.8	15.97	23.222	
3,500.0	3,492.9	3,468.8	3,439.0	8.1	10.7	65.24	451.0	-44.5	380.6	364.1	16.51	23.047	
3,600.0	3,592.3	3,568.1	3,537.3	8.4	11.0	65.98	465.6	-46.3	390.4	373.4	17.06	22.883	
3,700.0	3,691.8	3,667.5	3,635.6	8.7	11.4	66.69	480.3	-48.0	400.4	382.8	17.62	22.729	
3,809.0	3,800.2	3,775.9	3,742.7	9.0	11.8	67.42	496.2	-49.9	411.3	393.1	18.22	22.570	
3,900.0	3,890.8	3,866.3	3,832.1	9.2	12.1	68.00	509.6	-51.6	421.0	402.3	18.69	22.527	
4,000.0	3,990.6	3,965.6	3,930.3	9.4	12.4	68.23	524.2	-53.3	432.9	413.7	19.14	22.621	
4,109.4	4,100.0	4,073.9	4,037.5	9.6	12.8	13.03	540.2	-55.2	447.4	425.9	21.46	20.848	
4,200.0	4,190.6	4,163.5	4,126.1	9.7	13.1	12.46	553.4	-56.8	460.0	438.1	21.96	20.946	
4,300.0	4,290.6	4,262.4	4,223.9	9.9	13.5	11.87	567.9	-58.6	474.1	451.6	22.54	21.032	
4,400.0	4,390.6	4,361.3	4,321.7	10.1	13.8	11.31	582.5	-60.3	488.2	465.1	23.12	21.116	
4,500.0	4,490.6	4,460.2	4,419.5	10.4	14.2	10.78	597.1	-62.1	502.3	478.6	23.70	21.198	
4,600.0	4,590.6	4,559.1	4,517.3	10.6	14.5	10.28	611.7	-63.9	516.5	492.2	24.27	21.278	
4,700.0	4,690.6	4,658.0	4,615.1	10.8	14.9	9.81	626.3	-65.6	530.7	505.9	24.85	21.357	
4,800.0	4,790.6	4,756.9	4,712.9	11.0	15.2	9.36	640.8	-67.4	545.0	519.6	25.43	21.433	
4,900.0	4,890.6	4,855.8	4,810.7	11.2	15.6	8.94	655.4	-69.1	559.3	533.3	26.00	21.507	
5,000.0	4,990.6	4,954.7	4,908.5	11.4	15.9	8.53	670.0	-70.9	573.6	547.0	26.58	21.579	
5,100.0	5,090.6	5,053.6	5,006.3	11.6	16.3	8.15	684.6	-72.6	587.9	560.8	27.16	21.650	

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Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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	Warning
5,200.0	5,190.6	5,152.5	5,104.1	11.8	16.6	7.78	699.1	-74.4	602.3	574.5	27.73	21.718	
5,300.0	5,290.6	5,251.3	5,201.8	12.1	17.0	7.43	713.7	-76.2	616.7	588.4	28.31	21.785	
5,400.0	5,390.6	5,350.2	5,299.6	12.3	17.3	7.10	728.3	-77.9	631.1	602.2	28.88	21.849	
5,500.0	5,490.6	5,449.1	5,397.4	12.5	17.7	6.78	742.9	-79.7	645.5	616.0	29.46	21.913	
5,600.0	5,590.6	5,548.0	5,495.2	12.7	18.0	6.48	757.4	-81.4	659.9	629.9	30.03	21.974	
5,700.0	5,690.6	5,652.4	5,598.5	12.9	18.4	6.17	772.7	-83.3	674.3	643.7	30.62	22.025	
5,800.0	5,790.6	5,781.7	5,726.8	13.1	18.7	5.88	787.8	-85.1	685.8	654.6	31.18	21.995	
5,900.0	5,890.6	5,912.0	5,856.8	13.3	19.0	5.71	797.2	-86.2	692.9	661.2	31.67	21.880	
6,000.0	5,990.6	6,043.0	5,987.7	13.6	19.2	5.65	800.8	-86.6	695.6	663.5	32.09	21.673	
6,100.0	6,090.6	6,145.9	6,090.6	13.8	19.3	5.65	800.8	-86.6	695.6	663.1	32.46	21.427	
6,200.0	6,190.6	6,245.9	6,190.6	14.0	19.5	5.65	800.8	-86.6	695.6	662.7	32.83	21.184	
6,300.0	6,290.6	6,345.9	6,290.6	14.2	19.6	5.65	800.8	-86.6	695.6	662.4	33.21	20.945	
6,328.7	6,319.3	6,374.6	6,319.3	14.3	19.6	5.65	800.8	-86.6	695.6	662.3	33.32	20.877	
6,400.0	6,390.6	6,440.8	6,385.5	14.4	19.7	5.78	800.8	-85.0	695.8	662.2	33.57	20.728	
6,500.0	6,490.6	6,529.8	6,473.7	14.6	19.9	6.73	800.9	-73.4	697.3	663.4	33.89	20.575	
6,516.2	6,506.8	6,543.9	6,487.5	14.7	19.9	6.96	800.9	-70.6	697.7	663.8	33.94	20.557	
6,550.0	6,540.6	6,573.1	6,516.0	14.7	19.9	-82.05	801.0	-63.9	698.7	668.4	30.23	23.109	
6,600.0	6,590.4	6,615.9	6,557.1	14.8	20.0	-81.24	801.0	-51.9	700.1	669.7	30.42	23.016	
6,650.0	6,639.8	6,658.3	6,597.0	14.9	20.0	-80.47	801.1	-37.7	701.7	671.1	30.59	22.939	
6,700.0	6,688.6	6,700.0	6,635.3	15.0	20.0	-79.75	801.3	-21.5	703.2	672.5	30.74	22.875	
6,750.0	6,736.5	6,742.0	6,673.0	15.0	20.1	-79.07	801.4	-2.8	704.8	673.9	30.89	22.818	
6,800.0	6,783.2	6,783.4	6,708.9	15.1	20.1	-78.44	801.5	17.6	706.3	675.3	31.02	22.767	
6,850.0	6,828.7	6,824.4	6,743.4	15.2	20.2	-77.85	801.7	40.0	707.8	676.6	31.19	22.692	
6,900.0	6,872.5	6,865.3	6,776.3	15.3	20.3	-77.32	801.9	64.1	709.2	677.9	31.34	22.629	
6,950.0	6,914.6	6,905.9	6,807.7	15.3	20.3	-76.84	802.1	89.9	710.5	679.0	31.53	22.533	
7,000.0	6,954.6	6,950.0	6,840.0	15.5	20.4	-76.38	802.3	119.9	711.8	680.0	31.79	22.391	
7,050.0	6,992.5	6,986.5	6,865.3	15.7	20.5	-76.04	802.5	146.2	712.8	680.7	32.09	22.214	
7,100.0	7,028.1	7,026.6	6,891.5	15.9	20.6	-75.73	802.7	176.5	713.8	681.3	32.49	21.972	
7,150.0	7,061.1	7,066.5	6,915.9	16.2	20.7	-75.47	802.9	208.1	714.6	681.6	32.98	21.665	
7,200.0	7,091.4	7,106.4	6,938.5	16.6	20.8	-75.26	803.2	241.0	715.2	681.6	33.59	21.289	
7,250.0	7,118.8	7,150.0	6,961.0	17.0	21.0	-75.11	803.4	278.3	715.6	681.3	34.37	20.820	
7,300.0	7,143.3	7,186.0	6,977.8	17.5	21.2	-75.03	803.7	310.1	715.9	680.7	35.24	20.317	
7,350.0	7,164.6	7,225.7	6,994.5	18.1	21.5	-75.01	803.9	346.1	716.0	679.7	36.28	19.737	
7,400.0	7,182.8	7,265.4	7,009.2	18.8	21.8	-75.04	804.2	383.1	715.9	678.4	37.46	19.110	
7,450.0	7,197.6	7,305.2	7,021.9	19.6	22.1	-75.13	804.4	420.7	715.6	676.8	38.78	18.450	
7,500.0	7,209.1	7,350.0	7,033.6	20.4	22.7	-75.29	804.8	464.0	715.1	674.8	40.33	17.733	
7,550.0	7,217.2	7,384.9	7,040.8	21.3	23.1	-75.48	805.0	498.1	714.5	672.6	41.84	17.076	
7,600.0	7,221.8	7,424.8	7,047.1	22.2	23.7	-75.74	805.3	537.6	713.7	670.1	43.54	16.392	
7,641.2	7,223.0	7,457.8	7,050.6	23.0	24.2	-76.00	805.5	570.4	712.9	667.9	45.00	15.841	
7,700.0	7,223.0	7,505.2	7,052.9	24.2	25.0	-76.18	805.9	617.7	712.2	665.1	47.06	15.134	
7,741.9	7,223.0	7,544.3	7,053.0	25.1	25.7	-76.19	806.1	656.8	712.1	663.4	48.69	14.627	
7,800.0	7,223.0	7,602.4	7,053.0	26.3	26.8	-76.19	806.6	714.9	712.1	661.1	51.04	13.952	
7,900.0	7,223.0	7,702.4	7,053.0	28.5	28.8	-76.19	807.3	814.9	712.1	656.8	55.32	12.872	
8,000.0	7,223.0	7,802.4	7,053.0	30.9	31.0	-76.19	808.0	914.9	712.1	652.3	59.79	11.909	
8,100.0	7,223.0	7,902.4	7,053.0	33.3	33.2	-76.19	808.7	1,014.9	712.1	647.7	64.42	11.053	
8,200.0	7,223.0	8,002.4	7,053.0	35.8	35.6	-76.19	809.4	1,114.9	712.1	642.9	69.17	10.294	
8,300.0	7,223.0	8,102.4	7,053.0	38.3	38.0	-76.19	810.2	1,214.9	712.0	638.0	74.02	9.620	
8,400.0	7,223.0	8,202.4	7,053.0	40.8	40.5	-76.19	810.9	1,314.9	712.0	633.1	78.95	9.019	
8,500.0	7,223.0	8,302.4	7,053.0	43.4	43.0	-76.19	811.6	1,414.9	712.0	628.1	83.94	8.482	
8,600.0	7,223.0	8,402.4	7,053.0	46.0	45.5	-76.19	812.3	1,514.9	712.0	623.0	89.00	8.000	
8,700.0	7,223.0	8,502.4	7,053.0	48.6	48.1	-76.19	813.1	1,614.9	712.0	617.9	94.09	7.567	
8,800.0	7,223.0	8,602.4	7,053.0	51.3	50.7	-76.19	813.8	1,714.9	712.0	612.7	99.23	7.175	

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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	Warning
8,900.0	7,223.0	8,702.4	7,053.0	54.0	53.3	-76.19	814.5	1,814.9	711.9	607.5	104.40	6.819	
9,000.0	7,223.0	8,802.4	7,053.0	56.6	55.9	-76.18	815.2	1,914.9	711.9	602.3	109.60	6.496	
9,100.0	7,223.0	8,902.4	7,053.0	59.3	58.6	-76.18	815.9	2,014.9	711.9	597.1	114.82	6.200	
9,200.0	7,223.0	9,002.4	7,053.0	62.0	61.3	-76.18	816.7	2,114.9	711.9	591.8	120.07	5.929	
9,300.0	7,223.0	9,102.4	7,053.0	64.7	63.9	-76.18	817.4	2,214.9	711.9	586.5	125.33	5.680	
9,400.0	7,223.0	9,202.4	7,053.0	67.5	66.6	-76.18	818.1	2,314.9	711.9	581.2	130.61	5.450	
9,500.0	7,223.0	9,302.4	7,053.0	70.2	69.3	-76.18	818.8	2,414.9	711.8	575.9	135.91	5.238	
9,600.0	7,223.0	9,402.4	7,053.0	72.9	72.0	-76.18	819.5	2,514.9	711.8	570.6	141.22	5.041	
9,700.0	7,223.0	9,502.4	7,053.0	75.7	74.7	-76.18	820.3	2,614.9	711.8	565.3	146.54	4.858	
9,800.0	7,223.0	9,602.4	7,053.0	78.4	77.5	-76.18	821.0	2,714.9	711.8	559.9	151.87	4.687	
9,900.0	7,223.0	9,702.4	7,053.0	81.2	80.2	-76.18	821.7	2,814.9	711.8	554.6	157.21	4.528	
10,000.0	7,223.0	9,802.4	7,053.0	83.9	82.9	-76.18	822.4	2,914.8	711.8	549.2	162.55	4.379	
10,100.0	7,223.0	9,902.4	7,053.0	86.7	85.7	-76.18	823.1	3,014.8	711.7	543.8	167.91	4.239	
10,200.0	7,223.0	10,002.4	7,053.0	89.4	88.4	-76.18	823.9	3,114.8	711.7	538.4	173.27	4.108	
10,300.0	7,223.0	10,102.4	7,053.0	92.2	91.2	-76.18	824.6	3,214.8	711.7	533.1	178.64	3.984	
10,400.0	7,223.0	10,202.4	7,053.0	94.9	93.9	-76.18	825.3	3,314.8	711.7	527.7	184.01	3.868	
10,500.0	7,223.0	10,302.4	7,053.0	97.7	96.7	-76.18	826.0	3,414.8	711.7	522.3	189.39	3.758	
10,600.0	7,223.0	10,402.4	7,053.0	100.5	99.4	-76.18	826.7	3,514.8	711.7	516.9	194.78	3.654	
10,700.0	7,223.0	10,502.4	7,053.0	103.2	102.2	-76.18	827.5	3,614.8	711.6	511.5	200.17	3.555	
10,800.0	7,223.0	10,602.4	7,053.0	106.0	104.9	-76.18	828.2	3,714.8	711.6	506.1	205.56	3.462	
10,900.0	7,223.0	10,702.4	7,053.0	108.8	107.7	-76.18	828.9	3,814.8	711.6	500.6	210.96	3.373	
11,000.0	7,223.0	10,802.4	7,053.0	111.6	110.5	-76.18	829.6	3,914.8	711.6	495.2	216.36	3.289	
11,100.0	7,223.0	10,902.4	7,053.0	114.3	113.2	-76.18	830.3	4,014.8	711.6	489.8	221.76	3.209	
11,200.0	7,223.0	11,002.4	7,053.0	117.1	116.0	-76.18	831.1	4,114.8	711.6	484.4	227.16	3.132	
11,300.0	7,223.0	11,102.4	7,053.0	119.9	118.8	-76.18	831.8	4,214.8	711.5	479.0	232.57	3.059	
11,400.0	7,223.0	11,202.4	7,053.0	122.7	121.5	-76.18	832.5	4,314.8	711.5	473.5	237.98	2.990	
11,500.0	7,223.0	11,302.4	7,053.0	125.5	124.3	-76.18	833.2	4,414.8	711.5	468.1	243.40	2.923	
11,600.0	7,223.0	11,402.4	7,053.0	128.2	127.1	-76.18	833.9	4,514.8	711.5	462.7	248.81	2.859	
11,700.0	7,223.0	11,502.4	7,053.0	131.0	129.9	-76.18	834.7	4,614.8	711.5	457.2	254.23	2.798	
11,800.0	7,223.0	11,602.4	7,053.0	133.8	132.7	-76.18	835.4	4,714.8	711.5	451.8	259.65	2.740	
11,900.0	7,223.0	11,702.4	7,053.0	136.6	135.4	-76.18	836.1	4,814.8	711.4	446.4	265.07	2.684	
12,000.0	7,223.0	11,802.4	7,053.0	139.4	138.2	-76.17	836.8	4,914.8	711.4	440.9	270.50	2.630	
12,100.0	7,223.0	11,902.4	7,053.0	142.2	141.0	-76.17	837.5	5,014.8	711.4	435.5	275.92	2.578	
12,200.0	7,223.0	12,002.4	7,053.0	145.0	143.8	-76.17	838.3	5,114.8	711.4	430.0	281.35	2.528	
12,300.0	7,223.0	12,102.4	7,053.0	147.8	146.6	-76.17	839.0	5,214.8	711.4	424.6	286.78	2.481	
12,400.0	7,223.0	12,202.4	7,053.0	150.5	149.4	-76.17	839.7	5,314.8	711.3	419.1	292.21	2.434	
12,500.0	7,223.0	12,302.4	7,053.0	153.3	152.1	-76.17	840.4	5,414.8	711.3	413.7	297.64	2.390	
12,600.0	7,223.0	12,402.4	7,053.0	156.1	154.9	-76.17	841.1	5,514.8	711.3	408.2	303.07	2.347	
12,700.0	7,223.0	12,502.4	7,053.0	158.9	157.7	-76.17	841.9	5,614.8	711.3	402.8	308.50	2.306	
12,800.0	7,223.0	12,602.4	7,053.0	161.7	160.5	-76.17	842.6	5,714.8	711.3	397.3	313.94	2.266	
12,900.0	7,223.0	12,702.4	7,053.0	164.5	163.3	-76.17	843.3	5,814.8	711.3	391.9	319.37	2.227	
13,000.0	7,223.0	12,802.4	7,053.0	167.3	166.1	-76.17	844.0	5,914.8	711.2	386.4	324.81	2.190	
13,100.0	7,223.0	12,902.4	7,053.0	170.1	168.9	-76.17	844.7	6,014.8	711.2	381.0	330.25	2.154	
13,200.0	7,223.0	13,002.4	7,053.0	172.9	171.7	-76.17	845.5	6,114.8	711.2	375.5	335.69	2.119	
13,300.0	7,223.0	13,102.4	7,053.0	175.7	174.4	-76.17	846.2	6,214.8	711.2	370.1	341.13	2.085	
13,400.0	7,223.0	13,202.4	7,053.0	178.5	177.2	-76.17	846.9	6,314.8	711.2	364.6	346.57	2.052	
13,500.0	7,223.0	13,302.4	7,053.0	181.3	180.0	-76.17	847.6	6,414.8	711.2	359.2	352.01	2.020	
13,600.0	7,223.0	13,402.4	7,053.0	184.1	182.8	-76.17	848.4	6,514.8	711.1	353.7	357.45	1.990	
13,700.0	7,223.0	13,502.4	7,053.0	186.9	185.6	-76.17	849.1	6,614.8	711.1	348.2	362.89	1.960	
13,800.0	7,223.0	13,602.4	7,053.0	189.7	188.4	-76.17	849.8	6,714.8	711.1	342.8	368.33	1.931	
13,900.0	7,223.0	13,702.4	7,053.0	192.5	191.2	-76.17	850.5	6,814.7	711.1	337.3	373.78	1.902	
14,000.0	7,223.0	13,802.4	7,053.0	195.3	194.0	-76.17	851.2	6,914.7	711.1	331.9	379.22	1.875	

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design		SRC Wiedeman Pad Sec.5-T5N-R66W - SRC Wiedeman 21-5-3CHZ - Wellbore #1 - Plan #2 (9-24-14)										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		
14,100.0	7,223.0	13,902.4	7,053.0	198.1	196.8	-76.17	852.0	7,014.7	711.1	326.4	384.67	1.849		
14,200.0	7,223.0	14,002.4	7,053.0	200.9	199.6	-76.17	852.7	7,114.7	711.0	320.9	390.11	1.823		
14,300.0	7,223.0	14,102.4	7,053.0	203.6	202.4	-76.17	853.4	7,214.7	711.0	315.5	395.56	1.798		
14,400.0	7,223.0	14,202.4	7,053.0	206.4	205.2	-76.17	854.1	7,314.7	711.0	310.0	401.00	1.773		
14,500.0	7,223.0	14,302.4	7,053.0	209.2	208.0	-76.17	854.8	7,414.7	711.0	304.5	406.45	1.749		
14,600.0	7,223.0	14,402.4	7,053.0	212.0	210.8	-76.17	855.6	7,514.7	711.0	299.1	411.90	1.726		
14,700.0	7,223.0	14,502.4	7,053.0	214.8	213.6	-76.17	856.3	7,614.7	711.0	293.6	417.34	1.704		
14,800.0	7,223.0	14,602.4	7,053.0	217.6	216.4	-76.17	857.0	7,714.7	710.9	288.2	422.79	1.682		
14,900.0	7,223.0	14,702.4	7,053.0	220.4	219.2	-76.17	857.7	7,814.7	710.9	282.7	428.24	1.660		
15,000.0	7,223.0	14,802.4	7,053.0	223.2	222.0	-76.16	858.4	7,914.7	710.9	277.2	433.69	1.639		
15,100.0	7,223.0	14,902.4	7,053.0	226.0	224.8	-76.16	859.2	8,014.7	710.9	271.8	439.14	1.619		
15,200.0	7,223.0	15,002.4	7,053.0	228.8	227.6	-76.16	859.9	8,114.7	710.9	266.3	444.59	1.599		
15,300.0	7,223.0	15,102.4	7,053.0	231.6	230.3	-76.16	860.6	8,214.7	710.9	260.8	450.04	1.580		
15,400.0	7,223.0	15,202.4	7,053.0	234.4	233.1	-76.16	861.3	8,314.7	710.8	255.4	455.49	1.561		
15,500.0	7,223.0	15,302.4	7,053.0	237.2	235.9	-76.16	862.0	8,414.7	710.8	249.9	460.94	1.542		
15,600.0	7,223.0	15,402.4	7,053.0	240.0	238.7	-76.16	862.8	8,514.7	710.8	244.4	466.39	1.524		
15,700.0	7,223.0	15,502.4	7,053.0	242.8	241.5	-76.16	863.5	8,614.7	710.8	239.0	471.84	1.506		
15,800.0	7,223.0	15,602.4	7,053.0	245.6	244.3	-76.16	864.2	8,714.7	710.8	233.5	477.29	1.489	Level 3	
15,900.0	7,223.0	15,702.4	7,053.0	248.4	247.1	-76.16	864.9	8,814.7	710.8	228.0	482.74	1.472	Level 3	
16,000.0	7,223.0	15,802.4	7,053.0	251.2	249.9	-76.16	865.6	8,914.7	710.7	222.5	488.20	1.456	Level 3	
16,100.0	7,223.0	15,902.4	7,053.0	254.0	252.7	-76.16	866.4	9,014.7	710.7	217.1	493.65	1.440	Level 3	
16,200.0	7,223.0	16,002.4	7,053.0	256.8	255.5	-76.16	867.1	9,114.7	710.7	211.6	499.10	1.424	Level 3	
16,300.0	7,223.0	16,102.4	7,053.0	259.6	258.3	-76.16	867.8	9,214.7	710.7	206.1	504.55	1.409	Level 3	
16,400.0	7,223.0	16,202.4	7,053.0	262.5	261.1	-76.16	868.5	9,314.7	710.7	200.7	510.01	1.393	Level 3	
16,500.0	7,223.0	16,302.4	7,053.0	265.3	263.9	-76.16	869.2	9,414.7	710.7	195.2	515.46	1.379	Level 3	
16,600.0	7,223.0	16,402.4	7,053.0	268.1	266.7	-76.16	870.0	9,514.7	710.6	189.7	520.92	1.364	Level 3	
16,700.0	7,223.0	16,502.4	7,053.0	270.9	269.5	-76.16	870.7	9,614.7	710.6	184.3	526.37	1.350	Level 3	
16,800.0	7,223.0	16,602.4	7,053.0	273.7	272.3	-76.16	871.4	9,714.7	710.6	178.8	531.82	1.336	Level 3	
16,900.0	7,223.0	16,702.4	7,053.0	276.5	275.1	-76.16	872.1	9,814.7	710.6	173.3	537.28	1.323	Level 3	
17,000.0	7,223.0	16,802.4	7,053.0	279.3	277.9	-76.16	872.8	9,914.7	710.6	167.8	542.73	1.309	Level 3	
17,020.6	7,223.0	16,823.0	7,053.0	279.8	278.5	-76.16	873.0	9,935.2	710.6	166.7	543.85	1.307	Level 3, SF	

Offset Design		SRC Wiedeman Pad Sec.5-T5N-R66W - SRC Wiedeman 21-5-3NBHZ - Wellbore #1 - Plan #3 (9-24-14)										Offset Site Error:		0.0 ft
Survey Program: 0-MWD												Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							
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	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	5.32	29.9	2.8	30.0					
100.0	100.0	100.0	100.0	0.1	0.1	5.32	29.9	2.8	30.0	29.8	0.22	133.468		
200.0	200.0	200.0	200.0	0.3	0.3	5.32	29.9	2.8	30.0	29.3	0.67	44.489		
300.0	300.0	300.0	300.0	0.6	0.6	5.32	29.9	2.8	30.0	28.9	1.12	26.694		
400.0	400.0	400.0	400.0	0.8	0.8	5.32	29.9	2.8	30.0	28.4	1.57	19.067		
500.0	500.0	500.0	500.0	1.0	1.0	5.32	29.9	2.8	30.0	28.0	2.02	14.830		
600.0	600.0	600.0	600.0	1.2	1.2	5.32	29.9	2.8	30.0	27.5	2.47	12.133		
700.0	700.0	700.0	700.0	1.5	1.5	5.32	29.9	2.8	30.0	27.1	2.92	10.267		
800.0	800.0	800.0	800.0	1.7	1.7	5.32	29.9	2.8	30.0	26.6	3.37	8.898		
900.0	900.0	900.0	900.0	1.9	1.9	5.32	29.9	2.8	30.0	26.2	3.82	7.851		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	5.32	29.9	2.8	30.0	25.7	4.27	7.025 CC		
1,100.0	1,100.0	1,099.0	1,099.0	2.4	2.4	4.38	31.5	2.4	31.6	26.9	4.72	6.710		
1,200.0	1,200.0	1,197.7	1,197.6	2.6	2.6	2.07	36.5	1.3	36.6	31.5	5.16	7.095		
1,300.0	1,300.0	1,296.0	1,295.5	2.8	2.8	-0.63	44.8	-0.5	45.0	39.4	5.62	8.016		
1,400.0	1,400.0	1,393.6	1,392.3	3.0	3.0	-3.06	56.2	-3.0	56.8	50.8	6.08	9.348		
1,500.0	1,500.0	1,491.9	1,489.6	3.3	3.3	-4.95	70.2	-6.1	71.2	64.7	6.56	10.860		
1,600.0	1,600.0	1,590.8	1,587.4	3.5	3.6	-6.22	84.4	-9.2	85.9	78.8	7.05	12.175		
1,700.0	1,700.0	1,689.7	1,685.3	3.7	3.9	-7.13	98.6	-12.3	100.5	92.9	7.55	13.308		
1,800.0	1,800.0	1,788.6	1,783.1	3.9	4.2	-7.80	112.9	-15.5	115.2	107.1	8.06	14.292		
1,900.0	1,900.0	1,887.5	1,880.9	4.2	4.5	-8.32	127.1	-18.6	129.8	121.3	8.57	15.152		
2,000.0	2,000.0	1,986.4	1,978.8	4.4	4.8	-8.73	141.3	-21.7	144.5	135.4	9.08	15.909		
2,100.0	2,100.0	2,085.5	2,076.8	4.6	5.1	46.19	155.5	-24.8	158.0	148.7	9.25	17.072		
2,200.0	2,199.8	2,184.9	2,175.0	4.8	5.4	46.99	169.8	-28.0	169.1	159.4	9.71	17.420		
2,300.3	2,299.8	2,284.7	2,273.8	5.0	5.7	48.54	184.1	-31.1	178.0	167.8	10.17	17.501		
2,400.0	2,398.9	2,383.8	2,371.9	5.3	6.1	50.47	198.4	-34.3	185.8	175.2	10.65	17.453		
2,500.0	2,498.4	2,483.3	2,470.3	5.5	6.4	52.25	212.7	-37.4	193.9	182.7	11.13	17.414		
2,600.0	2,597.8	2,582.8	2,568.7	5.8	6.7	53.88	227.0	-40.5	202.1	190.5	11.63	17.380		
2,700.0	2,697.3	2,682.4	2,667.1	6.0	7.1	55.38	241.3	-43.7	210.5	198.3	12.13	17.350		
2,800.0	2,796.7	2,781.9	2,765.5	6.3	7.4	56.77	255.6	-46.8	219.0	206.3	12.64	17.324		
2,900.0	2,896.2	2,881.4	2,864.0	6.5	7.7	58.06	269.9	-50.0	227.6	214.4	13.16	17.299		
3,000.0	2,995.6	2,980.9	2,962.4	6.8	8.1	59.25	284.2	-53.1	236.3	222.7	13.68	17.277		
3,100.0	3,095.1	3,080.4	3,060.8	7.0	8.4	60.35	298.5	-56.3	245.2	231.0	14.21	17.256		
3,200.0	3,194.5	3,179.9	3,159.2	7.3	8.8	61.38	312.8	-59.4	254.1	239.3	14.74	17.236		
3,300.0	3,294.0	3,279.4	3,257.6	7.6	9.1	62.34	327.1	-62.5	263.1	247.8	15.28	17.217		
3,400.0	3,393.4	3,378.9	3,356.0	7.8	9.4	63.23	341.4	-65.7	272.1	256.3	15.82	17.198		
3,500.0	3,492.9	3,478.4	3,454.5	8.1	9.8	64.07	355.7	-68.8	281.2	264.9	16.37	17.181		
3,600.0	3,592.3	3,577.9	3,552.9	8.4	10.1	64.85	369.9	-72.0	290.4	273.5	16.92	17.164		
3,700.0	3,691.8	3,677.4	3,651.3	8.7	10.5	65.59	384.2	-75.1	299.6	282.2	17.47	17.148		
3,809.0	3,800.2	3,785.9	3,758.6	9.0	10.8	66.34	399.8	-78.5	309.7	291.7	18.08	17.132		
3,900.0	3,890.8	3,876.4	3,848.1	9.2	11.1	66.86	412.8	-81.4	318.8	300.2	18.55	17.189		
4,000.0	3,990.6	3,975.7	3,946.4	9.4	11.5	66.90	427.1	-84.5	330.0	311.0	18.99	17.378		
4,109.4	4,100.0	4,084.1	4,053.6	9.6	11.9	11.36	442.7	-88.0	343.9	323.4	20.48	16.792		
4,200.0	4,190.6	4,173.7	4,142.3	9.7	12.2	10.50	455.6	-90.8	356.2	335.2	20.99	16.971		
4,300.0	4,290.6	4,272.6	4,240.1	9.9	12.5	9.61	469.8	-93.9	369.8	348.2	21.57	17.147		
4,400.0	4,390.6	4,371.6	4,337.9	10.1	12.9	8.79	484.0	-97.0	383.5	361.4	22.14	17.318		
4,500.0	4,490.6	4,470.5	4,435.8	10.4	13.2	8.03	498.2	-100.2	397.3	374.5	22.72	17.484		
4,600.0	4,590.6	4,569.4	4,533.6	10.6	13.5	7.31	512.4	-103.3	411.1	387.8	23.30	17.645		
4,700.0	4,690.6	4,677.0	4,640.2	10.8	13.9	6.62	527.2	-106.5	424.5	400.6	23.88	17.778		
4,800.0	4,790.6	4,792.9	4,755.4	11.0	14.2	6.09	539.2	-109.2	434.5	410.1	24.39	17.811		
4,900.0	4,890.6	4,909.7	4,871.9	11.2	14.4	5.78	546.6	-110.8	440.6	415.8	24.85	17.731		
5,000.0	4,990.6	5,026.8	4,989.0	11.4	14.6	5.66	549.4	-111.4	442.9	417.7	25.26	17.534		
5,100.0	5,090.6	5,128.4	5,090.6	11.6	14.7	5.66	549.4	-111.4	443.0	417.3	25.64	17.277		

COMPASS 2003.21 Build 46

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design				SRC Wiedeman Pad Sec.5-T5N-R66W - SRC Wiedeman 21-5-3NBHZ - Wellbore #1 - Plan #3 (9-24-14)								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		
5,200.0	5,190.6	5,228.4	5,190.6	11.8	14.9	5.66	549.4	-111.4	443.0	416.9	26.03	17.020		
5,300.0	5,290.6	5,328.4	5,290.6	12.1	15.1	5.66	549.4	-111.4	443.0	416.5	26.41	16.770		
5,400.0	5,390.6	5,428.4	5,390.6	12.3	15.2	5.66	549.4	-111.4	443.0	416.2	26.80	16.525		
5,500.0	5,490.6	5,528.4	5,490.6	12.5	15.4	5.66	549.4	-111.4	443.0	415.8	27.20	16.287		
5,600.0	5,590.6	5,628.4	5,590.6	12.7	15.6	5.66	549.4	-111.4	443.0	415.4	27.59	16.055		
5,700.0	5,690.6	5,728.4	5,690.6	12.9	15.8	5.66	549.4	-111.4	443.0	415.0	27.99	15.828		
5,800.0	5,790.6	5,828.4	5,790.6	13.1	15.9	5.66	549.4	-111.4	443.0	414.6	28.38	15.607		
5,900.0	5,890.6	5,928.4	5,890.6	13.3	16.1	5.66	549.4	-111.4	443.0	414.2	28.78	15.391		
6,000.0	5,990.6	6,028.4	5,990.6	13.6	16.3	5.66	549.4	-111.4	443.0	413.8	29.18	15.181		
6,100.0	6,090.6	6,128.4	6,090.6	13.8	16.5	5.66	549.4	-111.4	443.0	413.4	29.58	14.975		
6,200.0	6,190.6	6,228.4	6,190.6	14.0	16.6	5.66	549.4	-111.4	443.0	413.0	29.98	14.774		
6,300.0	6,290.6	6,328.4	6,290.6	14.2	16.8	5.66	549.4	-111.4	443.0	412.6	30.38	14.578		
6,400.0	6,390.6	6,428.4	6,390.6	14.4	17.0	5.66	549.4	-111.4	443.0	412.2	30.79	14.387		
6,500.0	6,490.6	6,528.4	6,490.6	14.6	17.2	5.66	549.4	-111.4	443.0	411.8	31.19	14.200		
6,516.2	6,506.8	6,544.6	6,506.8	14.7	17.2	5.66	549.4	-111.4	443.0	411.7	31.26	14.170		
6,550.0	6,540.6	6,576.3	6,538.5	14.7	17.3	-83.92	549.4	-110.7	442.9	413.2	29.77	14.879		
6,600.0	6,590.4	6,623.3	6,585.3	14.8	17.3	-83.96	549.4	-107.1	442.9	413.0	29.94	14.794		
6,650.0	6,639.8	6,670.2	6,631.8	14.9	17.4	-84.02	549.5	-100.4	442.9	412.8	30.09	14.718		
6,700.0	6,688.6	6,717.2	6,677.8	15.0	17.5	-84.10	549.5	-90.7	442.8	412.6	30.23	14.648		
6,750.0	6,736.5	6,764.3	6,723.0	15.0	17.5	-84.22	549.6	-78.0	442.7	412.3	30.36	14.581		
6,800.0	6,783.2	6,811.4	6,767.4	15.1	17.6	-84.36	549.7	-62.3	442.6	412.1	30.50	14.514		
6,850.0	6,828.7	6,858.5	6,810.8	15.2	17.6	-84.53	549.9	-43.7	442.5	411.8	30.64	14.441		
6,900.0	6,872.5	6,905.8	6,852.8	15.3	17.7	-84.72	550.0	-22.3	442.3	411.5	30.81	14.357		
6,950.0	6,914.6	6,953.1	6,893.5	15.3	17.7	-84.94	550.2	2.0	442.2	411.2	31.02	14.256		
7,000.0	6,954.6	7,000.0	6,932.1	15.5	17.8	-85.17	550.4	28.5	442.0	410.7	31.28	14.131		
7,050.0	6,992.5	7,048.1	6,969.8	15.7	17.9	-85.44	550.6	58.4	441.8	410.2	31.62	13.972		
7,100.0	7,028.1	7,095.8	7,005.2	15.9	17.9	-85.72	550.9	90.4	441.7	409.6	32.06	13.777		
7,150.0	7,061.1	7,143.6	7,038.4	16.2	18.0	-86.03	551.1	124.8	441.5	408.9	32.61	13.541		
7,200.0	7,091.4	7,191.6	7,069.3	16.6	18.2	-86.35	551.4	161.5	441.3	408.0	33.28	13.260		
7,250.0	7,118.8	7,239.7	7,097.8	17.0	18.3	-86.70	551.7	200.2	441.2	407.1	34.10	12.937		
7,300.0	7,143.3	7,288.0	7,123.7	17.5	18.6	-87.05	552.0	241.0	441.0	405.9	35.07	12.574		
7,350.0	7,164.6	7,336.5	7,146.9	18.1	19.0	-87.43	552.3	283.5	440.9	404.7	36.20	12.178		
7,400.0	7,182.8	7,385.2	7,167.3	18.8	19.5	-87.81	552.6	327.7	440.7	403.3	37.48	11.758		
7,450.0	7,197.6	7,434.0	7,184.6	19.6	20.1	-88.21	552.9	373.4	440.6	401.7	38.92	11.322		
7,500.0	7,209.1	7,483.1	7,198.8	20.4	20.8	-88.62	553.3	420.3	440.5	400.0	40.49	10.880		
7,550.0	7,217.2	7,532.4	7,209.9	21.3	21.5	-89.03	553.6	468.4	440.5	398.3	42.18	10.441		
7,600.0	7,221.8	7,581.8	7,217.6	22.2	22.4	-89.45	554.0	517.2	440.4	396.4	43.99	10.012		
7,641.2	7,223.0	7,622.8	7,221.5	23.0	23.1	-89.80	554.3	558.0	440.4	394.9	45.54	9.671		
7,700.0	7,223.0	7,681.5	7,223.0	24.2	24.2	-90.00	554.7	616.7	440.4	392.5	47.85	9.204		
7,800.0	7,223.0	7,781.5	7,223.0	26.3	26.2	-90.00	555.4	716.7	440.4	388.3	52.05	8.461		
7,900.0	7,223.0	7,881.5	7,223.0	28.5	28.4	-90.00	556.1	816.7	440.4	383.9	56.48	7.797		
8,000.0	7,223.0	7,981.5	7,223.0	30.9	30.7	-90.00	556.9	916.7	440.4	379.3	61.11	7.206		
8,100.0	7,223.0	8,081.5	7,223.0	33.3	33.0	-90.00	557.6	1,016.7	440.3	374.5	65.89	6.683		
8,200.0	7,223.0	8,181.5	7,223.0	35.8	35.4	-90.00	558.3	1,116.7	440.3	369.5	70.79	6.220		
8,300.0	7,223.0	8,281.5	7,223.0	38.3	37.9	-90.00	559.1	1,216.7	440.3	364.5	75.80	5.809		
8,400.0	7,223.0	8,381.5	7,223.0	40.8	40.4	-90.00	559.8	1,316.7	440.3	359.4	80.88	5.444		
8,500.0	7,223.0	8,481.5	7,223.0	43.4	42.9	-90.00	560.5	1,416.7	440.3	354.3	86.03	5.118		
8,600.0	7,223.0	8,581.5	7,223.0	46.0	45.5	-90.00	561.2	1,516.7	440.3	349.1	91.23	4.826		
8,700.0	7,223.0	8,681.5	7,223.0	48.6	48.1	-90.00	562.0	1,616.7	440.3	343.8	96.48	4.563		
8,800.0	7,223.0	8,781.5	7,223.0	51.3	50.7	-90.00	562.7	1,716.7	440.3	338.5	101.77	4.326		
8,900.0	7,223.0	8,881.5	7,223.0	54.0	53.4	-90.00	563.4	1,816.7	440.3	333.2	107.10	4.111		
9,000.0	7,223.0	8,981.5	7,223.0	56.6	56.1	-90.00	564.1	1,916.7	440.3	327.8	112.45	3.915		

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

Offset Design		SRC Wiedeman Pad Sec.5-T5N-R66W - SRC Wiedeman 21-5-3NBHZ - Wellbore #1 - Plan #3 (9-24-14)										Offset Site Error:		0.0 ft
Survey Program: 0-MWD												Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N-S (ft)	+E-W (ft)	(ft)	(ft)	(ft)			
9,100.0	7,223.0	9,081.5	7,223.0	59.3	58.7	-90.00	564.9	2,016.6	440.2	322.4	117.82	3.737		
9,200.0	7,223.0	9,181.5	7,223.0	62.0	61.4	-90.00	565.6	2,116.6	440.2	317.0	123.22	3.573		
9,300.0	7,223.0	9,281.5	7,223.0	64.7	64.1	-90.00	566.3	2,216.6	440.2	311.6	128.64	3.422		
9,400.0	7,223.0	9,381.5	7,223.0	67.5	66.8	-90.00	567.1	2,316.6	440.2	306.1	134.07	3.284		
9,500.0	7,223.0	9,481.5	7,223.0	70.2	69.5	-90.00	567.8	2,416.6	440.2	300.7	139.51	3.155		
9,600.0	7,223.0	9,581.5	7,223.0	72.9	72.2	-90.00	568.5	2,516.6	440.2	295.2	144.97	3.036		
9,700.0	7,223.0	9,681.5	7,223.0	75.7	75.0	-90.00	569.2	2,616.6	440.2	289.7	150.44	2.926		
9,800.0	7,223.0	9,781.5	7,223.0	78.4	77.7	-90.00	570.0	2,716.6	440.2	284.3	155.92	2.823		
9,900.0	7,223.0	9,881.5	7,223.0	81.2	80.4	-90.00	570.7	2,816.6	440.2	278.8	161.41	2.727		
10,000.0	7,223.0	9,981.5	7,223.0	83.9	83.2	-90.00	571.4	2,916.6	440.2	273.2	166.91	2.637		
10,100.0	7,223.0	10,081.5	7,223.0	86.7	85.9	-90.00	572.2	3,016.6	440.1	267.7	172.42	2.553		
10,200.0	7,223.0	10,181.5	7,223.0	89.4	88.7	-90.00	572.9	3,116.6	440.1	262.2	177.93	2.474		
10,300.0	7,223.0	10,281.5	7,223.0	92.2	91.4	-90.00	573.6	3,216.6	440.1	256.7	183.45	2.399		
10,400.0	7,223.0	10,381.5	7,223.0	94.9	94.2	-90.00	574.3	3,316.6	440.1	251.1	188.97	2.329		
10,500.0	7,223.0	10,481.5	7,223.0	97.7	96.9	-90.00	575.1	3,416.6	440.1	245.6	194.50	2.263		
10,600.0	7,223.0	10,581.5	7,223.0	100.5	99.7	-90.00	575.8	3,516.6	440.1	240.1	200.04	2.200		
10,700.0	7,223.0	10,681.5	7,223.0	103.2	102.5	-90.00	576.5	3,616.6	440.1	234.5	205.58	2.141		
10,800.0	7,223.0	10,781.5	7,223.0	106.0	105.2	-90.00	577.2	3,716.6	440.1	229.0	211.12	2.084		
10,900.0	7,223.0	10,881.5	7,223.0	108.8	108.0	-90.00	578.0	3,816.6	440.1	223.4	216.67	2.031		
11,000.0	7,223.0	10,981.5	7,223.0	111.6	110.8	-90.00	578.7	3,916.6	440.1	217.8	222.22	1.980		
11,100.0	7,223.0	11,081.5	7,223.0	114.3	113.6	-90.00	579.4	4,016.6	440.0	212.3	227.77	1.932		
11,200.0	7,223.0	11,181.5	7,223.0	117.1	116.3	-90.00	580.2	4,116.6	440.0	206.7	233.33	1.886		
11,300.0	7,223.0	11,281.5	7,223.0	119.9	119.1	-90.00	580.9	4,216.6	440.0	201.1	238.88	1.842		
11,400.0	7,223.0	11,381.5	7,223.0	122.7	121.9	-90.00	581.6	4,316.6	440.0	195.6	244.44	1.800		
11,500.0	7,223.0	11,481.5	7,223.0	125.5	124.7	-90.00	582.3	4,416.6	440.0	190.0	250.01	1.760		
11,600.0	7,223.0	11,581.5	7,223.0	128.2	127.4	-90.00	583.1	4,516.6	440.0	184.4	255.57	1.722		
11,700.0	7,223.0	11,681.5	7,223.0	131.0	130.2	-90.00	583.8	4,616.6	440.0	178.8	261.14	1.685		
11,800.0	7,223.0	11,781.5	7,223.0	133.8	133.0	-90.00	584.5	4,716.6	440.0	173.3	266.71	1.650		
11,900.0	7,223.0	11,881.5	7,223.0	136.6	135.8	-90.00	585.3	4,816.6	440.0	167.7	272.28	1.616		
12,000.0	7,223.0	11,981.5	7,223.0	139.4	138.6	-90.00	586.0	4,916.6	440.0	162.1	277.86	1.583		
12,100.0	7,223.0	12,081.5	7,223.0	142.2	141.4	-90.00	586.7	5,016.6	439.9	156.5	283.43	1.552		
12,200.0	7,223.0	12,181.5	7,223.0	145.0	144.1	-90.00	587.4	5,116.6	439.9	150.9	289.01	1.522		
12,300.0	7,223.0	12,281.5	7,223.0	147.8	146.9	-90.00	588.2	5,216.6	439.9	145.3	294.59	1.493 Level 3		
12,400.0	7,223.0	12,381.5	7,223.0	150.5	149.7	-90.00	588.9	5,316.6	439.9	139.7	300.17	1.466 Level 3		
12,500.0	7,223.0	12,481.5	7,223.0	153.3	152.5	-90.00	589.6	5,416.6	439.9	134.2	305.75	1.439 Level 3		
12,600.0	7,223.0	12,581.5	7,223.0	156.1	155.3	-90.00	590.3	5,516.6	439.9	128.6	311.33	1.413 Level 3		
12,700.0	7,223.0	12,681.5	7,223.0	158.9	158.1	-90.00	591.1	5,616.6	439.9	123.0	316.91	1.388 Level 3		
12,800.0	7,223.0	12,781.5	7,223.0	161.7	160.9	-90.00	591.8	5,716.6	439.9	117.4	322.50	1.364 Level 3		
12,900.0	7,223.0	12,881.5	7,223.0	164.5	163.7	-90.00	592.5	5,816.5	439.9	111.8	328.08	1.341 Level 3		
13,000.0	7,223.0	12,981.5	7,223.0	167.3	166.5	-90.00	593.3	5,916.5	439.9	106.2	333.67	1.318 Level 3		
13,100.0	7,223.0	13,081.5	7,223.0	170.1	169.2	-90.00	594.0	6,016.5	439.8	100.6	339.25	1.296 Level 3		
13,200.0	7,223.0	13,181.5	7,223.0	172.9	172.0	-90.00	594.7	6,116.5	439.8	95.0	344.84	1.275 Level 3		
13,300.0	7,223.0	13,281.5	7,223.0	175.7	174.8	-90.00	595.4	6,216.5	439.8	89.4	350.43	1.255 Level 3		
13,400.0	7,223.0	13,381.5	7,223.0	178.5	177.6	-90.00	596.2	6,316.5	439.8	83.8	356.02	1.235 Level 2		
13,500.0	7,223.0	13,481.5	7,223.0	181.3	180.4	-90.00	596.9	6,416.5	439.8	78.2	361.61	1.216 Level 2		
13,600.0	7,223.0	13,581.5	7,223.0	184.1	183.2	-90.00	597.6	6,516.5	439.8	72.6	367.20	1.198 Level 2		
13,700.0	7,223.0	13,681.5	7,223.0	186.9	186.0	-90.00	598.3	6,616.5	439.8	67.0	372.79	1.180 Level 2		
13,800.0	7,223.0	13,781.5	7,223.0	189.7	188.8	-90.00	599.1	6,716.5	439.8	61.4	378.39	1.162 Level 2		
13,900.0	7,223.0	13,881.5	7,223.0	192.5	191.6	-90.00	599.8	6,816.5	439.8	55.8	383.98	1.145 Level 2		
14,000.0	7,223.0	13,981.5	7,223.0	195.3	194.4	-90.00	600.5	6,916.5	439.8	50.2	389.57	1.129 Level 2		
14,100.0	7,223.0	14,081.5	7,223.0	198.1	197.2	-90.00	601.3	7,016.5	439.7	44.6	395.17	1.113 Level 2		
14,200.0	7,223.0	14,181.5	7,223.0	200.9	200.0	-90.00	602.0	7,116.5	439.7	39.0	400.76	1.097 Level 2		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design													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		
14,300.0	7,223.0	14,281.5	7,223.0	203.6	202.8	-90.00	602.7	7,216.5	439.7	33.4	406.36	1.082	Level 2	
14,400.0	7,223.0	14,381.5	7,223.0	206.4	205.6	-90.00	603.4	7,316.5	439.7	27.8	411.95	1.067	Level 2	
14,500.0	7,223.0	14,481.5	7,223.0	209.2	208.4	-90.00	604.2	7,416.5	439.7	22.2	417.55	1.053	Level 2	
14,600.0	7,223.0	14,581.5	7,223.0	212.0	211.2	-90.00	604.9	7,516.5	439.7	16.5	423.15	1.039	Level 2	
14,700.0	7,223.0	14,681.5	7,223.0	214.8	214.0	-90.00	605.6	7,616.5	439.7	10.9	428.74	1.026	Level 2	
14,800.0	7,223.0	14,781.5	7,223.0	217.6	216.8	-90.00	606.4	7,716.5	439.7	5.3	434.34	1.012	Level 2	
14,900.0	7,223.0	14,881.5	7,223.0	220.4	219.6	-90.00	607.1	7,816.5	439.7	-0.3	439.94	0.999	Level 1	
15,000.0	7,223.0	14,981.5	7,223.0	223.2	222.4	-90.00	607.8	7,916.5	439.7	-5.9	445.54	0.987	Level 1	
15,100.0	7,223.0	15,081.5	7,223.0	226.0	225.2	-90.00	608.5	8,016.5	439.6	-11.5	451.14	0.975	Level 1	
15,200.0	7,223.0	15,181.5	7,223.0	228.8	228.0	-90.00	609.3	8,116.5	439.6	-17.1	456.74	0.963	Level 1	
15,300.0	7,223.0	15,281.5	7,223.0	231.6	230.8	-90.00	610.0	8,216.5	439.6	-22.7	462.34	0.951	Level 1	
15,400.0	7,223.0	15,381.5	7,223.0	234.4	233.6	-90.00	610.7	8,316.5	439.6	-28.3	467.94	0.939	Level 1	
15,500.0	7,223.0	15,481.5	7,223.0	237.2	236.4	-90.00	611.4	8,416.5	439.6	-33.9	473.54	0.928	Level 1	
15,600.0	7,223.0	15,581.5	7,223.0	240.0	239.2	-90.00	612.2	8,516.5	439.6	-39.5	479.14	0.917	Level 1	
15,700.0	7,223.0	15,681.5	7,223.0	242.8	242.0	-90.00	612.9	8,616.5	439.6	-45.2	484.74	0.907	Level 1	
15,800.0	7,223.0	15,781.5	7,223.0	245.6	244.8	-90.00	613.6	8,716.5	439.6	-50.8	490.34	0.896	Level 1	
15,900.0	7,223.0	15,881.5	7,223.0	248.4	247.6	-90.00	614.4	8,816.5	439.6	-56.4	495.94	0.886	Level 1	
16,000.0	7,223.0	15,981.5	7,223.0	251.2	250.4	-90.00	615.1	8,916.5	439.5	-62.0	501.54	0.876	Level 1	
16,100.0	7,223.0	16,081.5	7,223.0	254.0	253.2	-90.00	615.8	9,016.5	439.5	-67.6	507.15	0.867	Level 1	
16,200.0	7,223.0	16,181.5	7,223.0	256.8	256.0	-90.00	616.5	9,116.5	439.5	-73.2	512.75	0.857	Level 1	
16,300.0	7,223.0	16,281.5	7,223.0	259.6	258.8	-90.00	617.3	9,216.5	439.5	-78.8	518.35	0.848	Level 1	
16,400.0	7,223.0	16,381.5	7,223.0	262.5	261.6	-90.00	618.0	9,316.5	439.5	-84.4	523.96	0.839	Level 1	
16,500.0	7,223.0	16,481.5	7,223.0	265.3	264.4	-90.00	618.7	9,416.5	439.5	-90.1	529.56	0.830	Level 1	
16,600.0	7,223.0	16,581.5	7,223.0	268.1	267.2	-90.00	619.4	9,516.5	439.5	-95.7	535.16	0.821	Level 1	
16,700.0	7,223.0	16,681.5	7,223.0	270.9	270.0	-90.00	620.2	9,616.4	439.5	-101.3	540.77	0.813	Level 1	
16,800.0	7,223.0	16,781.5	7,223.0	273.7	272.8	-90.00	620.9	9,716.4	439.5	-106.9	546.37	0.804	Level 1	
16,900.0	7,223.0	16,881.5	7,223.0	276.5	275.6	-90.00	621.6	9,816.4	439.5	-112.5	551.97	0.796	Level 1	
17,000.0	7,223.0	16,981.5	7,223.0	279.3	278.4	-90.00	622.4	9,916.4	439.4	-118.1	557.58	0.788	Level 1	
17,020.6	7,223.0	17,002.1	7,223.0	279.8	278.9	-90.00	622.5	9,937.0	439.4	-119.3	558.73	0.787	Level 1, ES, SF	

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 39-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		
0.0	0.0	0.0	0.0	0.0	0.0	-174.41	-59.7	-5.8	60.0					
100.0	100.0	99.4	99.4	0.1	0.2	-173.55	-60.2	-6.8	60.6	60.3	0.29	205.367		
200.0	200.0	199.0	199.0	0.3	0.4	-171.79	-61.3	-8.8	61.9	61.2	0.75	82.977		
300.0	300.0	298.4	298.3	0.6	0.6	-169.71	-63.0	-11.4	64.0	62.8	1.19	53.883		
400.0	400.0	397.7	397.6	0.8	0.8	-168.62	-65.8	-13.2	67.2	65.6	1.62	41.513		
500.0	500.0	497.2	497.0	1.0	1.1	-169.06	-69.8	-13.5	71.1	69.1	2.05	34.660		
600.0	600.0	595.5	595.2	1.2	1.3	-170.10	-74.9	-13.1	76.2	73.7	2.50	30.493		
700.0	700.0	693.7	693.0	1.5	1.5	-170.52	-82.2	-13.7	83.6	80.6	2.96	28.246		
800.0	800.0	789.6	788.4	1.7	1.8	-169.23	-91.4	-17.4	93.8	90.4	3.43	27.329 SF		
900.0	900.0	886.1	884.0	1.9	2.1	-167.66	-103.9	-22.7	107.6	103.6	3.93	27.399		
1,000.0	1,000.0	982.1	978.7	2.1	2.4	-166.87	-118.6	-27.7	123.6	119.2	4.44	27.864		
1,100.0	1,100.0	1,079.6	1,074.7	2.4	2.8	-166.25	-135.0	-33.1	141.3	136.3	4.97	28.449		
1,200.0	1,200.0	1,177.5	1,171.0	2.6	3.1	-165.85	-152.0	-38.3	159.4	153.9	5.49	29.016		
1,300.0	1,300.0	1,274.2	1,266.0	2.8	3.4	-166.01	-169.4	-42.2	177.9	171.9	6.03	29.516		
1,400.0	1,400.0	1,374.1	1,364.0	3.0	3.8	-166.47	-188.2	-45.3	196.9	190.3	6.58	29.947		
1,500.0	1,500.0	1,481.3	1,469.8	3.3	4.1	-167.10	-205.9	-47.2	213.4	206.3	7.10	30.040		
1,600.0	1,600.0	1,582.1	1,569.6	3.5	4.4	-167.32	-219.5	-49.4	227.0	219.4	7.60	29.889		
1,700.0	1,700.0	1,682.1	1,668.7	3.7	4.7	-167.38	-232.3	-52.0	240.1	232.1	8.09	29.679		
1,800.0	1,800.0	1,774.6	1,760.3	3.9	5.0	-167.03	-245.0	-56.4	254.5	245.9	8.59	29.645		
1,900.0	1,900.0	1,875.5	1,860.0	4.2	5.4	-166.70	-259.5	-61.3	269.6	260.5	9.11	29.579		
2,000.0	2,000.0	1,967.9	1,951.2	4.4	5.7	-166.38	-273.5	-66.3	285.6	276.0	9.63	29.666		
2,100.0	2,100.0	2,062.8	2,044.6	4.6	6.0	-111.01	-289.5	-71.9	304.0	294.8	9.21	32.994		
2,200.0	2,199.8	2,164.2	2,144.4	4.8	6.4	-111.53	-306.7	-76.2	323.3	313.7	9.66	33.462		
2,300.3	2,299.8	2,255.0	2,233.7	5.0	6.8	-112.45	-322.7	-79.5	344.8	334.7	10.10	34.148		
2,400.0	2,398.9	2,340.5	2,317.4	5.3	7.1	-113.83	-340.1	-82.8	369.5	359.0	10.55	35.034		
2,500.0	2,498.4	2,444.4	2,419.0	5.5	7.5	-115.48	-361.6	-85.7	394.7	383.7	11.04	35.750		
2,600.0	2,597.8	2,535.0	2,507.6	5.8	7.9	-116.74	-380.4	-88.2	420.2	408.7	11.51	36.518		
2,700.0	2,697.3	2,629.9	2,600.2	6.0	8.3	-117.48	-400.2	-94.2	446.5	434.5	12.00	37.220		
2,800.0	2,796.7	2,719.9	2,687.8	6.3	8.7	-117.96	-419.8	-101.2	473.8	461.3	12.48	37.958		
2,900.0	2,896.2	2,833.6	2,798.7	6.5	9.2	-118.46	-443.1	-110.0	499.8	486.8	13.02	38.387		
3,000.0	2,995.6	2,940.3	2,903.3	6.8	9.6	-119.02	-462.2	-116.9	523.3	509.7	13.53	38.661		
3,100.0	3,095.1	3,044.8	3,006.3	7.0	9.9	-119.66	-479.7	-122.2	545.5	531.4	14.04	38.840		
3,200.0	3,194.5	3,157.6	3,117.8	7.3	10.3	-120.45	-496.4	-126.2	565.8	551.2	14.57	38.831		
3,300.0	3,294.0	3,255.0	3,214.3	7.6	10.6	-121.16	-509.0	-128.8	584.3	569.2	15.06	38.792		
3,400.0	3,393.4	3,341.0	3,299.3	7.8	10.9	-121.60	-521.3	-132.7	604.2	588.7	15.54	38.887		
3,500.0	3,492.9	3,431.2	3,388.2	8.1	11.2	-121.96	-535.9	-137.5	626.1	610.1	16.03	39.053		
3,600.0	3,592.3	3,530.9	3,486.5	8.4	11.6	-122.44	-552.4	-141.9	648.3	631.8	16.55	39.176		
3,700.0	3,691.8	3,632.8	3,587.0	8.7	12.0	-122.90	-568.5	-146.2	669.9	652.9	17.07	39.251		
3,809.0	3,800.2	3,729.8	3,682.6	9.0	12.3	-123.21	-583.9	-151.4	693.6	676.0	17.60	39.400		
3,900.0	3,890.8	3,809.5	3,760.9	9.2	12.6	-123.72	-597.9	-155.7	714.1	696.0	18.06	39.540		
4,000.0	3,990.6	3,900.3	3,850.0	9.4	13.0	-124.04	-614.8	-160.8	735.8	717.3	18.52	39.725		
4,109.4	4,100.0	4,005.4	3,953.0	9.6	13.4	-179.13	-635.2	-166.4	758.2	735.9	22.31	33.984		
4,200.0	4,190.6	4,093.5	4,039.3	9.7	13.8	-178.80	-652.1	-171.0	775.8	752.9	22.85	33.957		
4,300.0	4,290.6	4,195.1	4,138.8	9.9	14.2	-178.43	-671.8	-176.5	795.3	771.9	23.47	33.886		
4,400.0	4,390.6	4,284.8	4,226.7	10.1	14.6	-178.15	-688.8	-180.9	814.4	790.4	24.05	33.861		
4,500.0	4,490.6	4,376.2	4,316.0	10.4	14.9	-177.79	-707.9	-186.7	835.5	810.9	24.65	33.890		
4,600.0	4,590.6	4,476.4	4,413.9	10.6	15.4	-177.44	-728.0	-192.5	855.9	830.6	25.29	33.836		
4,700.0	4,690.6	4,585.5	4,520.5	10.8	15.8	-177.01	-750.1	-199.9	876.5	850.6	25.97	33.757		
4,800.0	4,790.6	4,683.1	4,616.2	11.0	16.2	-176.67	-768.3	-206.1	895.5	868.9	26.58	33.692		
4,900.0	4,890.6	4,807.0	4,737.8	11.2	16.7	-176.19	-790.6	-215.0	914.1	886.8	27.28	33.504		
5,000.0	4,990.6	4,880.6	4,810.1	11.4	17.0	-175.93	-803.4	-220.0	932.0	904.2	27.79	33.539		
5,100.0	5,090.6	4,983.2	4,910.5	11.6	17.4	-175.64	-823.1	-226.1	951.6	923.2	28.42	33.486		

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
SRC Wiedeman Pad Sec.5-T5N-R66W - SRC Wiedeman 22-5-4CHZ - Wellbore #1 - Wellbore #1												Offset Well Error:	0.0 ft
Survey Program: 39-MWD													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
5,200.0	5,190.6	5,088.9	5,014.4	11.8	17.8	-175.41	-842.3	-231.4	970.1	941.1	29.05	33.397	
5,300.0	5,290.6	5,185.7	5,109.5	12.1	18.2	-175.24	-859.7	-235.8	988.3	958.7	29.64	33.340	

SRC Wiedeman Pad Sec.5-T5N-R66W - SRC Wiedeman 22-5-4NBHZ - Wellbore #1 - Plan #3 (9-24-1)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
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	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-174.32	-44.8	-4.5	45.0					
100.0	100.0	100.0	100.0	0.1	0.1	-174.32	-44.8	-4.5	45.0	44.8	0.22	200.366		
200.0	200.0	200.0	200.0	0.3	0.3	-174.32	-44.8	-4.5	45.0	44.4	0.67	66.789		
300.0	300.0	300.0	300.0	0.6	0.6	-174.32	-44.8	-4.5	45.0	43.9	1.12	40.073		
400.0	400.0	400.0	400.0	0.8	0.8	-174.32	-44.8	-4.5	45.0	43.5	1.57	28.624		
500.0	500.0	500.0	500.0	1.0	1.0	-174.32	-44.8	-4.5	45.0	43.0	2.02	22.263		
600.0	600.0	600.0	600.0	1.2	1.2	-174.32	-44.8	-4.5	45.0	42.6	2.47	18.215		
700.0	700.0	700.0	700.0	1.5	1.5	-174.32	-44.8	-4.5	45.0	42.1	2.92	15.413		
800.0	800.0	800.0	800.0	1.7	1.7	-174.32	-44.8	-4.5	45.0	41.7	3.37	13.358 CC, ES		
900.0	900.0	898.4	898.4	1.9	1.9	-173.87	-46.4	-5.0	46.7	42.9	3.79	12.324		
1,000.0	1,000.0	996.7	996.5	2.1	2.1	-172.70	-51.2	-6.6	51.8	47.6	4.19	12.346		
1,100.0	1,100.0	1,094.4	1,093.9	2.4	2.3	-171.19	-59.2	-9.2	60.2	55.6	4.61	13.062		
1,200.0	1,200.0	1,191.5	1,190.3	2.6	2.5	-169.67	-70.2	-12.8	72.0	67.0	5.04	14.284		
1,300.0	1,300.0	1,288.2	1,285.8	2.8	2.7	-168.33	-84.2	-17.4	87.1	81.6	5.50	15.851		
1,400.0	1,400.0	1,386.8	1,383.2	3.0	3.0	-167.30	-99.5	-22.4	103.4	97.4	5.98	17.300		
1,500.0	1,500.0	1,485.5	1,480.5	3.3	3.3	-166.55	-114.8	-27.5	119.7	113.2	6.47	18.496		
1,600.0	1,600.0	1,584.2	1,577.8	3.5	3.6	-165.98	-130.2	-32.5	136.0	129.0	6.98	19.487		
1,700.0	1,700.0	1,682.8	1,675.1	3.7	4.0	-165.53	-145.5	-37.5	152.3	144.8	7.50	20.318		
1,800.0	1,800.0	1,781.5	1,772.5	3.9	4.3	-165.17	-160.8	-42.6	168.6	160.6	8.02	21.021		
1,900.0	1,900.0	1,880.1	1,869.8	4.2	4.7	-164.87	-176.2	-47.6	185.0	176.4	8.55	21.622		
2,000.0	2,000.0	1,978.8	1,967.1	4.4	5.0	-164.62	-191.5	-52.7	201.3	192.2	9.09	22.141		
2,100.0	2,100.0	2,077.3	2,064.3	4.6	5.4	-109.53	-206.8	-57.7	218.2	209.2	9.02	24.193		
2,200.0	2,199.8	2,175.6	2,161.3	4.8	5.7	-110.18	-222.1	-62.7	236.3	226.8	9.46	24.968		
2,300.3	2,299.8	2,273.8	2,258.2	5.0	6.1	-111.42	-237.3	-67.7	255.8	245.9	9.92	25.793		
2,400.0	2,398.9	2,371.1	2,354.1	5.3	6.4	-113.12	-252.4	-72.7	276.0	265.6	10.38	26.575		
2,500.0	2,498.4	2,468.7	2,450.4	5.5	6.8	-114.60	-267.6	-77.7	296.4	285.5	10.86	27.289		
2,600.0	2,597.8	2,566.3	2,546.7	5.8	7.2	-115.89	-282.8	-82.7	317.0	305.7	11.35	27.938		
2,700.0	2,697.3	2,663.9	2,643.0	6.0	7.5	-117.02	-297.9	-87.6	337.8	325.9	11.84	28.531		
2,800.0	2,796.7	2,761.5	2,739.3	6.3	7.9	-118.02	-313.1	-92.6	358.7	346.3	12.34	29.072		
2,900.0	2,896.2	2,859.1	2,835.6	6.5	8.3	-118.91	-328.3	-97.6	379.6	366.8	12.84	29.567		
3,000.0	2,995.6	2,956.8	2,932.0	6.8	8.6	-119.71	-343.4	-102.6	400.7	387.3	13.35	30.022		
3,100.0	3,095.1	3,054.4	3,028.3	7.0	9.0	-120.43	-358.6	-107.6	421.8	407.9	13.86	30.440		
3,200.0	3,194.5	3,152.0	3,124.6	7.3	9.4	-121.08	-373.8	-112.6	442.9	428.6	14.37	30.826		
3,300.0	3,294.0	3,249.6	3,220.9	7.6	9.7	-121.67	-388.9	-117.5	464.1	449.2	14.88	31.183		
3,400.0	3,393.4	3,347.2	3,317.2	7.8	10.1	-122.21	-404.1	-122.5	485.4	470.0	15.40	31.514		
3,500.0	3,492.9	3,444.9	3,413.5	8.1	10.5	-122.70	-419.3	-127.5	506.7	490.8	15.92	31.821		
3,600.0	3,592.3	3,542.5	3,509.8	8.4	10.9	-123.16	-434.4	-132.5	528.0	511.6	16.45	32.107		
3,700.0	3,691.8	3,640.1	3,606.1	8.7	11.2	-123.57	-449.6	-137.5	549.4	532.4	16.97	32.374		
3,809.0	3,800.2	3,746.5	3,711.1	9.0	11.6	-124.00	-466.1	-142.9	572.7	555.1	17.54	32.645		
3,900.0	3,890.8	3,835.5	3,798.9	9.2	12.0	-124.52	-480.0	-147.5	591.4	573.3	18.02	32.813		
4,000.0	3,990.6	3,933.8	3,895.8	9.4	12.4	-124.78	-495.2	-152.5	610.0	591.5	18.50	32.982		
4,109.4	4,100.0	4,041.5	4,002.1	9.6	12.8	-179.73	-512.0	-158.0	628.2	606.6	21.61	29.077		
4,200.0	4,190.6	4,130.9	4,090.3	9.7	13.1	-179.33	-525.9	-162.5	642.4	620.2	22.13	29.032		
4,300.0	4,290.6	4,229.6	4,187.6	9.9	13.5	-178.90	-541.2	-167.6	658.0	635.3	22.72	28.960		
4,400.0	4,390.6	4,328.2	4,285.0	10.1	13.9	-178.49	-556.5	-172.6	673.7	650.4	23.32	28.892		
4,500.0	4,490.6	4,426.9	4,382.3	10.4	14.3	-178.10	-571.8	-177.7	689.4	665.5	23.91	28.827		
4,600.0	4,590.6	4,525.6	4,479.6	10.6	14.6	-177.73	-587.2	-182.7	705.1	680.6	24.51	28.766		
4,700.0	4,690.6	4,624.2	4,576.9	10.8	15.0	-177.37	-602.5	-187.7	720.9	695.7	25.11	28.708		
4,800.0	4,790.6	4,722.9	4,674.3	11.0	15.4	-177.03	-617.8	-192.8	736.6	710.9	25.71	28.654		
4,900.0	4,890.6	4,821.5	4,771.6	11.2	15.8	-176.70	-633.1	-197.8	752.4	726.1	26.31	28.601		
5,000.0	4,990.6	4,920.2	4,868.9	11.4	16.2	-176.39	-648.5	-202.8	768.3	741.4	26.91	28.552		
5,100.0	5,090.6	5,018.8	4,966.2	11.6	16.5	-176.09	-663.8	-207.9	784.1	756.6	27.51	28.505		

COMPASS 2003.21 Build 46

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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	Warning
5,200.0	5,190.6	5,117.5	5,063.6	11.8	16.9	-175.80	-679.1	-212.9	800.0	771.9	28.11	28.460	
5,300.0	5,290.6	5,216.1	5,160.9	12.1	17.3	-175.52	-694.5	-218.0	815.9	787.2	28.71	28.417	
5,400.0	5,390.6	5,325.5	5,268.8	12.3	17.7	-175.23	-711.2	-223.5	831.6	802.3	29.31	28.370	
5,500.0	5,490.6	5,464.2	5,406.4	12.5	18.0	-174.96	-727.9	-228.9	843.9	814.1	29.87	28.256	
5,600.0	5,590.6	5,604.2	5,546.0	12.7	18.3	-174.79	-738.3	-232.4	851.6	821.2	30.37	28.044	
5,700.0	5,690.6	5,745.1	5,686.8	12.9	18.5	-174.73	-742.2	-233.6	854.4	823.6	30.80	27.741	
5,800.0	5,790.6	5,848.9	5,790.6	13.1	18.6	-174.73	-742.2	-233.6	854.4	823.3	31.15	27.426	
5,900.0	5,890.6	5,948.9	5,890.6	13.3	18.7	-174.73	-742.2	-233.6	854.4	822.9	31.50	27.128	
6,000.0	5,990.6	6,048.9	5,990.6	13.6	18.9	-174.73	-742.2	-233.6	854.4	822.6	31.84	26.835	
6,100.0	6,090.6	6,148.9	6,090.6	13.8	19.0	-174.73	-742.2	-233.6	854.4	822.2	32.19	26.546	
6,200.0	6,190.6	6,248.9	6,190.6	14.0	19.1	-174.73	-742.2	-233.6	854.4	821.9	32.53	26.262	
6,300.0	6,290.6	6,348.9	6,290.6	14.2	19.2	-174.73	-742.2	-233.6	854.4	821.5	32.88	25.982	
6,400.0	6,390.6	6,456.9	6,398.5	14.4	19.4	-174.91	-742.2	-230.8	854.2	820.9	33.24	25.696	
6,500.0	6,490.6	6,568.2	6,508.1	14.6	19.5	-176.14	-741.9	-212.4	852.6	819.0	33.56	25.405	
6,516.2	6,506.8	6,585.5	6,524.9	14.7	19.5	-176.44	-741.8	-208.0	852.3	818.7	33.61	25.360	
6,550.0	6,540.6	6,621.3	6,559.1	14.7	19.5	93.40	-741.7	-197.7	851.6	821.9	29.63	28.740	
6,600.0	6,590.4	6,673.3	6,607.9	14.8	19.5	92.53	-741.4	-179.6	850.7	820.9	29.78	28.567	
6,650.0	6,639.8	6,724.2	6,654.2	14.9	19.5	91.65	-741.1	-158.6	850.0	820.1	29.92	28.411	
6,700.0	6,688.6	6,774.1	6,698.1	15.0	19.5	90.78	-740.7	-134.8	849.5	819.5	30.06	28.265	
6,750.0	6,736.5	6,823.0	6,739.4	15.0	19.5	89.91	-740.3	-108.6	849.2	819.0	30.20	28.118	
6,800.0	6,783.2	6,871.0	6,778.1	15.1	19.5	89.05	-739.9	-80.2	849.1	818.8	30.37	27.963	
6,805.3	6,788.1	6,876.1	6,782.0	15.1	19.5	88.95	-739.8	-77.0	849.1	818.7	30.39	27.945	
6,850.0	6,828.7	6,918.3	6,814.2	15.2	19.5	88.19	-739.4	-49.7	849.2	818.6	30.56	27.787	
6,900.0	6,872.5	6,964.7	6,847.7	15.3	19.5	87.35	-738.9	-17.6	849.4	818.6	30.80	27.582	
6,950.0	6,914.6	7,010.4	6,878.5	15.3	19.6	86.53	-738.4	16.1	849.9	818.8	31.09	27.335	
7,000.0	6,954.6	7,055.4	6,906.8	15.5	19.6	85.73	-737.9	51.2	850.4	819.0	31.45	27.036	
7,050.0	6,992.5	7,100.0	6,932.5	15.7	19.6	84.95	-737.3	87.6	851.1	819.2	31.91	26.675	
7,100.0	7,028.1	7,143.7	6,955.4	15.9	19.6	84.20	-736.8	124.7	851.9	819.4	32.46	26.243	
7,150.0	7,061.1	7,187.0	6,975.9	16.2	19.7	83.47	-736.2	162.8	852.8	819.7	33.13	25.743	
7,200.0	7,091.4	7,229.8	6,993.9	16.6	19.8	82.77	-735.6	201.7	853.8	819.9	33.91	25.176	
7,250.0	7,118.8	7,272.1	7,009.3	17.0	20.0	82.11	-735.0	241.1	854.8	820.0	34.82	24.549	
7,300.0	7,143.3	7,314.1	7,022.3	17.5	20.2	81.48	-734.4	281.0	855.8	820.0	35.85	23.871	
7,350.0	7,164.6	7,355.6	7,032.8	18.1	20.6	80.88	-733.8	321.2	856.9	819.9	37.01	23.152	
7,400.0	7,182.8	7,400.0	7,041.4	18.8	21.1	80.29	-733.1	364.7	857.9	819.6	38.34	22.376	
7,450.0	7,197.6	7,437.7	7,046.7	19.6	21.6	79.81	-732.6	402.1	858.9	819.2	39.70	21.637	
7,500.0	7,209.1	7,478.3	7,050.1	20.4	22.3	79.34	-731.9	442.5	859.9	818.7	41.20	20.871	
7,550.0	7,217.2	7,524.3	7,051.8	21.3	23.0	78.91	-731.2	488.5	860.7	817.8	42.91	20.056	
7,600.0	7,221.8	7,573.8	7,053.4	22.2	24.0	78.69	-730.5	537.9	860.9	816.1	44.80	19.217	
7,641.2	7,223.0	7,614.6	7,054.6	23.0	24.8	78.71	-729.9	578.7	860.6	814.1	46.43	18.534	
7,700.0	7,223.0	7,672.9	7,056.2	24.2	25.9	78.81	-729.0	636.9	859.8	811.0	48.82	17.611	
7,800.0	7,223.0	7,772.0	7,058.4	26.3	28.1	78.95	-727.5	736.0	858.6	805.5	53.08	16.175	
7,900.0	7,223.0	7,871.2	7,060.2	28.5	30.3	79.05	-726.0	835.2	857.5	800.0	57.55	14.900	
8,000.0	7,223.0	7,971.2	7,061.7	30.9	32.7	79.15	-724.5	935.2	856.4	794.2	62.21	13.766	
8,100.0	7,223.0	8,071.2	7,063.3	33.3	35.1	79.24	-722.9	1,035.2	855.4	788.4	67.01	12.766	
8,200.0	7,223.0	8,171.2	7,064.9	35.8	37.6	79.33	-721.4	1,135.1	854.3	782.4	71.91	11.880	
8,300.0	7,223.0	8,271.2	7,066.4	38.3	40.1	79.43	-719.9	1,235.1	853.3	776.4	76.90	11.095	
8,400.0	7,223.0	8,371.2	7,068.0	40.8	42.6	79.52	-718.4	1,335.0	852.2	770.2	81.97	10.397	
8,500.0	7,223.0	8,471.2	7,069.5	43.4	45.2	79.61	-716.9	1,435.0	851.2	764.1	87.09	9.773	
8,600.0	7,223.0	8,568.7	7,070.3	46.0	47.8	79.66	-715.4	1,532.5	850.2	758.0	92.19	9.222	
8,700.0	7,223.0	8,668.7	7,070.3	48.6	50.4	79.64	-713.9	1,632.5	849.5	752.1	97.38	8.723	
8,800.0	7,223.0	8,768.7	7,070.3	51.3	53.0	79.63	-712.3	1,732.5	848.7	746.1	102.61	8.271	
8,900.0	7,223.0	8,868.7	7,070.2	54.0	55.7	79.62	-710.8	1,832.5	847.9	740.1	107.86	7.861	

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Wiedeman A-5-3NBHZ
Project:	Sec.5-T5N-R66W	TVD Reference:	WELL @ 4796.0ft (RKB -13')
Reference Site:	SRC Wiedeman Pad Sec.5-T5N-R66W	MD Reference:	WELL @ 4796.0ft (RKB -13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Wiedeman A-5-3NBHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #3 (9-24-14)	Offset TVD Reference:	Offset Datum

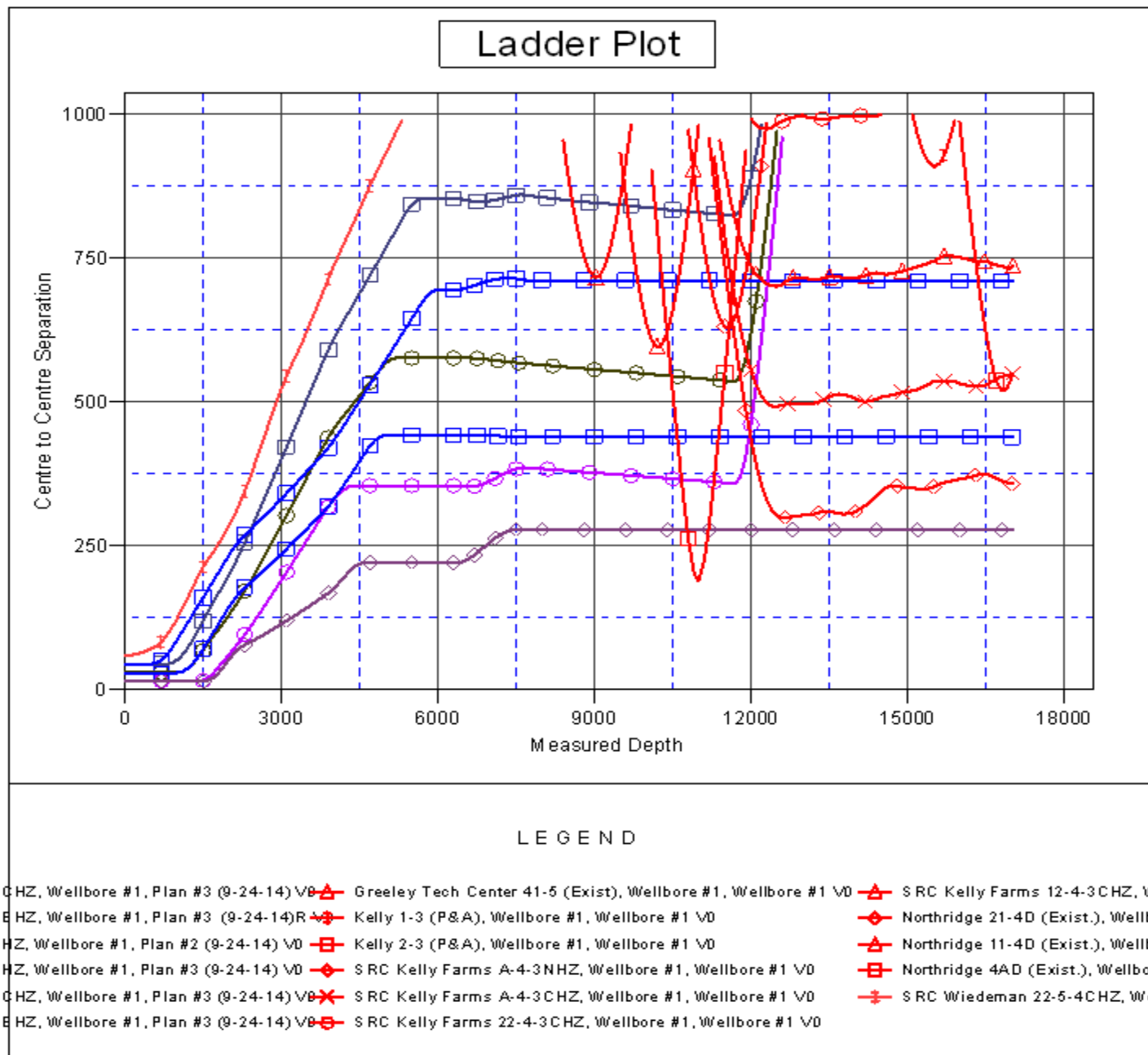
Offset Design SRC Wiedeman Pad Sec.5-T5N-R66W - SRC Wiedeman 22-5-4NBHZ - Wellbore #1 - Plan #3 (9-24-1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	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		
9,000.0	7,223.0	8,968.7	7,070.2	56.6	58.4	79.61	-709.3	1,932.5	847.2	734.0	113.14	7.488		
9,100.0	7,223.0	9,068.7	7,070.2	59.3	61.0	79.60	-707.8	2,032.5	846.4	728.0	118.44	7.146		
9,200.0	7,223.0	9,168.7	7,070.1	62.0	63.7	79.58	-706.3	2,132.4	845.7	721.9	123.76	6.833		
9,300.0	7,223.0	9,268.7	7,070.1	64.7	66.4	79.57	-704.7	2,232.4	844.9	715.8	129.10	6.545		
9,400.0	7,223.0	9,368.7	7,070.0	67.5	69.2	79.56	-703.2	2,332.4	844.1	709.7	134.45	6.278		
9,500.0	7,223.0	9,468.7	7,070.0	70.2	71.9	79.55	-701.7	2,432.4	843.4	703.6	139.81	6.032		
9,600.0	7,223.0	9,570.2	7,070.6	72.9	74.6	79.57	-700.2	2,533.9	842.5	697.3	145.24	5.801		
9,700.0	7,223.0	9,670.2	7,071.6	75.7	77.4	79.63	-698.6	2,633.9	841.6	690.9	150.65	5.586		
9,800.0	7,223.0	9,770.2	7,072.6	78.4	80.1	79.69	-697.1	2,733.8	840.6	684.5	156.08	5.386		
9,900.0	7,223.0	9,870.2	7,073.6	81.2	82.8	79.75	-695.6	2,833.8	839.7	678.2	161.52	5.199		
10,000.0	7,223.0	9,970.2	7,074.6	83.9	85.6	79.81	-694.1	2,933.8	838.7	671.8	166.97	5.023		
10,100.0	7,223.0	10,070.1	7,075.6	86.7	88.3	79.87	-692.6	3,033.8	837.8	665.4	172.42	4.859		
10,200.0	7,223.0	10,170.1	7,076.6	89.4	91.1	79.93	-691.1	3,133.8	836.9	659.0	177.89	4.705		
10,300.0	7,223.0	10,270.1	7,077.7	92.2	93.8	79.99	-689.6	3,233.7	835.9	652.6	183.36	4.559		
10,400.0	7,223.0	10,370.1	7,078.7	94.9	96.6	80.05	-688.1	3,333.7	835.0	646.2	188.83	4.422		
10,500.0	7,223.0	10,470.1	7,079.7	97.7	99.4	80.11	-686.6	3,433.7	834.1	639.7	194.32	4.292		
10,600.0	7,223.0	10,568.7	7,080.1	100.5	102.1	80.13	-685.1	3,532.3	833.2	633.5	199.75	4.171		
10,700.0	7,223.0	10,668.7	7,080.1	103.2	104.9	80.12	-683.5	3,632.3	832.4	627.2	205.21	4.057		
10,800.0	7,223.0	10,768.7	7,080.1	106.0	107.6	80.11	-682.0	3,732.3	831.7	621.0	210.67	3.948		
10,900.0	7,223.0	10,868.7	7,080.1	108.8	110.4	80.10	-680.5	3,832.2	830.9	614.8	216.13	3.844		
11,000.0	7,223.0	10,968.7	7,080.1	111.6	113.2	80.09	-679.0	3,932.2	830.1	608.5	221.59	3.746		
11,100.0	7,223.0	11,068.7	7,080.1	114.3	115.9	80.08	-677.5	4,032.2	829.4	602.3	227.06	3.653		
11,200.0	7,223.0	11,168.7	7,080.1	117.1	118.7	80.07	-675.9	4,132.2	828.6	596.1	232.53	3.563		
11,300.0	7,223.0	11,268.7	7,080.0	119.9	121.5	80.06	-674.4	4,232.2	827.8	589.8	238.01	3.478		
11,400.0	7,223.0	11,368.7	7,080.0	122.7	124.3	80.05	-672.9	4,332.2	827.0	583.6	243.48	3.397		
11,500.0	7,223.0	11,468.7	7,080.0	125.5	127.0	80.04	-671.4	4,432.2	826.3	577.3	248.96	3.319		
11,600.0	7,223.0	11,568.7	7,080.0	128.2	129.8	80.02	-669.8	4,532.1	825.5	571.1	254.44	3.244		
11,665.9	7,223.0	11,630.6	7,080.0	130.1	131.5	80.02	-668.9	4,594.0	825.0	567.1	257.94	3.198		
11,700.0	7,223.0	11,630.6	7,080.0	131.0	131.5	80.02	-668.9	4,594.0	825.6	566.7	258.87	3.189 SF		
11,800.0	7,223.0	11,630.6	7,080.0	133.8	131.5	80.02	-668.9	4,594.0	835.5	573.8	261.62	3.193		
11,900.0	7,223.0	11,630.6	7,080.0	136.6	131.5	80.02	-668.9	4,594.0	856.9	592.6	264.36	3.242		
12,000.0	7,223.0	11,630.6	7,080.0	139.4	131.5	80.02	-668.9	4,594.0	889.2	622.1	267.11	3.329		
12,100.0	7,223.0	11,630.6	7,080.0	142.2	131.5	80.02	-668.9	4,594.0	931.2	661.3	269.86	3.451		
12,200.0	7,223.0	11,630.6	7,080.0	145.0	131.5	80.02	-668.9	4,594.0	981.5	708.9	272.61	3.601		

Company: Synergy Resources
Project: Sec.5-T5N-R66W
Reference Site: SRC Wiedeman Pad Sec.5-T5N-R66W
Site Error: 0.0ft
Reference Well: SRC Wiedeman A-5-3NBHZ
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #3 (9-24-14)

Local Co-ordinate Reference: Well SRC Wiedeman A-5-3NBHZ
TVD Reference: WELL @ 4796.0ft (RKB -13')
MD Reference: WELL @ 4796.0ft (RKB -13')
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 @ 4796.0ft (RKB -13')
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: SRC Wiedeman A-5-3NBHZ
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.45°



Company: Synergy Resources
Project: Sec.5-T5N-R66W
Reference Site: SRC Wiedeman Pad Sec.5-T5N-R66W
Site Error: 0.0ft
Reference Well: SRC Wiedeman A-5-3NBHZ
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #3 (9-24-14)

Local Co-ordinate Reference: Well SRC Wiedeman A-5-3NBHZ
TVD Reference: WELL @ 4796.0ft (RKB -13')
MD Reference: WELL @ 4796.0ft (RKB -13')
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 @ 4796.0ft (RKB -13')

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: SRC Wiedeman A-5-3NBHZ

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.45°

