Synergy Resources

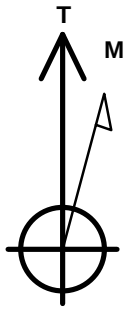
Well Name: **SRC Gies 44-15-22NHZ**
Surface Location: SRC Gies Pad Sec.15-T7N-R65W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 4838.0

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	1450671.56	3237998.55	40.567337	-104.643331	

RKB - 13' WELL @ 4851.0ft (RKB - 13')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 272'FSL & 1007'FEL, Sec.15	1.0	0.0	0.0	Point
BHL 470'FSL & 544'FEL, Sec.22	7240.0	-4518.3	453.8	Point
Landing Pt. 460'FNL & 561'FEL, Sec.22	7240.0	-745.7	439.3	Point



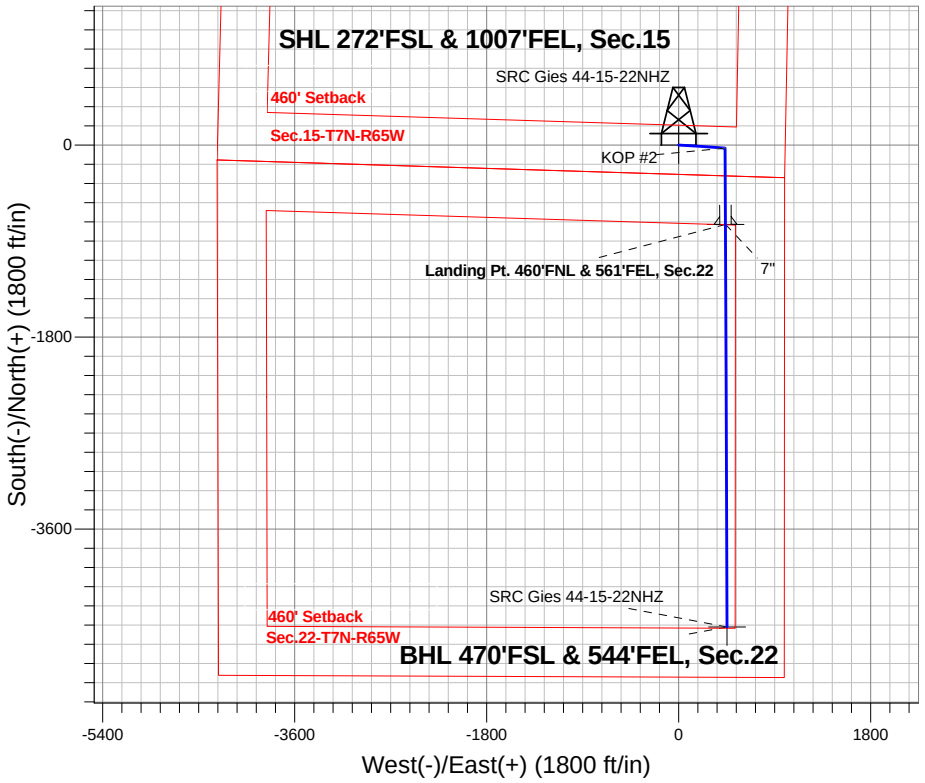
Azimuths to True North
Magnetic North: 8.42°

Magnetic Field
Strength: 52926.0snT
Dip Angle: 67.10°
Date: 5/8/2014
Model: IGRF2010

SRC Gies Pad Sec.15-T7N-R65W
SRC Gies 44-15-22NHZ
Plan #1 (5-7-14)
12:10, May 14 2014

ANNOTATIONS

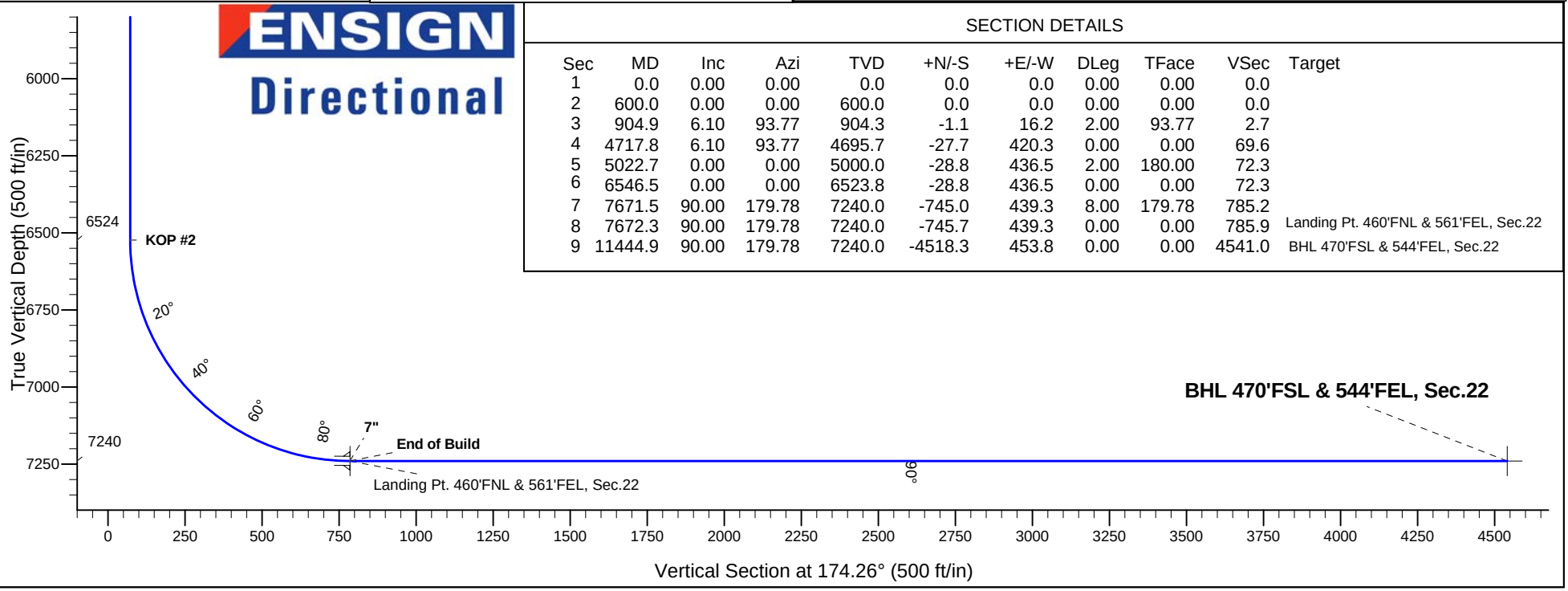
TVD	MD	Annotation
600.0	600.0	KOP #1
6523.8	6546.5	KOP #2
7240.0	7671.5	End of Build



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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	904.9	6.10	93.77	904.3	-1.1	16.2	2.00	93.77	2.7	
4	4717.8	6.10	93.77	4695.7	-27.7	420.3	0.00	0.00	69.6	
5	5022.7	0.00	0.00	5000.0	-28.8	436.5	2.00	180.00	72.3	
6	6546.5	0.00	0.00	6523.8	-28.8	436.5	0.00	0.00	72.3	
7	7671.5	90.00	179.78	7240.0	-745.0	439.3	8.00	179.78	785.2	
8	7672.3	90.00	179.78	7240.0	-745.7	439.3	0.00	0.00	785.9	Landing Pt. 460'FNL & 561'FEL, Sec.22
9	11444.9	90.00	179.78	7240.0	-4518.3	453.8	0.00	0.00	4541.0	BHL 470'FSL & 544'FEL, Sec.22



Synergy Resources

SEC.15-T7N-R65W
SRC Gies Pad Sec.15-T7N-R65W
SRC Gies 44-15-22NHZ

Wellbore #1

Plan: Plan #1 (5-7-14)

Standard Planning Report

14 May, 2014

Database:	landmark	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Company:	Synergy Resources	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Project:	SEC.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site:	SRC Gies Pad Sec.15-T7N-R65W	**North Reference:**	True
Well:	SRC Gies 44-15-22NHZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (5-7-14)		

Project SEC.15-T7N-R65W, Weld County, CO

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site SRC Gies Pad Sec.15-T7N-R65W

Site Position:		**Northing:**	1,450,674.24 ft	**Latitude:**	40.567348
From:	Lat/Long	**Easting:**	3,237,858.77 ft	**Longitude:**	-104.643834
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.55 °

Well SRC Gies 44-15-22NHZ

Well Position	**+N/-S**	-4.0 ft	**Northing:**	1,450,671.56 ft	**Latitude:**	40.567337
	+E/-W	139.7 ft	**Easting:**	3,237,998.55 ft	**Longitude:**	-104.643331
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,838.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/8/2014	8.42	67.10	52,926

Design Plan #1 (5-7-14)

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	174.26

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	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
904.9	6.10	93.77	904.3	-1.1	16.2	2.00	2.00	0.00	93.77	
4,717.8	6.10	93.77	4,695.7	-27.7	420.3	0.00	0.00	0.00	0.00	
5,022.7	0.00	0.00	5,000.0	-28.8	436.5	2.00	-2.00	0.00	180.00	
6,546.5	0.00	0.00	6,523.8	-28.8	436.5	0.00	0.00	0.00	0.00	
7,671.5	90.00	179.78	7,240.0	-745.0	439.3	8.00	8.00	0.00	179.78	
7,672.3	90.00	179.78	7,240.0	-745.7	439.3	0.00	0.00	0.00	0.00	Landing Pt. 460'FN
11,444.9	90.00	179.78	7,240.0	-4,518.3	453.8	0.00	0.00	0.00	0.00	BHL 470'FSL & 544

Database:	landmark	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Company:	Synergy Resources	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Project:	SEC.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site:	SRC Gies Pad Sec.15-T7N-R65W	**North Reference:**	True
Well:	SRC Gies 44-15-22NHZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (5-7-14)		

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 272'FSL & 1007'FEL, Sec.15									
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
KOP #1									
700.0	2.00	93.77	700.0	-0.1	1.7	0.3	2.00	2.00	0.00
800.0	4.00	93.77	799.8	-0.5	7.0	1.2	2.00	2.00	0.00
900.0	6.00	93.77	899.5	-1.0	15.7	2.6	2.00	2.00	0.00
904.9	6.10	93.77	904.3	-1.1	16.2	2.7	2.00	2.00	0.00
1,000.0	6.10	93.77	998.9	-1.7	26.3	4.3	0.00	0.00	0.00
1,100.0	6.10	93.77	1,098.3	-2.4	36.9	6.1	0.00	0.00	0.00
1,200.0	6.10	93.77	1,197.8	-3.1	47.5	7.9	0.00	0.00	0.00
1,300.0	6.10	93.77	1,297.2	-3.8	58.1	9.6	0.00	0.00	0.00
1,400.0	6.10	93.77	1,396.6	-4.5	68.7	11.4	0.00	0.00	0.00
1,500.0	6.10	93.77	1,496.1	-5.2	79.3	13.1	0.00	0.00	0.00
1,600.0	6.10	93.77	1,595.5	-5.9	89.9	14.9	0.00	0.00	0.00
1,700.0	6.10	93.77	1,694.9	-6.6	100.5	16.6	0.00	0.00	0.00
1,800.0	6.10	93.77	1,794.4	-7.3	111.1	18.4	0.00	0.00	0.00
1,900.0	6.10	93.77	1,893.8	-8.0	121.7	20.1	0.00	0.00	0.00
2,000.0	6.10	93.77	1,993.2	-8.7	132.2	21.9	0.00	0.00	0.00
2,100.0	6.10	93.77	2,092.7	-9.4	142.8	23.7	0.00	0.00	0.00
2,200.0	6.10	93.77	2,192.1	-10.1	153.4	25.4	0.00	0.00	0.00
2,300.0	6.10	93.77	2,291.5	-10.8	164.0	27.2	0.00	0.00	0.00
2,400.0	6.10	93.77	2,391.0	-11.5	174.6	28.9	0.00	0.00	0.00
2,500.0	6.10	93.77	2,490.4	-12.2	185.2	30.7	0.00	0.00	0.00
2,600.0	6.10	93.77	2,589.8	-12.9	195.8	32.4	0.00	0.00	0.00
2,700.0	6.10	93.77	2,689.3	-13.6	206.4	34.2	0.00	0.00	0.00
2,800.0	6.10	93.77	2,788.7	-14.3	217.0	35.9	0.00	0.00	0.00
2,900.0	6.10	93.77	2,888.1	-15.0	227.6	37.7	0.00	0.00	0.00
3,000.0	6.10	93.77	2,987.6	-15.7	238.2	39.4	0.00	0.00	0.00
3,100.0	6.10	93.77	3,087.0	-16.4	248.8	41.2	0.00	0.00	0.00
3,200.0	6.10	93.77	3,186.4	-17.1	259.4	43.0	0.00	0.00	0.00
3,300.0	6.10	93.77	3,285.9	-17.8	270.0	44.7	0.00	0.00	0.00
3,400.0	6.10	93.77	3,385.3	-18.5	280.6	46.5	0.00	0.00	0.00
3,500.0	6.10	93.77	3,484.7	-19.2	291.2	48.2	0.00	0.00	0.00
3,600.0	6.10	93.77	3,584.2	-19.9	301.8	50.0	0.00	0.00	0.00
3,700.0	6.10	93.77	3,683.6	-20.6	312.4	51.7	0.00	0.00	0.00
3,800.0	6.10	93.77	3,783.0	-21.3	323.0	53.5	0.00	0.00	0.00
3,900.0	6.10	93.77	3,882.5	-22.0	333.6	55.2	0.00	0.00	0.00
4,000.0	6.10	93.77	3,981.9	-22.7	344.2	57.0	0.00	0.00	0.00
4,100.0	6.10	93.77	4,081.3	-23.4	354.8	58.8	0.00	0.00	0.00
4,200.0	6.10	93.77	4,180.8	-24.1	365.4	60.5	0.00	0.00	0.00
4,300.0	6.10	93.77	4,280.2	-24.8	376.0	62.3	0.00	0.00	0.00
4,400.0	6.10	93.77	4,379.6	-25.5	386.6	64.0	0.00	0.00	0.00
4,500.0	6.10	93.77	4,479.1	-26.2	397.2	65.8	0.00	0.00	0.00
4,600.0	6.10	93.77	4,578.5	-26.9	407.8	67.5	0.00	0.00	0.00
4,700.0	6.10	93.77	4,678.0	-27.6	418.4	69.3	0.00	0.00	0.00
4,717.8	6.10	93.77	4,695.7	-27.7	420.3	69.6	0.00	0.00	0.00
4,800.0	4.45	93.77	4,777.5	-28.2	427.9	70.8	2.00	-2.00	0.00

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Project:	SEC.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site:	SRC Gies Pad Sec.15-T7N-R65W	**North Reference:**	True
Well:	SRC Gies 44-15-22NHZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (5-7-14)		

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)
4,900.0	2.45	93.77	4,877.3	-28.6	433.9	71.8	2.00	-2.00	0.00
5,000.0	0.45	93.77	4,977.3	-28.8	436.4	72.3	2.00	-2.00	0.00
5,022.7	0.00	0.00	5,000.0	-28.8	436.5	72.3	2.00	-2.00	0.00
5,100.0	0.00	0.00	5,077.3	-28.8	436.5	72.3	0.00	0.00	0.00
5,200.0	0.00	0.00	5,177.3	-28.8	436.5	72.3	0.00	0.00	0.00
5,300.0	0.00	0.00	5,277.3	-28.8	436.5	72.3	0.00	0.00	0.00
5,400.0	0.00	0.00	5,377.3	-28.8	436.5	72.3	0.00	0.00	0.00
5,500.0	0.00	0.00	5,477.3	-28.8	436.5	72.3	0.00	0.00	0.00
5,600.0	0.00	0.00	5,577.3	-28.8	436.5	72.3	0.00	0.00	0.00
5,700.0	0.00	0.00	5,677.3	-28.8	436.5	72.3	0.00	0.00	0.00
5,800.0	0.00	0.00	5,777.3	-28.8	436.5	72.3	0.00	0.00	0.00
5,900.0	0.00	0.00	5,877.3	-28.8	436.5	72.3	0.00	0.00	0.00
6,000.0	0.00	0.00	5,977.3	-28.8	436.5	72.3	0.00	0.00	0.00
6,100.0	0.00	0.00	6,077.3	-28.8	436.5	72.3	0.00	0.00	0.00
6,200.0	0.00	0.00	6,177.3	-28.8	436.5	72.3	0.00	0.00	0.00
6,300.0	0.00	0.00	6,277.3	-28.8	436.5	72.3	0.00	0.00	0.00
6,400.0	0.00	0.00	6,377.3	-28.8	436.5	72.3	0.00	0.00	0.00
6,500.0	0.00	0.00	6,477.3	-28.8	436.5	72.3	0.00	0.00	0.00
6,546.5	0.00	0.00	6,523.8	-28.8	436.5	72.3	0.00	0.00	0.00
KOP #2									
6,600.0	4.28	179.78	6,577.2	-30.8	436.5	74.3	8.00	8.00	0.00
6,700.0	12.28	179.78	6,676.1	-45.2	436.6	88.6	8.00	8.00	0.00
6,800.0	20.28	179.78	6,772.0	-73.2	436.7	116.5	8.00	8.00	0.00
6,900.0	28.28	179.78	6,863.1	-114.3	436.8	157.4	8.00	8.00	0.00
7,000.0	36.28	179.78	6,947.6	-167.6	437.0	210.5	8.00	8.00	0.00
7,100.0	44.28	179.78	7,023.8	-232.2	437.3	274.8	8.00	8.00	0.00
7,200.0	52.28	179.78	7,090.3	-306.8	437.6	349.0	8.00	8.00	0.00
7,300.0	60.28	179.78	7,145.8	-389.9	437.9	431.7	8.00	8.00	0.00
7,400.0	68.28	179.78	7,189.1	-479.9	438.2	521.3	8.00	8.00	0.00
7,500.0	76.28	179.78	7,219.6	-575.1	438.6	616.1	8.00	8.00	0.00
7,600.0	84.28	179.78	7,236.4	-673.6	439.0	714.1	8.00	8.00	0.00
7,671.5	90.00	179.78	7,240.0	-745.0	439.3	785.1	8.00	8.00	0.00
End of Build - 7"									
7,672.3	90.00	179.78	7,240.0	-745.7	439.3	785.9	0.28	0.28	0.00
Landing Pt. 460'FNL & 561'FEL, Sec.22									
7,700.0	90.00	179.78	7,240.0	-773.5	439.4	813.5	0.00	0.00	0.00
7,800.0	90.00	179.78	7,240.0	-873.5	439.8	913.0	0.00	0.00	0.00
7,900.0	90.00	179.78	7,240.0	-973.5	440.1	1,012.6	0.00	0.00	0.00
8,000.0	90.00	179.78	7,240.0	-1,073.5	440.5	1,112.1	0.00	0.00	0.00
8,100.0	90.00	179.78	7,240.0	-1,173.5	440.9	1,211.7	0.00	0.00	0.00
8,200.0	90.00	179.78	7,240.0	-1,273.5	441.3	1,311.2	0.00	0.00	0.00
8,300.0	90.00	179.78	7,240.0	-1,373.5	441.7	1,410.7	0.00	0.00	0.00
8,400.0	90.00	179.78	7,240.0	-1,473.5	442.1	1,510.3	0.00	0.00	0.00
8,500.0	90.00	179.78	7,240.0	-1,573.5	442.5	1,609.8	0.00	0.00	0.00
8,600.0	90.00	179.78	7,240.0	-1,673.5	442.8	1,709.3	0.00	0.00	0.00
8,700.0	90.00	179.78	7,240.0	-1,773.5	443.2	1,808.9	0.00	0.00	0.00
8,800.0	90.00	179.78	7,240.0	-1,873.5	443.6	1,908.4	0.00	0.00	0.00
8,900.0	90.00	179.78	7,240.0	-1,973.5	444.0	2,007.9	0.00	0.00	0.00
9,000.0	90.00	179.78	7,240.0	-2,073.5	444.4	2,107.5	0.00	0.00	0.00
9,100.0	90.00	179.78	7,240.0	-2,173.5	444.8	2,207.0	0.00	0.00	0.00
9,200.0	90.00	179.78	7,240.0	-2,273.5	445.2	2,306.6	0.00	0.00	0.00
9,300.0	90.00	179.78	7,240.0	-2,373.5	445.5	2,406.1	0.00	0.00	0.00
9,400.0	90.00	179.78	7,240.0	-2,473.5	445.9	2,505.6	0.00	0.00	0.00

Database:	landmark	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Company:	Synergy Resources	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Project:	SEC.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site:	SRC Gies Pad Sec.15-T7N-R65W	**North Reference:**	True
Well:	SRC Gies 44-15-22NHZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (5-7-14)		

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)
9,500.0	90.00	179.78	7,240.0	-2,573.5	446.3	2,605.2	0.00	0.00	0.00
9,600.0	90.00	179.78	7,240.0	-2,673.5	446.7	2,704.7	0.00	0.00	0.00
9,700.0	90.00	179.78	7,240.0	-2,773.5	447.1	2,804.2	0.00	0.00	0.00
9,800.0	90.00	179.78	7,240.0	-2,873.5	447.5	2,903.8	0.00	0.00	0.00
9,900.0	90.00	179.78	7,240.0	-2,973.4	447.9	3,003.3	0.00	0.00	0.00
10,000.0	90.00	179.78	7,240.0	-3,073.4	448.2	3,102.9	0.00	0.00	0.00
10,100.0	90.00	179.78	7,240.0	-3,173.4	448.6	3,202.4	0.00	0.00	0.00
10,200.0	90.00	179.78	7,240.0	-3,273.4	449.0	3,301.9	0.00	0.00	0.00
10,300.0	90.00	179.78	7,240.0	-3,373.4	449.4	3,401.5	0.00	0.00	0.00
10,400.0	90.00	179.78	7,240.0	-3,473.4	449.8	3,501.0	0.00	0.00	0.00
10,500.0	90.00	179.78	7,240.0	-3,573.4	450.2	3,600.5	0.00	0.00	0.00
10,600.0	90.00	179.78	7,240.0	-3,673.4	450.6	3,700.1	0.00	0.00	0.00
10,700.0	90.00	179.78	7,240.0	-3,773.4	450.9	3,799.6	0.00	0.00	0.00
10,800.0	90.00	179.78	7,240.0	-3,873.4	451.3	3,899.2	0.00	0.00	0.00
10,900.0	90.00	179.78	7,240.0	-3,973.4	451.7	3,998.7	0.00	0.00	0.00
11,000.0	90.00	179.78	7,240.0	-4,073.4	452.1	4,098.2	0.00	0.00	0.00
11,100.0	90.00	179.78	7,240.0	-4,173.4	452.5	4,197.8	0.00	0.00	0.00
11,200.0	90.00	179.78	7,240.0	-4,273.4	452.9	4,297.3	0.00	0.00	0.00
11,300.0	90.00	179.78	7,240.0	-4,373.4	453.3	4,396.8	0.00	0.00	0.00
11,400.0	90.00	179.78	7,240.0	-4,473.4	453.6	4,496.4	0.00	0.00	0.00
11,444.9	90.00	179.78	7,240.0	-4,518.3	453.8	4,541.0	0.00	0.00	0.00
BHL 470'FSL & 544'FEL, Sec.22									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,671.5	7,240.0	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
600.0	600.0	0.0	0.0	KOP #1
6,546.5	6,523.8	-28.8	436.5	KOP #2
7,671.5	7,240.0	-745.0	439.3	End of Build

ENSIGN
Directional

Synergy Resources

SEC.15-T7N-R65W
SRC Gies Pad Sec.15-T7N-R65W
SRC Gies 44-15-22NHZ

Wellbore #1
Plan #1 (5-7-14)

Anticollision Report

14 May, 2014

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Reference Plan #1 (5-7-14)

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	**Error Surface:**	Elliptical Conic

Warning Levels Evaluated at: 2.00 **Sigma**

Survey Tool Program **Date** 5/14/2014

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,444.9	Plan #1 (5-7-14) (Wellbore #1)	MWD	MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
SRC Gies Pad Sec.15-T7N-R65W						
SRC Gies 34-15-22CHZ - Wellbore #1 - Plan #1 (5-6-14)	166.3	167.3	139.8	139.3	266.203	CC
SRC Gies 34-15-22CHZ - Wellbore #1 - Plan #1 (5-6-14)	200.0	200.0	139.8	139.1	207.342	ES
SRC Gies 34-15-22CHZ - Wellbore #1 - Plan #1 (5-6-14)	3,700.0	3,566.3	976.4	959.6	58.283	SF
SRC Gies 34-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14)	400.0	400.0	119.8	118.2	76.136	CC, ES
SRC Gies 34-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14)	800.0	780.6	153.4	150.1	46.517	SF
SRC Gies 44-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14)	600.0	600.0	19.7	17.3	7.980	CC, ES
SRC Gies 44-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14)	11,444.9	11,707.2	348.4	224.3	2.807	SF
SRC Gies D-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14)	600.0	600.0	59.8	57.3	24.167	CC, ES
SRC Gies D-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14)	11,444.9	11,715.1	713.1	547.8	4.313	SF
SRC Gies D-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14)	600.0	600.0	40.0	37.6	16.188	CC, ES
SRC Gies D-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14)	11,444.9	11,434.1	440.4	264.1	2.499	SF
SRC Gies T-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14)	600.0	600.0	99.8	97.3	40.359	CC, ES
SRC Gies T-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14)	800.0	792.4	113.5	110.2	34.357	SF
SRC Gies T-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14)	600.0	600.0	79.8	77.3	32.263	CC, ES
SRC Gies T-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14)	11,444.9	11,463.8	879.7	703.5	4.992	SF

Offset Design SRC Gies Pad Sec.15-T7N-R65W - SRC Gies 34-15-22CHZ - Wellbore #1 - Plan #1 (5-6-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	0.0	0.0	-88.36	4.0	-139.7	139.8				
100.0	100.0	101.0	101.0	0.1	0.1	-88.36	4.0	-139.7	139.8	139.6	0.23	615.851	
166.3	166.3	167.3	167.3	0.3	0.3	-88.36	4.0	-139.7	139.8	139.3	0.53	266.203	CC
200.0	200.0	200.0	200.0	0.3	0.3	-88.36	4.0	-139.7	139.8	139.1	0.67	207.342	ES
300.0	300.0	296.3	296.2	0.6	0.5	-88.37	4.0	-141.4	141.5	140.4	1.11	127.944	
400.0	400.0	391.4	391.2	0.8	0.8	-88.39	4.1	-146.1	146.5	145.0	1.54	94.961	
500.0	500.0	486.0	485.6	1.0	1.0	-88.43	4.2	-154.0	154.8	152.8	2.00	77.263	
600.0	600.0	580.1	579.0	1.2	1.3	-88.48	4.4	-164.9	166.4	163.9	2.50	66.678	
700.0	700.0	673.3	671.1	1.4	1.6	177.71	4.6	-178.7	183.0	180.1	2.90	63.124	
800.0	799.8	771.0	767.5	1.7	1.9	177.70	4.8	-194.7	204.4	201.1	3.34	61.136	
900.0	899.5	867.8	863.1	1.9	2.3	177.72	5.1	-210.5	229.3	225.5	3.78	60.624	
1,000.0	998.9	964.2	958.2	2.1	2.6	177.77	5.3	-226.2	255.9	251.7	4.21	60.734	
1,100.0	1,098.3	1,060.6	1,053.2	2.4	3.0	177.82	5.6	-241.9	282.6	278.0	4.65	60.722	

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

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Gies Pad Sec.15-T7N-R65W - SRC Gies 34-15-22CHZ - Wellbore #1 - Plan #1 (5-6-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
1,200.0	1,197.8	1,157.0	1,148.3	2.7	3.3	177.85	5.8	-257.6	309.3	304.2	5.10	60.645	
1,300.0	1,297.2	1,253.3	1,243.4	2.9	3.7	177.88	6.0	-273.3	336.0	330.4	5.55	60.512	
1,400.0	1,396.6	1,349.7	1,338.5	3.2	4.1	177.91	6.3	-289.0	362.7	356.7	6.01	60.384	
1,500.0	1,496.1	1,446.1	1,433.6	3.5	4.4	177.93	6.5	-304.7	389.4	382.9	6.46	60.246	
1,600.0	1,595.5	1,542.5	1,528.7	3.8	4.8	177.95	6.7	-320.4	416.0	409.1	6.92	60.105	
1,700.0	1,694.9	1,638.8	1,623.8	4.1	5.2	177.96	7.0	-336.1	442.7	435.3	7.38	59.967	
1,800.0	1,794.4	1,735.2	1,718.8	4.4	5.6	177.98	7.2	-351.8	469.4	461.6	7.85	59.834	
1,900.0	1,893.8	1,831.6	1,813.9	4.7	5.9	177.99	7.5	-367.6	496.1	487.8	8.31	59.706	
2,000.0	1,993.2	1,927.9	1,909.0	5.0	6.3	178.00	7.7	-383.3	522.8	514.0	8.77	59.585	
2,100.0	2,092.7	2,024.3	2,004.1	5.3	6.7	178.01	7.9	-399.0	549.5	540.2	9.24	59.471	
2,200.0	2,192.1	2,120.7	2,099.2	5.5	7.0	178.02	8.2	-414.7	576.1	566.4	9.71	59.362	
2,300.0	2,291.5	2,217.1	2,194.3	5.8	7.4	178.03	8.4	-430.4	602.8	592.6	10.17	59.260	
2,400.0	2,391.0	2,313.4	2,289.4	6.1	7.8	178.04	8.7	-446.1	629.5	618.9	10.64	59.163	
2,500.0	2,490.4	2,409.8	2,384.4	6.4	8.1	178.05	8.9	-461.8	656.2	645.1	11.11	59.072	
2,600.0	2,589.8	2,506.2	2,479.5	6.7	8.5	178.06	9.1	-477.5	682.9	671.3	11.58	58.985	
2,700.0	2,689.3	2,602.6	2,574.6	7.0	8.9	178.06	9.4	-493.2	709.6	697.5	12.05	58.904	
2,800.0	2,788.7	2,698.9	2,669.7	7.3	9.3	178.07	9.6	-508.9	736.2	723.7	12.52	58.826	
2,900.0	2,888.1	2,795.3	2,764.8	7.6	9.6	178.07	9.8	-524.7	762.9	749.9	12.99	58.753	
3,000.0	2,987.6	2,891.7	2,859.9	7.9	10.0	178.08	10.1	-540.4	789.6	776.1	13.46	58.684	
3,100.0	3,087.0	2,988.1	2,954.9	8.2	10.4	178.08	10.3	-556.1	816.3	802.4	13.93	58.618	
3,200.0	3,186.4	3,084.4	3,050.0	8.5	10.8	178.09	10.6	-571.8	843.0	828.6	14.40	58.555	
3,300.0	3,285.9	3,180.8	3,145.1	8.8	11.1	178.09	10.8	-587.5	869.6	854.8	14.87	58.495	
3,400.0	3,385.3	3,277.2	3,240.2	9.1	11.5	178.10	11.0	-603.2	896.3	881.0	15.34	58.438	
3,500.0	3,484.7	3,373.6	3,335.3	9.4	11.9	178.10	11.3	-618.9	923.0	907.2	15.81	58.384	
3,600.0	3,584.2	3,469.9	3,430.4	9.7	12.2	178.10	11.5	-634.6	949.7	933.4	16.28	58.332	
3,700.0	3,683.6	3,566.3	3,525.5	10.0	12.6	178.11	11.7	-650.3	976.4	959.6	16.75	58.283	SF

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Gies Pad Sec.15-T7N-R65W - SRC Gies 34-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14) — **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-88.43	3.3	-119.7	119.8				
100.0	100.0	100.0	100.0	0.1	0.1	-88.43	3.3	-119.7	119.8	119.6	0.22	532.955	
200.0	200.0	200.0	200.0	0.3	0.3	-88.43	3.3	-119.7	119.8	119.1	0.67	177.652	
300.0	300.0	300.0	300.0	0.6	0.6	-88.43	3.3	-119.7	119.8	118.7	1.12	106.591	
400.0	400.0	400.0	400.0	0.8	0.8	-88.43	3.3	-119.7	119.8	118.2	1.57	76.136	CC, ES
500.0	500.0	496.0	495.9	1.0	1.0	-88.44	3.3	-121.4	121.5	119.5	2.00	60.649	
600.0	600.0	591.7	591.5	1.2	1.2	-88.48	3.4	-126.2	126.5	124.1	2.43	51.987	
700.0	700.0	686.8	686.3	1.4	1.4	177.72	3.4	-134.1	136.6	133.7	2.87	47.665	
800.0	799.8	780.6	779.5	1.7	1.7	177.72	3.6	-145.0	153.4	150.1	3.30	46.517	SF
900.0	899.5	877.4	875.3	1.9	2.0	177.75	3.7	-158.2	175.6	171.9	3.74	47.001	
1,000.0	998.9	974.4	971.4	2.1	2.3	177.81	3.9	-171.6	199.8	195.6	4.16	48.030	
1,100.0	1,098.3	1,071.4	1,067.6	2.4	2.6	177.85	4.0	-184.9	224.0	219.4	4.59	48.778	
1,200.0	1,197.8	1,168.5	1,163.7	2.7	2.9	177.89	4.2	-198.2	248.1	243.1	5.03	49.332	
1,300.0	1,297.2	1,265.5	1,259.8	2.9	3.2	177.92	4.3	-211.6	272.3	266.8	5.47	49.751	
1,400.0	1,396.6	1,362.5	1,355.9	3.2	3.5	177.94	4.5	-224.9	296.5	290.6	5.92	50.078	
1,500.0	1,496.1	1,459.6	1,452.0	3.5	3.8	177.97	4.6	-238.2	320.7	314.3	6.37	50.321	
1,600.0	1,595.5	1,556.6	1,548.1	3.8	4.2	177.98	4.8	-251.6	344.8	338.0	6.83	50.524	
1,700.0	1,694.9	1,653.6	1,644.2	4.1	4.5	178.00	5.0	-264.9	369.0	361.7	7.28	50.687	
1,800.0	1,794.4	1,750.7	1,740.4	4.4	4.8	178.01	5.1	-278.2	393.2	385.5	7.74	50.819	
1,900.0	1,893.8	1,847.7	1,836.5	4.7	5.2	178.03	5.3	-291.5	417.4	409.2	8.20	50.927	
2,000.0	1,993.2	1,944.7	1,932.6	5.0	5.5	178.04	5.4	-304.9	441.5	432.9	8.65	51.017	
2,100.0	2,092.7	2,041.8	2,028.7	5.3	5.8	178.05	5.6	-318.2	465.7	456.6	9.11	51.093	
2,200.0	2,192.1	2,138.8	2,124.8	5.5	6.2	178.06	5.7	-331.5	489.9	480.3	9.58	51.156	
2,300.0	2,291.5	2,235.8	2,220.9	5.8	6.5	178.07	5.9	-344.9	514.1	504.0	10.04	51.210	
2,400.0	2,391.0	2,332.9	2,317.0	6.1	6.8	178.07	6.0	-358.2	538.2	527.7	10.50	51.256	
2,500.0	2,490.4	2,429.9	2,413.2	6.4	7.2	178.08	6.2	-371.5	562.4	551.4	10.96	51.295	
2,600.0	2,589.8	2,526.9	2,509.3	6.7	7.5	178.09	6.3	-384.8	586.6	575.1	11.43	51.329	
2,700.0	2,689.3	2,624.0	2,605.4	7.0	7.8	178.09	6.5	-398.2	610.7	598.9	11.89	51.358	
2,800.0	2,788.7	2,721.0	2,701.5	7.3	8.2	178.10	6.6	-411.5	634.9	622.6	12.36	51.383	
2,900.0	2,888.1	2,818.0	2,797.6	7.6	8.5	178.10	6.8	-424.8	659.1	646.3	12.82	51.405	
3,000.0	2,987.6	2,915.1	2,893.7	7.9	8.8	178.11	7.0	-438.2	683.3	670.0	13.29	51.424	
3,100.0	3,087.0	3,012.1	2,989.8	8.2	9.2	178.11	7.1	-451.5	707.4	693.7	13.75	51.440	
3,200.0	3,186.4	3,109.1	3,086.0	8.5	9.5	178.11	7.3	-464.8	731.6	717.4	14.22	51.455	
3,300.0	3,285.9	3,206.2	3,182.1	8.8	9.8	178.12	7.4	-478.2	755.8	741.1	14.68	51.468	
3,400.0	3,385.3	3,303.2	3,278.2	9.1	10.2	178.12	7.6	-491.5	780.0	764.8	15.15	51.479	
3,500.0	3,484.7	3,400.2	3,374.3	9.4	10.5	178.13	7.7	-504.8	804.1	788.5	15.62	51.488	
3,600.0	3,584.2	3,497.3	3,470.4	9.7	10.8	178.13	7.9	-518.1	828.3	812.2	16.08	51.497	
3,700.0	3,683.6	3,594.3	3,566.5	10.0	11.2	178.13	8.0	-531.5	852.5	835.9	16.55	51.504	
3,800.0	3,783.0	3,691.4	3,662.6	10.3	11.5	178.13	8.2	-544.8	876.7	859.6	17.02	51.510	
3,900.0	3,882.5	3,788.4	3,758.8	10.6	11.8	178.14	8.3	-558.1	900.8	883.3	17.49	51.516	
4,000.0	3,981.9	3,885.4	3,854.9	10.9	12.2	178.14	8.5	-571.5	925.0	907.0	17.95	51.521	
4,100.0	4,081.3	3,982.5	3,951.0	11.2	12.5	178.14	8.6	-584.8	949.2	930.8	18.42	51.525	
4,200.0	4,180.8	4,079.5	4,047.1	11.5	12.9	178.14	8.8	-598.1	973.3	954.5	18.89	51.528	
4,300.0	4,280.2	4,176.5	4,143.2	11.8	13.2	178.15	9.0	-611.5	997.5	978.2	19.36	51.531	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Gies Pad Sec.15-T7N-R65W - SRC Gies 44-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14) — **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-88.93	0.4	-19.7	19.7	19.7	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	-88.93	0.4	-19.7	19.7	19.5	0.22	87.778	
200.0	200.0	200.0	200.0	0.3	0.3	-88.93	0.4	-19.7	19.7	19.1	0.67	29.259	
300.0	300.0	300.0	300.0	0.6	0.6	-88.93	0.4	-19.7	19.7	18.6	1.12	17.556	
400.0	400.0	400.0	400.0	0.8	0.8	-88.93	0.4	-19.7	19.7	18.2	1.57	12.540	
500.0	500.0	500.0	500.0	1.0	1.0	-88.93	0.4	-19.7	19.7	17.7	2.02	9.753	
600.0	600.0	600.0	600.0	1.2	1.2	-88.93	0.4	-19.7	19.7	17.3	2.47	7.980	CC, ES
700.0	700.0	700.0	700.0	1.4	1.5	177.51	0.4	-19.7	21.5	18.6	2.91	7.382	
800.0	799.8	799.8	799.8	1.7	1.7	178.00	0.4	-19.7	26.7	23.4	3.34	8.002	
900.0	899.5	900.7	900.6	1.9	1.9	178.33	0.2	-18.0	33.7	29.9	3.75	8.974	
1,000.0	998.9	1,001.8	1,001.6	2.1	2.1	178.34	-0.3	-12.7	39.0	34.9	4.16	9.380	
1,100.0	1,098.3	1,102.1	1,101.6	2.4	2.3	178.15	-1.0	-4.8	41.8	37.3	4.58	9.127	
1,200.0	1,197.8	1,202.1	1,201.3	2.7	2.6	177.98	-1.8	3.1	44.5	39.5	5.02	8.876	
1,300.0	1,297.2	1,302.0	1,300.9	2.9	2.8	177.83	-2.5	11.0	47.2	41.8	5.45	8.655	
1,400.0	1,396.6	1,402.0	1,400.6	3.2	3.0	177.69	-3.3	18.9	49.9	44.0	5.90	8.460	
1,500.0	1,496.1	1,502.0	1,500.2	3.5	3.3	177.56	-4.0	26.9	52.6	46.2	6.34	8.287	
1,600.0	1,595.5	1,601.9	1,599.9	3.8	3.5	177.45	-4.8	34.8	55.3	48.5	6.79	8.133	
1,700.0	1,694.9	1,701.9	1,699.5	4.1	3.8	177.35	-5.5	42.7	57.9	50.7	7.25	7.996	
1,800.0	1,794.4	1,801.9	1,799.2	4.4	4.0	177.26	-6.2	50.6	60.6	52.9	7.70	7.872	
1,900.0	1,893.8	1,901.8	1,898.8	4.7	4.3	177.18	-7.0	58.5	63.3	55.2	8.16	7.761	
2,000.0	1,993.2	2,001.8	1,998.5	5.0	4.6	177.10	-7.7	66.5	66.0	57.4	8.62	7.660	
2,100.0	2,092.7	2,101.8	2,098.1	5.3	4.8	177.03	-8.5	74.4	68.7	59.6	9.08	7.568	
2,200.0	2,192.1	2,201.7	2,197.8	5.5	5.1	176.96	-9.2	82.3	71.4	61.8	9.54	7.484	
2,300.0	2,291.5	2,301.7	2,297.4	5.8	5.3	176.90	-10.0	90.2	74.1	64.1	10.00	7.407	
2,400.0	2,391.0	2,401.7	2,397.1	6.1	5.6	176.84	-10.7	98.1	76.8	66.3	10.46	7.337	
2,500.0	2,490.4	2,501.6	2,496.7	6.4	5.9	176.79	-11.5	106.1	79.4	68.5	10.92	7.272	
2,600.0	2,589.8	2,601.6	2,596.3	6.7	6.1	176.74	-12.2	114.0	82.1	70.7	11.39	7.212	
2,700.0	2,689.3	2,701.5	2,696.0	7.0	6.4	176.69	-12.9	121.9	84.8	73.0	11.85	7.156	
2,800.0	2,788.7	2,801.5	2,795.6	7.3	6.7	176.65	-13.7	129.8	87.5	75.2	12.32	7.104	
2,900.0	2,888.1	2,901.5	2,895.3	7.6	6.9	176.61	-14.4	137.7	90.2	77.4	12.78	7.056	
3,000.0	2,987.6	3,001.4	2,994.9	7.9	7.2	176.57	-15.2	145.7	92.9	79.6	13.25	7.010	
3,100.0	3,087.0	3,101.4	3,094.6	8.2	7.5	176.53	-15.9	153.6	95.6	81.8	13.71	6.968	
3,200.0	3,186.4	3,201.4	3,194.2	8.5	7.7	176.50	-16.7	161.5	98.3	84.1	14.18	6.929	
3,300.0	3,285.9	3,301.3	3,293.9	8.8	8.0	176.47	-17.4	169.4	100.9	86.3	14.65	6.891	
3,400.0	3,385.3	3,401.3	3,393.5	9.1	8.3	176.44	-18.2	177.3	103.6	88.5	15.11	6.856	
3,500.0	3,484.7	3,501.3	3,493.2	9.4	8.5	176.41	-18.9	185.3	106.3	90.7	15.58	6.823	
3,600.0	3,584.2	3,601.2	3,592.8	9.7	8.8	176.38	-19.6	193.2	109.0	93.0	16.05	6.792	
3,700.0	3,683.6	3,701.2	3,692.5	10.0	9.1	176.35	-20.4	201.1	111.7	95.2	16.52	6.762	
3,800.0	3,783.0	3,800.0	3,791.0	10.3	9.3	176.33	-21.1	208.9	114.4	97.5	16.98	6.741	
3,900.0	3,882.5	3,896.3	3,887.2	10.6	9.5	176.41	-21.6	214.3	119.5	102.1	17.39	6.871	
4,000.0	3,981.9	3,991.9	3,982.7	10.9	9.7	176.61	-21.8	216.4	127.8	110.0	17.80	7.180	
4,100.0	4,081.3	4,090.6	4,081.3	11.2	9.9	176.86	-21.8	216.5	138.4	120.1	18.23	7.591	
4,200.0	4,180.8	4,190.0	4,180.8	11.5	10.0	177.09	-21.8	216.5	149.0	130.3	18.66	7.983	
4,300.0	4,280.2	4,289.4	4,280.2	11.8	10.2	177.28	-21.8	216.5	159.6	140.5	19.10	8.357	
4,400.0	4,379.6	4,388.9	4,379.6	12.1	10.4	177.45	-21.8	216.5	170.2	150.7	19.53	8.713	
4,500.0	4,479.1	4,488.3	4,479.1	12.4	10.6	177.60	-21.8	216.5	180.8	160.8	19.97	9.054	
4,600.0	4,578.5	4,587.7	4,578.5	12.7	10.8	177.73	-21.8	216.5	191.4	171.0	20.41	9.379	
4,700.0	4,678.0	4,687.2	4,678.0	13.0	11.0	177.85	-21.8	216.5	202.0	181.2	20.85	9.690	
4,800.0	4,777.5	4,786.7	4,777.5	13.3	11.2	177.95	-21.8	216.5	211.5	190.2	21.28	9.940	
4,900.0	4,877.3	4,886.5	4,877.3	13.5	11.4	178.01	-21.8	216.5	217.5	195.9	21.65	10.045	
5,000.0	4,977.3	4,986.5	4,977.3	13.6	11.6	178.04	-21.8	216.5	220.0	198.0	22.01	10.000	
5,100.0	5,077.3	5,086.5	5,077.3	13.8	11.8	-88.19	-21.8	216.5	220.1	197.7	22.39	9.831	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Gies Pad Sec.15-T7N-R65W - SRC Gies 44-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,177.3	5,186.5	5,177.3	14.0	12.0	-88.19	-21.8	216.5	220.1	197.3	22.80	9.657	
5,300.0	5,277.3	5,286.5	5,277.3	14.1	12.2	-88.19	-21.8	216.5	220.1	196.9	23.20	9.488	
5,400.0	5,377.3	5,386.5	5,377.3	14.3	12.4	-88.19	-21.8	216.5	220.1	196.5	23.61	9.324	
5,500.0	5,477.3	5,486.5	5,477.3	14.5	12.6	-88.19	-21.8	216.5	220.1	196.1	24.02	9.165	
5,600.0	5,577.3	5,586.5	5,577.3	14.6	12.8	-88.19	-21.8	216.5	220.1	195.7	24.43	9.011	
5,700.0	5,677.3	5,686.5	5,677.3	14.8	13.0	-88.19	-21.8	216.5	220.1	195.3	24.84	8.861	
5,800.0	5,777.3	5,786.5	5,777.3	15.0	13.2	-88.19	-21.8	216.5	220.1	194.9	25.26	8.716	
5,900.0	5,877.3	5,886.5	5,877.3	15.2	13.4	-88.19	-21.8	216.5	220.1	194.5	25.67	8.576	
6,000.0	5,977.3	5,986.5	5,977.3	15.3	13.6	-88.19	-21.8	216.5	220.1	194.1	26.09	8.439	
6,100.0	6,077.3	6,086.5	6,077.3	15.5	13.8	-88.19	-21.8	216.5	220.1	193.6	26.50	8.306	
6,200.0	6,177.3	6,186.5	6,177.3	15.7	14.0	-88.19	-21.8	216.5	220.1	193.2	26.92	8.177	
6,300.0	6,277.3	6,286.5	6,277.3	15.9	14.2	-88.19	-21.8	216.5	220.1	192.8	27.34	8.052	
6,400.0	6,377.3	6,386.5	6,377.3	16.1	14.4	-88.19	-21.8	216.5	220.1	192.4	27.76	7.930	
6,500.0	6,477.3	6,486.5	6,477.3	16.3	14.6	-88.19	-21.8	216.5	220.1	192.0	28.18	7.812	
6,530.3	6,507.5	6,516.8	6,507.5	16.3	14.7	92.12	-21.8	216.5	220.1	191.8	28.31	7.777	
6,600.0	6,577.2	6,586.4	6,577.2	16.4	14.8	92.55	-21.8	216.5	220.2	191.6	28.59	7.701	
6,700.0	6,676.1	6,685.3	6,676.1	16.6	15.0	96.13	-21.8	216.5	221.3	192.3	29.00	7.633	
6,800.0	6,772.0	6,781.2	6,772.0	16.8	15.2	102.55	-21.8	216.5	226.1	196.7	29.39	7.692	
6,900.0	6,863.1	6,882.4	6,873.0	17.1	15.4	110.66	-26.2	216.5	237.5	207.8	29.66	8.007	
7,000.0	6,947.6	6,991.9	6,980.5	17.3	15.7	118.15	-46.6	216.6	253.7	224.0	29.62	8.564	
7,100.0	7,023.8	7,109.1	7,090.7	17.7	15.9	124.61	-86.3	216.7	272.8	243.6	29.23	9.332	
7,200.0	7,090.3	7,235.1	7,200.1	18.2	16.3	129.97	-148.2	217.0	293.0	264.4	28.63	10.234	
7,300.0	7,145.8	7,370.3	7,303.6	18.8	16.8	134.25	-235.0	217.3	312.4	284.3	28.08	11.125	
7,400.0	7,189.1	7,514.9	7,394.1	19.6	17.6	137.46	-347.4	217.7	328.9	301.0	27.90	11.789	
7,500.0	7,219.6	7,667.5	7,463.1	20.5	18.8	139.61	-483.2	218.2	341.1	312.6	28.46	11.985	
7,600.0	7,236.4	7,825.8	7,502.7	21.6	20.4	140.70	-636.2	218.8	347.5	317.5	30.01	11.583	
7,700.0	7,240.0	7,964.3	7,510.0	22.7	22.0	140.82	-774.3	219.4	348.3	316.1	32.22	10.809	
7,800.0	7,240.0	8,064.3	7,510.0	24.0	23.4	140.82	-874.3	219.7	348.3	314.3	34.04	10.232	
7,900.0	7,240.0	8,164.3	7,510.0	25.4	24.8	140.82	-974.3	220.1	348.3	312.3	35.97	9.684	
8,000.0	7,240.0	8,264.3	7,510.0	26.8	26.2	140.82	-1,074.3	220.5	348.3	310.3	37.98	9.170	
8,100.0	7,240.0	8,364.3	7,510.0	28.3	27.7	140.82	-1,174.3	220.9	348.3	308.2	40.08	8.690	
8,200.0	7,240.0	8,464.3	7,510.0	29.9	29.3	140.82	-1,274.3	221.3	348.3	306.1	42.24	8.245	
8,300.0	7,240.0	8,564.3	7,510.0	31.4	30.9	140.82	-1,374.3	221.6	348.3	303.8	44.46	7.834	
8,400.0	7,240.0	8,664.3	7,510.0	33.1	32.6	140.82	-1,474.3	222.0	348.3	301.6	46.73	7.453	
8,500.0	7,240.0	8,764.3	7,510.0	34.7	34.2	140.82	-1,574.3	222.4	348.3	299.3	49.05	7.102	
8,600.0	7,240.0	8,864.3	7,510.0	36.4	35.9	140.82	-1,674.3	222.8	348.3	296.9	51.39	6.777	
8,700.0	7,240.0	8,964.3	7,510.0	38.1	37.6	140.82	-1,774.3	223.2	348.3	294.5	53.77	6.477	
8,800.0	7,240.0	9,064.3	7,510.0	39.8	39.4	140.82	-1,874.3	223.6	348.3	292.1	56.18	6.200	
8,900.0	7,240.0	9,164.3	7,510.0	41.6	41.1	140.82	-1,974.3	223.9	348.3	289.7	58.61	5.943	
9,000.0	7,240.0	9,264.3	7,510.0	43.3	42.9	140.82	-2,074.3	224.3	348.3	287.3	61.07	5.704	
9,100.0	7,240.0	9,364.3	7,510.0	45.1	44.7	140.82	-2,174.3	224.7	348.3	284.8	63.54	5.482	
9,200.0	7,240.0	9,464.3	7,510.0	46.9	46.5	140.82	-2,274.3	225.1	348.3	282.3	66.03	5.275	
9,300.0	7,240.0	9,564.3	7,510.0	48.7	48.3	140.82	-2,374.3	225.5	348.3	279.8	68.53	5.083	
9,400.0	7,240.0	9,664.3	7,510.0	50.5	50.1	140.82	-2,474.3	225.9	348.3	277.3	71.05	4.902	
9,500.0	7,240.0	9,764.3	7,510.0	52.3	51.9	140.82	-2,574.3	226.2	348.3	274.7	73.58	4.734	
9,600.0	7,240.0	9,864.3	7,510.0	54.1	53.7	140.82	-2,674.3	226.6	348.3	272.2	76.12	4.576	
9,700.0	7,240.0	9,964.3	7,510.0	55.9	55.6	140.82	-2,774.3	227.0	348.3	269.7	78.67	4.428	
9,800.0	7,240.0	10,064.3	7,510.0	57.8	57.4	140.82	-2,874.3	227.4	348.3	267.1	81.23	4.288	
9,900.0	7,240.0	10,164.3	7,510.0	59.6	59.3	140.81	-2,974.3	227.8	348.3	264.5	83.80	4.157	
10,000.0	7,240.0	10,264.3	7,510.0	61.4	61.1	140.81	-3,074.3	228.1	348.3	262.0	86.37	4.033	
10,100.0	7,240.0	10,364.3	7,510.0	63.3	63.0	140.81	-3,174.3	228.5	348.3	259.4	88.96	3.916	
10,200.0	7,240.0	10,464.3	7,510.0	65.1	64.8	140.81	-3,274.3	228.9	348.3	256.8	91.54	3.805	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Gies Pad Sec.15-T7N-R65W - SRC Gies 44-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,300.0	7,240.0	10,564.3	7,510.0	67.0	66.7	140.81	-3,374.3	229.3	348.3	254.2	94.14	3.700	
10,400.0	7,240.0	10,664.3	7,510.0	68.9	68.6	140.81	-3,474.3	229.7	348.3	251.6	96.73	3.601	
10,500.0	7,240.0	10,764.3	7,510.0	70.7	70.4	140.81	-3,574.3	230.1	348.4	249.0	99.34	3.507	
10,600.0	7,240.0	10,864.3	7,510.0	72.6	72.3	140.81	-3,674.3	230.4	348.4	246.4	101.95	3.417	
10,700.0	7,240.0	10,964.3	7,510.0	74.5	74.2	140.81	-3,774.3	230.8	348.4	243.8	104.56	3.332	
10,800.0	7,240.0	11,064.3	7,510.0	76.3	76.1	140.81	-3,874.3	231.2	348.4	241.2	107.17	3.250	
10,900.0	7,240.0	11,164.3	7,510.0	78.2	77.9	140.81	-3,974.3	231.6	348.4	238.6	109.79	3.173	
11,000.0	7,240.0	11,264.3	7,510.0	80.1	79.8	140.81	-4,074.3	232.0	348.4	235.9	112.41	3.099	
11,100.0	7,240.0	11,364.3	7,510.0	82.0	81.7	140.81	-4,174.3	232.4	348.4	233.3	115.04	3.028	
11,200.0	7,240.0	11,464.3	7,510.0	83.9	83.6	140.81	-4,274.3	232.7	348.4	230.7	117.67	2.961	
11,300.0	7,240.0	11,564.3	7,510.0	85.7	85.5	140.81	-4,374.3	233.1	348.4	228.1	120.30	2.896	
11,400.0	7,240.0	11,664.3	7,510.0	87.6	87.4	140.81	-4,474.3	233.5	348.4	225.4	122.93	2.834	
11,423.6	7,240.0	11,687.9	7,510.0	88.1	87.8	140.81	-4,497.9	233.6	348.4	224.8	123.55	2.820	
11,444.9	7,240.0	11,707.2	7,510.0	88.5	88.2	140.81	-4,517.2	233.7	348.4	224.3	124.09	2.807	SF

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Gies Pad Sec.15-T7N-R65W - SRC Gies D-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14) — **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-88.60	1.5	-59.7	59.8				
100.0	100.0	100.0	100.0	0.1	0.1	-88.60	1.5	-59.7	59.8	59.5	0.22	265.839	
200.0	200.0	200.0	200.0	0.3	0.3	-88.60	1.5	-59.7	59.8	59.1	0.67	88.613	
300.0	300.0	300.0	300.0	0.6	0.6	-88.60	1.5	-59.7	59.8	58.6	1.12	53.168	
400.0	400.0	400.0	400.0	0.8	0.8	-88.60	1.5	-59.7	59.8	58.2	1.57	37.977	
500.0	500.0	500.0	500.0	1.0	1.0	-88.60	1.5	-59.7	59.8	57.7	2.02	29.538	
600.0	600.0	600.0	600.0	1.2	1.2	-88.60	1.5	-59.7	59.8	57.3	2.47	24.167	CC, ES
700.0	700.0	700.0	700.0	1.4	1.5	177.69	1.5	-59.7	61.5	58.6	2.91	21.140	
800.0	799.8	799.8	799.8	1.7	1.7	177.87	1.5	-59.7	66.7	63.4	3.34	19.997	
900.0	899.5	899.5	899.5	1.9	1.9	178.11	1.5	-59.7	75.4	71.7	3.77	20.019	
1,000.0	998.9	998.9	998.9	2.1	2.1	178.34	1.5	-59.7	86.0	81.8	4.20	20.472	
1,100.0	1,098.3	1,098.3	1,098.3	2.4	2.4	178.52	1.5	-59.7	96.7	92.0	4.64	20.820	
1,200.0	1,197.8	1,197.8	1,197.8	2.7	2.6	178.67	1.5	-59.7	107.3	102.2	5.09	21.092	
1,300.0	1,297.2	1,297.2	1,297.2	2.9	2.8	178.79	1.5	-59.7	117.9	112.4	5.53	21.311	
1,400.0	1,396.6	1,396.6	1,396.6	3.2	3.0	178.89	1.5	-59.7	128.5	122.5	5.98	21.489	
1,500.0	1,496.1	1,491.6	1,491.6	3.5	3.2	178.91	1.4	-61.2	140.7	134.3	6.41	21.947	
1,600.0	1,595.5	1,585.6	1,585.4	3.8	3.4	178.80	1.1	-65.7	156.1	149.2	6.83	22.848	
1,700.0	1,694.9	1,683.6	1,683.2	4.1	3.6	178.64	0.7	-72.4	173.4	166.1	7.26	23.883	
1,800.0	1,794.4	1,782.0	1,781.5	4.4	3.8	178.50	0.3	-79.1	190.7	183.0	7.69	24.806	
1,900.0	1,893.8	1,880.5	1,879.7	4.7	4.1	178.39	-0.1	-85.7	208.0	199.9	8.12	25.620	
2,000.0	1,993.2	1,979.0	1,978.0	5.0	4.3	178.30	-0.5	-92.4	225.3	216.8	8.55	26.343	
2,100.0	2,092.7	2,077.5	2,076.2	5.3	4.5	178.22	-0.9	-99.1	242.7	233.7	8.99	26.989	
2,200.0	2,192.1	2,176.0	2,174.5	5.5	4.7	178.15	-1.3	-105.8	260.0	250.6	9.43	27.565	
2,300.0	2,291.5	2,274.5	2,272.8	5.8	5.0	178.09	-1.7	-112.5	277.3	267.4	9.87	28.087	
2,400.0	2,391.0	2,373.0	2,371.0	6.1	5.2	178.04	-2.1	-119.2	294.6	284.3	10.32	28.559	
2,500.0	2,490.4	2,471.5	2,469.3	6.4	5.4	177.99	-2.5	-125.8	312.0	301.2	10.76	28.988	
2,600.0	2,589.8	2,569.9	2,567.5	6.7	5.7	177.95	-2.9	-132.5	329.3	318.1	11.21	29.380	
2,700.0	2,689.3	2,668.4	2,665.8	7.0	5.9	177.91	-3.3	-139.2	346.6	334.9	11.66	29.738	
2,800.0	2,788.7	2,766.9	2,764.1	7.3	6.1	177.87	-3.7	-145.9	363.9	351.8	12.10	30.067	
2,900.0	2,888.1	2,865.4	2,862.3	7.6	6.4	177.84	-4.1	-152.6	381.3	368.7	12.55	30.370	
3,000.0	2,987.6	2,963.9	2,960.6	7.9	6.6	177.81	-4.5	-159.3	398.6	385.6	13.00	30.651	
3,100.0	3,087.0	3,062.4	3,058.8	8.2	6.9	177.79	-4.9	-165.9	415.9	402.4	13.46	30.911	
3,200.0	3,186.4	3,160.9	3,157.1	8.5	7.1	177.76	-5.3	-172.6	433.2	419.3	13.91	31.152	
3,300.0	3,285.9	3,259.4	3,255.4	8.8	7.4	177.74	-5.7	-179.3	450.6	436.2	14.36	31.377	
3,400.0	3,385.3	3,357.8	3,353.6	9.1	7.6	177.72	-6.1	-186.0	467.9	453.1	14.81	31.586	
3,500.0	3,484.7	3,456.3	3,451.9	9.4	7.9	177.70	-6.5	-192.7	485.2	469.9	15.27	31.783	
3,600.0	3,584.2	3,554.8	3,550.1	9.7	8.1	177.68	-6.9	-199.4	502.5	486.8	15.72	31.966	
3,700.0	3,683.6	3,653.3	3,648.4	10.0	8.4	177.67	-7.3	-206.0	519.9	503.7	16.18	32.139	
3,800.0	3,783.0	3,751.8	3,746.7	10.3	8.6	177.65	-7.7	-212.7	537.2	520.5	16.63	32.301	
3,900.0	3,882.5	3,859.8	3,854.4	10.6	8.9	177.64	-8.1	-219.6	554.2	537.1	17.10	32.414	
4,000.0	3,981.9	3,982.9	3,977.5	10.9	9.1	177.66	-8.3	-223.2	567.7	550.1	17.57	32.315	
4,100.0	4,081.3	4,086.8	4,081.3	11.2	9.3	177.71	-8.3	-223.3	578.4	560.4	18.01	32.120	
4,200.0	4,180.8	4,186.2	4,180.8	11.5	9.5	177.75	-8.3	-223.3	589.0	570.5	18.45	31.923	
4,300.0	4,280.2	4,285.6	4,280.2	11.8	9.7	177.79	-8.3	-223.3	599.6	580.7	18.90	31.732	
4,400.0	4,379.6	4,385.1	4,379.6	12.1	9.9	177.83	-8.3	-223.3	610.2	590.9	19.34	31.549	
4,500.0	4,479.1	4,484.5	4,479.1	12.4	10.1	177.86	-8.3	-223.3	620.8	601.0	19.79	31.373	
4,600.0	4,578.5	4,583.9	4,578.5	12.7	10.3	177.90	-8.3	-223.3	631.4	611.2	20.24	31.204	
4,700.0	4,678.0	4,683.4	4,678.0	13.0	10.5	177.93	-8.3	-223.3	642.1	621.4	20.68	31.042	
4,800.0	4,777.5	4,782.9	4,777.5	13.3	10.7	177.97	-8.3	-223.3	651.5	630.4	21.14	30.818	
4,900.0	4,877.3	4,882.7	4,877.3	13.5	10.9	177.99	-8.3	-223.3	657.5	636.0	21.55	30.511	
5,000.0	4,977.3	4,982.7	4,977.3	13.6	11.1	178.00	-8.3	-223.3	660.1	638.1	21.93	30.092	
5,100.0	5,077.3	5,082.7	5,077.3	13.8	11.3	-88.22	-8.3	-223.3	660.2	637.8	22.33	29.558	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Gies Pad Sec.15-T7N-R65W - SRC Gies D-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,177.3	5,182.7	5,177.3	14.0	11.5	-88.22	-8.3	-223.3	660.2	637.4	22.74	29.025	
5,300.0	5,277.3	5,282.7	5,277.3	14.1	11.8	-88.22	-8.3	-223.3	660.2	637.0	23.16	28.509	
5,400.0	5,377.3	5,382.7	5,377.3	14.3	12.0	-88.22	-8.3	-223.3	660.2	636.6	23.57	28.010	
5,500.0	5,477.3	5,482.7	5,477.3	14.5	12.2	-88.22	-8.3	-223.3	660.2	636.2	23.98	27.526	
5,600.0	5,577.3	5,582.7	5,577.3	14.6	12.4	-88.22	-8.3	-223.3	660.2	635.8	24.40	27.057	
5,700.0	5,677.3	5,682.7	5,677.3	14.8	12.6	-88.22	-8.3	-223.3	660.2	635.3	24.81	26.603	
5,800.0	5,777.3	5,782.7	5,777.3	15.0	12.8	-88.22	-8.3	-223.3	660.2	634.9	25.23	26.163	
5,900.0	5,877.3	5,882.7	5,877.3	15.2	13.0	-88.22	-8.3	-223.3	660.2	634.5	25.65	25.736	
6,000.0	5,977.3	5,982.7	5,977.3	15.3	13.2	-88.22	-8.3	-223.3	660.2	634.1	26.07	25.321	
6,100.0	6,077.3	6,082.7	6,077.3	15.5	13.5	-88.22	-8.3	-223.3	660.2	633.7	26.49	24.919	
6,200.0	6,177.3	6,182.7	6,177.3	15.7	13.7	-88.22	-8.3	-223.3	660.2	633.2	26.91	24.529	
6,300.0	6,277.3	6,282.7	6,277.3	15.9	13.9	-88.22	-8.3	-223.3	660.2	632.8	27.34	24.150	
6,400.0	6,377.3	6,382.7	6,377.3	16.1	14.1	-88.22	-8.3	-223.3	660.2	632.4	27.76	23.781	
6,500.0	6,477.3	6,482.7	6,477.3	16.3	14.3	-88.22	-8.3	-223.3	660.2	632.0	28.18	23.423	
6,525.9	6,503.2	6,508.6	6,503.2	16.3	14.4	92.02	-8.3	-223.3	660.2	631.9	28.29	23.333	
6,600.0	6,577.2	6,582.7	6,577.2	16.4	14.5	92.16	-8.3	-223.3	660.2	631.6	28.60	23.083	
6,700.0	6,676.1	6,681.5	6,676.1	16.6	14.7	93.34	-8.3	-223.3	660.9	631.9	29.01	22.782	
6,800.0	6,772.0	6,777.4	6,772.0	16.8	15.0	95.47	-8.3	-223.3	663.2	633.8	29.42	22.545	
6,900.0	6,863.1	6,880.5	6,874.9	17.1	15.2	98.37	-12.9	-223.3	668.0	638.2	29.81	22.405	
7,000.0	6,947.6	6,993.0	6,985.2	17.3	15.4	101.29	-34.4	-223.2	674.6	644.4	30.22	22.327	
7,100.0	7,023.8	7,113.7	7,098.2	17.7	15.6	104.08	-76.3	-223.1	682.6	651.9	30.68	22.251	
7,200.0	7,090.3	7,243.4	7,210.0	18.2	15.9	106.65	-141.7	-222.8	691.2	659.9	31.28	22.093	
7,300.0	7,145.8	7,382.5	7,314.7	18.8	16.4	108.89	-233.0	-222.5	699.5	667.3	32.18	21.737	
7,400.0	7,189.1	7,530.7	7,404.6	19.6	17.3	110.68	-350.5	-222.0	706.5	673.0	33.53	21.071	
7,500.0	7,219.6	7,686.3	7,470.8	20.5	18.5	111.86	-490.9	-221.5	711.3	675.8	35.49	20.044	
7,600.0	7,236.4	7,846.2	7,505.8	21.6	20.2	112.32	-646.6	-220.9	713.2	675.1	38.11	18.715	
7,699.8	7,241.4	7,975.5	7,510.0	22.7	21.8	112.15	-775.8	-220.4	712.4	671.5	40.89	17.423	
7,700.0	7,240.0	7,975.7	7,510.0	22.7	21.8	112.26	-776.0	-220.4	712.9	672.0	40.87	17.444	
7,800.0	7,240.0	8,075.7	7,510.0	24.0	23.1	112.26	-876.0	-220.0	712.9	669.5	43.38	16.433	
7,900.0	7,240.0	8,175.7	7,510.0	25.4	24.6	112.26	-976.0	-219.6	712.9	666.9	46.04	15.485	
8,000.0	7,240.0	8,275.7	7,510.0	26.8	26.0	112.26	-1,076.0	-219.3	712.9	664.1	48.82	14.603	
8,100.0	7,240.0	8,375.7	7,510.0	28.3	27.6	112.25	-1,176.0	-218.9	712.9	661.2	51.70	13.789	
8,200.0	7,240.0	8,475.7	7,510.0	29.9	29.1	112.25	-1,276.0	-218.5	712.9	658.2	54.67	13.041	
8,300.0	7,240.0	8,575.7	7,510.0	31.4	30.8	112.25	-1,376.0	-218.1	712.9	655.2	57.71	12.353	
8,400.0	7,240.0	8,675.7	7,510.0	33.1	32.4	112.25	-1,476.0	-217.7	712.9	652.1	60.81	11.723	
8,500.0	7,240.0	8,775.7	7,510.0	34.7	34.1	112.25	-1,576.0	-217.4	712.9	649.0	63.97	11.145	
8,600.0	7,240.0	8,875.7	7,510.0	36.4	35.8	112.25	-1,676.0	-217.0	712.9	645.8	67.17	10.614	
8,700.0	7,240.0	8,975.7	7,510.0	38.1	37.5	112.25	-1,776.0	-216.6	712.9	642.5	70.41	10.125	
8,800.0	7,240.0	9,075.7	7,510.0	39.8	39.3	112.25	-1,876.0	-216.2	712.9	639.3	73.69	9.675	
8,900.0	7,240.0	9,175.7	7,510.0	41.6	41.0	112.25	-1,976.0	-215.8	712.9	636.0	76.99	9.260	
9,000.0	7,240.0	9,275.7	7,510.0	43.3	42.8	112.25	-2,076.0	-215.5	713.0	632.6	80.32	8.876	
9,100.0	7,240.0	9,375.7	7,510.0	45.1	44.6	112.25	-2,176.0	-215.1	713.0	629.3	83.68	8.520	
9,200.0	7,240.0	9,475.7	7,510.0	46.9	46.4	112.25	-2,276.0	-214.7	713.0	625.9	87.05	8.190	
9,300.0	7,240.0	9,575.7	7,510.0	48.7	48.2	112.25	-2,376.0	-214.3	713.0	622.5	90.44	7.883	
9,400.0	7,240.0	9,675.7	7,510.0	50.5	50.0	112.25	-2,476.0	-213.9	713.0	619.1	93.85	7.597	
9,500.0	7,240.0	9,775.7	7,510.0	52.3	51.8	112.25	-2,576.0	-213.6	713.0	615.7	97.28	7.329	
9,600.0	7,240.0	9,875.7	7,510.0	54.1	53.7	112.25	-2,676.0	-213.2	713.0	612.3	100.71	7.079	
9,700.0	7,240.0	9,975.7	7,510.0	55.9	55.5	112.25	-2,776.0	-212.8	713.0	608.8	104.16	6.845	
9,800.0	7,240.0	10,075.7	7,510.0	57.8	57.3	112.25	-2,876.0	-212.4	713.0	605.4	107.62	6.625	
9,900.0	7,240.0	10,175.7	7,510.0	59.6	59.2	112.25	-2,976.0	-212.0	713.0	601.9	111.08	6.419	
10,000.0	7,240.0	10,275.7	7,510.0	61.4	61.0	112.25	-3,076.0	-211.6	713.0	598.4	114.56	6.224	
10,100.0	7,240.0	10,375.7	7,510.0	63.3	62.9	112.25	-3,176.0	-211.3	713.0	595.0	118.04	6.040	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Gies Pad Sec.15-T7N-R65W - SRC Gies D-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,200.0	7,240.0	10,475.7	7,510.0	65.1	64.8	112.25	-3,276.0	-210.9	713.0	591.5	121.53	5.867	
10,300.0	7,240.0	10,575.7	7,510.0	67.0	66.6	112.25	-3,376.0	-210.5	713.0	588.0	125.03	5.703	
10,400.0	7,240.0	10,675.7	7,510.0	68.9	68.5	112.25	-3,476.0	-210.1	713.0	584.5	128.54	5.547	
10,500.0	7,240.0	10,775.7	7,510.0	70.7	70.4	112.25	-3,576.0	-209.7	713.0	581.0	132.05	5.400	
10,600.0	7,240.0	10,875.7	7,510.0	72.6	72.2	112.25	-3,676.0	-209.4	713.0	577.5	135.56	5.260	
10,700.0	7,240.0	10,975.7	7,510.0	74.5	74.1	112.25	-3,776.0	-209.0	713.0	573.9	139.08	5.127	
10,800.0	7,240.0	11,075.7	7,510.0	76.3	76.0	112.25	-3,876.0	-208.6	713.0	570.4	142.60	5.000	
10,900.0	7,240.0	11,175.7	7,510.0	78.2	77.9	112.25	-3,976.0	-208.2	713.0	566.9	146.13	4.879	
11,000.0	7,240.0	11,275.7	7,510.0	80.1	79.8	112.25	-4,076.0	-207.8	713.0	563.4	149.66	4.764	
11,100.0	7,240.0	11,375.7	7,510.0	82.0	81.6	112.25	-4,176.0	-207.5	713.0	559.8	153.20	4.654	
11,200.0	7,240.0	11,475.7	7,510.0	83.9	83.5	112.25	-4,276.0	-207.1	713.0	556.3	156.74	4.549	
11,300.0	7,240.0	11,575.7	7,510.0	85.7	85.4	112.25	-4,376.0	-206.7	713.1	552.8	160.28	4.449	
11,400.0	7,240.0	11,675.7	7,510.0	87.6	87.3	112.25	-4,476.0	-206.3	713.1	549.2	163.82	4.353	
11,422.1	7,240.0	11,697.8	7,510.0	88.0	87.7	112.25	-4,498.1	-206.2	713.1	548.4	164.61	4.332	
11,444.9	7,240.0	11,715.1	7,510.0	88.5	88.1	112.25	-4,515.4	-206.2	713.1	547.8	165.32	4.313	SF

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Gies Pad Sec.15-T7N-R65W - SRC Gies D-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14) — **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-88.43	1.1	-40.0	40.0				
100.0	100.0	100.0	100.0	0.1	0.1	-88.43	1.1	-40.0	40.0	39.8	0.22	178.064	
200.0	200.0	200.0	200.0	0.3	0.3	-88.43	1.1	-40.0	40.0	39.3	0.67	59.355	
300.0	300.0	300.0	300.0	0.6	0.6	-88.43	1.1	-40.0	40.0	38.9	1.12	35.613	
400.0	400.0	400.0	400.0	0.8	0.8	-88.43	1.1	-40.0	40.0	38.4	1.57	25.438	
500.0	500.0	500.0	500.0	1.0	1.0	-88.43	1.1	-40.0	40.0	38.0	2.02	19.785	
600.0	600.0	600.0	600.0	1.2	1.2	-88.43	1.1	-40.0	40.0	37.6	2.47	16.188	CC, ES
700.0	700.0	700.0	700.0	1.4	1.5	177.89	1.1	-40.0	41.8	38.9	2.91	14.358	
800.0	799.8	799.8	799.8	1.7	1.7	178.12	1.1	-40.0	47.0	43.7	3.34	14.085	
900.0	899.5	899.5	899.5	1.9	1.9	178.41	1.1	-40.0	55.7	51.9	3.77	14.784	
1,000.0	998.9	998.9	998.9	2.1	2.1	178.66	1.1	-40.0	66.3	62.1	4.20	15.780	
1,100.0	1,098.3	1,099.3	1,099.3	2.4	2.3	178.55	0.7	-39.0	75.9	71.3	4.61	16.465	
1,200.0	1,197.8	1,198.8	1,198.8	2.7	2.5	178.39	0.1	-37.8	85.3	80.3	5.02	16.979	
1,300.0	1,297.2	1,298.4	1,298.4	2.9	2.7	178.27	-0.4	-36.5	94.7	89.2	5.44	17.390	
1,400.0	1,396.6	1,398.0	1,397.9	3.2	2.9	178.16	-1.0	-35.3	104.0	98.2	5.87	17.724	
1,500.0	1,496.1	1,497.5	1,497.5	3.5	3.1	178.08	-1.6	-34.1	113.4	107.1	6.30	17.998	
1,600.0	1,595.5	1,597.1	1,597.0	3.8	3.3	178.00	-2.1	-32.8	122.8	116.0	6.73	18.227	
1,700.0	1,694.9	1,696.7	1,696.6	4.1	3.5	177.94	-2.7	-31.6	132.1	124.9	7.17	18.419	
1,800.0	1,794.4	1,796.2	1,796.1	4.4	3.8	177.89	-3.2	-30.4	141.5	133.9	7.61	18.583	
1,900.0	1,893.8	1,895.8	1,895.7	4.7	4.0	177.84	-3.8	-29.1	150.8	142.8	8.06	18.723	
2,000.0	1,993.2	1,995.3	1,995.2	5.0	4.2	177.80	-4.3	-27.9	160.2	151.7	8.50	18.845	
2,100.0	2,092.7	2,094.9	2,094.8	5.3	4.4	177.76	-4.9	-26.6	169.6	160.6	8.95	18.951	
2,200.0	2,192.1	2,194.5	2,194.3	5.5	4.6	177.73	-5.4	-25.4	178.9	169.5	9.40	19.044	
2,300.0	2,291.5	2,294.0	2,293.9	5.8	4.8	177.70	-6.0	-24.2	188.3	178.4	9.85	19.126	
2,400.0	2,391.0	2,393.6	2,393.4	6.1	5.0	177.67	-6.5	-22.9	197.7	187.4	10.30	19.199	
2,500.0	2,490.4	2,493.1	2,493.0	6.4	5.3	177.64	-7.1	-21.7	207.0	196.3	10.75	19.264	
2,600.0	2,589.8	2,592.7	2,592.6	6.7	5.5	177.62	-7.6	-20.5	216.4	205.2	11.20	19.322	
2,700.0	2,689.3	2,692.3	2,692.1	7.0	5.7	177.60	-8.2	-19.2	225.8	214.1	11.65	19.375	
2,800.0	2,788.7	2,791.8	2,791.7	7.3	5.9	177.58	-8.7	-18.0	235.1	223.0	12.11	19.423	
2,900.0	2,888.1	2,891.4	2,891.2	7.6	6.1	177.56	-9.3	-16.7	244.5	231.9	12.56	19.466	
3,000.0	2,987.6	2,990.9	2,990.8	7.9	6.4	177.55	-9.8	-15.5	253.8	240.8	13.01	19.506	
3,100.0	3,087.0	3,090.5	3,090.3	8.2	6.6	177.53	-10.4	-14.3	263.2	249.7	13.47	19.542	
3,200.0	3,186.4	3,190.1	3,189.9	8.5	6.8	177.52	-10.9	-13.0	272.6	258.6	13.92	19.575	
3,300.0	3,285.9	3,289.6	3,289.4	8.8	7.0	177.50	-11.5	-11.8	281.9	267.6	14.38	19.606	
3,400.0	3,385.3	3,389.2	3,389.0	9.1	7.2	177.49	-12.0	-10.6	291.3	276.5	14.84	19.634	
3,500.0	3,484.7	3,488.7	3,488.5	9.4	7.5	177.48	-12.6	-9.3	300.7	285.4	15.29	19.660	
3,600.0	3,584.2	3,588.3	3,588.1	9.7	7.7	177.47	-13.1	-8.1	310.0	294.3	15.75	19.685	
3,700.0	3,683.6	3,687.9	3,687.6	10.0	7.9	177.46	-13.7	-6.8	319.4	303.2	16.21	19.707	
3,800.0	3,783.0	3,787.4	3,787.2	10.3	8.1	177.45	-14.2	-5.6	328.8	312.1	16.66	19.728	
3,900.0	3,882.5	3,887.0	3,886.7	10.6	8.4	177.44	-14.8	-4.4	338.1	321.0	17.12	19.748	
4,000.0	3,981.9	3,984.0	3,983.7	10.9	8.6	177.44	-15.3	-3.2	347.6	330.0	17.57	19.780	
4,100.0	4,081.3	4,081.6	4,081.3	11.2	8.8	177.51	-15.3	-3.2	358.1	340.1	18.01	19.889	
4,200.0	4,180.8	4,181.1	4,180.8	11.5	9.0	177.58	-15.3	-3.2	368.8	350.3	18.44	19.996	
4,300.0	4,280.2	4,280.5	4,280.2	11.8	9.2	177.65	-15.3	-3.2	379.4	360.5	18.88	20.096	
4,400.0	4,379.6	4,379.9	4,379.6	12.1	9.4	177.71	-15.3	-3.2	390.0	370.7	19.31	20.191	
4,500.0	4,479.1	4,479.4	4,479.1	12.4	9.6	177.77	-15.3	-3.2	400.6	380.8	19.75	20.281	
4,600.0	4,578.5	4,578.8	4,578.5	12.7	9.8	177.83	-15.3	-3.2	411.2	391.0	20.19	20.366	
4,700.0	4,678.0	4,678.2	4,678.0	13.0	10.0	177.88	-15.3	-3.2	421.8	401.2	20.63	20.446	
4,800.0	4,777.5	4,777.8	4,777.5	13.3	10.2	177.94	-15.3	-3.2	431.3	410.2	21.07	20.470	
4,900.0	4,877.3	4,877.6	4,877.3	13.5	10.4	177.97	-15.3	-3.2	437.3	415.8	21.46	20.379	
5,000.0	4,977.3	4,977.5	4,977.3	13.6	10.6	177.98	-15.3	-3.2	439.8	418.0	21.82	20.155	
5,100.0	5,077.3	5,077.5	5,077.3	13.8	10.8	-88.24	-15.3	-3.2	439.9	417.7	22.21	19.806	

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

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Gies Pad Sec.15-T7N-R65W - SRC Gies D-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,177.3	5,177.5	5,177.3	14.0	11.0	-88.24	-15.3	-3.2	439.9	417.3	22.61	19.452	
5,300.0	5,277.3	5,277.5	5,277.3	14.1	11.2	-88.24	-15.3	-3.2	439.9	416.9	23.02	19.110	
5,400.0	5,377.3	5,377.5	5,377.3	14.3	11.4	-88.24	-15.3	-3.2	439.9	416.5	23.43	18.778	
5,500.0	5,477.3	5,477.5	5,477.3	14.5	11.7	-88.24	-15.3	-3.2	439.9	416.1	23.84	18.456	
5,600.0	5,577.3	5,577.5	5,577.3	14.6	11.9	-88.24	-15.3	-3.2	439.9	415.7	24.25	18.144	
5,700.0	5,677.3	5,677.5	5,677.3	14.8	12.1	-88.24	-15.3	-3.2	439.9	415.3	24.66	17.841	
5,800.0	5,777.3	5,777.5	5,777.3	15.0	12.3	-88.24	-15.3	-3.2	439.9	414.8	25.07	17.547	
5,900.0	5,877.3	5,877.5	5,877.3	15.2	12.5	-88.24	-15.3	-3.2	439.9	414.4	25.48	17.262	
6,000.0	5,977.3	5,977.5	5,977.3	15.3	12.7	-88.24	-15.3	-3.2	439.9	414.0	25.90	16.986	
6,100.0	6,077.3	6,077.5	6,077.3	15.5	12.9	-88.24	-15.3	-3.2	439.9	413.6	26.32	16.717	
6,200.0	6,177.3	6,177.5	6,177.3	15.7	13.1	-88.24	-15.3	-3.2	439.9	413.2	26.73	16.456	
6,300.0	6,277.3	6,277.5	6,277.3	15.9	13.4	-88.24	-15.3	-3.2	439.9	412.8	27.15	16.203	
6,400.0	6,377.3	6,377.5	6,377.3	16.1	13.6	-88.24	-15.3	-3.2	439.9	412.3	27.57	15.956	
6,500.0	6,477.3	6,477.5	6,477.3	16.3	13.8	-88.24	-15.3	-3.2	439.9	411.9	27.99	15.717	
6,600.0	6,577.2	6,578.7	6,578.4	16.4	14.0	91.97	-17.4	-3.2	439.9	411.5	28.40	15.489	
6,700.0	6,676.1	6,680.8	6,679.3	16.6	14.2	91.93	-32.4	-3.1	439.9	411.1	28.80	15.272	
6,800.0	6,772.0	6,782.9	6,777.0	16.8	14.4	91.85	-61.6	-3.0	439.9	410.6	29.24	15.043	
6,900.0	6,863.1	6,884.8	6,869.5	17.1	14.7	91.74	-104.3	-2.9	439.9	410.1	29.76	14.779	
7,000.0	6,947.6	6,986.7	6,954.9	17.3	15.0	91.59	-159.6	-2.7	439.8	409.4	30.43	14.454	
7,100.0	7,023.8	7,088.3	7,031.4	17.7	15.5	91.41	-226.3	-2.4	439.8	408.5	31.31	14.045	
7,200.0	7,090.3	7,189.7	7,097.6	18.2	16.1	91.20	-303.0	-2.1	439.8	407.3	32.47	13.544	
7,300.0	7,145.8	7,290.8	7,152.2	18.8	16.8	90.97	-388.0	-1.8	439.8	405.8	33.94	12.956	
7,400.0	7,189.1	7,391.7	7,194.3	19.6	17.7	90.71	-479.6	-1.5	439.8	404.0	35.74	12.304	
7,500.0	7,219.6	7,492.3	7,222.9	20.5	18.8	90.45	-576.0	-1.1	439.8	401.9	37.84	11.622	
7,510.5	7,222.0	7,502.9	7,225.1	20.6	18.9	90.42	-586.3	-1.1	439.8	401.7	38.08	11.548	
7,600.0	7,236.4	7,592.6	7,237.8	21.6	20.0	90.18	-675.1	-0.8	439.8	399.6	40.19	10.941	
7,700.0	7,240.0	7,692.7	7,240.0	22.7	21.2	90.00	-775.1	-0.4	439.8	397.0	42.74	10.289	
7,800.0	7,240.0	7,792.7	7,240.0	24.0	22.6	90.00	-875.1	0.0	439.8	394.3	45.47	9.671	
7,900.0	7,240.0	7,892.7	7,240.0	25.4	24.1	90.00	-975.1	0.3	439.8	391.4	48.35	9.095	
8,000.0	7,240.0	7,992.7	7,240.0	26.8	25.6	90.00	-1,075.1	0.7	439.8	388.5	51.36	8.563	
8,100.0	7,240.0	8,092.7	7,240.0	28.3	27.1	90.00	-1,175.1	1.1	439.8	385.4	54.48	8.074	
8,200.0	7,240.0	8,192.7	7,240.0	29.9	28.7	90.00	-1,275.1	1.5	439.8	382.2	57.68	7.625	
8,300.0	7,240.0	8,292.7	7,240.0	31.4	30.4	90.00	-1,375.1	1.8	439.9	378.9	60.96	7.216	
8,400.0	7,240.0	8,392.7	7,240.0	33.1	32.1	90.00	-1,475.1	2.2	439.9	375.6	64.30	6.841	
8,500.0	7,240.0	8,492.7	7,240.0	34.7	33.8	90.00	-1,575.1	2.6	439.9	372.2	67.70	6.498	
8,600.0	7,240.0	8,592.7	7,240.0	36.4	35.5	90.00	-1,675.1	2.9	439.9	368.8	71.14	6.184	
8,700.0	7,240.0	8,692.7	7,240.0	38.1	37.2	90.00	-1,775.1	3.3	439.9	365.3	74.62	5.895	
8,800.0	7,240.0	8,792.7	7,240.0	39.8	39.0	90.00	-1,875.1	3.7	439.9	361.8	78.14	5.630	
8,900.0	7,240.0	8,892.7	7,240.0	41.6	40.8	90.00	-1,975.1	4.0	440.0	358.3	81.68	5.386	
9,000.0	7,240.0	8,992.7	7,240.0	43.3	42.6	90.00	-2,075.1	4.4	440.0	354.7	85.26	5.161	
9,100.0	7,240.0	9,092.7	7,240.0	45.1	44.4	90.00	-2,175.1	4.8	440.0	351.1	88.85	4.952	
9,200.0	7,240.0	9,192.7	7,240.0	46.9	46.2	90.00	-2,275.1	5.2	440.0	347.5	92.47	4.758	
9,300.0	7,240.0	9,292.7	7,240.0	48.7	48.0	90.00	-2,375.1	5.5	440.0	343.9	96.11	4.579	
9,400.0	7,240.0	9,392.7	7,240.0	50.5	49.8	90.00	-2,475.1	5.9	440.0	340.3	99.76	4.411	
9,500.0	7,240.0	9,492.7	7,240.0	52.3	51.7	90.00	-2,575.1	6.3	440.0	336.6	103.42	4.255	
9,600.0	7,240.0	9,592.7	7,240.0	54.1	53.5	90.00	-2,675.1	6.6	440.1	333.0	107.10	4.109	
9,700.0	7,240.0	9,692.7	7,240.0	55.9	55.4	90.00	-2,775.1	7.0	440.1	329.3	110.79	3.972	
9,800.0	7,240.0	9,792.7	7,240.0	57.8	57.2	90.00	-2,875.1	7.4	440.1	325.6	114.49	3.844	
9,900.0	7,240.0	9,892.7	7,240.0	59.6	59.1	90.00	-2,975.1	7.7	440.1	321.9	118.20	3.723	
10,000.0	7,240.0	9,992.7	7,240.0	61.4	60.9	90.00	-3,075.1	8.1	440.1	318.2	121.92	3.610	
10,100.0	7,240.0	10,092.7	7,240.0	63.3	62.8	90.00	-3,175.1	8.5	440.1	314.5	125.65	3.503	
10,200.0	7,240.0	10,192.7	7,240.0	65.1	64.7	90.00	-3,275.1	8.9	440.2	310.8	129.38	3.402	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Gies Pad Sec.15-T7N-R65W - SRC Gies D-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,300.0	7,240.0	10,292.7	7,240.0	67.0	66.5	90.00	-3,375.1	9.2	440.2	307.1	133.12	3.307	
10,400.0	7,240.0	10,392.7	7,240.0	68.9	68.4	90.00	-3,475.1	9.6	440.2	303.3	136.87	3.216	
10,500.0	7,240.0	10,492.7	7,240.0	70.7	70.3	90.00	-3,575.1	10.0	440.2	299.6	140.62	3.130	
10,600.0	7,240.0	10,592.7	7,240.0	72.6	72.2	90.00	-3,675.1	10.3	440.2	295.8	144.38	3.049	
10,700.0	7,240.0	10,692.7	7,240.0	74.5	74.0	90.00	-3,775.1	10.7	440.2	292.1	148.14	2.972	
10,800.0	7,240.0	10,792.7	7,240.0	76.3	75.9	90.00	-3,875.1	11.1	440.3	288.3	151.91	2.898	
10,900.0	7,240.0	10,892.7	7,240.0	78.2	77.8	90.00	-3,975.1	11.4	440.3	284.6	155.68	2.828	
11,000.0	7,240.0	10,992.7	7,240.0	80.1	79.7	90.00	-4,075.1	11.8	440.3	280.8	159.45	2.761	
11,100.0	7,240.0	11,092.7	7,240.0	82.0	81.6	90.00	-4,175.1	12.2	440.3	277.1	163.23	2.697	
11,200.0	7,240.0	11,192.7	7,240.0	83.9	83.5	90.00	-4,275.1	12.6	440.3	273.3	167.01	2.636	
11,300.0	7,240.0	11,292.7	7,240.0	85.7	85.4	90.00	-4,375.1	12.9	440.3	269.5	170.80	2.578	
11,400.0	7,240.0	11,392.7	7,240.0	87.6	87.3	90.00	-4,475.1	13.3	440.3	265.8	174.58	2.522	
11,422.6	7,240.0	11,415.3	7,240.0	88.1	87.7	90.00	-4,497.7	13.4	440.3	264.9	175.44	2.510	
11,444.9	7,240.0	11,434.1	7,240.0	88.5	88.1	90.00	-4,516.5	13.4	440.4	264.1	176.22	2.499	SF

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Gies Pad Sec.15-T7N-R65W - SRC Gies T-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14) — **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-88.32	2.9	-99.7	99.8				
100.0	100.0	100.0	100.0	0.1	0.1	-88.32	2.9	-99.7	99.8	99.6	0.22	443.946	
200.0	200.0	200.0	200.0	0.3	0.3	-88.32	2.9	-99.7	99.8	99.1	0.67	147.982	
300.0	300.0	300.0	300.0	0.6	0.6	-88.32	2.9	-99.7	99.8	98.7	1.12	88.789	
400.0	400.0	400.0	400.0	0.8	0.8	-88.32	2.9	-99.7	99.8	98.2	1.57	63.421	
500.0	500.0	500.0	500.0	1.0	1.0	-88.32	2.9	-99.7	99.8	97.8	2.02	49.327	
600.0	600.0	600.0	600.0	1.2	1.2	-88.32	2.9	-99.7	99.8	97.3	2.47	40.359	CC, ES
700.0	700.0	696.5	696.5	1.4	1.4	177.91	2.9	-101.4	103.2	100.3	2.89	35.701	
800.0	799.8	792.4	792.2	1.7	1.6	177.93	2.9	-106.2	113.5	110.2	3.30	34.357	SF
900.0	899.5	886.9	886.4	1.9	1.9	177.96	3.0	-114.1	130.5	126.7	3.73	35.015	
1,000.0	998.9	983.2	982.2	2.1	2.1	177.99	3.0	-124.6	151.8	147.7	4.15	36.560	
1,100.0	1,098.3	1,080.9	1,079.2	2.4	2.4	178.02	3.1	-135.3	173.3	168.7	4.58	37.878	
1,200.0	1,197.8	1,178.5	1,176.3	2.7	2.6	178.03	3.1	-146.1	194.8	189.8	5.01	38.916	
1,300.0	1,297.2	1,276.2	1,273.4	2.9	2.9	178.05	3.1	-156.8	216.3	210.9	5.44	39.749	
1,400.0	1,396.6	1,373.9	1,370.4	3.2	3.2	178.06	3.2	-167.6	237.8	231.9	5.88	40.428	
1,500.0	1,496.1	1,471.5	1,467.5	3.5	3.5	178.07	3.2	-178.3	259.3	253.0	6.33	40.991	
1,600.0	1,595.5	1,569.2	1,564.6	3.8	3.7	178.08	3.3	-189.1	280.8	274.0	6.77	41.451	
1,700.0	1,694.9	1,666.8	1,661.6	4.1	4.0	178.09	3.3	-199.9	302.3	295.1	7.22	41.855	
1,800.0	1,794.4	1,764.5	1,758.7	4.4	4.3	178.09	3.4	-210.6	323.8	316.1	7.67	42.197	
1,900.0	1,893.8	1,862.2	1,855.8	4.7	4.6	178.10	3.4	-221.4	345.3	337.2	8.13	42.492	
2,000.0	1,993.2	1,959.8	1,952.8	5.0	4.9	178.10	3.4	-232.1	366.8	358.2	8.58	42.749	
2,100.0	2,092.7	2,057.5	2,049.9	5.3	5.2	178.11	3.5	-242.9	388.3	379.3	9.04	42.975	
2,200.0	2,192.1	2,155.2	2,147.0	5.5	5.5	178.11	3.5	-253.7	409.8	400.3	9.49	43.175	
2,300.0	2,291.5	2,252.8	2,244.0	5.8	5.8	178.12	3.6	-264.4	431.3	421.4	9.95	43.352	
2,400.0	2,391.0	2,350.5	2,341.1	6.1	6.1	178.12	3.6	-275.2	452.8	442.4	10.41	43.511	
2,500.0	2,490.4	2,448.1	2,438.2	6.4	6.4	178.12	3.6	-285.9	474.3	463.5	10.87	43.654	
2,600.0	2,589.8	2,545.8	2,535.2	6.7	6.7	178.12	3.7	-296.7	495.8	484.5	11.32	43.783	
2,700.0	2,689.3	2,643.5	2,632.3	7.0	7.0	178.13	3.7	-307.4	517.3	505.5	11.78	43.900	
2,800.0	2,788.7	2,741.1	2,729.4	7.3	7.3	178.13	3.8	-318.2	538.8	526.6	12.24	44.007	
2,900.0	2,888.1	2,838.8	2,826.4	7.6	7.6	178.13	3.8	-329.0	560.3	547.6	12.70	44.104	
3,000.0	2,987.6	2,936.4	2,923.5	7.9	7.9	178.13	3.9	-339.7	581.8	568.7	13.17	44.193	
3,100.0	3,087.0	3,034.1	3,020.6	8.2	8.2	178.13	3.9	-350.5	603.3	589.7	13.63	44.275	
3,200.0	3,186.4	3,131.8	3,117.6	8.5	8.5	178.14	3.9	-361.2	624.8	610.7	14.09	44.351	
3,300.0	3,285.9	3,229.4	3,214.7	8.8	8.8	178.14	4.0	-372.0	646.3	631.8	14.55	44.421	
3,400.0	3,385.3	3,327.1	3,311.8	9.1	9.1	178.14	4.0	-382.7	667.8	652.8	15.01	44.486	
3,500.0	3,484.7	3,424.7	3,408.8	9.4	9.4	178.14	4.1	-393.5	689.3	673.9	15.47	44.547	
3,600.0	3,584.2	3,522.4	3,505.9	9.7	9.7	178.14	4.1	-404.3	710.8	694.9	15.94	44.603	
3,700.0	3,683.6	3,620.1	3,603.0	10.0	10.0	178.14	4.1	-415.0	732.3	715.9	16.40	44.655	
3,800.0	3,783.0	3,717.7	3,700.0	10.3	10.3	178.14	4.2	-425.8	753.8	737.0	16.86	44.704	
3,900.0	3,882.5	3,815.4	3,797.1	10.6	10.6	178.14	4.2	-436.5	775.3	758.0	17.33	44.750	
4,000.0	3,981.9	3,913.1	3,894.2	10.9	10.9	178.15	4.3	-447.3	796.8	779.0	17.79	44.794	
4,100.0	4,081.3	4,010.7	3,991.2	11.2	11.2	178.15	4.3	-458.1	818.3	800.1	18.25	44.834	
4,200.0	4,180.8	4,108.4	4,088.3	11.5	11.5	178.15	4.4	-468.8	839.8	821.1	18.72	44.872	
4,300.0	4,280.2	4,206.0	4,185.4	11.8	11.7	178.15	4.4	-479.6	861.3	842.2	19.18	44.908	
4,400.0	4,379.6	4,303.7	4,282.4	12.1	12.0	178.15	4.4	-490.3	882.8	863.2	19.64	44.942	
4,500.0	4,479.1	4,401.4	4,379.5	12.4	12.3	178.15	4.5	-501.1	904.3	884.2	20.11	44.974	
4,600.0	4,578.5	4,499.0	4,476.6	12.7	12.6	178.15	4.5	-511.8	925.8	905.3	20.57	45.005	
4,700.0	4,678.0	4,596.7	4,573.6	13.0	12.9	178.15	4.6	-522.6	947.3	926.3	21.04	45.033	
4,800.0	4,777.5	4,694.6	4,671.0	13.3	13.3	178.16	4.6	-533.4	967.7	946.2	21.53	44.954	
4,900.0	4,877.3	4,793.1	4,768.9	13.5	13.6	178.16	4.7	-544.2	984.7	962.7	21.97	44.809	
5,000.0	4,977.3	4,892.2	4,867.4	13.6	13.9	178.16	4.7	-555.2	998.2	975.8	22.40	44.565	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Gies Pad Sec.15-T7N-R65W - SRC Gies T-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14) — **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-88.42	2.2	-79.7	79.8				
100.0	100.0	100.0	100.0	0.1	0.1	-88.42	2.2	-79.7	79.8	79.5	0.22	354.892	
200.0	200.0	200.0	200.0	0.3	0.3	-88.42	2.2	-79.7	79.8	79.1	0.67	118.297	
300.0	300.0	300.0	300.0	0.6	0.6	-88.42	2.2	-79.7	79.8	78.6	1.12	70.978	
400.0	400.0	400.0	400.0	0.8	0.8	-88.42	2.2	-79.7	79.8	78.2	1.57	50.699	
500.0	500.0	500.0	500.0	1.0	1.0	-88.42	2.2	-79.7	79.8	77.7	2.02	39.432	
600.0	600.0	600.0	600.0	1.2	1.2	-88.42	2.2	-79.7	79.8	77.3	2.47	32.263	CC, ES
700.0	700.0	700.0	700.0	1.4	1.5	177.85	2.2	-79.7	81.5	78.6	2.91	28.021	
800.0	799.8	799.8	799.8	1.7	1.7	177.97	2.2	-79.7	86.7	83.4	3.34	25.996	
900.0	899.5	899.5	899.5	1.9	1.9	178.15	2.2	-79.7	95.5	91.7	3.77	25.331	
1,000.0	998.9	998.9	998.9	2.1	2.1	178.34	2.2	-79.7	106.1	101.9	4.20	25.235	
1,100.0	1,098.3	1,098.3	1,098.3	2.4	2.4	178.49	2.2	-79.7	116.7	112.0	4.64	25.131	
1,200.0	1,197.8	1,197.8	1,197.8	2.7	2.6	178.61	2.2	-79.7	127.3	122.2	5.09	25.027	
1,300.0	1,297.2	1,292.7	1,292.7	2.9	2.8	178.68	2.2	-81.2	139.5	134.0	5.51	25.304	
1,400.0	1,396.6	1,386.7	1,386.5	3.2	3.0	178.68	2.1	-85.8	154.9	149.0	5.93	26.115	
1,500.0	1,496.1	1,479.6	1,479.2	3.5	3.2	178.62	2.0	-93.4	173.6	167.2	6.36	27.315	
1,600.0	1,595.5	1,576.4	1,575.4	3.8	3.4	178.53	1.9	-103.3	194.4	187.6	6.79	28.640	
1,700.0	1,694.9	1,674.2	1,672.7	4.1	3.6	178.46	1.8	-113.4	215.2	208.0	7.22	29.818	
1,800.0	1,794.4	1,772.0	1,770.0	4.4	3.9	178.41	1.7	-123.5	236.0	228.3	7.65	30.847	
1,900.0	1,893.8	1,869.8	1,867.3	4.7	4.1	178.36	1.6	-133.6	256.8	248.7	8.09	31.753	
2,000.0	1,993.2	1,967.6	1,964.6	5.0	4.4	178.32	1.5	-143.7	277.6	269.1	8.53	32.555	
2,100.0	2,092.7	2,065.4	2,061.9	5.3	4.6	178.28	1.4	-153.8	298.5	289.5	8.97	33.268	
2,200.0	2,192.1	2,163.3	2,159.2	5.5	4.9	178.25	1.3	-163.9	319.3	309.9	9.42	33.908	
2,300.0	2,291.5	2,261.1	2,256.4	5.8	5.2	178.23	1.2	-174.0	340.1	330.2	9.86	34.484	
2,400.0	2,391.0	2,358.9	2,353.7	6.1	5.4	178.20	1.0	-184.1	360.9	350.6	10.31	35.004	
2,500.0	2,490.4	2,456.7	2,451.0	6.4	5.7	178.18	0.9	-194.2	381.7	371.0	10.76	35.476	
2,600.0	2,589.8	2,554.5	2,548.3	6.7	6.0	178.16	0.8	-204.3	402.5	391.3	11.21	35.906	
2,700.0	2,689.3	2,652.3	2,645.6	7.0	6.2	178.14	0.7	-214.4	423.4	411.7	11.66	36.300	
2,800.0	2,788.7	2,750.1	2,742.9	7.3	6.5	178.13	0.6	-224.5	444.2	432.1	12.12	36.661	
2,900.0	2,888.1	2,847.9	2,840.2	7.6	6.8	178.12	0.5	-234.6	465.0	452.4	12.57	36.994	
3,000.0	2,987.6	2,945.7	2,937.5	7.9	7.1	178.10	0.4	-244.7	485.8	472.8	13.02	37.301	
3,100.0	3,087.0	3,043.5	3,034.7	8.2	7.4	178.09	0.3	-254.8	506.6	493.2	13.48	37.585	
3,200.0	3,186.4	3,141.3	3,132.0	8.5	7.6	178.08	0.2	-264.9	527.5	513.5	13.94	37.849	
3,300.0	3,285.9	3,239.2	3,229.3	8.8	7.9	178.07	0.0	-275.0	548.3	533.9	14.39	38.095	
3,400.0	3,385.3	3,337.0	3,326.6	9.1	8.2	178.06	-0.1	-285.1	569.1	554.2	14.85	38.324	
3,500.0	3,484.7	3,434.8	3,423.9	9.4	8.5	178.05	-0.2	-295.2	589.9	574.6	15.31	38.538	
3,600.0	3,584.2	3,532.6	3,521.2	9.7	8.8	178.04	-0.3	-305.3	610.7	595.0	15.77	38.739	
3,700.0	3,683.6	3,630.4	3,618.5	10.0	9.1	178.04	-0.4	-315.4	631.5	615.3	16.22	38.927	
3,800.0	3,783.0	3,728.2	3,715.7	10.3	9.3	178.03	-0.5	-325.5	652.4	635.7	16.68	39.104	
3,900.0	3,882.5	3,826.0	3,813.0	10.6	9.6	178.02	-0.6	-335.6	673.2	656.0	17.14	39.271	
4,000.0	3,981.9	3,923.8	3,910.3	10.9	9.9	178.02	-0.7	-345.7	694.0	676.4	17.60	39.428	
4,100.0	4,081.3	4,021.6	4,007.6	11.2	10.2	178.01	-0.8	-355.8	714.8	696.8	18.06	39.577	
4,200.0	4,180.8	4,119.4	4,104.9	11.5	10.5	178.01	-1.0	-365.9	735.6	717.1	18.52	39.718	
4,300.0	4,280.2	4,217.2	4,202.2	11.8	10.8	178.00	-1.1	-376.0	756.5	737.5	18.98	39.851	
4,400.0	4,379.6	4,315.1	4,299.5	12.1	11.1	178.00	-1.2	-386.1	777.3	757.8	19.44	39.977	
4,500.0	4,479.1	4,412.9	4,396.7	12.4	11.4	177.99	-1.3	-396.2	798.1	778.2	19.90	40.097	
4,600.0	4,578.5	4,510.7	4,494.0	12.7	11.6	177.99	-1.4	-406.3	818.9	798.5	20.37	40.211	
4,700.0	4,678.0	4,608.5	4,591.3	13.0	11.9	177.98	-1.5	-416.4	839.7	818.9	20.83	40.320	
4,800.0	4,777.5	4,706.5	4,688.8	13.3	12.2	177.99	-1.6	-426.5	859.4	838.1	21.31	40.333	
4,900.0	4,877.3	4,841.7	4,823.5	13.5	12.5	177.98	-1.7	-438.0	873.9	852.2	21.79	40.108	
5,000.0	4,977.3	4,985.5	4,967.2	13.6	12.8	177.98	-1.8	-443.2	880.1	857.9	22.23	39.589	
5,100.0	5,077.3	5,095.6	5,077.3	13.8	13.0	-88.24	-1.8	-443.4	880.4	857.7	22.63	38.901	

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

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Gies Pad Sec.15-T7N-R65W - SRC Gies T-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,177.3	5,195.6	5,177.3	14.0	13.2	-88.24	-1.8	-443.4	880.4	857.3	23.03	38.229	
5,300.0	5,277.3	5,295.6	5,277.3	14.1	13.3	-88.24	-1.8	-443.4	880.4	856.9	23.43	37.576	
5,400.0	5,377.3	5,395.6	5,377.3	14.3	13.5	-88.24	-1.8	-443.4	880.4	856.5	23.83	36.943	
5,500.0	5,477.3	5,495.6	5,477.3	14.5	13.7	-88.24	-1.8	-443.4	880.4	856.1	24.23	36.328	
5,600.0	5,577.3	5,595.6	5,577.3	14.6	13.9	-88.24	-1.8	-443.4	880.4	855.7	24.64	35.731	
5,700.0	5,677.3	5,695.6	5,677.3	14.8	14.1	-88.24	-1.8	-443.4	880.4	855.3	25.04	35.152	
5,800.0	5,777.3	5,795.6	5,777.3	15.0	14.3	-88.24	-1.8	-443.4	880.4	854.9	25.45	34.588	
5,900.0	5,877.3	5,895.6	5,877.3	15.2	14.5	-88.24	-1.8	-443.4	880.4	854.5	25.86	34.041	
6,000.0	5,977.3	5,995.6	5,977.3	15.3	14.6	-88.24	-1.8	-443.4	880.4	854.1	26.27	33.509	
6,100.0	6,077.3	6,095.6	6,077.3	15.5	14.8	-88.24	-1.8	-443.4	880.4	853.7	26.68	32.992	
6,200.0	6,177.3	6,195.6	6,177.3	15.7	15.0	-88.24	-1.8	-443.4	880.4	853.3	27.10	32.489	
6,300.0	6,277.3	6,295.6	6,277.3	15.9	15.2	-88.24	-1.8	-443.4	880.4	852.8	27.51	32.000	
6,400.0	6,377.3	6,395.6	6,377.3	16.1	15.4	-88.24	-1.8	-443.4	880.4	852.4	27.93	31.524	
6,500.0	6,477.3	6,495.6	6,477.3	16.3	15.6	-88.24	-1.8	-443.4	880.4	852.0	28.34	31.061	
6,600.0	6,577.2	6,597.9	6,579.6	16.4	15.8	91.97	-4.0	-443.4	880.3	851.6	28.74	30.627	
6,700.0	6,676.1	6,702.3	6,682.7	16.6	16.0	91.93	-19.7	-443.4	880.3	851.2	29.14	30.213	
6,800.0	6,772.0	6,806.6	6,782.3	16.8	16.2	91.85	-50.1	-443.2	880.3	850.7	29.56	29.777	
6,900.0	6,863.1	6,910.5	6,876.2	17.1	16.4	91.73	-94.5	-443.1	880.2	850.2	30.07	29.274	
7,000.0	6,947.6	7,014.2	6,962.5	17.3	16.7	91.58	-151.9	-442.9	880.2	849.4	30.72	28.651	
7,100.0	7,023.8	7,117.5	7,039.2	17.7	17.0	91.39	-220.8	-442.6	880.1	848.5	31.59	27.862	
7,200.0	7,090.3	7,220.3	7,105.1	18.2	17.5	91.18	-299.6	-442.3	880.0	847.3	32.73	26.887	
7,300.0	7,145.8	7,322.5	7,158.7	18.8	18.1	90.95	-386.6	-441.9	879.9	845.7	34.19	25.738	
7,400.0	7,189.1	7,424.3	7,199.2	19.6	18.9	90.69	-479.8	-441.6	879.9	843.9	35.97	24.461	
7,500.0	7,219.6	7,525.4	7,226.0	20.5	19.9	90.43	-577.2	-441.2	879.8	841.8	38.06	23.119	
7,600.0	7,236.4	7,626.0	7,238.8	21.6	21.0	90.16	-676.9	-440.8	879.8	839.4	40.40	21.778	
7,700.0	7,240.0	7,726.0	7,240.0	22.7	22.2	90.00	-776.9	-440.4	879.8	836.9	42.94	20.487	
7,800.0	7,240.0	7,826.0	7,240.0	24.0	23.6	90.00	-876.9	-440.0	879.8	834.1	45.66	19.268	
7,900.0	7,240.0	7,926.0	7,240.0	25.4	25.0	90.00	-976.9	-439.6	879.8	831.3	48.53	18.128	
8,000.0	7,240.0	8,026.0	7,240.0	26.8	26.4	90.00	-1,076.9	-439.3	879.8	828.3	51.53	17.073	
8,100.0	7,240.0	8,126.0	7,240.0	28.3	27.9	90.00	-1,176.9	-438.9	879.8	825.2	54.64	16.102	
8,200.0	7,240.0	8,226.0	7,240.0	29.9	29.5	90.00	-1,276.9	-438.5	879.8	822.0	57.83	15.213	
8,300.0	7,240.0	8,326.0	7,240.0	31.4	31.1	90.00	-1,376.9	-438.1	879.8	818.7	61.10	14.398	
8,400.0	7,240.0	8,426.0	7,240.0	33.1	32.8	90.00	-1,476.9	-437.7	879.8	815.3	64.44	13.653	
8,500.0	7,240.0	8,526.0	7,240.0	34.7	34.4	90.00	-1,576.9	-437.3	879.8	811.9	67.83	12.970	
8,600.0	7,240.0	8,626.0	7,240.0	36.4	36.1	90.00	-1,676.9	-436.9	879.8	808.5	71.27	12.345	
8,700.0	7,240.0	8,726.0	7,240.0	38.1	37.8	90.00	-1,776.9	-436.5	879.8	805.0	74.74	11.771	
8,800.0	7,240.0	8,826.0	7,240.0	39.8	39.6	90.00	-1,876.9	-436.1	879.8	801.5	78.25	11.242	
8,900.0	7,240.0	8,926.0	7,240.0	41.6	41.3	90.00	-1,976.9	-435.8	879.8	798.0	81.80	10.755	
9,000.0	7,240.0	9,026.0	7,240.0	43.3	43.1	90.00	-2,076.9	-435.4	879.8	794.4	85.37	10.306	
9,100.0	7,240.0	9,126.0	7,240.0	45.1	44.9	90.00	-2,176.9	-435.0	879.8	790.8	88.96	9.889	
9,200.0	7,240.0	9,226.0	7,240.0	46.9	46.7	90.00	-2,276.9	-434.6	879.8	787.2	92.57	9.503	
9,300.0	7,240.0	9,326.0	7,240.0	48.7	48.5	90.00	-2,376.9	-434.2	879.8	783.5	96.20	9.145	
9,400.0	7,240.0	9,426.0	7,240.0	50.5	50.3	90.00	-2,476.9	-433.8	879.8	779.9	99.85	8.811	
9,500.0	7,240.0	9,526.0	7,240.0	52.3	52.1	90.00	-2,576.9	-433.4	879.7	776.2	103.51	8.499	
9,600.0	7,240.0	9,626.0	7,240.0	54.1	53.9	90.00	-2,676.9	-433.0	879.7	772.6	107.19	8.207	
9,700.0	7,240.0	9,726.0	7,240.0	55.9	55.8	90.00	-2,776.9	-432.7	879.7	768.9	110.88	7.934	
9,800.0	7,240.0	9,826.0	7,240.0	57.8	57.6	90.00	-2,876.9	-432.3	879.7	765.2	114.58	7.678	
9,900.0	7,240.0	9,926.0	7,240.0	59.6	59.5	90.00	-2,976.9	-431.9	879.7	761.4	118.29	7.437	
10,000.0	7,240.0	10,026.0	7,240.0	61.4	61.3	90.00	-3,076.9	-431.5	879.7	757.7	122.00	7.211	
10,100.0	7,240.0	10,126.0	7,240.0	63.3	63.2	90.00	-3,176.9	-431.1	879.7	754.0	125.73	6.997	
10,200.0	7,240.0	10,226.0	7,240.0	65.1	65.0	90.00	-3,276.9	-430.7	879.7	750.3	129.46	6.795	
10,300.0	7,240.0	10,326.0	7,240.0	67.0	66.9	90.00	-3,376.9	-430.3	879.7	746.5	133.20	6.605	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Gies Pad Sec.15-T7N-R65W - SRC Gies T-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14)

Offset Site Error: 0.0 ft

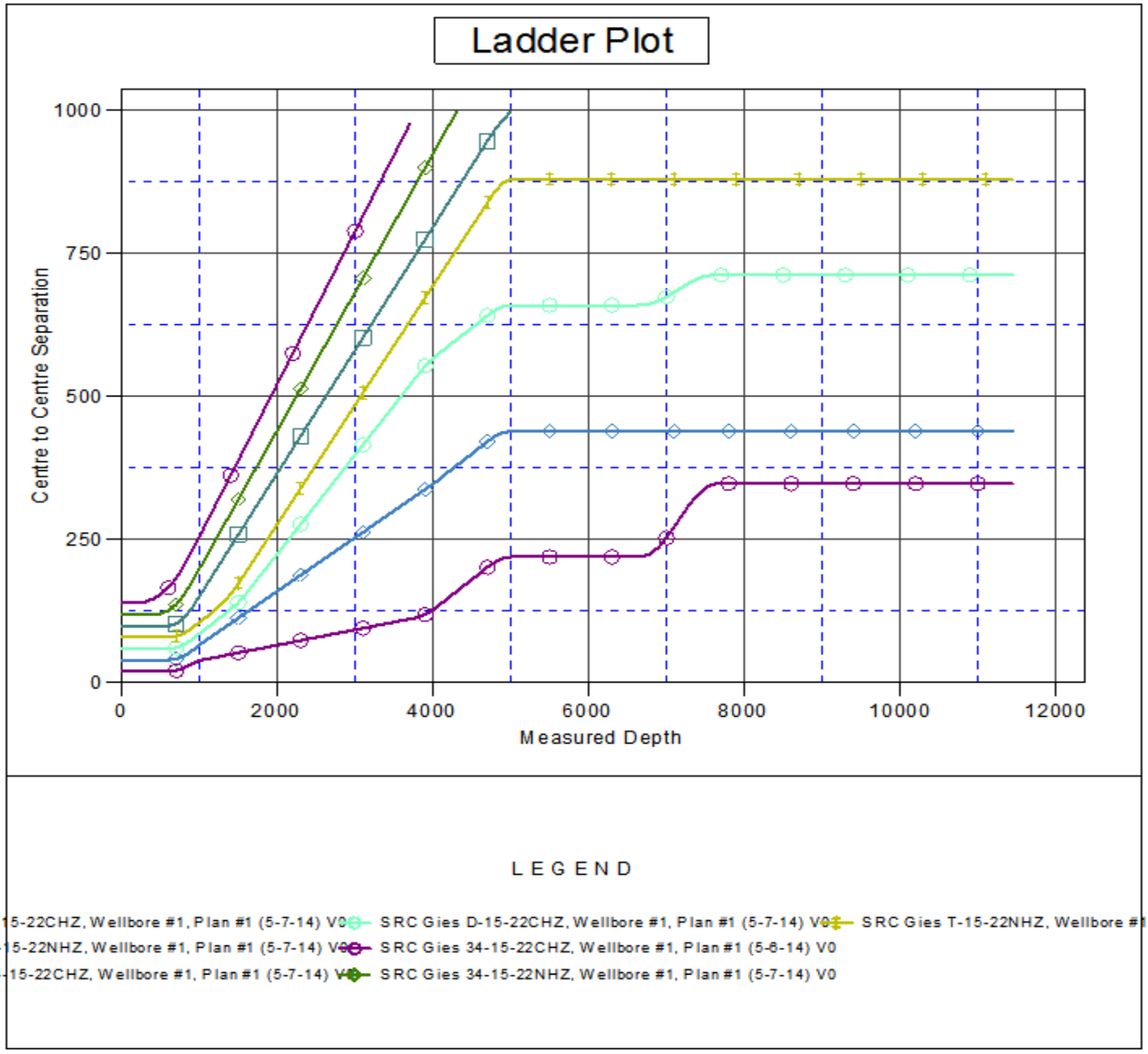
Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,400.0	7,240.0	10,426.0	7,240.0	68.9	68.7	90.00	-3,476.9	-429.9	879.7	742.8	136.94	6.424	
10,500.0	7,240.0	10,526.0	7,240.0	70.7	70.6	90.00	-3,576.9	-429.5	879.7	739.0	140.69	6.253	
10,600.0	7,240.0	10,626.0	7,240.0	72.6	72.5	90.00	-3,676.9	-429.2	879.7	735.3	144.45	6.090	
10,700.0	7,240.0	10,726.0	7,240.0	74.5	74.4	90.00	-3,776.9	-428.8	879.7	731.5	148.21	5.936	
10,800.0	7,240.0	10,826.0	7,240.0	76.3	76.2	90.00	-3,876.9	-428.4	879.7	727.7	151.98	5.788	
10,900.0	7,240.0	10,926.0	7,240.0	78.2	78.1	90.00	-3,976.9	-428.0	879.7	724.0	155.75	5.648	
11,000.0	7,240.0	11,026.0	7,240.0	80.1	80.0	90.00	-4,076.9	-427.6	879.7	720.2	159.52	5.515	
11,100.0	7,240.0	11,126.0	7,240.0	82.0	81.9	90.00	-4,176.9	-427.2	879.7	716.4	163.30	5.387	
11,200.0	7,240.0	11,226.0	7,240.0	83.9	83.8	90.00	-4,276.9	-426.8	879.7	712.6	167.08	5.265	
11,300.0	7,240.0	11,326.0	7,240.0	85.7	85.7	90.00	-4,376.9	-426.4	879.7	708.8	170.86	5.149	
11,400.0	7,240.0	11,426.0	7,240.0	87.6	87.5	90.00	-4,476.9	-426.0	879.7	705.0	174.65	5.037	
11,432.2	7,240.0	11,458.2	7,240.0	88.2	88.2	90.00	-4,509.1	-425.9	879.7	703.8	175.87	5.002	
11,444.9	7,240.0	11,463.8	7,240.0	88.5	88.3	90.00	-4,514.7	-425.9	879.7	703.5	176.21	4.992	SF

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 4851.0ft (RKB - 13')	Coordinates are relative to: SRC Gies 44-15-22NHZ
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 °	Grid Convergence at Surface is: 0.55°



Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Gies 44-15-22NHZ
Project:	SEC.15-T7N-R65W	**TVD Reference:**	WELL @ 4851.0ft (RKB - 13')
Reference Site:	SRC Gies Pad Sec.15-T7N-R65W	**MD Reference:**	WELL @ 4851.0ft (RKB - 13')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Gies 44-15-22NHZ	**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 #1 (5-7-14)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 4851.0ft (RKB - 13')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: SRC Gies 44-15-22NHZ
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.55°