Synergy Resources

Well Name: **SRC Phelps A-32NHZ**

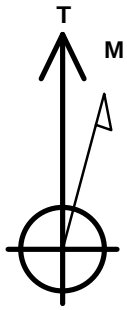
Surface Location: SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 5019.0

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	1247322.38	3198263.72	40.010114	-104.792191	

Original Well Elev WELL @ 5031.0ft (Original Well Elev)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 1761'FNL, 200'FEL	1.0	0.0	0.0	Point
BHL 1528'FNL, 460'FWL	7451.0	231.4	-4635.1	Point



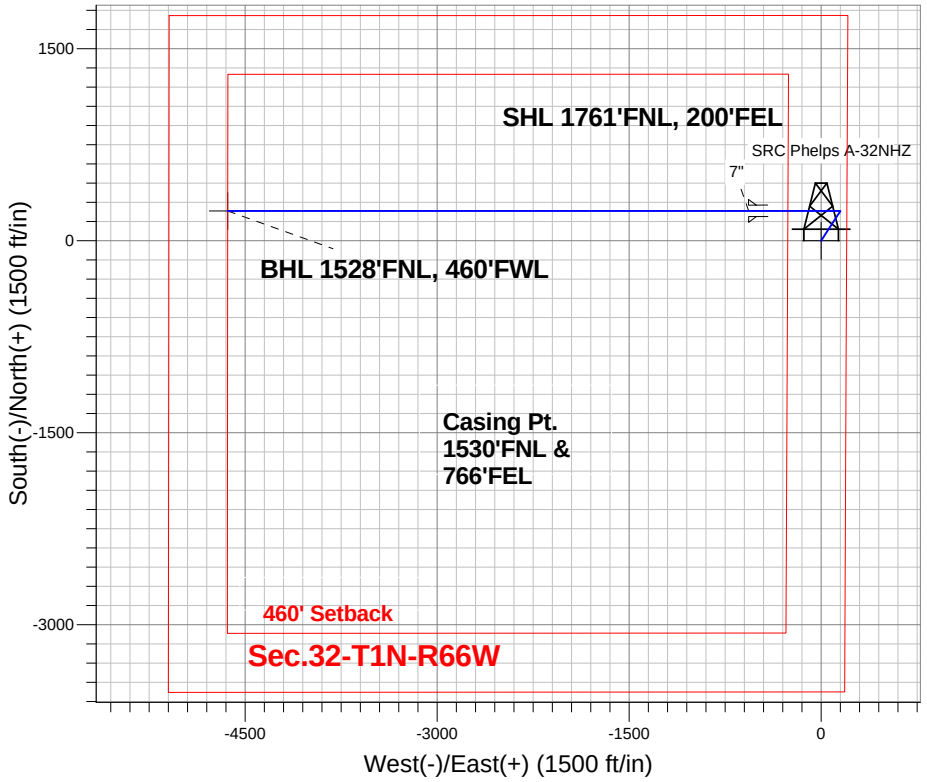
Azimuths to True North
Magnetic North: 8.53°

Magnetic Field
Strength: 52672.9snT
Dip Angle: 66.65°
Date: 10/25/2013
Model: IGRF2010

SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W
SRC Phelps A-32NHZ
Plan #1 (10-28-13)
13:46, October 28 2013

ANNOTATIONS

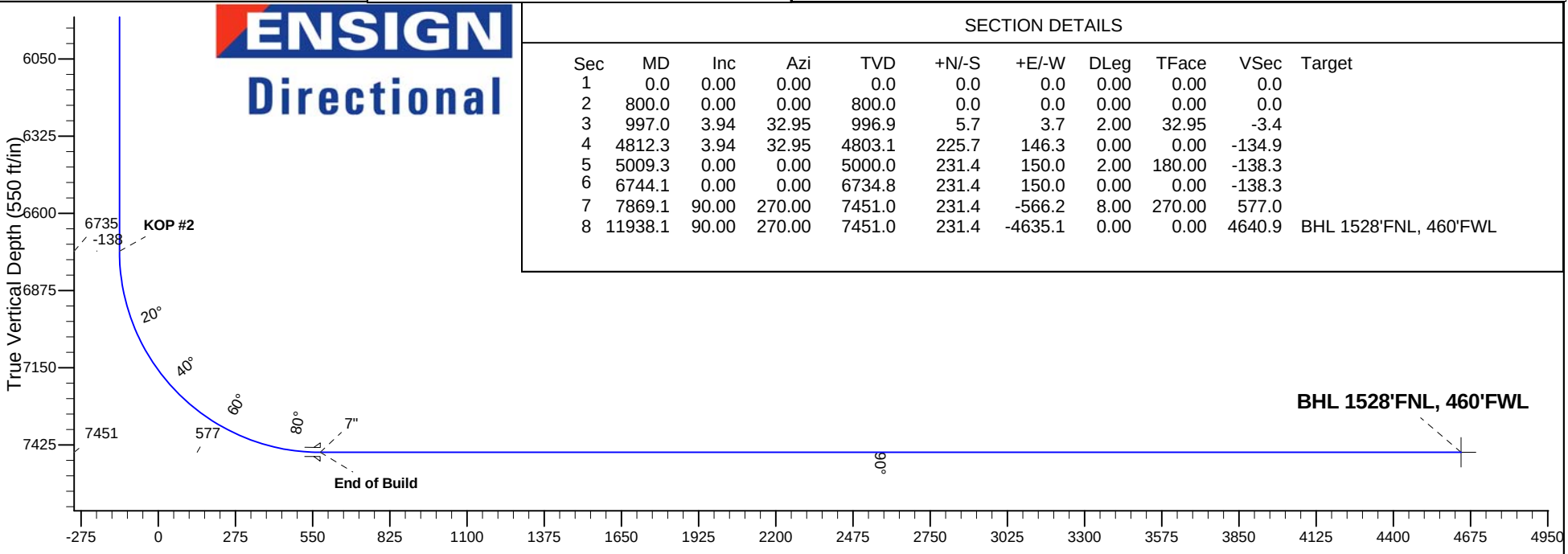
TVD	MD	Annotation
800.0	800.0	KOP #1
6734.8	6744.1	KOP #2
7451.0	7869.1	End of Build



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	800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.0	
3	997.0	3.94	32.95	996.9	5.7	3.7	2.00	32.95	-3.4	
4	4812.3	3.94	32.95	4803.1	225.7	146.3	0.00	0.00	-134.9	
5	5009.3	0.00	0.00	5000.0	231.4	150.0	2.00	180.00	-138.3	
6	6744.1	0.00	0.00	6734.8	231.4	150.0	0.00	0.00	-138.3	
7	7869.1	90.00	270.00	7451.0	231.4	-566.2	8.00	270.00	577.0	
8	11938.1	90.00	270.00	7451.0	231.4	-4635.1	0.00	0.00	4640.9	BHL 1528'FNL, 460'FWL



Synergy Resources

SEC.32-T1N-R66W
SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W
SRC Phelps A-32NHZ

Wellbore #1

Plan: Plan #1 (10-28-13)

Standard Planning Report

28 October, 2013

Database:	Landmark	**Local Co-ordinate Reference:**	Well SRC Phelps A-32NHZ
Company:	Synergy Resources	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Project:	SEC.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**North Reference:**	True
Well:	SRC Phelps A-32NHZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (10-28-13)		

Project SEC.32-T1N-R66W, Weld County, Colorado

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

Site SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W

Site Position:		**Northing:**	1,247,322.38 ft	**Latitude:**	40.010114
From:	Lat/Long	**Easting:**	3,198,263.72 ft	**Longitude:**	-104.792191
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.46 °

Well SRC Phelps A-32NHZ

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,247,322.38 ft	**Latitude:**	40.010114
	+E/-W	0.0 ft	**Easting:**	3,198,263.72 ft	**Longitude:**	-104.792191
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,019.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/25/2013	8.53	66.65	52,673

Design Plan #1 (10-28-13)

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	272.86

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	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
997.0	3.94	32.95	996.9	5.7	3.7	2.00	2.00	0.00	32.95	
4,812.3	3.94	32.95	4,803.1	225.7	146.3	0.00	0.00	0.00	0.00	
5,009.3	0.00	0.00	5,000.0	231.4	150.0	2.00	-2.00	0.00	180.00	
6,744.1	0.00	0.00	6,734.8	231.4	150.0	0.00	0.00	0.00	0.00	
7,869.1	90.00	270.00	7,451.0	231.4	-566.2	8.00	8.00	0.00	270.00	
11,938.1	90.00	270.00	7,451.0	231.4	-4,635.1	0.00	0.00	0.00	0.00	BHL 1528'FNL, 460

Database:	Landmark	**Local Co-ordinate Reference:**	Well SRC Phelps A-32NHZ
Company:	Synergy Resources	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Project:	SEC.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**North Reference:**	True
Well:	SRC Phelps A-32NHZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (10-28-13)		

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 1761'FNL, 200'FEL									
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
KOP #1									
900.0	2.00	32.95	900.0	1.5	0.9	-0.9	2.00	2.00	0.00
997.0	3.94	32.95	996.9	5.7	3.7	-3.4	2.00	2.00	0.00
1,000.0	3.94	32.95	999.8	5.9	3.8	-3.5	0.00	0.00	0.00
1,100.0	3.94	32.95	1,099.6	11.6	7.5	-6.9	0.00	0.00	0.00
1,200.0	3.94	32.95	1,199.4	17.4	11.3	-10.4	0.00	0.00	0.00
1,300.0	3.94	32.95	1,299.1	23.2	15.0	-13.8	0.00	0.00	0.00
1,400.0	3.94	32.95	1,398.9	28.9	18.7	-17.3	0.00	0.00	0.00
1,500.0	3.94	32.95	1,498.7	34.7	22.5	-20.7	0.00	0.00	0.00
1,600.0	3.94	32.95	1,598.4	40.5	26.2	-24.2	0.00	0.00	0.00
1,700.0	3.94	32.95	1,698.2	46.2	30.0	-27.6	0.00	0.00	0.00
1,800.0	3.94	32.95	1,797.9	52.0	33.7	-31.1	0.00	0.00	0.00
1,900.0	3.94	32.95	1,897.7	57.8	37.4	-34.5	0.00	0.00	0.00
2,000.0	3.94	32.95	1,997.5	63.5	41.2	-38.0	0.00	0.00	0.00
2,100.0	3.94	32.95	2,097.2	69.3	44.9	-41.4	0.00	0.00	0.00
2,200.0	3.94	32.95	2,197.0	75.1	48.7	-44.9	0.00	0.00	0.00
2,300.0	3.94	32.95	2,296.8	80.8	52.4	-48.3	0.00	0.00	0.00
2,400.0	3.94	32.95	2,396.5	86.6	56.1	-51.7	0.00	0.00	0.00
2,500.0	3.94	32.95	2,496.3	92.4	59.9	-55.2	0.00	0.00	0.00
2,600.0	3.94	32.95	2,596.1	98.1	63.6	-58.6	0.00	0.00	0.00
2,700.0	3.94	32.95	2,695.8	103.9	67.3	-62.1	0.00	0.00	0.00
2,800.0	3.94	32.95	2,795.6	109.7	71.1	-65.5	0.00	0.00	0.00
2,900.0	3.94	32.95	2,895.3	115.4	74.8	-69.0	0.00	0.00	0.00
3,000.0	3.94	32.95	2,995.1	121.2	78.6	-72.4	0.00	0.00	0.00
3,100.0	3.94	32.95	3,094.9	127.0	82.3	-75.9	0.00	0.00	0.00
3,200.0	3.94	32.95	3,194.6	132.7	86.0	-79.3	0.00	0.00	0.00
3,300.0	3.94	32.95	3,294.4	138.5	89.8	-82.8	0.00	0.00	0.00
3,400.0	3.94	32.95	3,394.2	144.3	93.5	-86.2	0.00	0.00	0.00
3,500.0	3.94	32.95	3,493.9	150.0	97.3	-89.7	0.00	0.00	0.00
3,600.0	3.94	32.95	3,593.7	155.8	101.0	-93.1	0.00	0.00	0.00
3,700.0	3.94	32.95	3,693.5	161.6	104.7	-96.5	0.00	0.00	0.00
3,800.0	3.94	32.95	3,793.2	167.3	108.5	-100.0	0.00	0.00	0.00
3,900.0	3.94	32.95	3,893.0	173.1	112.2	-103.4	0.00	0.00	0.00
4,000.0	3.94	32.95	3,992.7	178.9	115.9	-106.9	0.00	0.00	0.00
4,100.0	3.94	32.95	4,092.5	184.6	119.7	-110.3	0.00	0.00	0.00
4,200.0	3.94	32.95	4,192.3	190.4	123.4	-113.8	0.00	0.00	0.00
4,300.0	3.94	32.95	4,292.0	196.2	127.2	-117.2	0.00	0.00	0.00
4,400.0	3.94	32.95	4,391.8	201.9	130.9	-120.7	0.00	0.00	0.00
4,500.0	3.94	32.95	4,491.6	207.7	134.6	-124.1	0.00	0.00	0.00
4,600.0	3.94	32.95	4,591.3	213.5	138.4	-127.6	0.00	0.00	0.00
4,700.0	3.94	32.95	4,691.1	219.2	142.1	-131.0	0.00	0.00	0.00
4,800.0	3.94	32.95	4,790.9	225.0	145.9	-134.5	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well SRC Phelps A-32NHZ
Company:	Synergy Resources	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Project:	SEC.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**North Reference:**	True
Well:	SRC Phelps A-32NHZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (10-28-13)		

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)
4,812.3	3.94	32.95	4,803.1	225.7	146.3	-134.9	0.00	0.00	0.00
4,900.0	2.19	32.95	4,890.7	229.6	148.9	-137.2	2.00	-2.00	0.00
5,000.0	0.19	32.95	4,990.7	231.4	150.0	-138.3	2.00	-2.00	0.00
5,009.3	0.00	0.00	5,000.0	231.4	150.0	-138.3	2.00	-2.00	0.00
5,100.0	0.00	0.00	5,090.7	231.4	150.0	-138.3	0.00	0.00	0.00
5,200.0	0.00	0.00	5,190.7	231.4	150.0	-138.3	0.00	0.00	0.00
5,300.0	0.00	0.00	5,290.7	231.4	150.0	-138.3	0.00	0.00	0.00
5,400.0	0.00	0.00	5,390.7	231.4	150.0	-138.3	0.00	0.00	0.00
5,500.0	0.00	0.00	5,490.7	231.4	150.0	-138.3	0.00	0.00	0.00
5,600.0	0.00	0.00	5,590.7	231.4	150.0	-138.3	0.00	0.00	0.00
5,700.0	0.00	0.00	5,690.7	231.4	150.0	-138.3	0.00	0.00	0.00
5,800.0	0.00	0.00	5,790.7	231.4	150.0	-138.3	0.00	0.00	0.00
5,900.0	0.00	0.00	5,890.7	231.4	150.0	-138.3	0.00	0.00	0.00
6,000.0	0.00	0.00	5,990.7	231.4	150.0	-138.3	0.00	0.00	0.00
6,100.0	0.00	0.00	6,090.7	231.4	150.0	-138.3	0.00	0.00	0.00
6,200.0	0.00	0.00	6,190.7	231.4	150.0	-138.3	0.00	0.00	0.00
6,300.0	0.00	0.00	6,290.7	231.4	150.0	-138.3	0.00	0.00	0.00
6,400.0	0.00	0.00	6,390.7	231.4	150.0	-138.3	0.00	0.00	0.00
6,500.0	0.00	0.00	6,490.7	231.4	150.0	-138.3	0.00	0.00	0.00
6,600.0	0.00	0.00	6,590.7	231.4	150.0	-138.3	0.00	0.00	0.00
6,700.0	0.00	0.00	6,690.7	231.4	150.0	-138.3	0.00	0.00	0.00
6,744.1	0.00	0.00	6,734.8	231.4	150.0	-138.3	0.00	0.00	0.00
KOP #2									
6,800.0	4.47	270.00	6,790.6	231.4	147.8	-136.1	8.00	8.00	0.00
6,900.0	12.47	270.00	6,889.4	231.4	133.1	-121.4	8.00	8.00	0.00
7,000.0	20.47	270.00	6,985.3	231.4	104.8	-93.1	8.00	8.00	0.00
7,100.0	28.47	270.00	7,076.2	231.4	63.4	-51.8	8.00	8.00	0.00
7,200.0	36.47	270.00	7,160.5	231.4	9.8	1.8	8.00	8.00	0.00
7,300.0	44.47	270.00	7,236.5	231.4	-55.1	66.6	8.00	8.00	0.00
7,400.0	52.47	270.00	7,302.8	231.4	-129.9	141.3	8.00	8.00	0.00
7,500.0	60.47	270.00	7,358.0	231.4	-213.2	224.5	8.00	8.00	0.00
7,600.0	68.47	270.00	7,401.0	231.4	-303.4	314.5	8.00	8.00	0.00
7,700.0	76.47	270.00	7,431.1	231.4	-398.6	409.7	8.00	8.00	0.00
7,800.0	84.47	270.00	7,447.7	231.4	-497.2	508.1	8.00	8.00	0.00
7,869.1	90.00	270.00	7,451.0	231.4	-566.2	577.0	8.00	8.00	0.00
End of Build - 7"									
7,900.0	90.00	270.00	7,451.0	231.4	-597.1	607.9	0.01	0.01	0.00
8,000.0	90.00	270.00	7,451.0	231.4	-697.1	707.7	0.00	0.00	0.00
8,100.0	90.00	270.00	7,451.0	231.4	-797.1	807.6	0.00	0.00	0.00
8,200.0	90.00	270.00	7,451.0	231.4	-897.1	907.5	0.00	0.00	0.00
8,300.0	90.00	270.00	7,451.0	231.4	-997.1	1,007.4	0.00	0.00	0.00
8,400.0	90.00	270.00	7,451.0	231.4	-1,097.1	1,107.2	0.00	0.00	0.00
8,500.0	90.00	270.00	7,451.0	231.4	-1,197.1	1,207.1	0.00	0.00	0.00
8,600.0	90.00	270.00	7,451.0	231.4	-1,297.1	1,307.0	0.00	0.00	0.00
8,700.0	90.00	270.00	7,451.0	231.4	-1,397.1	1,406.9	0.00	0.00	0.00
8,800.0	90.00	270.00	7,451.0	231.4	-1,497.1	1,506.7	0.00	0.00	0.00
8,900.0	90.00	270.00	7,451.0	231.4	-1,597.1	1,606.6	0.00	0.00	0.00
9,000.0	90.00	270.00	7,451.0	231.4	-1,697.1	1,706.5	0.00	0.00	0.00
9,100.0	90.00	270.00	7,451.0	231.4	-1,797.1	1,806.4	0.00	0.00	0.00
9,200.0	90.00	270.00	7,451.0	231.4	-1,897.1	1,906.2	0.00	0.00	0.00
9,300.0	90.00	270.00	7,451.0	231.4	-1,997.1	2,006.1	0.00	0.00	0.00
9,400.0	90.00	270.00	7,451.0	231.4	-2,097.1	2,106.0	0.00	0.00	0.00
9,500.0	90.00	270.00	7,451.0	231.4	-2,197.1	2,205.9	0.00	0.00	0.00

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Company:	Synergy Resources	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Project:	SEC.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**North Reference:**	True
Well:	SRC Phelps A-32NHZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (10-28-13)		

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)
9,600.0	90.00	270.00	7,451.0	231.4	-2,297.1	2,305.7	0.00	0.00	0.00
9,700.0	90.00	270.00	7,451.0	231.4	-2,397.1	2,405.6	0.00	0.00	0.00
9,800.0	90.00	270.00	7,451.0	231.4	-2,497.1	2,505.5	0.00	0.00	0.00
9,900.0	90.00	270.00	7,451.0	231.4	-2,597.1	2,605.4	0.00	0.00	0.00
10,000.0	90.00	270.00	7,451.0	231.4	-2,697.1	2,705.2	0.00	0.00	0.00
10,100.0	90.00	270.00	7,451.0	231.4	-2,797.1	2,805.1	0.00	0.00	0.00
10,200.0	90.00	270.00	7,451.0	231.4	-2,897.1	2,905.0	0.00	0.00	0.00
10,300.0	90.00	270.00	7,451.0	231.4	-2,997.1	3,004.9	0.00	0.00	0.00
10,400.0	90.00	270.00	7,451.0	231.4	-3,097.1	3,104.7	0.00	0.00	0.00
10,500.0	90.00	270.00	7,451.0	231.4	-3,197.1	3,204.6	0.00	0.00	0.00
10,600.0	90.00	270.00	7,451.0	231.4	-3,297.1	3,304.5	0.00	0.00	0.00
10,700.0	90.00	270.00	7,451.0	231.4	-3,397.1	3,404.4	0.00	0.00	0.00
10,800.0	90.00	270.00	7,451.0	231.4	-3,497.1	3,504.3	0.00	0.00	0.00
10,900.0	90.00	270.00	7,451.0	231.4	-3,597.1	3,604.1	0.00	0.00	0.00
11,000.0	90.00	270.00	7,451.0	231.4	-3,697.1	3,704.0	0.00	0.00	0.00
11,100.0	90.00	270.00	7,451.0	231.4	-3,797.1	3,803.9	0.00	0.00	0.00
11,200.0	90.00	270.00	7,451.0	231.4	-3,897.1	3,903.8	0.00	0.00	0.00
11,300.0	90.00	270.00	7,451.0	231.4	-3,997.1	4,003.6	0.00	0.00	0.00
11,400.0	90.00	270.00	7,451.0	231.4	-4,097.1	4,103.5	0.00	0.00	0.00
11,500.0	90.00	270.00	7,451.0	231.4	-4,197.1	4,203.4	0.00	0.00	0.00
11,600.0	90.00	270.00	7,451.0	231.4	-4,297.1	4,303.3	0.00	0.00	0.00
11,700.0	90.00	270.00	7,451.0	231.4	-4,397.1	4,403.1	0.00	0.00	0.00
11,800.0	90.00	270.00	7,451.0	231.4	-4,497.1	4,503.0	0.00	0.00	0.00
11,900.0	90.00	270.00	7,451.0	231.4	-4,597.1	4,602.9	0.00	0.00	0.00
11,938.1	90.00	270.00	7,451.0	231.4	-4,635.1	4,640.9	0.00	0.00	0.00
BHL 1528'FNL, 460'FWL									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,869.1	7,451.0	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
800.0	800.0	0.0	0.0	KOP #1
6,744.1	6,734.8	231.4	150.0	KOP #2
7,869.1	7,451.0	231.4	-566.2	End of Build

ENSIGN Directional

Synergy Resources

SEC.32-T1N-R66W
SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W
SRC Phelps A-32NHZ

Wellbore #1
Plan #1 (10-28-13)

Anticollision Report

28 October, 2013

ENSIGN Directional

Anticollision Report

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Phelps A-32NHZ
Project:	SEC.32-T1N-R66W	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Phelps A-32NHZ	**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 (10-28-13)	**Offset TVD Reference:**	Offset Datum

Reference Plan #1 (10-28-13)

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** 10/28/2013

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,937.6	Plan #1 (10-28-13) (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 Phelps 11-32CHZ Pad Sec.32-T1N-R66W						
SRC Phelps 11-32CHZ - Wellbore #1 - Plan #1 (10-28-13	601.4	601.8	69.7	67.1	27.251	CC, ES
SRC Phelps 11-32CHZ - Wellbore #1 - Plan #1 (10-28-13	800.0	796.2	77.7	74.0	21.095	SF
SRC Phelps 11-32NHZ - Wellbore #1 - Plan #1 (10-28-13	750.0	750.9	48.2	45.0	15.145	CC, ES
SRC Phelps 11-32NHZ - Wellbore #1 - Plan #1 (10-28-13	11,938.6	12,013.0	738.4	477.0	2.824	SF
SRC Phelps 12-32CHZ - Wellbore #1 - Plan #1 (10-28-13	800.0	799.0	97.8	94.4	29.013	CC, ES
SRC Phelps 12-32CHZ - Wellbore #1 - Plan #1 (10-28-13	11,938.6	12,129.2	381.8	153.1	1.669	SF
SRC Phelps 12-32NHZ - Wellbore #1 - Plan #1 (10-28-13	800.0	799.0	120.1	116.7	35.649	CC, ES
SRC Phelps 12-32NHZ - Wellbore #1 - Plan #1 (10-28-13	11,938.6	11,962.0	659.7	399.0	2.530	SF
SRC Phelps A-32CHZ - Wellbore #1 - Plan #1 (10-28-13	831.9	832.3	20.0	16.4	5.677	CC, ES
SRC Phelps A-32CHZ - Wellbore #1 - Plan #1 (10-28-13	11,938.6	12,158.6	450.8	212.9	1.895	SF

Offset Design SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 11-32CHZ - Wellbore #1 - Plan #1 (10-28

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	-102.32	-16.0	-73.4	75.1				
100.0	100.0	99.0	99.0	0.1	0.1	-102.32	-16.0	-73.4	75.1	74.9	0.22	335.904	
200.0	200.0	199.0	199.0	0.3	0.3	-102.32	-16.0	-73.4	75.1	74.5	0.67	111.782	
300.0	300.0	299.9	299.9	0.6	0.6	-101.08	-14.3	-73.1	74.5	73.4	1.13	66.204	
400.0	400.0	400.6	400.5	0.8	0.8	-97.19	-9.1	-72.2	72.8	71.2	1.59	45.915	
500.0	500.0	500.9	500.3	1.0	1.0	-90.38	-0.5	-70.7	70.8	68.7	2.06	34.430	
600.0	600.0	600.3	599.0	1.2	1.3	-80.50	11.5	-68.7	69.7	67.1	2.55	27.333	
601.4	601.4	601.8	600.4	1.2	1.3	-80.34	11.7	-68.7	69.7	67.1	2.56	27.251	CC, ES
700.0	700.0	698.8	696.3	1.5	1.6	-68.03	26.7	-66.1	71.3	68.3	3.09	23.102	
800.0	800.0	796.2	791.9	1.7	2.0	-54.53	44.9	-63.0	77.7	74.0	3.68	21.095	SF
900.0	900.0	893.7	887.1	1.9	2.4	-75.96	65.7	-59.5	89.0	84.8	4.18	21.272	
1,000.0	999.8	992.2	983.2	2.1	2.8	-68.80	86.9	-55.9	101.8	97.1	4.70	21.661	
1,100.0	1,099.6	1,090.9	1,079.6	2.4	3.3	-64.19	108.1	-52.3	115.1	109.9	5.22	22.042	
1,200.0	1,199.4	1,189.7	1,175.9	2.6	3.7	-60.55	129.4	-48.6	129.0	123.2	5.74	22.475	
1,300.0	1,299.1	1,288.4	1,272.3	2.8	4.1	-57.62	150.6	-45.0	143.2	137.0	6.25	22.916	
1,400.0	1,398.9	1,387.1	1,368.6	3.1	4.6	-55.23	171.8	-41.4	157.8	151.0	6.76	23.340	

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 Phelps A-32NHZ
Project:	SEC.32-T1N-R66W	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Phelps A-32NHZ	**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 (10-28-13)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 11-32CHZ - Wellbore #1 - Plan #1 (10-28

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
1,500.0	1,498.7	1,485.9	1,465.0	3.3	5.0	-53.24	193.1	-37.8	172.6	165.3	7.27	23.741	
1,600.0	1,598.4	1,584.6	1,561.4	3.6	5.5	-51.57	214.3	-34.2	187.6	179.8	7.78	24.113	
1,700.0	1,698.2	1,683.3	1,657.7	3.8	5.9	-50.14	235.6	-30.5	202.7	194.4	8.29	24.458	
1,800.0	1,797.9	1,782.1	1,754.1	4.1	6.4	-48.91	256.8	-26.9	217.9	209.1	8.79	24.774	
1,900.0	1,897.7	1,880.8	1,850.4	4.3	6.8	-47.85	278.1	-23.3	233.2	223.9	9.30	25.066	
2,000.0	1,997.5	1,979.6	1,946.8	4.5	7.3	-46.91	299.3	-19.7	248.5	238.7	9.81	25.334	
2,100.0	2,097.2	2,078.3	2,043.1	4.8	7.7	-46.08	320.5	-16.1	263.9	253.6	10.32	25.581	
2,200.0	2,197.0	2,177.0	2,139.5	5.0	8.2	-45.35	341.8	-12.5	279.4	268.6	10.83	25.809	
2,300.0	2,296.8	2,275.8	2,235.8	5.3	8.6	-44.69	363.0	-8.8	294.9	283.6	11.33	26.019	
2,400.0	2,396.5	2,374.5	2,332.2	5.6	9.1	-44.10	384.3	-5.2	310.5	298.6	11.84	26.214	
2,500.0	2,496.3	2,473.2	2,428.6	5.8	9.5	-43.56	405.5	-1.6	326.0	313.7	12.35	26.395	
2,600.0	2,596.1	2,572.0	2,524.9	6.1	10.0	-43.07	426.8	2.0	341.6	328.8	12.86	26.563	
2,700.0	2,695.8	2,670.7	2,621.3	6.3	10.4	-42.63	448.0	5.6	357.2	343.9	13.37	26.720	
2,800.0	2,795.6	2,769.4	2,717.6	6.6	10.9	-42.22	469.2	9.2	372.9	359.0	13.88	26.866	
2,900.0	2,895.3	2,868.2	2,814.0	6.8	11.3	-41.85	490.5	12.9	388.5	374.1	14.39	27.002	
3,000.0	2,995.1	2,966.9	2,910.3	7.1	11.8	-41.50	511.7	16.5	404.2	389.3	14.90	27.130	
3,100.0	3,094.9	3,065.7	3,006.7	7.3	12.2	-41.18	533.0	20.1	419.9	404.5	15.41	27.250	
3,200.0	3,194.6	3,164.4	3,103.1	7.6	12.7	-40.88	554.2	23.7	435.6	419.7	15.92	27.363	
3,300.0	3,294.4	3,263.1	3,199.4	7.8	13.1	-40.61	575.5	27.3	451.3	434.9	16.43	27.470	
3,400.0	3,394.2	3,361.9	3,295.8	8.1	13.6	-40.35	596.7	30.9	467.0	450.1	16.94	27.570	
3,500.0	3,493.9	3,460.6	3,392.1	8.3	14.0	-40.11	617.9	34.6	482.7	465.3	17.45	27.664	
3,600.0	3,593.7	3,559.3	3,488.5	8.6	14.5	-39.88	639.2	38.2	498.5	480.5	17.96	27.754	
3,700.0	3,693.5	3,658.1	3,584.8	8.8	15.0	-39.67	660.4	41.8	514.2	495.7	18.47	27.839	
3,800.0	3,793.2	3,756.8	3,681.2	9.1	15.4	-39.47	681.7	45.4	529.9	511.0	18.98	27.919	
3,900.0	3,893.0	3,855.5	3,777.6	9.3	15.9	-39.28	702.9	49.0	545.7	526.2	19.49	27.996	
4,000.0	3,992.7	3,954.3	3,873.9	9.6	16.3	-39.11	724.1	52.6	561.4	541.4	20.00	28.068	
4,100.0	4,092.5	4,053.0	3,970.3	9.9	16.8	-38.94	745.4	56.3	577.2	556.7	20.51	28.137	
4,200.0	4,192.3	4,151.8	4,066.6	10.1	17.2	-38.78	766.6	59.9	593.0	571.9	21.02	28.203	
4,300.0	4,292.0	4,250.5	4,163.0	10.4	17.7	-38.63	787.9	63.5	608.7	587.2	21.54	28.266	
4,400.0	4,391.8	4,349.2	4,259.3	10.6	18.1	-38.49	809.1	67.1	624.5	602.5	22.05	28.326	
4,500.0	4,491.6	4,448.0	4,355.7	10.9	18.6	-38.35	830.4	70.7	640.3	617.7	22.56	28.383	
4,600.0	4,591.3	4,546.7	4,452.0	11.1	19.0	-38.22	851.6	74.3	656.1	633.0	23.07	28.438	
4,700.0	4,691.1	4,645.4	4,548.4	11.4	19.5	-38.10	872.8	78.0	671.9	648.3	23.58	28.491	
4,800.0	4,790.9	4,744.2	4,644.8	11.6	19.9	-37.98	894.1	81.6	687.6	663.5	24.09	28.541	
4,900.0	4,890.7	4,842.7	4,740.9	11.9	20.4	-37.99	915.3	85.2	704.5	679.9	24.54	28.702	
5,000.0	4,990.7	4,940.7	4,836.5	12.0	20.8	-37.89	936.4	88.8	724.0	699.1	24.92	29.053	
5,100.0	5,090.7	5,038.3	4,931.8	12.2	21.3	-4.54	957.4	92.4	745.2	712.4	32.75	22.754	
5,200.0	5,190.7	5,135.9	5,027.0	12.4	21.7	-4.14	978.4	95.9	766.4	732.9	33.42	22.929	
5,300.0	5,290.7	5,233.5	5,122.3	12.6	22.2	-3.76	999.4	99.5	787.6	753.5	34.10	23.099	
5,400.0	5,390.7	5,331.1	5,217.5	12.8	22.6	-3.40	1,020.4	103.1	808.9	774.1	34.77	23.263	
5,500.0	5,490.7	5,428.7	5,312.7	13.0	23.1	-3.06	1,041.3	106.7	830.2	794.7	35.44	23.423	
5,600.0	5,590.7	5,526.2	5,408.0	13.2	23.5	-2.74	1,062.3	110.2	851.5	815.4	36.12	23.577	
5,700.0	5,690.7	5,623.8	5,503.2	13.4	24.0	-2.43	1,083.3	113.8	872.9	836.1	36.79	23.727	
5,800.0	5,790.7	5,721.4	5,598.4	13.6	24.4	-2.14	1,104.3	117.4	894.2	856.8	37.46	23.872	
5,900.0	5,890.7	5,819.0	5,693.7	13.8	24.9	-1.86	1,125.3	121.0	915.6	877.5	38.13	24.013	
6,000.0	5,990.7	5,916.6	5,788.9	14.1	25.3	-1.59	1,146.3	124.5	937.0	898.2	38.80	24.150	
6,100.0	6,090.7	6,014.2	5,884.2	14.3	25.8	-1.34	1,167.3	128.1	958.5	919.0	39.47	24.283	
6,200.0	6,190.7	6,111.8	5,979.4	14.5	26.2	-1.10	1,188.3	131.7	979.9	939.8	40.14	24.412	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Phelps A-32NHZ
Project:	SEC.32-T1N-R66W	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Phelps A-32NHZ	**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 (10-28-13)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 11-32NHZ - Wellbore #1 - Plan #1 (10-28

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	-102.36	-11.3	-51.5	52.8				
100.0	100.0	100.0	100.0	0.1	0.1	-102.36	-11.3	-51.5	52.8	52.5	0.22	234.760	
200.0	200.0	200.0	200.0	0.3	0.3	-102.36	-11.3	-51.5	52.8	52.1	0.67	78.253	
300.0	300.0	300.0	300.0	0.6	0.6	-102.36	-11.3	-51.5	52.8	51.6	1.12	46.952	
400.0	400.0	400.0	400.0	0.8	0.8	-102.36	-11.3	-51.5	52.8	51.2	1.57	33.537	
500.0	500.0	500.7	500.7	1.0	1.0	-100.58	-9.6	-51.2	52.1	50.1	2.02	25.717	
600.0	600.0	601.2	601.0	1.2	1.2	-95.00	-4.4	-50.1	50.3	47.8	2.48	20.288	
700.0	700.0	701.1	700.6	1.5	1.5	-85.05	4.2	-48.4	48.5	45.6	2.94	16.497	
750.0	750.0	750.9	750.0	1.6	1.6	-78.37	9.7	-47.2	48.2	45.0	3.18	15.145	CC, ES
800.0	800.0	800.4	799.1	1.7	1.7	-70.72	16.1	-45.9	48.6	45.2	3.43	14.201	
900.0	900.0	898.9	896.4	1.9	2.0	-88.66	31.2	-42.8	53.0	49.1	3.94	13.447	
1,000.0	999.8	998.1	994.1	2.1	2.4	-78.30	48.0	-39.3	60.6	56.1	4.45	13.594	
1,100.0	1,099.6	1,097.5	1,092.0	2.4	2.7	-71.79	64.8	-35.9	69.1	64.1	4.97	13.903	
1,200.0	1,199.4	1,196.9	1,189.9	2.6	3.1	-66.76	81.7	-32.4	78.3	72.8	5.48	14.289	
1,300.0	1,299.1	1,296.2	1,287.7	2.8	3.4	-62.80	98.5	-28.9	88.0	82.0	5.98	14.698	
1,400.0	1,398.9	1,395.6	1,385.6	3.1	3.8	-59.64	115.3	-25.5	98.0	91.5	6.49	15.101	
1,500.0	1,498.7	1,495.0	1,483.5	3.3	4.2	-57.07	132.2	-22.0	108.2	101.2	6.99	15.484	
1,600.0	1,598.4	1,594.3	1,581.3	3.6	4.5	-54.95	149.0	-18.5	118.7	111.2	7.49	15.842	
1,700.0	1,698.2	1,693.7	1,679.2	3.8	4.9	-53.17	165.9	-15.1	129.2	121.3	7.99	16.174	
1,800.0	1,797.9	1,793.1	1,777.1	4.1	5.3	-51.66	182.7	-11.6	139.9	131.4	8.49	16.481	
1,900.0	1,897.7	1,892.4	1,874.9	4.3	5.7	-50.37	199.6	-8.1	150.7	141.7	8.99	16.763	
2,000.0	1,997.5	1,991.8	1,972.8	4.5	6.0	-49.25	216.4	-4.7	161.5	152.0	9.49	17.023	
2,100.0	2,097.2	2,091.2	2,070.7	4.8	6.4	-48.27	233.2	-1.2	172.4	162.4	9.99	17.262	
2,200.0	2,197.0	2,190.5	2,168.5	5.0	6.8	-47.41	250.1	2.3	183.3	172.8	10.48	17.483	
2,300.0	2,296.8	2,289.9	2,266.4	5.3	7.2	-46.64	266.9	5.7	194.3	183.3	10.98	17.687	
2,400.0	2,396.5	2,389.3	2,364.3	5.6	7.6	-45.95	283.8	9.2	205.2	193.8	11.48	17.876	
2,500.0	2,496.3	2,488.6	2,462.1	5.8	8.0	-45.34	300.6	12.7	216.3	204.3	11.98	18.052	
2,600.0	2,596.1	2,588.0	2,560.0	6.1	8.3	-44.78	317.5	16.1	227.3	214.8	12.48	18.215	
2,700.0	2,695.8	2,687.4	2,657.9	6.3	8.7	-44.28	334.3	19.6	238.3	225.4	12.98	18.367	
2,800.0	2,795.6	2,786.7	2,755.7	6.6	9.1	-43.82	351.2	23.1	249.4	235.9	13.48	18.509	
2,900.0	2,895.3	2,886.1	2,853.6	6.8	9.5	-43.40	368.0	26.6	260.5	246.5	13.97	18.642	
3,000.0	2,995.1	2,985.5	2,951.5	7.1	9.9	-43.02	384.8	30.0	271.6	257.1	14.47	18.766	
3,100.0	3,094.9	3,084.8	3,049.3	7.3	10.2	-42.66	401.7	33.5	282.7	267.7	14.97	18.883	
3,200.0	3,194.6	3,184.2	3,147.2	7.6	10.6	-42.33	418.5	37.0	293.8	278.4	15.47	18.992	
3,300.0	3,294.4	3,283.6	3,245.1	7.8	11.0	-42.03	435.4	40.4	305.0	289.0	15.97	19.096	
3,400.0	3,394.2	3,382.9	3,342.9	8.1	11.4	-41.74	452.2	43.9	316.1	299.6	16.47	19.193	
3,500.0	3,493.9	3,482.3	3,440.8	8.3	11.8	-41.48	469.1	47.4	327.2	310.3	16.97	19.285	
3,600.0	3,593.7	3,581.7	3,538.7	8.6	12.2	-41.23	485.9	50.8	338.4	320.9	17.47	19.372	
3,700.0	3,693.5	3,681.0	3,636.5	8.8	12.5	-41.00	502.7	54.3	349.6	331.6	17.97	19.455	
3,800.0	3,793.2	3,780.4	3,734.4	9.1	12.9	-40.79	519.6	57.8	360.7	342.3	18.47	19.533	
3,900.0	3,893.0	3,879.8	3,832.3	9.3	13.3	-40.58	536.4	61.2	371.9	352.9	18.97	19.607	
4,000.0	3,992.7	3,979.1	3,930.1	9.6	13.7	-40.39	553.3	64.7	383.1	363.6	19.47	19.678	
4,100.0	4,092.5	4,078.5	4,028.0	9.9	14.1	-40.21	570.1	68.2	394.2	374.3	19.97	19.746	
4,200.0	4,192.3	4,177.9	4,125.9	10.1	14.5	-40.04	587.0	71.6	405.4	384.9	20.47	19.810	
4,300.0	4,292.0	4,277.2	4,223.7	10.4	14.9	-39.88	603.8	75.1	416.6	395.6	20.96	19.871	
4,400.0	4,391.8	4,376.6	4,321.6	10.6	15.2	-39.72	620.7	78.6	427.8	406.3	21.46	19.929	
4,500.0	4,491.6	4,475.9	4,419.5	10.9	15.6	-39.58	637.5	82.0	439.0	417.0	21.96	19.985	
4,600.0	4,591.3	4,575.3	4,517.3	11.1	16.0	-39.44	654.3	85.5	450.2	427.7	22.46	20.039	
4,700.0	4,691.1	4,674.7	4,615.2	11.4	16.4	-39.31	671.2	89.0	461.3	438.4	22.96	20.090	
4,800.0	4,790.9	4,774.0	4,713.1	11.6	16.8	-39.18	688.0	92.4	472.5	449.1	23.46	20.139	
4,900.0	4,890.7	4,873.3	4,810.8	11.9	17.2	-39.10	704.9	95.9	484.8	460.9	23.91	20.275	

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 Phelps A-32NHZ
Project:	SEC.32-T1N-R66W	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Phelps A-32NHZ	**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 (10-28-13)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 11-32NHZ - Wellbore #1 - Plan #1 (10-28

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
5,000.0	4,990.7	4,972.1	4,908.1	12.0	17.5	-38.83	721.6	99.4	499.7	475.4	24.28	20.581	
5,100.0	5,090.7	5,070.6	5,005.1	12.2	17.9	-5.32	738.3	102.8	516.2	486.9	29.37	17.577	
5,200.0	5,190.7	5,169.1	5,102.1	12.4	18.3	-4.78	755.0	106.2	532.8	502.8	29.98	17.772	
5,300.0	5,290.7	5,267.6	5,199.1	12.6	18.7	-4.27	771.7	109.7	549.5	518.9	30.59	17.961	
5,400.0	5,390.7	5,366.0	5,296.1	12.8	19.1	-3.79	788.4	113.1	566.2	535.0	31.20	18.144	
5,500.0	5,490.7	5,464.5	5,393.1	13.0	19.5	-3.34	805.1	116.5	582.9	551.1	31.81	18.322	
5,600.0	5,590.7	5,563.0	5,490.1	13.2	19.8	-2.91	821.8	120.0	599.6	567.2	32.42	18.495	
5,700.0	5,690.7	5,661.5	5,587.1	13.4	20.2	-2.51	838.5	123.4	616.4	583.4	33.03	18.663	
5,800.0	5,790.7	5,760.0	5,684.1	13.6	20.6	-2.13	855.2	126.9	633.2	599.6	33.63	18.826	
5,900.0	5,890.7	5,858.5	5,781.1	13.8	21.0	-1.76	871.9	130.3	650.1	615.8	34.24	18.985	
6,000.0	5,990.7	5,957.0	5,878.1	14.1	21.4	-1.42	888.6	133.7	666.9	632.1	34.85	19.139	
6,100.0	6,090.7	6,055.5	5,975.1	14.3	21.7	-1.09	905.3	137.2	683.8	648.3	35.45	19.288	
6,200.0	6,190.7	6,154.0	6,072.2	14.5	22.1	-0.78	921.9	140.6	700.7	664.6	36.06	19.433	
6,300.0	6,290.7	6,273.8	6,190.4	14.7	22.5	-0.44	941.0	144.5	716.6	680.0	36.66	19.546	
6,400.0	6,390.7	6,405.7	6,321.3	14.9	22.8	-0.18	956.5	147.7	728.4	691.2	37.22	19.571	
6,500.0	6,490.7	6,538.7	6,453.9	15.1	23.1	-0.02	966.2	149.7	735.7	698.0	37.70	19.515	
6,600.0	6,590.7	6,672.3	6,587.5	15.3	23.3	0.04	969.8	150.5	738.4	700.3	38.11	19.375	
6,700.0	6,690.7	6,775.5	6,690.7	15.5	23.4	0.04	969.8	150.5	738.4	699.9	38.46	19.199	
6,800.0	6,790.6	6,875.5	6,790.6	15.7	23.6	90.04	969.8	148.3	738.4	706.3	32.10	23.000	
6,900.0	6,889.4	6,975.6	6,889.5	15.8	23.6	90.03	969.8	133.5	738.4	706.0	32.39	22.799	
7,000.0	6,985.3	7,075.6	6,985.4	16.0	23.7	90.03	969.8	105.2	738.4	705.8	32.63	22.629	
7,100.0	7,076.2	7,175.7	7,076.4	16.1	23.7	90.03	969.8	63.7	738.4	705.5	32.89	22.449	
7,200.0	7,160.5	7,275.8	7,160.7	16.1	23.8	90.03	969.8	10.0	738.4	705.1	33.27	22.194	
7,300.0	7,236.5	7,375.8	7,236.7	16.4	23.8	90.03	969.8	-54.9	738.4	704.5	33.90	21.785	
7,400.0	7,302.8	7,475.8	7,303.0	16.9	23.9	90.02	969.8	-129.7	738.4	703.5	34.91	21.149	
7,500.0	7,358.0	7,575.9	7,358.2	17.8	24.1	90.02	969.8	-213.1	738.4	701.9	36.46	20.252	
7,600.0	7,401.0	7,675.9	7,401.2	18.9	24.4	90.01	969.8	-303.3	738.4	699.8	38.61	19.126	
7,700.0	7,431.1	7,775.9	7,431.2	20.4	24.9	90.01	969.8	-398.6	738.4	697.0	41.36	17.854	
7,800.0	7,447.7	7,875.9	7,447.7	22.1	25.8	90.00	969.8	-497.2	738.4	693.8	44.63	16.546	
7,900.0	7,451.0	7,975.9	7,451.0	24.0	27.0	90.00	969.8	-597.1	738.4	690.1	48.29	15.290	
8,000.0	7,451.0	8,075.9	7,451.0	26.0	28.6	90.00	969.8	-697.1	738.4	686.1	52.29	14.121	
8,100.0	7,451.0	8,175.9	7,451.0	28.2	30.4	90.00	969.8	-797.1	738.4	681.8	56.56	13.056	
8,200.0	7,451.0	8,275.9	7,451.0	30.5	32.4	90.00	969.8	-897.1	738.4	677.4	61.04	12.098	
8,300.0	7,451.0	8,375.9	7,451.0	32.8	34.6	90.00	969.8	-997.1	738.4	672.7	65.69	11.240	
8,400.0	7,451.0	8,475.9	7,451.0	35.2	36.8	90.00	969.8	-1,097.1	738.4	667.9	70.49	10.476	
8,500.0	7,451.0	8,575.9	7,451.0	37.7	39.1	90.00	969.8	-1,197.1	738.4	663.0	75.39	9.794	
8,600.0	7,451.0	8,675.9	7,451.0	40.2	41.5	90.00	969.8	-1,297.1	738.4	658.0	80.39	9.185	
8,700.0	7,451.0	8,775.9	7,451.0	42.8	44.0	90.00	969.8	-1,397.1	738.4	652.9	85.47	8.640	
8,800.0	7,451.0	8,875.9	7,451.0	45.4	46.4	90.00	969.8	-1,497.1	738.4	647.8	90.60	8.150	
8,900.0	7,451.0	8,975.9	7,451.0	48.0	48.9	90.00	969.8	-1,597.1	738.4	642.6	95.80	7.708	
9,000.0	7,451.0	9,075.9	7,451.0	50.6	51.5	90.00	969.8	-1,697.1	738.4	637.4	101.03	7.309	
9,100.0	7,451.0	9,175.9	7,451.0	53.2	54.1	90.00	969.8	-1,797.1	738.4	632.1	106.30	6.946	
9,200.0	7,451.0	9,275.9	7,451.0	55.9	56.7	90.00	969.8	-1,897.1	738.4	626.8	111.61	6.616	
9,300.0	7,451.0	9,375.9	7,451.0	58.6	59.3	90.00	969.8	-1,997.1	738.4	621.5	116.94	6.314	
9,400.0	7,451.0	9,475.9	7,451.0	61.3	61.9	90.00	969.8	-2,097.1	738.4	616.1	122.30	6.038	
9,500.0	7,451.0	9,575.9	7,451.0	64.0	64.6	90.00	969.8	-2,197.1	738.4	610.7	127.68	5.783	
9,600.0	7,451.0	9,675.9	7,451.0	66.7	67.2	90.00	969.8	-2,297.1	738.4	605.3	133.08	5.549	
9,700.0	7,451.0	9,775.9	7,451.0	69.4	69.9	90.00	969.8	-2,397.1	738.4	599.9	138.50	5.332	
9,800.0	7,451.0	9,875.9	7,451.0	72.1	72.6	90.00	969.8	-2,497.1	738.4	594.5	143.93	5.130	
9,900.0	7,451.0	9,975.9	7,451.0	74.8	75.3	90.00	969.8	-2,597.1	738.4	589.0	149.37	4.943	
10,000.0	7,451.0	10,075.9	7,451.0	77.6	78.0	90.00	969.8	-2,697.1	738.4	583.6	154.83	4.769	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Phelps A-32NHZ
Project:	SEC.32-T1N-R66W	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Phelps A-32NHZ	**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 (10-28-13)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 11-32NHZ - Wellbore #1 - Plan #1 (10-28

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
10,100.0	7,451.0	10,175.9	7,451.0	80.3	80.7	90.00	969.8	-2,797.1	738.4	578.1	160.29	4.607	
10,200.0	7,451.0	10,275.9	7,451.0	83.0	83.4	90.00	969.8	-2,897.1	738.4	572.6	165.77	4.454	
10,300.0	7,451.0	10,375.9	7,451.0	85.8	86.1	90.00	969.8	-2,997.1	738.4	567.2	171.25	4.312	
10,400.0	7,451.0	10,475.9	7,451.0	88.5	88.8	90.00	969.8	-3,097.1	738.4	561.7	176.74	4.178	
10,500.0	7,451.0	10,575.9	7,451.0	91.3	91.5	90.00	969.8	-3,197.1	738.4	556.2	182.24	4.052	
10,600.0	7,451.0	10,675.9	7,451.0	94.0	94.3	90.00	969.8	-3,297.1	738.4	550.7	187.75	3.933	
10,700.0	7,451.0	10,775.9	7,451.0	96.8	97.0	90.00	969.8	-3,397.1	738.4	545.1	193.26	3.821	
10,800.0	7,451.0	10,875.9	7,451.0	99.6	99.8	90.00	969.8	-3,497.1	738.4	539.6	198.78	3.715	
10,900.0	7,451.0	10,975.9	7,451.0	102.3	102.5	90.00	969.8	-3,597.1	738.4	534.1	204.30	3.614	
11,000.0	7,451.0	11,075.9	7,451.0	105.1	105.3	90.00	969.8	-3,697.1	738.4	528.6	209.82	3.519	
11,100.0	7,451.0	11,175.9	7,451.0	107.9	108.0	90.00	969.8	-3,797.1	738.4	523.0	215.35	3.429	
11,200.0	7,451.0	11,275.9	7,451.0	110.6	110.8	90.00	969.8	-3,897.1	738.4	517.5	220.89	3.343	
11,300.0	7,451.0	11,375.9	7,451.0	113.4	113.5	90.00	969.8	-3,997.1	738.4	512.0	226.43	3.261	
11,400.0	7,451.0	11,475.9	7,451.0	116.2	116.3	90.00	969.8	-4,097.1	738.4	506.4	231.97	3.183	
11,500.0	7,451.0	11,575.9	7,451.0	119.0	119.0	90.00	969.8	-4,197.1	738.4	500.9	237.51	3.109	
11,600.0	7,451.0	11,675.9	7,451.0	121.7	121.8	90.00	969.8	-4,297.1	738.4	495.3	243.06	3.038	
11,700.0	7,451.0	11,775.9	7,451.0	124.5	124.6	90.00	969.8	-4,397.1	738.4	489.8	248.61	2.970	
11,800.0	7,451.0	11,875.9	7,451.0	127.3	127.3	90.00	969.8	-4,497.1	738.4	484.2	254.16	2.905	
11,900.0	7,451.0	11,975.9	7,451.0	130.1	130.1	90.00	969.8	-4,597.1	738.4	478.7	259.72	2.843	
11,930.2	7,451.0	12,006.2	7,451.0	130.6	130.9	90.00	969.8	-4,627.3	738.4	477.3	261.10	2.828	
11,938.6	7,451.0	12,013.0	7,451.0	130.7	131.1	90.00	969.8	-4,634.2	738.4	477.0	261.44	2.824	SF

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Phelps A-32NHZ
Project:	SEC.32-T1N-R66W	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Phelps A-32NHZ	**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 (10-28-13)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 12-32CHZ - Wellbore #1 - Plan #1 (10-28

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	-102.27	-20.8	-95.5	97.8				
100.0	100.0	99.0	99.0	0.1	0.1	-102.27	-20.8	-95.5	97.8	97.5	0.22	437.094	
200.0	200.0	199.0	199.0	0.3	0.3	-102.27	-20.8	-95.5	97.8	97.1	0.67	145.456	
300.0	300.0	299.0	299.0	0.6	0.6	-102.27	-20.8	-95.5	97.8	96.6	1.12	87.157	
400.0	400.0	399.0	399.0	0.8	0.8	-102.27	-20.8	-95.5	97.8	96.2	1.57	62.219	
500.0	500.0	499.0	499.0	1.0	1.0	-102.27	-20.8	-95.5	97.8	95.7	2.02	48.377	
600.0	600.0	599.0	599.0	1.2	1.2	-102.27	-20.8	-95.5	97.8	95.3	2.47	39.573	
700.0	700.0	699.0	699.0	1.5	1.5	-102.27	-20.8	-95.5	97.8	94.8	2.92	33.481	
800.0	800.0	799.0	799.0	1.7	1.7	-102.27	-20.8	-95.5	97.8	94.4	3.37	29.013	CC, ES
900.0	900.0	899.0	899.0	1.9	1.9	-135.91	-20.8	-95.5	99.0	95.2	3.82	25.944	
1,000.0	999.8	998.8	998.8	2.1	2.1	-137.89	-20.8	-95.5	102.8	98.6	4.26	24.136	
1,100.0	1,099.6	1,101.7	1,101.7	2.4	2.3	-140.96	-21.3	-93.8	106.6	101.9	4.69	22.709	
1,200.0	1,199.4	1,204.2	1,204.0	2.6	2.6	-145.00	-23.0	-88.6	107.9	102.7	5.12	21.077	
1,300.0	1,299.1	1,303.8	1,303.4	2.8	2.8	-149.35	-25.0	-82.2	108.6	103.0	5.55	19.578	
1,400.0	1,398.9	1,403.5	1,402.9	3.1	3.0	-153.61	-27.0	-75.8	109.9	104.0	5.98	18.371	
1,500.0	1,498.7	1,503.1	1,502.3	3.3	3.2	-157.74	-29.1	-69.3	111.9	105.4	6.43	17.401	
1,600.0	1,598.4	1,602.8	1,601.7	3.6	3.4	-161.72	-31.1	-62.9	114.4	107.5	6.88	16.623	
1,700.0	1,698.2	1,702.5	1,701.1	3.8	3.7	-165.51	-33.1	-56.5	117.4	110.1	7.34	16.000	
1,800.0	1,797.9	1,802.1	1,800.6	4.1	3.9	-169.09	-35.2	-50.0	120.9	113.1	7.80	15.503	
1,900.0	1,897.7	1,901.8	1,900.0	4.3	4.1	-172.46	-37.2	-43.6	124.9	116.6	8.27	15.108	
2,000.0	1,997.5	2,001.4	1,999.4	4.5	4.4	-175.62	-39.2	-37.2	129.3	120.5	8.74	14.795	
2,100.0	2,097.2	2,101.1	2,098.9	4.8	4.6	-178.56	-41.3	-30.8	134.0	124.8	9.21	14.549	
2,200.0	2,197.0	2,200.7	2,198.3	5.0	4.9	178.71	-43.3	-24.3	139.1	129.4	9.69	14.358	
2,300.0	2,296.8	2,300.4	2,297.7	5.3	5.1	176.17	-45.3	-17.9	144.5	134.3	10.17	14.209	
2,400.0	2,396.5	2,400.1	2,397.2	5.6	5.3	173.82	-47.4	-11.5	150.1	139.4	10.65	14.097	
2,500.0	2,496.3	2,499.7	2,496.6	5.8	5.6	171.64	-49.4	-5.1	155.9	144.8	11.13	14.013	
2,600.0	2,596.1	2,599.4	2,596.0	6.1	5.8	169.62	-51.4	1.4	162.0	150.4	11.61	13.952	
2,700.0	2,695.8	2,699.0	2,695.4	6.3	6.1	167.75	-53.5	7.8	168.3	156.2	12.10	13.911	
2,800.0	2,795.6	2,798.7	2,794.9	6.6	6.3	166.01	-55.5	14.2	174.7	162.1	12.58	13.884	
2,900.0	2,895.3	2,898.4	2,894.3	6.8	6.6	164.40	-57.6	20.6	181.3	168.2	13.07	13.870	
3,000.0	2,995.1	2,998.0	2,993.7	7.1	6.8	162.90	-59.6	27.1	188.0	174.4	13.56	13.867	
3,100.0	3,094.9	3,097.7	3,093.2	7.3	7.1	161.51	-61.6	33.5	194.8	180.8	14.04	13.871	
3,200.0	3,194.6	3,197.3	3,192.6	7.6	7.3	160.21	-63.7	39.9	201.7	187.2	14.53	13.882	
3,300.0	3,294.4	3,297.0	3,292.0	7.8	7.6	159.00	-65.7	46.4	208.8	193.7	15.02	13.898	
3,400.0	3,394.2	3,396.6	3,391.5	8.1	7.9	157.87	-67.7	52.8	215.9	200.4	15.51	13.919	
3,500.0	3,493.9	3,496.3	3,490.9	8.3	8.1	156.81	-69.8	59.2	223.1	207.1	16.00	13.943	
3,600.0	3,593.7	3,596.0	3,590.3	8.6	8.4	155.81	-71.8	65.6	230.3	213.9	16.49	13.969	
3,700.0	3,693.5	3,695.6	3,689.7	8.8	8.6	154.88	-73.8	72.1	237.7	220.7	16.98	13.998	
3,800.0	3,793.2	3,795.3	3,789.2	9.1	8.9	154.00	-75.9	78.5	245.1	227.6	17.47	14.028	
3,900.0	3,893.0	3,894.9	3,888.6	9.3	9.1	153.18	-77.9	84.9	252.5	234.6	17.96	14.060	
4,000.0	3,992.7	3,994.6	3,988.0	9.6	9.4	152.40	-79.9	91.3	260.0	241.6	18.45	14.092	
4,100.0	4,092.5	4,094.3	4,087.5	9.9	9.6	151.66	-82.0	97.8	267.5	248.6	18.94	14.125	
4,200.0	4,192.3	4,193.9	4,186.9	10.1	9.9	150.97	-84.0	104.2	275.1	255.7	19.43	14.158	
4,300.0	4,292.0	4,293.6	4,286.3	10.4	10.1	150.31	-86.0	110.6	282.7	262.8	19.92	14.192	
4,400.0	4,391.8	4,393.2	4,385.8	10.6	10.4	149.69	-88.1	117.0	290.4	270.0	20.41	14.225	
4,500.0	4,491.6	4,492.9	4,485.2	10.9	10.7	149.10	-90.1	123.5	298.1	277.2	20.90	14.259	
4,600.0	4,591.3	4,592.6	4,584.6	11.1	10.9	148.54	-92.2	129.9	305.8	284.4	21.40	14.292	
4,700.0	4,691.1	4,692.2	4,684.0	11.4	11.2	148.00	-94.2	136.3	313.5	291.6	21.89	14.325	
4,800.0	4,790.9	4,791.9	4,783.5	11.6	11.4	147.50	-96.2	142.8	321.3	298.9	22.38	14.358	
4,900.0	4,890.7	4,894.3	4,885.8	11.9	11.7	147.11	-98.0	148.3	327.7	304.8	22.83	14.349	
5,000.0	4,990.7	4,997.9	4,989.3	12.0	11.8	146.97	-98.7	150.5	330.0	306.9	23.20	14.229	

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 Phelps A-32NHZ
Project:	SEC.32-T1N-R66W	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Phelps A-32NHZ	**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 (10-28-13)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 12-32CHZ - Wellbore #1 - Plan #1 (10-28

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
5,100.0	5,090.7	5,098.3	5,089.7	12.2	12.0	179.92	-98.7	150.5	330.1	306.9	23.14	14.262	
5,200.0	5,190.7	5,198.3	5,189.7	12.4	12.2	179.92	-98.7	150.5	330.1	306.5	23.54	14.019	
5,300.0	5,290.7	5,298.3	5,289.7	12.6	12.4	179.92	-98.7	150.5	330.1	306.1	23.95	13.783	
5,400.0	5,390.7	5,398.3	5,389.7	12.8	12.6	179.92	-98.7	150.5	330.1	305.7	24.35	13.554	
5,500.0	5,490.7	5,498.3	5,489.7	13.0	12.8	179.92	-98.7	150.5	330.1	305.3	24.76	13.331	
5,600.0	5,590.7	5,598.3	5,589.7	13.2	13.0	179.92	-98.7	150.5	330.1	304.9	25.17	13.115	
5,700.0	5,690.7	5,698.3	5,689.7	13.4	13.2	179.92	-98.7	150.5	330.1	304.5	25.58	12.905	
5,800.0	5,790.7	5,798.3	5,789.7	13.6	13.4	179.92	-98.7	150.5	330.1	304.1	25.99	12.702	
5,900.0	5,890.7	5,898.3	5,889.7	13.8	13.6	179.92	-98.7	150.5	330.1	303.7	26.40	12.503	
6,000.0	5,990.7	5,998.3	5,989.7	14.1	13.7	179.92	-98.7	150.5	330.1	303.3	26.81	12.311	
6,100.0	6,090.7	6,098.3	6,089.7	14.3	13.9	179.92	-98.7	150.5	330.1	302.8	27.23	12.123	
6,200.0	6,190.7	6,198.3	6,189.7	14.5	14.1	179.92	-98.7	150.5	330.1	302.4	27.64	11.941	
6,300.0	6,290.7	6,298.3	6,289.7	14.7	14.3	179.92	-98.7	150.5	330.1	302.0	28.06	11.764	
6,400.0	6,390.7	6,398.3	6,389.7	14.9	14.5	179.92	-98.7	150.5	330.1	301.6	28.48	11.591	
6,500.0	6,490.7	6,498.3	6,489.7	15.1	14.7	179.92	-98.7	150.5	330.1	301.2	28.89	11.424	
6,600.0	6,590.7	6,598.3	6,589.7	15.3	14.9	179.92	-98.7	150.5	330.1	300.8	29.31	11.260	
6,700.0	6,690.7	6,698.3	6,689.7	15.5	15.1	179.92	-98.7	150.5	330.1	300.3	29.73	11.101	
6,744.7	6,735.4	6,743.0	6,734.4	15.6	15.2	-90.22	-98.7	150.5	330.1	299.7	30.33	10.882	
6,800.0	6,790.6	6,798.2	6,789.6	15.7	15.3	-90.46	-98.7	150.5	330.1	299.5	30.55	10.803	
6,900.0	6,889.4	6,897.0	6,888.4	15.8	15.5	-92.94	-98.7	150.5	330.5	299.6	30.91	10.692	
7,000.0	6,985.3	6,996.7	6,988.0	16.0	15.7	-97.18	-98.7	147.8	332.9	301.7	31.21	10.667	
7,100.0	7,076.2	7,101.4	7,091.3	16.1	15.8	-101.51	-98.7	131.1	337.3	305.9	31.39	10.748	
7,200.0	7,160.5	7,210.7	7,195.3	16.1	15.9	-105.59	-98.7	97.8	343.5	312.0	31.47	10.915	
7,300.0	7,236.5	7,324.9	7,297.2	16.4	16.0	-109.34	-98.7	46.6	350.9	319.3	31.54	11.125	
7,400.0	7,302.8	7,444.2	7,393.6	16.9	16.2	-112.65	-98.7	-23.4	358.8	327.0	31.75	11.300	
7,500.0	7,358.0	7,568.5	7,480.3	17.8	16.7	-115.43	-98.7	-112.4	366.5	334.1	32.34	11.330	
7,600.0	7,401.0	7,697.5	7,552.5	18.9	17.5	-117.63	-98.7	-219.0	373.2	339.7	33.57	11.119	
7,700.0	7,431.1	7,830.3	7,605.7	20.4	19.0	-119.17	-98.7	-340.5	378.3	342.7	35.65	10.614	
7,800.0	7,447.7	7,965.7	7,635.9	22.1	21.0	-120.02	-98.7	-472.3	381.3	342.6	38.62	9.873	
7,900.0	7,451.0	8,090.7	7,642.0	24.0	23.3	-120.19	-98.7	-597.1	381.8	339.7	42.17	9.056	
8,000.0	7,451.0	8,190.7	7,642.0	26.0	25.3	-120.19	-98.7	-697.1	381.8	336.2	45.65	8.364	
8,100.0	7,451.0	8,290.7	7,642.0	28.2	27.4	-120.19	-98.7	-797.1	381.8	332.5	49.38	7.733	
8,200.0	7,451.0	8,390.7	7,642.0	30.5	29.7	-120.19	-98.7	-897.1	381.8	328.5	53.30	7.164	
8,300.0	7,451.0	8,490.7	7,642.0	32.8	32.0	-120.19	-98.7	-997.1	381.8	324.5	57.37	6.656	
8,400.0	7,451.0	8,590.7	7,642.0	35.2	34.4	-120.19	-98.7	-1,097.1	381.8	320.3	61.57	6.202	
8,500.0	7,451.0	8,690.7	7,642.0	37.7	36.9	-120.19	-98.7	-1,197.1	381.8	316.0	65.86	5.798	
8,600.0	7,451.0	8,790.7	7,642.0	40.2	39.4	-120.19	-98.7	-1,297.1	381.8	311.6	70.23	5.437	
8,700.0	7,451.0	8,890.7	7,642.0	42.8	41.9	-120.19	-98.7	-1,397.1	381.8	307.2	74.67	5.114	
8,800.0	7,451.0	8,990.7	7,642.0	45.4	44.5	-120.19	-98.7	-1,497.1	381.8	302.7	79.17	4.823	
8,900.0	7,451.0	9,090.7	7,642.0	48.0	47.1	-120.19	-98.7	-1,597.1	381.8	298.1	83.71	4.561	
9,000.0	7,451.0	9,190.7	7,642.0	50.6	49.7	-120.19	-98.7	-1,697.1	381.8	293.6	88.29	4.325	
9,100.0	7,451.0	9,290.7	7,642.0	53.2	52.4	-120.19	-98.7	-1,797.1	381.8	288.9	92.91	4.110	
9,200.0	7,451.0	9,390.7	7,642.0	55.9	55.0	-120.19	-98.7	-1,897.1	381.8	284.3	97.55	3.914	
9,300.0	7,451.0	9,490.7	7,642.0	58.6	57.7	-120.19	-98.7	-1,997.1	381.8	279.6	102.22	3.736	
9,400.0	7,451.0	9,590.7	7,642.0	61.3	60.4	-120.19	-98.7	-2,097.1	381.8	274.9	106.91	3.572	
9,500.0	7,451.0	9,690.7	7,642.0	64.0	63.1	-120.19	-98.7	-2,197.1	381.8	270.2	111.62	3.421	
9,600.0	7,451.0	9,790.7	7,642.0	66.7	65.8	-120.19	-98.7	-2,297.1	381.8	265.5	116.35	3.282	
9,700.0	7,451.0	9,890.7	7,642.0	69.4	68.5	-120.19	-98.7	-2,397.1	381.8	260.8	121.09	3.154	
9,800.0	7,451.0	9,990.7	7,642.0	72.1	71.2	-120.19	-98.7	-2,497.1	381.8	256.0	125.84	3.034	
9,900.0	7,451.0	10,090.7	7,642.0	74.8	73.9	-120.19	-98.7	-2,597.1	381.8	251.2	130.60	2.924	
10,000.0	7,451.0	10,190.7	7,642.0	77.6	76.7	-120.19	-98.7	-2,697.1	381.8	246.5	135.38	2.821	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Phelps A-32NHZ
Project:	SEC.32-T1N-R66W	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Phelps A-32NHZ	**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 (10-28-13)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 12-32CHZ - Wellbore #1 - Plan #1 (10-28

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
10,100.0	7,451.0	10,290.7	7,642.0	80.3	79.4	-120.19	-98.7	-2,797.1	381.8	241.7	140.16	2.724	
10,200.0	7,451.0	10,390.7	7,642.0	83.0	82.1	-120.19	-98.7	-2,897.1	381.8	236.9	144.95	2.634	
10,300.0	7,451.0	10,490.7	7,642.0	85.8	84.9	-120.19	-98.7	-2,997.1	381.8	232.1	149.76	2.550	
10,400.0	7,451.0	10,590.7	7,642.0	88.5	87.6	-120.19	-98.7	-3,097.1	381.8	227.3	154.56	2.471	
10,500.0	7,451.0	10,690.7	7,642.0	91.3	90.4	-120.19	-98.7	-3,197.1	381.8	222.5	159.38	2.396	
10,600.0	7,451.0	10,790.7	7,642.0	94.0	93.1	-120.19	-98.7	-3,297.1	381.8	217.7	164.19	2.326	
10,700.0	7,451.0	10,890.7	7,642.0	96.8	95.9	-120.19	-98.7	-3,397.1	381.8	212.8	169.02	2.259	
10,800.0	7,451.0	10,990.7	7,642.0	99.6	98.7	-120.19	-98.7	-3,497.1	381.8	208.0	173.85	2.196	
10,900.0	7,451.0	11,090.7	7,642.0	102.3	101.4	-120.19	-98.7	-3,597.1	381.8	203.2	178.68	2.137	
11,000.0	7,451.0	11,190.7	7,642.0	105.1	104.2	-120.19	-98.7	-3,697.1	381.8	198.3	183.52	2.081	
11,100.0	7,451.0	11,290.7	7,642.0	107.9	107.0	-120.19	-98.7	-3,797.1	381.8	193.5	188.36	2.027	
11,200.0	7,451.0	11,390.7	7,642.0	110.6	109.7	-120.19	-98.7	-3,897.1	381.8	188.6	193.20	1.976	
11,300.0	7,451.0	11,490.7	7,642.0	113.4	112.5	-120.19	-98.7	-3,997.1	381.8	183.8	198.05	1.928	
11,400.0	7,451.0	11,590.7	7,642.0	116.2	115.3	-120.19	-98.7	-4,097.1	381.8	178.9	202.90	1.882	
11,500.0	7,451.0	11,690.7	7,642.0	119.0	118.0	-120.19	-98.7	-4,197.1	381.8	174.1	207.75	1.838	
11,600.0	7,451.0	11,790.7	7,642.0	121.7	120.8	-120.19	-98.7	-4,297.1	381.8	169.2	212.61	1.796	
11,700.0	7,451.0	11,890.7	7,642.0	124.5	123.6	-120.19	-98.7	-4,397.1	381.8	164.4	217.47	1.756	
11,800.0	7,451.0	11,990.7	7,642.0	127.3	126.4	-120.19	-98.7	-4,497.1	381.8	159.5	222.33	1.717	
11,900.0	7,451.0	12,090.7	7,642.0	130.1	129.2	-120.19	-98.7	-4,597.1	381.8	154.7	227.19	1.681	
11,930.7	7,451.0	12,121.4	7,642.0	130.6	130.0	-120.19	-98.7	-4,627.8	381.8	153.4	228.41	1.672	
11,938.6	7,451.0	12,129.2	7,642.0	130.7	130.2	-120.19	-98.7	-4,635.5	381.8	153.1	228.72	1.669	SF

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Phelps A-32NHZ
Project:	SEC.32-T1N-R66W	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Phelps A-32NHZ	**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 (10-28-13)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 12-32NHZ - Wellbore #1 - Plan #1 (10-28

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	-102.26	-25.5	-117.4	120.1				
100.0	100.0	99.0	99.0	0.1	0.1	-102.26	-25.5	-117.4	120.1	119.9	0.22	537.064	
200.0	200.0	199.0	199.0	0.3	0.3	-102.26	-25.5	-117.4	120.1	119.4	0.67	178.724	
300.0	300.0	299.0	299.0	0.6	0.6	-102.26	-25.5	-117.4	120.1	119.0	1.12	107.091	
400.0	400.0	399.0	399.0	0.8	0.8	-102.26	-25.5	-117.4	120.1	118.5	1.57	76.450	
500.0	500.0	499.0	499.0	1.0	1.0	-102.26	-25.5	-117.4	120.1	118.1	2.02	59.442	
600.0	600.0	599.0	599.0	1.2	1.2	-102.26	-25.5	-117.4	120.1	117.6	2.47	48.625	
700.0	700.0	699.0	699.0	1.5	1.5	-102.26	-25.5	-117.4	120.1	117.2	2.92	41.138	
800.0	800.0	799.0	799.0	1.7	1.7	-102.26	-25.5	-117.4	120.1	116.7	3.37	35.649	CC, ES
900.0	900.0	899.0	899.0	1.9	1.9	-135.78	-25.5	-117.4	121.4	117.5	3.82	31.802	
1,000.0	999.8	998.8	998.8	2.1	2.1	-137.40	-25.5	-117.4	125.2	120.9	4.26	29.380	
1,100.0	1,099.6	1,098.6	1,098.6	2.4	2.4	-139.44	-25.5	-117.4	130.3	125.6	4.71	27.683	
1,200.0	1,199.4	1,198.4	1,198.4	2.6	2.6	-141.33	-25.5	-117.4	135.6	130.5	5.16	26.297	
1,300.0	1,299.1	1,298.1	1,298.1	2.8	2.8	-143.07	-25.5	-117.4	141.0	135.4	5.61	25.150	
1,400.0	1,398.9	1,397.9	1,397.9	3.1	3.0	-144.68	-25.5	-117.4	146.6	140.5	6.06	24.190	
1,500.0	1,498.7	1,497.7	1,497.7	3.3	3.3	-146.18	-25.5	-117.4	152.3	145.8	6.51	23.378	
1,600.0	1,598.4	1,597.4	1,597.4	3.6	3.5	-147.56	-25.5	-117.4	158.0	151.1	6.97	22.684	
1,700.0	1,698.2	1,697.2	1,697.2	3.8	3.7	-148.85	-25.5	-117.4	163.9	156.5	7.42	22.086	
1,800.0	1,797.9	1,796.9	1,796.9	4.1	3.9	-150.05	-25.5	-117.4	169.8	161.9	7.87	21.566	
1,900.0	1,897.7	1,896.7	1,896.7	4.3	4.2	-151.17	-25.5	-117.4	175.8	167.5	8.33	21.111	
2,000.0	1,997.5	1,996.5	1,996.5	4.5	4.4	-152.21	-25.5	-117.4	181.8	173.1	8.78	20.710	
2,100.0	2,097.2	2,096.6	2,096.6	4.8	4.6	-153.69	-26.9	-116.5	187.9	178.7	9.21	20.403	
2,200.0	2,197.0	2,196.3	2,196.1	5.0	4.8	-156.09	-31.1	-113.6	193.9	184.3	9.61	20.183	
2,300.0	2,296.8	2,295.3	2,294.8	5.3	4.9	-159.31	-38.2	-108.9	200.5	190.5	10.02	20.016	
2,400.0	2,396.5	2,393.5	2,392.3	5.6	5.1	-163.21	-48.0	-102.4	208.0	197.6	10.43	19.934	
2,500.0	2,496.3	2,492.0	2,489.9	5.8	5.3	-167.17	-58.8	-95.2	216.6	205.8	10.87	19.934	
2,600.0	2,596.1	2,590.6	2,587.6	6.1	5.6	-170.82	-69.7	-88.0	226.3	215.0	11.31	19.999	
2,700.0	2,695.8	2,689.1	2,685.3	6.3	5.8	-174.16	-80.6	-80.7	236.7	225.0	11.77	20.114	
2,800.0	2,795.6	2,787.6	2,782.9	6.6	6.0	-177.22	-91.4	-73.5	248.0	235.7	12.23	20.268	
2,900.0	2,895.3	2,886.1	2,880.6	6.8	6.3	179.99	-102.3	-66.3	259.8	247.1	12.70	20.453	
3,000.0	2,995.1	2,984.7	2,978.2	7.1	6.6	177.45	-113.2	-59.0	272.3	259.1	13.18	20.660	
3,100.0	3,094.9	3,083.2	3,075.9	7.3	6.8	175.13	-124.1	-51.8	285.2	271.5	13.66	20.883	
3,200.0	3,194.6	3,181.7	3,173.5	7.6	7.1	173.01	-134.9	-44.6	298.5	284.4	14.14	21.118	
3,300.0	3,294.4	3,280.2	3,271.2	7.8	7.4	171.08	-145.8	-37.3	312.2	297.6	14.62	21.359	
3,400.0	3,394.2	3,378.7	3,368.8	8.1	7.7	169.30	-156.7	-30.1	326.2	311.1	15.10	21.605	
3,500.0	3,493.9	3,477.3	3,466.5	8.3	7.9	167.68	-167.5	-22.9	340.6	325.0	15.59	21.852	
3,600.0	3,593.7	3,575.8	3,564.1	8.6	8.2	166.18	-178.4	-15.7	355.1	339.1	16.07	22.098	
3,700.0	3,693.5	3,674.3	3,661.8	8.8	8.5	164.80	-189.3	-8.4	369.9	353.4	16.56	22.343	
3,800.0	3,793.2	3,772.8	3,759.4	9.1	8.8	163.53	-200.1	-1.2	384.9	367.9	17.04	22.584	
3,900.0	3,893.0	3,871.3	3,857.1	9.3	9.1	162.35	-211.0	6.0	400.1	382.5	17.53	22.821	
4,000.0	3,992.7	3,969.9	3,954.7	9.6	9.4	161.26	-221.9	13.3	415.4	397.3	18.02	23.053	
4,100.0	4,092.5	4,068.4	4,052.4	9.9	9.7	160.25	-232.8	20.5	430.8	412.3	18.50	23.280	
4,200.0	4,192.3	4,166.9	4,150.0	10.1	10.0	159.31	-243.6	27.7	446.4	427.4	18.99	23.502	
4,300.0	4,292.0	4,265.4	4,247.7	10.4	10.3	158.43	-254.5	35.0	462.0	442.6	19.48	23.718	
4,400.0	4,391.8	4,364.0	4,345.3	10.6	10.7	157.60	-265.4	42.2	477.8	457.9	19.97	23.928	
4,500.0	4,491.6	4,462.5	4,443.0	10.9	11.0	156.83	-276.2	49.4	493.7	473.2	20.46	24.132	
4,600.0	4,591.3	4,561.0	4,540.6	11.1	11.3	156.11	-287.1	56.7	509.6	488.7	20.95	24.331	
4,700.0	4,691.1	4,659.5	4,638.3	11.4	11.6	155.43	-298.0	63.9	525.7	504.2	21.44	24.524	
4,800.0	4,790.9	4,758.0	4,736.0	11.6	11.9	154.80	-308.9	71.1	541.8	519.8	21.92	24.711	
4,900.0	4,890.7	4,856.7	4,833.8	11.9	12.2	154.25	-319.7	78.4	556.7	534.3	22.41	24.842	
5,000.0	4,990.7	4,955.7	4,931.9	12.0	12.6	153.57	-330.7	85.6	568.7	545.8	22.84	24.896	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Phelps A-32NHZ
Project:	SEC.32-T1N-R66W	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Phelps A-32NHZ	**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 (10-28-13)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 12-32NHZ - Wellbore #1 - Plan #1 (10-28

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
5,100.0	5,090.7	5,054.8	5,030.1	12.2	12.9	-174.31	-341.6	92.9	578.9	554.8	24.11	24.008	
5,200.0	5,190.7	5,153.9	5,128.3	12.4	13.2	-175.13	-352.5	100.2	589.3	564.6	24.62	23.930	
5,300.0	5,290.7	5,253.0	5,226.6	12.6	13.5	-175.91	-363.5	107.5	599.7	574.6	25.14	23.855	
5,400.0	5,390.7	5,352.2	5,324.8	12.8	13.8	-176.67	-374.4	114.7	610.3	584.6	25.66	23.786	
5,500.0	5,490.7	5,451.3	5,423.1	13.0	14.2	-177.40	-385.4	122.0	621.0	594.8	26.18	23.720	
5,600.0	5,590.7	5,550.4	5,521.3	13.2	14.5	-178.11	-396.3	129.3	631.7	605.0	26.70	23.658	
5,700.0	5,690.7	5,649.5	5,619.6	13.4	14.8	-178.80	-407.2	136.6	642.6	615.4	27.23	23.600	
5,800.0	5,790.7	5,771.5	5,740.8	13.6	15.1	-179.48	-418.6	144.1	651.8	624.1	27.75	23.488	
5,900.0	5,890.7	5,894.7	5,863.6	13.8	15.4	-179.90	-425.7	148.8	657.6	629.3	28.23	23.294	
6,000.0	5,990.7	6,018.3	5,987.2	14.1	15.6	179.95	-428.3	150.6	659.7	631.1	28.67	23.013	
6,100.0	6,090.7	6,120.7	6,089.7	14.3	15.8	179.95	-428.4	150.6	659.8	630.7	29.06	22.705	
6,200.0	6,190.7	6,220.7	6,189.7	14.5	16.0	179.95	-428.4	150.6	659.8	630.3	29.44	22.411	
6,300.0	6,290.7	6,320.7	6,289.7	14.7	16.1	179.95	-428.4	150.6	659.8	629.9	29.82	22.123	
6,400.0	6,390.7	6,420.7	6,389.7	14.9	16.3	179.95	-428.4	150.6	659.8	629.5	30.21	21.841	
6,500.0	6,490.7	6,520.7	6,489.7	15.1	16.5	179.95	-428.4	150.6	659.8	629.2	30.59	21.565	
6,600.0	6,590.7	6,620.7	6,589.7	15.3	16.6	179.95	-428.4	150.6	659.8	628.8	30.98	21.295	
6,700.0	6,690.7	6,720.7	6,689.7	15.5	16.8	179.95	-428.4	150.6	659.8	628.4	31.37	21.030	
6,800.0	6,790.6	6,820.8	6,789.7	15.7	17.0	-90.07	-428.4	148.6	659.8	629.1	30.65	21.527	
6,900.0	6,889.4	6,920.9	6,888.7	15.8	17.1	-90.09	-428.4	134.1	659.8	628.8	30.92	21.339	
7,000.0	6,985.3	7,021.1	6,984.7	16.0	17.1	-90.11	-428.4	106.0	659.8	628.6	31.13	21.196	
7,100.0	7,076.2	7,121.3	7,075.9	16.1	17.1	-90.13	-428.4	64.7	659.8	628.4	31.34	21.052	
7,200.0	7,160.5	7,221.5	7,160.5	16.1	17.2	-90.15	-428.4	11.1	659.8	628.1	31.66	20.839	
7,300.0	7,236.5	7,321.8	7,236.8	16.4	17.2	-90.16	-428.4	-53.8	659.8	627.5	32.23	20.470	
7,400.0	7,302.8	7,422.0	7,303.3	16.9	17.2	-90.17	-428.4	-128.7	659.8	626.5	33.21	19.866	
7,500.0	7,358.0	7,522.3	7,358.7	17.8	17.2	-90.18	-428.4	-212.2	659.8	625.0	34.74	18.991	
7,600.0	7,401.0	7,622.6	7,402.0	18.9	18.1	-90.18	-428.4	-302.6	659.8	622.9	36.90	17.878	
7,700.0	7,431.1	7,722.9	7,432.2	20.4	19.5	-90.18	-428.4	-398.1	659.8	620.1	39.69	16.623	
7,800.0	7,447.7	7,823.2	7,448.7	22.1	21.1	-90.18	-428.4	-497.0	659.8	616.7	43.02	15.337	
7,900.0	7,451.0	7,923.4	7,452.0	24.0	23.0	-90.17	-428.4	-597.1	659.8	613.0	46.75	14.111	
8,000.0	7,451.0	8,023.4	7,452.0	26.0	25.0	-90.17	-428.4	-697.1	659.8	609.0	50.80	12.986	
8,100.0	7,451.0	8,123.4	7,452.0	28.2	27.2	-90.17	-428.4	-797.1	659.8	604.6	55.13	11.967	
8,200.0	7,451.0	8,223.4	7,452.0	30.5	29.4	-90.17	-428.4	-897.1	659.8	600.1	59.67	11.057	
8,300.0	7,451.0	8,323.4	7,452.0	32.8	31.8	-90.17	-428.4	-997.1	659.8	595.4	64.38	10.248	
8,400.0	7,451.0	8,423.4	7,452.0	35.2	34.2	-90.17	-428.4	-1,097.1	659.8	590.5	69.22	9.531	
8,500.0	7,451.0	8,523.4	7,452.0	37.7	36.7	-90.17	-428.4	-1,197.1	659.8	585.6	74.17	8.895	
8,600.0	7,451.0	8,623.4	7,452.0	40.2	39.2	-90.17	-428.4	-1,297.1	659.8	580.5	79.21	8.329	
8,700.0	7,451.0	8,723.4	7,452.0	42.8	41.7	-90.17	-428.4	-1,397.1	659.8	575.4	84.32	7.824	
8,800.0	7,451.0	8,823.4	7,452.0	45.4	44.3	-90.17	-428.4	-1,497.1	659.8	570.3	89.49	7.372	
8,900.0	7,451.0	8,923.4	7,452.0	48.0	46.9	-90.17	-428.4	-1,597.1	659.8	565.0	94.71	6.966	
9,000.0	7,451.0	9,023.4	7,452.0	50.6	49.5	-90.17	-428.4	-1,697.1	659.8	559.8	99.97	6.599	
9,100.0	7,451.0	9,123.4	7,452.0	53.2	52.2	-90.17	-428.4	-1,797.1	659.8	554.5	105.27	6.267	
9,200.0	7,451.0	9,223.4	7,452.0	55.9	54.8	-90.17	-428.4	-1,897.1	659.8	549.2	110.60	5.965	
9,300.0	7,451.0	9,323.4	7,452.0	58.6	57.5	-90.17	-428.4	-1,997.1	659.8	543.8	115.96	5.690	
9,400.0	7,451.0	9,423.4	7,452.0	61.3	60.2	-90.17	-428.4	-2,097.1	659.8	538.4	121.33	5.438	
9,500.0	7,451.0	9,523.4	7,452.0	64.0	62.9	-90.17	-428.4	-2,197.1	659.8	533.0	126.73	5.206	
9,600.0	7,451.0	9,623.4	7,452.0	66.7	65.6	-90.17	-428.4	-2,297.1	659.8	527.6	132.15	4.993	
9,700.0	7,451.0	9,723.4	7,452.0	69.4	68.3	-90.17	-428.4	-2,397.1	659.8	522.2	137.58	4.795	
9,800.0	7,451.0	9,823.4	7,452.0	72.1	71.0	-90.17	-428.4	-2,497.1	659.8	516.7	143.02	4.613	
9,900.0	7,451.0	9,923.4	7,452.0	74.8	73.8	-90.17	-428.4	-2,597.1	659.8	511.3	148.48	4.443	
10,000.0	7,451.0	10,023.4	7,452.0	77.6	76.5	-90.17	-428.4	-2,697.1	659.8	505.8	153.95	4.286	
10,100.0	7,451.0	10,123.4	7,452.0	80.3	79.2	-90.17	-428.4	-2,797.1	659.8	500.3	159.42	4.138	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Phelps A-32NHZ
Project:	SEC.32-T1N-R66W	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Phelps A-32NHZ	**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 (10-28-13)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 12-32NHZ - Wellbore #1 - Plan #1 (10-28

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	7,451.0	10,223.4	7,452.0	83.0	82.0	-90.17	-428.4	-2,897.1	659.8	494.8	164.91	4.001	
10,300.0	7,451.0	10,323.4	7,452.0	85.8	84.7	-90.17	-428.4	-2,997.1	659.8	489.3	170.41	3.872	
10,400.0	7,451.0	10,423.4	7,452.0	88.5	87.5	-90.17	-428.4	-3,097.1	659.8	483.8	175.91	3.751	
10,500.0	7,451.0	10,523.4	7,452.0	91.3	90.2	-90.17	-428.4	-3,197.1	659.8	478.3	181.42	3.637	
10,600.0	7,451.0	10,623.4	7,452.0	94.0	93.0	-90.17	-428.4	-3,297.1	659.8	472.8	186.93	3.529	
10,700.0	7,451.0	10,723.4	7,452.0	96.8	95.7	-90.17	-428.4	-3,397.1	659.8	467.3	192.45	3.428	
10,800.0	7,451.0	10,823.4	7,452.0	99.6	98.5	-90.17	-428.4	-3,497.1	659.8	461.8	197.97	3.333	
10,900.0	7,451.0	10,923.4	7,452.0	102.3	101.3	-90.17	-428.4	-3,597.1	659.8	456.2	203.50	3.242	
11,000.0	7,451.0	11,023.4	7,452.0	105.1	104.0	-90.17	-428.4	-3,697.1	659.8	450.7	209.04	3.156	
11,100.0	7,451.0	11,123.4	7,452.0	107.9	106.8	-90.17	-428.4	-3,797.1	659.8	445.2	214.57	3.075	
11,200.0	7,451.0	11,223.4	7,452.0	110.6	109.6	-90.17	-428.4	-3,897.1	659.8	439.6	220.11	2.997	
11,300.0	7,451.0	11,323.4	7,452.0	113.4	112.3	-90.17	-428.4	-3,997.1	659.8	434.1	225.66	2.924	
11,400.0	7,451.0	11,423.4	7,452.0	116.2	115.1	-90.17	-428.4	-4,097.1	659.7	428.5	231.20	2.854	
11,500.0	7,451.0	11,523.4	7,452.0	119.0	117.9	-90.17	-428.4	-4,197.1	659.7	423.0	236.75	2.787	
11,600.0	7,451.0	11,623.4	7,452.0	121.7	120.7	-90.17	-428.4	-4,297.1	659.7	417.4	242.31	2.723	
11,700.0	7,451.0	11,723.4	7,452.0	124.5	123.4	-90.17	-428.4	-4,397.1	659.7	411.9	247.86	2.662	
11,800.0	7,451.0	11,823.4	7,452.0	127.3	126.2	-90.17	-428.4	-4,497.1	659.7	406.3	253.42	2.603	
11,900.0	7,451.0	11,923.4	7,452.0	130.1	129.0	-90.17	-428.4	-4,597.1	659.7	400.8	258.98	2.547	
11,938.6	7,451.0	11,962.0	7,452.0	130.7	130.1	-90.17	-428.4	-4,635.6	659.7	399.0	260.74	2.530 SF	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Phelps A-32NHZ
Project:	SEC.32-T1N-R66W	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Phelps A-32NHZ	**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 (10-28-13)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps A-32CHZ - Wellbore #1 - Plan #1 (10-28-

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	-102.24	-4.7	-21.8	22.4				
100.0	100.0	100.0	100.0	0.1	0.1	-102.24	-4.7	-21.8	22.4	22.1	0.22	99.471	
200.0	200.0	200.0	200.0	0.3	0.3	-102.24	-4.7	-21.8	22.4	21.7	0.67	33.157	
300.0	300.0	300.0	300.0	0.6	0.6	-102.24	-4.7	-21.8	22.4	21.2	1.12	19.894	
400.0	400.0	400.0	400.0	0.8	0.8	-102.24	-4.7	-21.8	22.4	20.8	1.57	14.210	
500.0	500.0	500.0	500.0	1.0	1.0	-102.24	-4.7	-21.8	22.4	20.3	2.02	11.052	
600.0	600.0	600.0	600.0	1.2	1.2	-102.24	-4.7	-21.8	22.4	19.9	2.47	9.043	
700.0	700.0	700.3	700.3	1.5	1.5	-98.09	-3.0	-21.4	21.6	18.7	2.92	7.396	
800.0	800.0	800.4	800.2	1.7	1.7	-84.22	2.0	-20.0	20.1	16.8	3.37	5.972	
831.9	831.9	832.3	832.0	1.8	1.8	-110.80	4.4	-19.4	20.0	16.4	3.52	5.677	CC, ES
900.0	900.0	900.1	899.6	1.9	1.9	-97.34	10.4	-17.8	20.8	17.0	3.83	5.429	
1,000.0	999.8	999.8	998.6	2.1	2.2	-82.51	21.6	-14.8	24.4	20.1	4.30	5.676	
1,100.0	1,099.6	1,099.6	1,097.7	2.4	2.4	-74.64	33.1	-11.7	28.9	24.1	4.79	6.046	
1,200.0	1,199.4	1,199.5	1,196.8	2.6	2.7	-68.96	44.6	-8.7	33.8	28.6	5.27	6.418	
1,300.0	1,299.1	1,299.3	1,295.9	2.8	3.0	-64.76	56.1	-5.6	39.0	33.2	5.76	6.769	
1,400.0	1,398.9	1,399.1	1,395.1	3.1	3.3	-61.55	67.6	-2.5	44.3	38.1	6.25	7.090	
1,500.0	1,498.7	1,499.0	1,494.2	3.3	3.6	-59.03	79.1	0.5	49.7	43.0	6.74	7.380	
1,600.0	1,598.4	1,598.8	1,593.3	3.6	3.9	-57.01	90.6	3.6	55.2	48.0	7.23	7.642	
1,700.0	1,698.2	1,698.6	1,692.4	3.8	4.2	-55.35	102.1	6.7	60.8	53.1	7.72	7.877	
1,800.0	1,797.9	1,798.5	1,791.5	4.1	4.5	-53.98	113.6	9.7	66.4	58.2	8.21	8.089	
1,900.0	1,897.7	1,898.3	1,890.7	4.3	4.8	-52.82	125.1	12.8	72.0	63.3	8.70	8.281	
2,000.0	1,997.5	1,998.1	1,989.8	4.5	5.1	-51.83	136.6	15.9	77.7	68.5	9.19	8.455	
2,100.0	2,097.2	2,098.0	2,088.9	4.8	5.4	-50.97	148.1	18.9	83.4	73.7	9.68	8.614	
2,200.0	2,197.0	2,197.8	2,188.0	5.0	5.7	-50.22	159.6	22.0	89.1	78.9	10.17	8.758	
2,300.0	2,296.8	2,297.6	2,287.1	5.3	6.0	-49.56	171.1	25.1	94.8	84.1	10.66	8.891	
2,400.0	2,396.5	2,397.5	2,386.3	5.6	6.3	-48.98	182.5	28.1	100.5	89.3	11.15	9.012	
2,500.0	2,496.3	2,497.3	2,485.4	5.8	6.6	-48.46	194.0	31.2	106.2	94.6	11.64	9.125	
2,600.0	2,596.1	2,597.1	2,584.5	6.1	6.9	-47.99	205.5	34.3	111.9	99.8	12.13	9.228	
2,700.0	2,695.8	2,696.9	2,683.6	6.3	7.2	-47.57	217.0	37.3	117.7	105.1	12.62	9.324	
2,800.0	2,795.6	2,796.8	2,782.7	6.6	7.5	-47.19	228.5	40.4	123.4	110.3	13.11	9.414	
2,900.0	2,895.3	2,896.6	2,881.9	6.8	7.8	-46.84	240.0	43.5	129.2	115.6	13.60	9.497	
3,000.0	2,995.1	2,996.4	2,981.0	7.1	8.1	-46.53	251.5	46.5	134.9	120.8	14.09	9.574	
3,100.0	3,094.9	3,096.3	3,080.1	7.3	8.4	-46.23	263.0	49.6	140.7	126.1	14.58	9.647	
3,200.0	3,194.6	3,196.1	3,179.2	7.6	8.7	-45.96	274.5	52.7	146.5	131.4	15.08	9.715	
3,300.0	3,294.4	3,295.9	3,278.3	7.8	9.1	-45.71	286.0	55.7	152.2	136.7	15.57	9.779	
3,400.0	3,394.2	3,395.8	3,377.5	8.1	9.4	-45.48	297.5	58.8	158.0	141.9	16.06	9.839	
3,500.0	3,493.9	3,495.6	3,476.6	8.3	9.7	-45.27	309.0	61.9	163.8	147.2	16.55	9.896	
3,600.0	3,593.7	3,595.4	3,575.7	8.6	10.0	-45.07	320.5	64.9	169.5	152.5	17.04	9.949	
3,700.0	3,693.5	3,695.3	3,674.8	8.8	10.3	-44.88	332.0	68.0	175.3	157.8	17.53	10.000	
3,800.0	3,793.2	3,795.1	3,773.9	9.1	10.6	-44.71	343.5	71.1	181.1	163.1	18.02	10.048	
3,900.0	3,893.0	3,894.9	3,873.1	9.3	10.9	-44.54	355.0	74.1	186.9	168.4	18.51	10.094	
4,000.0	3,992.7	3,994.8	3,972.2	9.6	11.2	-44.39	366.5	77.2	192.7	173.7	19.01	10.137	
4,100.0	4,092.5	4,094.6	4,071.3	9.9	11.5	-44.24	378.0	80.3	198.4	178.9	19.50	10.178	
4,200.0	4,192.3	4,194.4	4,170.4	10.1	11.8	-44.11	389.5	83.4	204.2	184.2	19.99	10.217	
4,300.0	4,292.0	4,294.2	4,269.5	10.4	12.1	-43.98	401.0	86.4	210.0	189.5	20.48	10.254	
4,400.0	4,391.8	4,394.1	4,368.7	10.6	12.5	-43.86	412.5	89.5	215.8	194.8	20.97	10.290	
4,500.0	4,491.6	4,493.9	4,467.8	10.9	12.8	-43.74	423.9	92.6	221.6	200.1	21.46	10.323	
4,600.0	4,591.3	4,593.7	4,566.9	11.1	13.1	-43.63	435.4	95.6	227.4	205.4	21.96	10.356	
4,700.0	4,691.1	4,693.6	4,666.0	11.4	13.4	-43.52	446.9	98.7	233.2	210.7	22.45	10.387	
4,800.0	4,790.9	4,793.4	4,765.1	11.6	13.7	-43.42	458.4	101.8	238.9	216.0	22.94	10.417	
4,900.0	4,890.7	4,893.2	4,864.2	11.9	14.0	-43.20	469.9	104.8	245.7	222.3	23.38	10.509	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Phelps A-32NHZ
Project:	SEC.32-T1N-R66W	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Phelps A-32NHZ	**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 (10-28-13)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps A-32CHZ - Wellbore #1 - Plan #1 (10-28-

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
5,000.0	4,990.7	4,992.7	4,963.0	12.0	14.3	-42.50	481.4	107.9	255.0	231.3	23.74	10.743	
5,100.0	5,090.7	5,091.9	5,061.6	12.2	14.6	-8.50	492.8	110.9	265.9	239.9	26.00	10.226	
5,200.0	5,190.7	5,191.2	5,160.1	12.4	14.9	-7.52	504.2	114.0	276.9	250.3	26.56	10.427	
5,300.0	5,290.7	5,290.5	5,258.7	12.6	15.2	-6.61	515.7	117.0	288.0	260.9	27.10	10.624	
5,400.0	5,390.7	5,389.8	5,357.3	12.8	15.5	-5.78	527.1	120.1	299.1	271.4	27.65	10.816	
5,500.0	5,490.7	5,489.1	5,455.9	13.0	15.8	-5.00	538.5	123.1	310.3	282.1	28.20	11.004	
5,600.0	5,590.7	5,588.4	5,554.5	13.2	16.2	-4.27	550.0	126.2	321.5	292.8	28.74	11.187	
5,700.0	5,690.7	5,687.7	5,653.0	13.4	16.5	-3.60	561.4	129.2	332.8	303.5	29.28	11.366	
5,800.0	5,790.7	5,787.0	5,751.6	13.6	16.8	-2.97	572.8	132.3	344.1	314.3	29.82	11.540	
5,900.0	5,890.7	5,886.2	5,850.2	13.8	17.1	-2.38	584.3	135.3	355.5	325.1	30.36	11.710	
6,000.0	5,990.7	5,985.5	5,948.8	14.1	17.4	-1.82	595.7	138.4	366.9	336.0	30.90	11.875	
6,100.0	6,090.7	6,084.8	6,047.4	14.3	17.7	-1.30	607.1	141.4	378.3	346.9	31.43	12.036	
6,200.0	6,190.7	6,184.1	6,145.9	14.5	18.0	-0.81	618.6	144.5	389.8	357.8	31.97	12.193	
6,300.0	6,290.7	6,296.9	6,258.1	14.7	18.3	-0.36	629.9	147.5	399.8	367.3	32.47	12.315	
6,400.0	6,390.7	6,412.4	6,373.3	14.9	18.5	-0.08	637.1	149.4	406.0	373.1	32.91	12.336	
6,500.0	6,490.7	6,528.3	6,489.2	15.1	18.7	0.02	639.7	150.1	408.3	375.0	33.31	12.257	
6,600.0	6,590.7	6,629.7	6,590.7	15.3	18.8	0.02	639.8	150.2	408.4	374.7	33.69	12.122	
6,700.0	6,690.7	6,729.7	6,690.7	15.5	19.0	0.02	639.8	150.2	408.4	374.3	34.07	11.986	
6,747.0	6,737.7	6,776.7	6,737.7	15.6	19.1	90.14	639.8	150.2	408.4	377.3	31.02	13.164	
6,800.0	6,790.6	6,829.7	6,790.6	15.7	19.2	90.33	639.8	150.2	408.4	377.1	31.23	13.077	
6,900.0	6,889.4	6,928.5	6,889.4	15.8	19.4	92.33	639.8	150.2	408.7	377.2	31.49	12.977	
7,000.0	6,985.3	7,028.2	6,989.0	16.0	19.5	95.76	639.8	147.4	410.6	378.9	31.67	12.966	
7,100.0	7,076.2	7,132.9	7,092.2	16.1	19.6	99.27	639.8	130.5	414.2	382.3	31.81	13.018	
7,200.0	7,160.5	7,242.1	7,196.1	16.1	19.7	102.63	639.8	97.2	419.1	387.1	31.99	13.101	
7,300.0	7,236.5	7,356.2	7,297.9	16.4	19.8	105.74	639.8	45.9	425.1	392.9	32.27	13.175	
7,400.0	7,302.8	7,475.3	7,394.1	16.9	19.9	108.53	639.8	-24.2	431.6	398.8	32.76	13.176	
7,500.0	7,358.0	7,599.5	7,480.6	17.8	20.0	110.91	639.8	-113.1	438.0	404.4	33.59	13.039	
7,600.0	7,401.0	7,728.2	7,552.6	18.9	20.4	112.81	639.8	-219.6	443.6	408.6	34.99	12.678	
7,700.0	7,431.1	7,860.7	7,605.7	20.4	21.4	114.16	639.8	-340.8	447.8	410.8	37.08	12.077	
7,800.0	7,447.7	7,995.9	7,635.8	22.1	23.1	114.92	639.8	-472.3	450.3	410.4	39.94	11.275	
7,900.0	7,451.0	8,120.9	7,642.0	24.0	25.2	115.07	639.8	-597.1	450.8	407.4	43.40	10.387	
8,000.0	7,451.0	8,220.9	7,642.0	26.0	27.2	115.07	639.8	-697.1	450.8	403.8	47.04	9.583	
8,100.0	7,451.0	8,320.9	7,642.0	28.2	29.2	115.07	639.8	-797.1	450.8	399.9	50.94	8.850	
8,200.0	7,451.0	8,420.9	7,642.0	30.5	31.4	115.07	639.8	-897.1	450.8	395.8	55.04	8.191	
8,300.0	7,451.0	8,520.9	7,642.0	32.8	33.7	115.07	639.8	-997.1	450.8	391.5	59.29	7.604	
8,400.0	7,451.0	8,620.9	7,642.0	35.2	36.0	115.07	639.8	-1,097.1	450.8	387.1	63.67	7.080	
8,500.0	7,451.0	8,720.9	7,642.0	37.7	38.4	115.07	639.8	-1,197.1	450.8	382.7	68.16	6.615	
8,600.0	7,451.0	8,820.9	7,642.0	40.2	40.9	115.07	639.8	-1,297.1	450.8	378.1	72.72	6.199	
8,700.0	7,451.0	8,920.9	7,642.0	42.8	43.4	115.07	639.8	-1,397.1	450.8	373.5	77.36	5.828	
8,800.0	7,451.0	9,020.9	7,642.0	45.4	45.9	115.07	639.8	-1,497.1	450.8	368.8	82.05	5.495	
8,900.0	7,451.0	9,120.9	7,642.0	48.0	48.5	115.07	639.8	-1,597.1	450.8	364.0	86.79	5.194	
9,000.0	7,451.0	9,220.9	7,642.0	50.6	51.1	115.07	639.8	-1,697.1	450.8	359.3	91.57	4.923	
9,100.0	7,451.0	9,320.9	7,642.0	53.2	53.7	115.07	639.8	-1,797.1	450.8	354.4	96.38	4.677	
9,200.0	7,451.0	9,420.9	7,642.0	55.9	56.3	115.07	639.8	-1,897.1	450.8	349.6	101.23	4.454	
9,300.0	7,451.0	9,520.9	7,642.0	58.6	59.0	115.07	639.8	-1,997.1	450.8	344.7	106.10	4.249	
9,400.0	7,451.0	9,620.9	7,642.0	61.3	61.6	115.07	639.8	-2,097.1	450.8	339.8	110.99	4.062	
9,500.0	7,451.0	9,720.9	7,642.0	64.0	64.3	115.07	639.8	-2,197.1	450.8	334.9	115.90	3.890	
9,600.0	7,451.0	9,820.9	7,642.0	66.7	67.0	115.07	639.8	-2,297.1	450.8	330.0	120.82	3.731	
9,700.0	7,451.0	9,920.9	7,642.0	69.4	69.7	115.07	639.8	-2,397.1	450.8	325.1	125.77	3.585	
9,800.0	7,451.0	10,020.9	7,642.0	72.1	72.4	115.07	639.8	-2,497.1	450.8	320.1	130.72	3.449	
9,900.0	7,451.0	10,120.9	7,642.0	74.8	75.1	115.07	639.8	-2,597.1	450.8	315.1	135.69	3.323	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Phelps A-32NHZ
Project:	SEC.32-T1N-R66W	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Phelps A-32NHZ	**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 (10-28-13)	**Offset TVD Reference:**	Offset Datum

Offset Design SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps A-32CHZ - Wellbore #1 - Plan #1 (10-28-

Offset Site Error: 0.0 ft

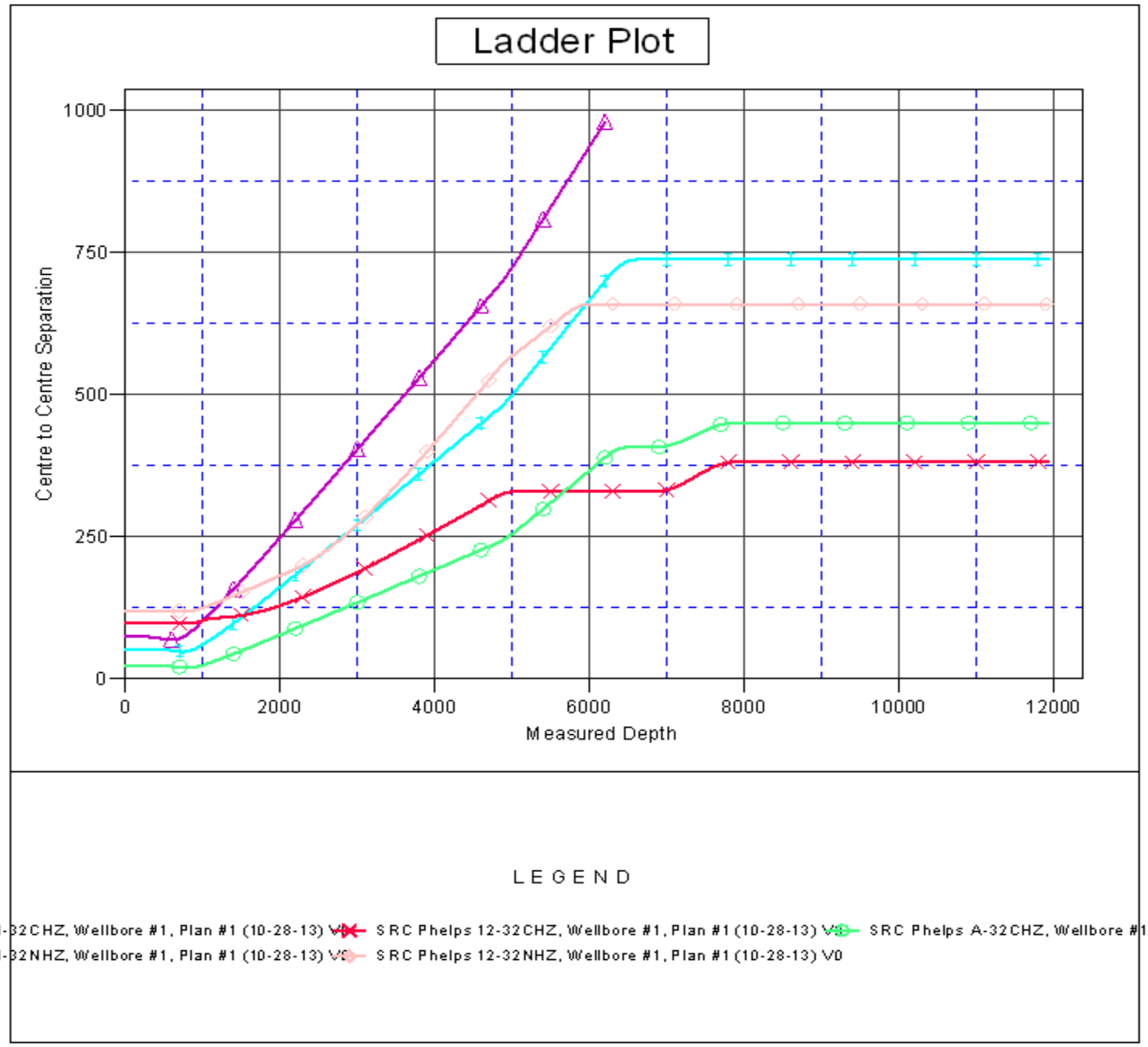
Survey Program: 0-MWD

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
10,000.0	7,451.0	10,220.9	7,642.0	77.6	77.8	115.07	639.8	-2,697.1	450.8	310.2	140.66	3.205	
10,100.0	7,451.0	10,320.9	7,642.0	80.3	80.5	115.07	639.8	-2,797.1	450.8	305.2	145.65	3.095	
10,200.0	7,451.0	10,420.9	7,642.0	83.0	83.2	115.07	639.8	-2,897.1	450.8	300.2	150.65	2.993	
10,300.0	7,451.0	10,520.9	7,642.0	85.8	86.0	115.07	639.8	-2,997.1	450.8	295.2	155.65	2.896	
10,400.0	7,451.0	10,620.9	7,642.0	88.5	88.7	115.07	639.8	-3,097.1	450.8	290.2	160.66	2.806	
10,500.0	7,451.0	10,720.9	7,642.0	91.3	91.5	115.07	639.8	-3,197.1	450.8	285.1	165.68	2.721	
10,600.0	7,451.0	10,820.9	7,642.0	94.0	94.2	115.07	639.8	-3,297.1	450.8	280.1	170.70	2.641	
10,700.0	7,451.0	10,920.9	7,642.0	96.8	96.9	115.07	639.8	-3,397.1	450.8	275.1	175.72	2.565	
10,800.0	7,451.0	11,020.9	7,642.0	99.6	99.7	115.07	639.8	-3,497.1	450.8	270.1	180.76	2.494	
10,900.0	7,451.0	11,120.9	7,642.0	102.3	102.4	115.07	639.8	-3,597.1	450.8	265.0	185.79	2.426	
11,000.0	7,451.0	11,220.9	7,642.0	105.1	105.2	115.07	639.8	-3,697.1	450.8	260.0	190.83	2.362	
11,100.0	7,451.0	11,320.9	7,642.0	107.9	108.0	115.07	639.8	-3,797.1	450.8	254.9	195.88	2.302	
11,200.0	7,451.0	11,420.9	7,642.0	110.6	110.7	115.07	639.8	-3,897.1	450.8	249.9	200.93	2.244	
11,300.0	7,451.0	11,520.9	7,642.0	113.4	113.5	115.07	639.8	-3,997.1	450.8	244.8	205.98	2.189	
11,400.0	7,451.0	11,620.9	7,642.0	116.2	116.3	115.07	639.8	-4,097.1	450.8	239.8	211.03	2.136	
11,500.0	7,451.0	11,720.9	7,642.0	119.0	119.0	115.07	639.8	-4,197.1	450.8	234.7	216.09	2.086	
11,600.0	7,451.0	11,820.9	7,642.0	121.7	121.8	115.07	639.8	-4,297.1	450.8	229.7	221.15	2.039	
11,700.0	7,451.0	11,920.9	7,642.0	124.5	124.6	115.07	639.8	-4,397.1	450.8	224.6	226.21	1.993	
11,800.0	7,451.0	12,020.9	7,642.0	127.3	127.3	115.07	639.8	-4,497.1	450.8	219.5	231.27	1.949	
11,900.0	7,451.0	12,120.9	7,642.0	130.1	130.1	115.07	639.8	-4,597.1	450.8	214.5	236.34	1.908	
11,919.9	7,451.0	12,140.8	7,642.0	130.4	130.7	115.07	639.8	-4,616.9	450.8	213.7	237.17	1.901	
11,938.6	7,451.0	12,158.6	7,642.0	130.7	131.2	115.07	639.8	-4,634.8	450.8	212.9	237.92	1.895	SF

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Phelps A-32NHZ
Project:	SEC.32-T1N-R66W	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Phelps A-32NHZ	**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 (10-28-13)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5031.0ft (Original Well Elev) Coordinates are relative to: SRC Phelps A-32NHZ
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: 0.46°



Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well SRC Phelps A-32NHZ
Project:	SEC.32-T1N-R66W	**TVD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	**MD Reference:**	WELL @ 5031.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	SRC Phelps A-32NHZ	**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 (10-28-13)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5031.0ft (Original Well Elev) Coordinates are relative to: SRC Phelps A-32NHZ
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: 0.46°