

# Synergy Resources

Well Name: **SRC Phelps 12-32CHZ**

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

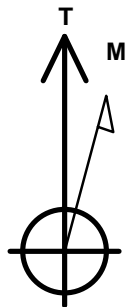
Ground Elevation: 5018.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1247300.85	3198168.37	40.010057	-104.792532	

Ensign Rig #12 - RKB - 12' WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 1781'FNL, 296'FEL	1.0	0.0	0.0	Point
BHL 1858'FNL, 460'FWL	7642.0	-77.9	-4540.0	Point



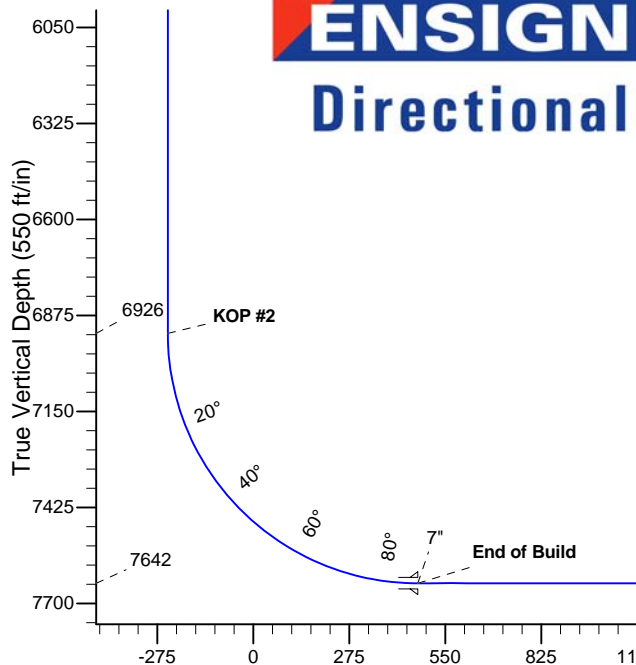
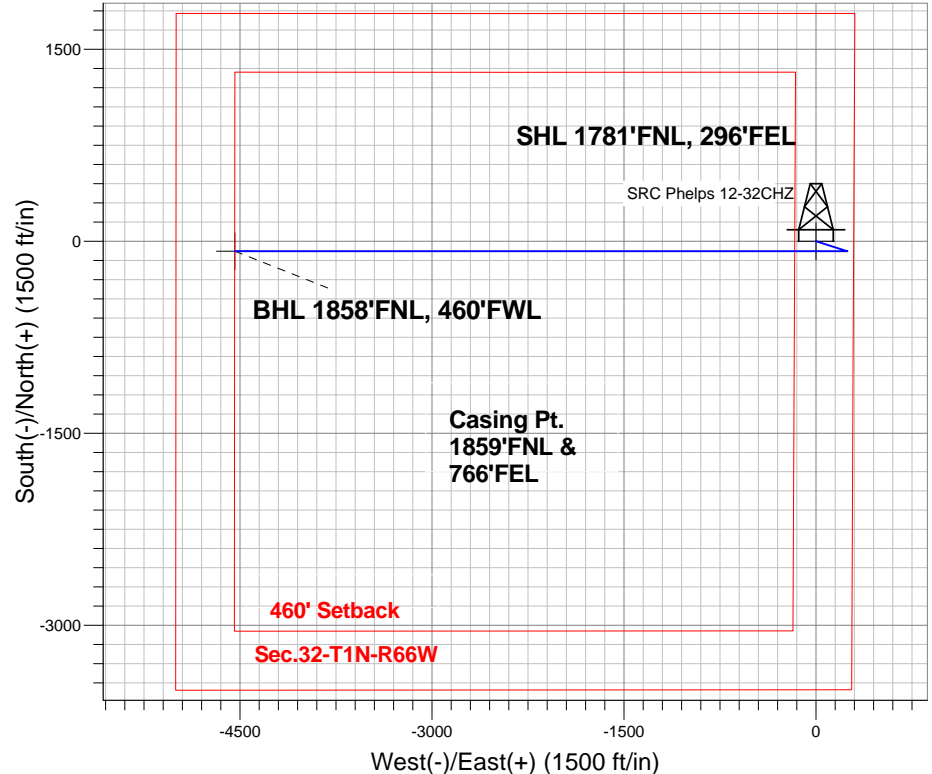
Azimuths to True North  
Magnetic North: 8.53°

Magnetic Field  
Strength: 52672.0snT  
Dip Angle: 66.65°  
Date: 10/28/2013  
Model: IGRF2010

SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W  
SRC Phelps 12-32CHZ  
Plan #1 (10-28-13)  
7:22, October 29 2013

## ANNOTATIONS

TVD	MD	Annotation
1000.0	1000.0	KOP #1
6925.8	6934.4	KOP #2
7642.0	8059.4	End of Build



## 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	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1193.9	3.88	107.57	1193.8	-2.0	6.3	2.00	107.57	-6.2	
4	4814.7	3.88	107.57	4806.2	-75.9	239.7	0.00	0.00	-238.4	
5	5008.6	0.00	0.00	5000.0	-77.9	246.0	2.00	180.00	-244.6	
6	6934.4	0.00	0.00	6925.8	-77.9	246.0	0.00	0.00	-244.6	
7	8059.4	90.00	270.00	7642.0	-77.9	-470.2	8.00	270.00	471.5	
8	12129.2	90.00	270.00	7642.0	-77.9	-4540.0	0.00	0.00	4540.6	BHL 1858'FNL, 460'FWL

BHL 1858'FNL, 460'FWL

Vertical Section at 269.02° (550 ft/in)



## **Synergy Resources**

**SEC.32-T1N-R66W**

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

**SRC Phelps 12-32CHZ**

**Wellbore #1**

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

## **Standard Planning Report**

**29 October, 2013**

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32CHZ
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Project:</b>	SEC.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Phelps 12-32CHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (10-28-13)		

<b>Project</b>	SEC.32-T1N-R66W, Weld County, Colorado		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		Using Well Reference Point
<b>Map Zone:</b>	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 12-32CHZ					
Well Position	+N-S	-20.8 ft	Northing:	1,247,300.85 ft	Latitude:	40.010057
	+E-W	-95.5 ft	Easting:	3,198,168.37 ft	Longitude:	-104.792532
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,018.0 ft

<b>Wellbore</b>	Wellbore #1				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/28/2013	8.53	66.65	52,672

<b>Design</b>	Plan #1 (10-28-13)				
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<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	269.02	

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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,193.9	3.88	107.57	1,193.8	-2.0	6.3	2.00	2.00	0.00	107.57	
4,814.7	3.88	107.57	4,806.2	-75.9	239.7	0.00	0.00	0.00	0.00	
5,008.6	0.00	0.00	5,000.0	-77.9	246.0	2.00	-2.00	0.00	180.00	
6,934.4	0.00	0.00	6,925.8	-77.9	246.0	0.00	0.00	0.00	0.00	
8,059.4	90.00	270.00	7,642.0	-77.9	-470.2	8.00	8.00	0.00	270.00	
12,129.2	90.00	270.00	7,642.0	-77.9	-4,540.0	0.00	0.00	0.00	0.00	BHL 1858'FNL, 46C

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32CHZ
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Project:</b>	SEC.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Phelps 12-32CHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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
<b>SHL 1781'FNL, 296'FEL</b>									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>KOP #1</b>									
1,100.0	2.00	107.57	1,100.0	-0.5	1.7	-1.7	2.00	2.00	0.00
1,193.9	3.88	107.57	1,193.8	-2.0	6.3	-6.2	2.00	2.00	0.00
1,200.0	3.88	107.57	1,199.8	-2.1	6.6	-6.6	0.00	0.00	0.00
1,300.0	3.88	107.57	1,299.6	-4.1	13.1	-13.0	0.00	0.00	0.00
1,400.0	3.88	107.57	1,399.4	-6.2	19.5	-19.4	0.00	0.00	0.00
1,500.0	3.88	107.57	1,499.2	-8.2	26.0	-25.8	0.00	0.00	0.00
1,600.0	3.88	107.57	1,598.9	-10.3	32.4	-32.3	0.00	0.00	0.00
1,700.0	3.88	107.57	1,698.7	-12.3	38.9	-38.7	0.00	0.00	0.00
1,800.0	3.88	107.57	1,798.5	-14.4	45.3	-45.1	0.00	0.00	0.00
1,900.0	3.88	107.57	1,898.2	-16.4	51.8	-51.5	0.00	0.00	0.00
2,000.0	3.88	107.57	1,998.0	-18.4	58.2	-57.9	0.00	0.00	0.00
2,100.0	3.88	107.57	2,097.8	-20.5	64.7	-64.3	0.00	0.00	0.00
2,200.0	3.88	107.57	2,197.5	-22.5	71.1	-70.7	0.00	0.00	0.00
2,300.0	3.88	107.57	2,297.3	-24.6	77.6	-77.1	0.00	0.00	0.00
2,400.0	3.88	107.57	2,397.1	-26.6	84.0	-83.6	0.00	0.00	0.00
2,500.0	3.88	107.57	2,496.9	-28.7	90.5	-90.0	0.00	0.00	0.00
2,600.0	3.88	107.57	2,596.6	-30.7	96.9	-96.4	0.00	0.00	0.00
2,700.0	3.88	107.57	2,696.4	-32.7	103.4	-102.8	0.00	0.00	0.00
2,800.0	3.88	107.57	2,796.2	-34.8	109.8	-109.2	0.00	0.00	0.00
2,900.0	3.88	107.57	2,895.9	-36.8	116.3	-115.6	0.00	0.00	0.00
3,000.0	3.88	107.57	2,995.7	-38.9	122.7	-122.0	0.00	0.00	0.00
3,100.0	3.88	107.57	3,095.5	-40.9	129.2	-128.5	0.00	0.00	0.00
3,200.0	3.88	107.57	3,195.3	-42.9	135.6	-134.9	0.00	0.00	0.00
3,300.0	3.88	107.57	3,295.0	-45.0	142.1	-141.3	0.00	0.00	0.00
3,400.0	3.88	107.57	3,394.8	-47.0	148.5	-147.7	0.00	0.00	0.00
3,500.0	3.88	107.57	3,494.6	-49.1	155.0	-154.1	0.00	0.00	0.00
3,600.0	3.88	107.57	3,594.3	-51.1	161.4	-160.5	0.00	0.00	0.00
3,700.0	3.88	107.57	3,694.1	-53.2	167.9	-166.9	0.00	0.00	0.00
3,800.0	3.88	107.57	3,793.9	-55.2	174.3	-173.3	0.00	0.00	0.00
3,900.0	3.88	107.57	3,893.7	-57.2	180.8	-179.8	0.00	0.00	0.00
4,000.0	3.88	107.57	3,993.4	-59.3	187.2	-186.2	0.00	0.00	0.00
4,100.0	3.88	107.57	4,093.2	-61.3	193.7	-192.6	0.00	0.00	0.00
4,200.0	3.88	107.57	4,193.0	-63.4	200.1	-199.0	0.00	0.00	0.00
4,300.0	3.88	107.57	4,292.7	-65.4	206.6	-205.4	0.00	0.00	0.00
4,400.0	3.88	107.57	4,392.5	-67.5	213.0	-211.8	0.00	0.00	0.00
4,500.0	3.88	107.57	4,492.3	-69.5	219.5	-218.2	0.00	0.00	0.00
4,600.0	3.88	107.57	4,592.1	-71.5	225.9	-224.6	0.00	0.00	0.00

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<b>Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Phelps 12-32CHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
4,700.0	3.88	107.57	4,691.8	-73.6	232.4	-231.1	0.00	0.00	0.00
4,800.0	3.88	107.57	4,791.6	-75.6	238.8	-237.5	0.00	0.00	0.00
4,814.7	3.88	107.57	4,806.2	-75.9	239.7	-238.4	0.00	0.00	0.00
4,900.0	2.17	107.57	4,891.4	-77.3	244.0	-242.7	2.00	-2.00	0.00
5,000.0	0.17	107.57	4,991.4	-77.9	246.0	-244.6	2.00	-2.00	0.00
5,008.6	0.00	0.00	5,000.0	-77.9	246.0	-244.6	2.00	-2.00	0.00
5,100.0	0.00	0.00	5,091.4	-77.9	246.0	-244.6	0.00	0.00	0.00
5,200.0	0.00	0.00	5,191.4	-77.9	246.0	-244.6	0.00	0.00	0.00
5,300.0	0.00	0.00	5,291.4	-77.9	246.0	-244.6	0.00	0.00	0.00
5,400.0	0.00	0.00	5,391.4	-77.9	246.0	-244.6	0.00	0.00	0.00
5,500.0	0.00	0.00	5,491.4	-77.9	246.0	-244.6	0.00	0.00	0.00
5,600.0	0.00	0.00	5,591.4	-77.9	246.0	-244.6	0.00	0.00	0.00
5,700.0	0.00	0.00	5,691.4	-77.9	246.0	-244.6	0.00	0.00	0.00
5,800.0	0.00	0.00	5,791.4	-77.9	246.0	-244.6	0.00	0.00	0.00
5,900.0	0.00	0.00	5,891.4	-77.9	246.0	-244.6	0.00	0.00	0.00
6,000.0	0.00	0.00	5,991.4	-77.9	246.0	-244.6	0.00	0.00	0.00
6,100.0	0.00	0.00	6,091.4	-77.9	246.0	-244.6	0.00	0.00	0.00
6,200.0	0.00	0.00	6,191.4	-77.9	246.0	-244.6	0.00	0.00	0.00
6,300.0	0.00	0.00	6,291.4	-77.9	246.0	-244.6	0.00	0.00	0.00
6,400.0	0.00	0.00	6,391.4	-77.9	246.0	-244.6	0.00	0.00	0.00
6,500.0	0.00	0.00	6,491.4	-77.9	246.0	-244.6	0.00	0.00	0.00
6,600.0	0.00	0.00	6,591.4	-77.9	246.0	-244.6	0.00	0.00	0.00
6,700.0	0.00	0.00	6,691.4	-77.9	246.0	-244.6	0.00	0.00	0.00
6,800.0	0.00	0.00	6,791.4	-77.9	246.0	-244.6	0.00	0.00	0.00
6,900.0	0.00	0.00	6,891.4	-77.9	246.0	-244.6	0.00	0.00	0.00
6,934.4	0.00	0.00	6,925.8	-77.9	246.0	-244.6	0.00	0.00	0.00
<b>KOP #2</b>									
7,000.0	5.25	270.00	6,991.3	-77.9	243.0	-241.6	8.00	8.00	0.00
7,100.0	13.25	270.00	7,089.9	-77.9	226.9	-225.6	8.00	8.00	0.00
7,200.0	21.25	270.00	7,185.4	-77.9	197.3	-195.9	8.00	8.00	0.00
7,300.0	29.25	270.00	7,275.7	-77.9	154.7	-153.3	8.00	8.00	0.00
7,400.0	37.25	270.00	7,359.3	-77.9	99.9	-98.6	8.00	8.00	0.00
7,500.0	45.25	270.00	7,434.4	-77.9	34.0	-32.7	8.00	8.00	0.00
7,600.0	53.25	270.00	7,499.6	-77.9	-41.7	43.0	8.00	8.00	0.00
7,700.0	61.25	270.00	7,553.7	-77.9	-125.7	127.0	8.00	8.00	0.00
7,800.0	69.25	270.00	7,595.5	-77.9	-216.4	217.7	8.00	8.00	0.00
7,900.0	77.25	270.00	7,624.3	-77.9	-312.1	313.4	8.00	8.00	0.00
8,000.0	85.25	270.00	7,639.5	-77.9	-410.9	412.2	8.00	8.00	0.00
8,059.4	90.00	270.00	7,642.0	-77.9	-470.2	471.5	8.00	8.00	0.00
<b>End of Build - 7"</b>									
8,100.0	90.00	270.00	7,642.0	-77.9	-510.8	512.1	0.00	0.00	0.00
8,200.0	90.00	270.00	7,642.0	-77.9	-610.8	612.1	0.00	0.00	0.00
8,300.0	90.00	270.00	7,642.0	-77.9	-710.8	712.0	0.00	0.00	0.00
8,400.0	90.00	270.00	7,642.0	-77.9	-810.8	812.0	0.00	0.00	0.00
8,500.0	90.00	270.00	7,642.0	-77.9	-910.8	912.0	0.00	0.00	0.00
8,600.0	90.00	270.00	7,642.0	-77.9	-1,010.8	1,012.0	0.00	0.00	0.00
8,700.0	90.00	270.00	7,642.0	-77.9	-1,110.8	1,112.0	0.00	0.00	0.00
8,800.0	90.00	270.00	7,642.0	-77.9	-1,210.8	1,212.0	0.00	0.00	0.00
8,900.0	90.00	270.00	7,642.0	-77.9	-1,310.8	1,311.9	0.00	0.00	0.00
9,000.0	90.00	270.00	7,642.0	-77.9	-1,410.8	1,411.9	0.00	0.00	0.00
9,100.0	90.00	270.00	7,642.0	-77.9	-1,510.8	1,511.9	0.00	0.00	0.00

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<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Project:</b>	SEC.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Phelps 12-32CHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)	
9,200.0	90.00	270.00	7,642.0	-77.9	-1,610.8	1,611.9	0.00	0.00	0.00	
9,300.0	90.00	270.00	7,642.0	-77.9	-1,710.8	1,711.9	0.00	0.00	0.00	
9,400.0	90.00	270.00	7,642.0	-77.9	-1,810.8	1,811.9	0.00	0.00	0.00	
9,500.0	90.00	270.00	7,642.0	-77.9	-1,910.8	1,911.9	0.00	0.00	0.00	
9,600.0	90.00	270.00	7,642.0	-77.9	-2,010.8	2,011.8	0.00	0.00	0.00	
9,700.0	90.00	270.00	7,642.0	-77.9	-2,110.8	2,111.8	0.00	0.00	0.00	
9,800.0	90.00	270.00	7,642.0	-77.9	-2,210.8	2,211.8	0.00	0.00	0.00	
9,900.0	90.00	270.00	7,642.0	-77.9	-2,310.8	2,311.8	0.00	0.00	0.00	
10,000.0	90.00	270.00	7,642.0	-77.9	-2,410.8	2,411.8	0.00	0.00	0.00	
10,100.0	90.00	270.00	7,642.0	-77.9	-2,510.8	2,511.8	0.00	0.00	0.00	
10,200.0	90.00	270.00	7,642.0	-77.9	-2,610.8	2,611.8	0.00	0.00	0.00	
10,300.0	90.00	270.00	7,642.0	-77.9	-2,710.8	2,711.7	0.00	0.00	0.00	
10,400.0	90.00	270.00	7,642.0	-77.9	-2,810.8	2,811.7	0.00	0.00	0.00	
10,500.0	90.00	270.00	7,642.0	-77.9	-2,910.8	2,911.7	0.00	0.00	0.00	
10,600.0	90.00	270.00	7,642.0	-77.9	-3,010.8	3,011.7	0.00	0.00	0.00	
10,700.0	90.00	270.00	7,642.0	-77.9	-3,110.8	3,111.7	0.00	0.00	0.00	
10,800.0	90.00	270.00	7,642.0	-77.9	-3,210.8	3,211.7	0.00	0.00	0.00	
10,900.0	90.00	270.00	7,642.0	-77.9	-3,310.8	3,311.7	0.00	0.00	0.00	
11,000.0	90.00	270.00	7,642.0	-77.9	-3,410.8	3,411.6	0.00	0.00	0.00	
11,100.0	90.00	270.00	7,642.0	-77.9	-3,510.8	3,511.6	0.00	0.00	0.00	
11,200.0	90.00	270.00	7,642.0	-77.9	-3,610.8	3,611.6	0.00	0.00	0.00	
11,300.0	90.00	270.00	7,642.0	-77.9	-3,710.8	3,711.6	0.00	0.00	0.00	
11,400.0	90.00	270.00	7,642.0	-77.9	-3,810.8	3,811.6	0.00	0.00	0.00	
11,500.0	90.00	270.00	7,642.0	-77.9	-3,910.8	3,911.6	0.00	0.00	0.00	
11,600.0	90.00	270.00	7,642.0	-77.9	-4,010.8	4,011.6	0.00	0.00	0.00	
11,700.0	90.00	270.00	7,642.0	-77.9	-4,110.8	4,111.5	0.00	0.00	0.00	
11,800.0	90.00	270.00	7,642.0	-77.9	-4,210.8	4,211.5	0.00	0.00	0.00	
11,900.0	90.00	270.00	7,642.0	-77.9	-4,310.8	4,311.5	0.00	0.00	0.00	
12,000.0	90.00	270.00	7,642.0	-77.9	-4,410.8	4,411.5	0.00	0.00	0.00	
12,100.0	90.00	270.00	7,642.0	-77.9	-4,510.8	4,511.5	0.00	0.00	0.00	
12,129.2	90.00	270.00	7,642.0	-77.9	-4,540.0	4,540.6	0.00	0.00	0.00	
BHL 1858'FNL, 460'FWL										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
8,059.4	7,642.0	7"	7	7-1/2	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,000.0	1,000.0	0.0	0.0	KOP #1	
6,934.4	6,925.8	-77.9	246.0	KOP #2	
8,059.4	7,642.0	-77.9	-470.2	End of Build	



## **Synergy Resources**

**SEC.32-T1N-R66W**

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

**SRC Phelps 12-32CHZ**

**Wellbore #1**

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

## **Anticollision Report**

**29 October, 2013**

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32CHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-28-13)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1 (10-28-13)		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.0ft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 1,000.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>	<b>Date</b> 10/28/2013			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	12,129.2	Plan #1 (10-28-13) (Wellbore #1)	MWD	MWD - Standard

<b>Summary</b>						
<b>Site Name</b>	<b>Reference Measured Depth (ft)</b>	<b>Offset Measured Depth (ft)</b>	<b>Distance Between Centres (ft)</b>	<b>Distance Between Ellipses (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Offset Well - Wellbore - Design</b>						
SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W						
SRC Phelps 11-32CHZ - Wellbore #1 - Plan #1 (10-28-13)	200.0	200.0	22.6	22.0	33.562	CC, ES
SRC Phelps 11-32CHZ - Wellbore #1 - Plan #1 (10-28-13)	500.0	498.0	31.9	29.9	15.573	SF
SRC Phelps 11-32NHZ - Wellbore #1 - Plan #1 (10-28-13)	366.3	367.3	45.0	43.6	31.587	CC
SRC Phelps 11-32NHZ - Wellbore #1 - Plan #1 (10-28-13)	400.0	401.0	45.0	43.4	28.553	ES
SRC Phelps 11-32NHZ - Wellbore #1 - Plan #1 (10-28-13)	800.0	795.9	61.7	58.2	18.048	SF
SRC Phelps 12-32NHZ - Wellbore #1 - Plan #1 (10-28-13)	1,000.0	1,000.0	22.4	18.1	5.235	CC, ES
SRC Phelps 12-32NHZ - Wellbore #1 - Plan #1 (10-28-13)	12,129.2	11,961.8	380.5	152.1	1.666	SF
SRC Phelps A-32CHZ - Wellbore #1 - Plan #1 (10-28-13)	566.3	567.3	75.4	73.1	32.452	CC
SRC Phelps A-32CHZ - Wellbore #1 - Plan #1 (10-28-13)	600.0	601.0	75.4	72.9	30.467	ES
SRC Phelps A-32CHZ - Wellbore #1 - Plan #1 (10-28-13)	12,129.2	12,158.6	738.4	477.2	2.827	SF
SRC Phelps A-32NHZ - Wellbore #1 - Plan #1 (10-28-13)	766.3	767.3	97.8	94.5	30.336	CC
SRC Phelps A-32NHZ - Wellbore #1 - Plan #1 (10-28-13)	800.0	800.0	97.8	94.4	28.996	ES
SRC Phelps A-32NHZ - Wellbore #1 - Plan #1 (10-28-13)	12,129.2	11,938.4	381.8	153.1	1.669	SF

<b>Offset Design</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 11-32CHZ - Wellbore #1 - Plan #1 (10-28-13)												<b>Offset Site Error:</b>	0.0 ft
<b>Survey Program:</b>	0-MWD												<b>Offset Well Error:</b>	0.0 ft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Distance</b>		<b>Minimum Separation</b>		<b>Separation Factor</b>		<b>Warning</b>				
<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Reference (ft)</b>	<b>Offset (ft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre +N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Between Centres (ft)</b>	<b>Between Ellipses (ft)</b>	<b>Minimum Separation (ft)</b>	<b>Separation Factor</b>		
0.0	0.0	0.0	0.0	0.0	0.0	77.92	4.7	22.1	22.6					
100.0	100.0	100.0	100.0	0.1	0.1	77.92	4.7	22.1	22.6	22.4	0.22	100.686		
200.0	200.0	200.0	200.0	0.3	0.3	77.92	4.7	22.1	22.6	22.0	0.67	33.562	CC, ES	
300.0	300.0	299.7	299.6	0.6	0.6	73.96	6.4	22.4	23.3	22.2	1.12	20.750		
400.0	400.0	399.1	398.9	0.8	0.8	63.62	11.6	23.3	26.0	24.4	1.58	16.466		
500.0	500.0	498.0	497.5	1.0	1.0	51.03	20.0	24.7	31.9	29.9	2.05	15.573	SF	
600.0	600.0	596.3	595.0	1.2	1.3	40.12	31.7	26.7	41.8	39.2	2.55	16.398		
700.0	700.0	693.6	691.2	1.5	1.6	32.14	46.6	29.2	55.7	52.6	3.08	18.053		
800.0	800.0	789.8	785.6	1.7	2.0	26.64	64.4	32.3	73.4	69.8	3.66	20.048		
900.0	900.0	886.4	879.9	1.9	2.4	22.86	84.9	35.8	94.3	90.0	4.28	22.018		
1,000.0	1,000.0	984.0	975.2	2.1	2.8	20.39	105.9	39.4	115.6	110.7	4.92	23.510		
1,100.0	1,100.0	1,081.5	1,070.3	2.3	3.2	-89.18	126.9	42.9	137.1	132.3	4.86	28.198		
1,200.0	1,199.8	1,178.8	1,165.3	2.5	3.6	-91.82	147.8	46.5	158.9	153.6	5.30	29.973		

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



<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32CHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-28-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														Offset Site Error:	0.0 ft
SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 11-32CHZ - Wellbore #1 - Plan #1 (10-28)														Offset Well Error:	0.0 ft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
1,300.0	1,299.6	1,275.9	1,260.1	2.8	4.1	-94.63	168.7	50.0	181.1	175.3	5.75	31.489			
1,400.0	1,399.4	1,373.1	1,354.9	3.0	4.5	-96.82	189.6	53.6	203.6	197.4	6.21	32.772			
1,500.0	1,499.2	1,470.3	1,449.8	3.2	5.0	-98.58	210.5	57.2	226.4	219.7	6.69	33.859			
1,600.0	1,598.9	1,567.4	1,544.6	3.4	5.4	-100.02	231.4	60.7	249.3	242.1	7.17	34.785			
1,700.0	1,698.7	1,664.6	1,639.4	3.7	5.8	-101.21	252.3	64.3	272.4	264.7	7.66	35.580			
1,800.0	1,798.5	1,761.7	1,734.2	3.9	6.3	-102.22	273.2	67.8	295.5	287.4	8.15	36.268			
1,900.0	1,898.2	1,858.9	1,829.0	4.1	6.7	-103.09	294.1	71.4	318.7	310.1	8.65	36.866			
2,000.0	1,998.0	1,956.1	1,923.9	4.4	7.2	-103.83	315.0	75.0	342.0	332.9	9.15	37.390			
2,100.0	2,097.8	2,053.2	2,018.7	4.6	7.6	-104.48	335.9	78.5	365.3	355.7	9.65	37.852			
2,200.0	2,197.5	2,150.4	2,113.5	4.9	8.0	-105.05	356.8	82.1	388.7	378.5	10.16	38.262			
2,300.0	2,297.3	2,247.6	2,208.3	5.1	8.5	-105.56	377.7	85.6	412.1	401.4	10.67	38.628			
2,400.0	2,397.1	2,344.7	2,303.1	5.3	8.9	-106.01	398.6	89.2	435.5	424.3	11.18	38.956			
2,500.0	2,496.9	2,441.9	2,398.0	5.6	9.4	-106.42	419.5	92.8	459.0	447.3	11.69	39.252			
2,600.0	2,496.6	2,539.1	2,492.8	5.8	9.8	-106.79	440.4	96.3	482.4	470.2	12.21	39.520			
2,700.0	2,496.4	2,636.2	2,587.6	6.1	10.3	-107.12	461.3	99.9	505.9	493.2	12.72	39.763			
2,800.0	2,796.2	2,733.4	2,682.4	6.3	10.7	-107.43	482.2	103.4	529.4	516.2	13.24	39.985			
2,900.0	2,895.9	2,830.5	2,777.3	6.6	11.2	-107.70	503.2	107.0	552.9	539.2	13.76	40.188			
3,000.0	2,995.7	2,927.7	2,872.1	6.9	11.6	-107.96	524.1	110.6	576.5	562.2	14.28	40.375			
3,100.0	3,095.5	3,024.9	2,966.9	7.1	12.1	-108.19	545.0	114.1	600.0	585.2	14.80	40.547			
3,200.0	3,195.3	3,122.0	3,061.7	7.4	12.5	-108.41	565.9	117.7	623.5	608.2	15.32	40.705			
3,300.0	3,295.0	3,219.2	3,156.5	7.6	12.9	-108.61	586.8	121.2	647.1	631.3	15.84	40.853			
3,400.0	3,394.8	3,316.4	3,251.4	7.9	13.4	-108.80	607.7	124.8	670.6	654.3	16.36	40.989			
3,500.0	3,494.6	3,413.5	3,346.2	8.1	13.8	-108.98	628.6	128.4	694.2	677.3	16.88	41.117			
3,600.0	3,594.3	3,510.7	3,441.0	8.4	14.3	-109.14	649.5	131.9	717.8	700.4	17.41	41.236			
3,700.0	3,694.1	3,607.8	3,535.8	8.6	14.7	-109.29	670.4	135.5	741.4	723.4	17.93	41.347			
3,800.0	3,793.9	3,705.0	3,630.6	8.9	15.2	-109.44	691.3	139.0	764.9	746.5	18.45	41.451			
3,900.0	3,893.7	3,802.2	3,725.5	9.1	15.6	-109.57	712.2	142.6	788.5	769.5	18.98	41.549			
4,000.0	3,993.4	3,899.3	3,820.3	9.4	16.1	-109.70	733.1	146.2	812.1	792.6	19.50	41.640			
4,100.0	4,093.2	3,996.5	3,915.1	9.6	16.5	-109.82	754.0	149.7	835.7	815.7	20.03	41.727			
4,200.0	4,193.0	4,093.7	4,009.9	9.9	17.0	-109.93	774.9	153.3	859.3	838.7	20.55	41.808			
4,300.0	4,292.7	4,190.8	4,104.7	10.2	17.4	-110.04	795.8	156.8	882.9	861.8	21.08	41.886			
4,400.0	4,392.5	4,288.0	4,199.6	10.4	17.8	-110.14	816.7	160.4	906.5	884.9	21.60	41.959			
4,500.0	4,492.3	4,385.1	4,294.4	10.7	18.3	-110.24	837.6	163.9	930.1	908.0	22.13	42.028			
4,600.0	4,592.1	4,482.3	4,389.2	10.9	18.7	-110.33	858.5	167.5	953.7	931.0	22.66	42.093			
4,700.0	4,691.8	4,579.5	4,484.0	11.2	19.2	-110.42	879.4	171.1	977.3	954.1	23.18	42.155			

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		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.0	0.0	1.0	1.0	0.0	0.0	77.85	9.5	44.0	45.0	45.0	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	77.85	9.5	44.0	45.0	44.8	0.23	198.171		
200.0	200.0	201.0	201.0	0.3	0.3	77.85	9.5	44.0	45.0	44.3	0.68	66.496		
300.0	300.0	301.0	301.0	0.6	0.6	77.85	9.5	44.0	45.0	43.9	1.13	39.951		
366.3	366.3	367.3	367.3	0.7	0.7	77.85	9.5	44.0	45.0	43.6	1.42	31.587 CC		
400.0	400.0	401.0	401.0	0.8	0.8	77.85	9.5	44.0	45.0	43.4	1.58	28.553 ES		
500.0	500.0	500.0	500.0	1.0	1.0	75.84	11.2	44.3	45.7	43.7	2.02	22.603		
600.0	600.0	599.4	599.3	1.2	1.2	70.28	16.3	45.4	48.2	45.8	2.48	19.482		
700.0	700.0	698.0	697.5	1.5	1.5	62.38	24.6	47.1	53.3	50.3	2.94	18.145		
800.0	800.0	795.9	794.7	1.7	1.7	53.79	36.2	49.5	61.7	58.2	3.42	18.048 SF		
900.0	900.0	892.9	890.5	1.9	2.0	45.89	50.9	52.5	73.9	70.0	3.93	18.801		
1,000.0	1,000.0	991.3	987.4	2.1	2.4	39.62	67.6	55.9	88.8	84.3	4.48	19.812		
1,100.0	1,100.0	1,089.7	1,084.3	2.3	2.7	-73.03	84.3	59.4	103.9	99.1	4.80	21.648		
1,200.0	1,199.8	1,188.0	1,181.1	2.5	3.0	-78.36	100.9	62.8	119.0	113.8	5.23	22.760		
1,300.0	1,299.6	1,286.1	1,277.8	2.8	3.4	-83.34	117.6	66.2	134.7	129.1	5.66	23.788		
1,400.0	1,399.4	1,384.3	1,374.4	3.0	3.8	-87.26	134.2	69.7	151.3	145.2	6.11	24.758		
1,500.0	1,499.2	1,482.4	1,471.1	3.2	4.1	-90.40	150.8	73.1	168.4	161.8	6.57	25.644		
1,600.0	1,598.9	1,580.6	1,567.8	3.4	4.5	-92.96	167.5	76.5	185.9	178.9	7.03	26.442		
1,700.0	1,698.7	1,678.7	1,664.4	3.7	4.9	-95.08	184.1	79.9	203.7	196.2	7.50	27.156		
1,800.0	1,798.5	1,776.9	1,761.1	3.9	5.2	-96.85	200.7	83.4	221.8	213.8	7.98	27.794		
1,900.0	1,898.2	1,875.0	1,857.8	4.1	5.6	-98.36	217.4	86.8	240.0	231.5	8.46	28.364		
2,000.0	1,998.0	1,973.2	1,954.4	4.4	6.0	-99.66	234.0	90.2	258.3	249.4	8.95	28.875		
2,100.0	2,097.8	2,071.3	2,051.1	4.6	6.4	-100.78	250.6	93.6	276.8	267.4	9.44	29.334		
2,200.0	2,197.5	2,169.4	2,147.7	4.9	6.7	-101.77	267.3	97.1	295.4	285.4	9.93	29.747		
2,300.0	2,297.3	2,267.6	2,244.4	5.1	7.1	-102.64	283.9	100.5	314.0	303.6	10.42	30.121		
2,400.0	2,397.1	2,365.7	2,341.1	5.3	7.5	-103.41	300.6	103.9	332.7	321.8	10.92	30.461		
2,500.0	2,496.9	2,463.9	2,437.7	5.6	7.9	-104.10	317.2	107.3	351.4	340.0	11.42	30.770		
2,600.0	2,596.6	2,562.0	2,534.4	5.8	8.2	-104.71	333.8	110.8	370.2	358.3	11.92	31.053		
2,700.0	2,696.4	2,660.2	2,631.1	6.1	8.6	-105.27	350.5	114.2	389.1	376.6	12.42	31.312		
2,800.0	2,796.2	2,758.3	2,727.7	6.3	9.0	-105.78	367.1	117.6	407.9	395.0	12.93	31.551		
2,900.0	2,895.9	2,856.5	2,824.4	6.6	9.4	-106.24	383.7	121.0	426.8	413.4	13.43	31.770		
3,000.0	2,995.7	2,954.6	2,921.1	6.9	9.7	-106.67	400.4	124.5	445.7	431.8	13.94	31.974		
3,100.0	3,095.5	3,052.7	3,017.7	7.1	10.1	-107.06	417.0	127.9	464.6	450.2	14.45	32.162		
3,200.0	3,195.3	3,150.9	3,114.4	7.4	10.5	-107.41	433.7	131.3	483.6	468.6	14.95	32.337		
3,300.0	3,295.0	3,249.0	3,211.0	7.6	10.9	-107.75	450.3	134.7	502.6	487.1	15.46	32.500		
3,400.0	3,394.8	3,347.2	3,307.7	7.9	11.3	-108.05	466.9	138.2	521.6	505.6	15.97	32.653		
3,500.0	3,494.6	3,445.3	3,404.4	8.1	11.6	-108.34	483.6	141.6	540.6	524.1	16.48	32.795		
3,600.0	3,594.3	3,543.5	3,501.0	8.4	12.0	-108.61	500.2	145.0	559.6	542.6	16.99	32.929		
3,700.0	3,694.1	3,641.6	3,597.7	8.6	12.4	-108.85	516.8	148.4	578.6	561.1	17.50	33.054		
3,800.0	3,793.9	3,739.7	3,694.4	8.9	12.8	-109.09	533.5	151.9	597.6	579.6	18.02	33.172		
3,900.0	3,893.7	3,837.9	3,791.0	9.1	13.2	-109.31	550.1	155.3	616.7	598.1	18.53	33.283		
4,000.0	3,993.4	3,936.0	3,887.7	9.4	13.5	-109.51	566.7	158.7	635.7	616.7	19.04	33.388		
4,100.0	4,093.2	4,034.2	3,984.4	9.6	13.9	-109.71	583.4	162.1	654.8	635.2	19.55	33.487		
4,200.0	4,193.0	4,132.3	4,081.0	9.9	14.3	-109.89	600.0	165.6	673.8	653.8	20.07	33.581		
4,300.0	4,292.7	4,230.5	4,177.7	10.2	14.7	-110.06	616.7	169.0	692.9	672.3	20.58	33.670		
4,400.0	4,392.5	4,328.6	4,274.3	10.4	15.1	-110.22	633.3	172.4	712.0	690.9	21.09	33.754		
4,500.0	4,492.3	4,426.8	4,371.0	10.7	15.4	-110.38	649.9	175.8	731.0	709.4	21.61	33.834		
4,600.0	4,592.1	4,524.9	4,467.7	10.9	15.8	-110.53	666.6	179.3	750.1	728.0	22.12	33.911		
4,700.0	4,691.8	4,623.0	4,564.3	11.2	16.2	-110.67	683.2	182.7	769.2	746.6	22.64	33.983		
4,800.0	4,791.6	4,721.2	4,661.0	11.4	16.6	-110.80	699.8	186.1	788.3	765.2	23.15	34.052		
4,900.0	4,891.4	4,819.4	4,757.8	11.7	17.0	-111.14	716.5	189.5	807.0	783.3	23.66	34.100		

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32CHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-28-13)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference														
Offset														
Semi Major Axis														
Distance														
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,000.0	4,991.4	4,917.9	4,854.7	11.8	17.3	-111.28	733.2	193.0	824.4	800.3	24.13	34.159		
5,100.0	5,091.4	5,016.4	4,951.7	12.0	17.7	-3.43	749.9	196.4	841.1	812.5	28.66	29.353		
5,200.0	5,191.4	5,114.8	5,048.7	12.2	18.1	-3.13	766.6	199.9	857.8	828.6	29.23	29.344		
5,300.0	5,291.4	5,213.3	5,145.7	12.4	18.5	-2.84	783.3	203.3	874.6	844.8	29.81	29.336		
5,400.0	5,391.4	5,311.8	5,242.7	12.6	18.9	-2.56	800.0	206.7	891.4	861.0	30.39	29.328		
5,500.0	5,491.4	5,410.3	5,339.7	12.8	19.2	-2.29	816.7	210.2	908.2	877.2	30.98	29.319		
5,600.0	5,591.4	5,508.8	5,436.7	13.0	19.6	-2.04	833.4	213.6	925.0	893.5	31.56	29.311		
5,700.0	5,691.4	5,607.3	5,533.7	13.2	20.0	-1.79	850.0	217.0	941.9	909.7	32.14	29.302		
5,800.0	5,791.4	5,705.8	5,630.7	13.4	20.4	-1.55	866.7	220.5	958.7	926.0	32.73	29.293		
5,900.0	5,891.4	5,804.3	5,727.7	13.6	20.8	-1.32	883.4	223.9	975.6	942.3	33.31	29.285		
6,000.0	5,991.4	5,902.8	5,824.7	13.8	21.2	-1.09	900.1	227.4	992.5	958.6	33.90	29.276		

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		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-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	700.0	700.0	1.5	1.5	-102.24	-4.7	-21.8	22.4	19.4	2.92	7.652	
800.0	800.0	800.0	800.0	1.7	1.7	-102.24	-4.7	-21.8	22.4	19.0	3.37	6.631	
900.0	900.0	900.0	900.0	1.9	1.9	-102.24	-4.7	-21.8	22.4	18.5	3.82	5.851	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-102.24	-4.7	-21.8	22.4	18.1	4.27	5.235 CC, ES	
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.4	152.26	-4.7	-21.8	23.9	19.2	4.70	5.081	
1,200.0	1,199.8	1,199.8	1,199.8	2.5	2.6	157.10	-4.7	-21.8	28.6	23.5	5.12	5.594	
1,300.0	1,299.6	1,299.6	1,299.6	2.8	2.8	161.42	-4.7	-21.8	35.0	29.4	5.54	6.311	
1,400.0	1,399.4	1,399.4	1,399.4	3.0	3.0	164.40	-4.7	-21.8	41.4	35.5	5.96	6.944	
1,500.0	1,499.2	1,499.2	1,499.2	3.2	3.3	166.57	-4.7	-21.8	48.0	41.6	6.40	7.501	
1,600.0	1,598.9	1,598.9	1,598.9	3.4	3.5	168.22	-4.7	-21.8	54.6	47.7	6.83	7.991	
1,700.0	1,698.7	1,698.7	1,698.7	3.7	3.7	169.51	-4.7	-21.8	61.2	53.9	7.27	8.425	
1,800.0	1,798.5	1,798.5	1,798.5	3.9	3.9	170.55	-4.7	-21.8	67.9	60.2	7.70	8.811	
1,900.0	1,898.2	1,898.2	1,898.2	4.1	4.2	171.41	-4.7	-21.8	74.6	66.4	8.14	9.156	
2,000.0	1,998.0	1,998.0	1,998.0	4.4	4.4	172.12	-4.7	-21.8	81.2	72.7	8.58	9.465	
2,100.0	2,097.8	2,099.9	2,099.8	4.6	4.6	171.91	-6.2	-20.9	86.8	77.8	9.00	9.637	
2,200.0	2,197.5	2,201.9	2,201.7	4.9	4.8	170.03	-10.7	-17.9	89.9	80.5	9.40	9.562	
2,300.0	2,297.3	2,303.8	2,303.2	5.1	5.0	166.52	-18.1	-12.9	90.9	81.1	9.82	9.262	
2,400.0	2,397.1	2,404.9	2,403.6	5.3	5.2	161.32	-28.4	-6.1	90.4	80.1	10.25	8.813	
2,483.2	2,480.1	2,487.8	2,485.7	5.6	5.3	156.55	-37.6	0.0	90.1	79.4	10.63	8.469	
2,500.0	2,496.9	2,504.5	2,502.3	5.6	5.4	155.59	-39.4	1.2	90.1	79.4	10.71	8.408	
2,600.0	2,596.6	2,604.1	2,601.0	5.8	5.6	149.89	-50.4	8.5	90.7	79.5	11.19	8.100	
2,700.0	2,696.4	2,703.7	2,699.7	6.1	5.8	144.31	-61.4	15.8	92.2	80.5	11.70	7.878	
2,800.0	2,796.2	2,803.3	2,798.4	6.3	6.1	138.96	-72.4	23.2	94.5	82.3	12.22	7.732	
2,900.0	2,895.9	2,902.8	2,897.1	6.6	6.3	133.91	-83.4	30.5	97.6	84.9	12.76	7.652	
3,000.0	2,995.7	3,002.4	2,995.8	6.9	6.6	129.20	-94.4	37.8	101.5	88.2	13.30	7.629	
3,100.0	3,095.5	3,102.0	3,094.5	7.1	6.9	124.86	-105.4	45.1	105.9	92.1	13.85	7.650	
3,200.0	3,195.3	3,201.6	3,193.2	7.4	7.1	120.90	-116.4	52.4	111.0	96.6	14.40	7.709	
3,300.0	3,295.0	3,301.2	3,292.0	7.6	7.4	117.29	-127.3	59.7	116.5	101.6	14.94	7.798	
3,400.0	3,394.8	3,400.8	3,390.7	7.9	7.7	114.01	-138.3	67.0	122.5	107.0	15.48	7.908	
3,500.0	3,494.6	3,500.4	3,489.4	8.1	8.0	111.05	-149.3	74.3	128.8	112.7	16.02	8.035	
3,600.0	3,594.3	3,600.0	3,588.1	8.4	8.3	108.37	-160.3	81.6	135.4	118.8	16.56	8.175	
3,700.0	3,694.1	3,699.6	3,686.8	8.6	8.6	105.94	-171.3	89.0	142.3	125.2	17.09	8.323	
3,800.0	3,793.9	3,799.1	3,785.5	8.9	8.9	103.74	-182.3	96.3	149.4	131.8	17.62	8.477	
3,900.0	3,893.7	3,898.7	3,884.2	9.1	9.2	101.74	-193.3	103.6	156.7	138.5	18.15	8.635	
4,000.0	3,993.4	3,998.3	3,982.9	9.4	9.5	99.93	-204.3	110.9	164.2	145.5	18.67	8.794	
4,100.0	4,093.2	4,097.9	4,081.6	9.6	9.8	98.27	-215.3	118.2	171.8	152.6	19.19	8.953	
4,200.0	4,193.0	4,197.5	4,180.4	9.9	10.1	96.75	-226.2	125.5	179.6	159.9	19.71	9.111	
4,300.0	4,292.7	4,297.1	4,279.1	10.2	10.4	95.36	-237.2	132.8	187.5	167.2	20.23	9.267	
4,400.0	4,392.5	4,396.7	4,377.8	10.4	10.8	94.08	-248.2	140.1	195.5	174.7	20.75	9.421	
4,500.0	4,492.3	4,496.3	4,476.5	10.7	11.1	92.91	-259.2	147.4	203.5	182.3	21.26	9.572	
4,600.0	4,592.1	4,595.9	4,575.2	10.9	11.4	91.82	-270.2	154.8	211.7	189.9	21.78	9.720	
4,700.0	4,691.8	4,695.5	4,673.9	11.2	11.7	90.81	-281.2	162.1	219.9	197.6	22.29	9.865	
4,800.0	4,791.6	4,795.0	4,772.6	11.4	12.0	89.88	-292.2	169.4	228.2	205.4	22.81	10.006	
4,900.0	4,891.4	4,894.6	4,871.3	11.7	12.4	88.85	-303.2	176.7	236.6	213.3	23.28	10.160	

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32CHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-28-13)	<b>Offset TVD Reference:</b>	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		Offset		Semi Major Axis			Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning			
5,000.0	4,991.4	4,993.9	4,969.7	11.8	12.7	87.12	-314.1	184.0	245.2	221.5	23.69	10.351				
5,100.0	5,091.4	5,093.0	5,068.0	12.0	13.0	-167.51	-325.1	191.2	254.2	231.1	23.09	11.008				
5,200.0	5,191.4	5,192.1	5,166.2	12.2	13.3	-169.58	-336.0	198.5	263.6	240.0	23.66	11.143				
5,300.0	5,291.4	5,291.2	5,264.4	12.4	13.6	-171.50	-346.9	205.8	273.4	249.1	24.23	11.282				
5,400.0	5,391.4	5,390.4	5,362.7	12.6	14.0	-173.29	-357.9	213.1	283.4	258.6	24.80	11.426				
5,500.0	5,491.4	5,489.5	5,460.9	12.8	14.3	-174.96	-368.8	220.3	293.6	268.2	25.37	11.573				
5,600.0	5,591.4	5,588.6	5,559.2	13.0	14.6	-176.52	-379.7	227.6	304.1	278.2	25.94	11.723				
5,700.0	5,691.4	5,691.4	5,661.1	13.2	14.9	-177.99	-390.8	235.0	314.6	288.1	26.51	11.866				
5,800.0	5,791.4	5,800.9	5,770.0	13.4	15.2	-179.12	-399.9	241.0	322.7	295.7	27.02	11.945				
5,900.0	5,891.4	5,911.1	5,880.0	13.6	15.4	-179.78	-405.5	244.8	327.8	300.3	27.48	11.930				
6,000.0	5,991.4	6,021.6	5,990.5	13.8	15.6	179.98	-407.6	246.1	329.7	301.8	27.89	11.820				
6,100.0	6,091.4	6,122.5	6,091.4	13.9	15.8	179.97	-407.6	246.2	329.7	301.4	28.27	11.661				
6,200.0	6,191.4	6,222.5	6,191.4	14.1	16.0	179.97	-407.6	246.2	329.7	301.0	28.65	11.509				
6,300.0	6,291.4	6,322.5	6,291.4	14.3	16.1	179.97	-407.6	246.2	329.7	300.7	29.02	11.359				
6,400.0	6,391.4	6,422.5	6,391.4	14.5	16.3	179.97	-407.6	246.2	329.7	300.3	29.40	11.213				
6,500.0	6,491.4	6,522.5	6,491.4	14.7	16.5	179.97	-407.6	246.2	329.7	299.9	29.78	11.069				
6,600.0	6,591.4	6,622.5	6,591.4	14.9	16.6	179.97	-407.6	246.2	329.7	299.5	30.17	10.929				
6,700.0	6,691.4	6,722.5	6,691.4	15.1	16.8	179.97	-407.6	246.2	329.7	299.1	30.55	10.791				
6,759.1	6,750.5	6,781.6	6,750.5	15.3	16.9	-180.00	-407.6	246.0	329.7	298.9	30.78	10.712				
6,800.0	6,791.4	6,822.4	6,791.3	15.3	17.0	-179.65	-407.6	244.0	329.7	298.8	30.92	10.664				
6,900.0	6,891.4	6,920.1	6,887.9	15.5	17.1	-177.19	-407.6	229.8	330.1	298.9	31.17	10.589				
7,000.0	6,991.3	7,013.3	6,977.4	15.7	17.1	-83.09	-407.6	204.2	332.3	300.8	31.47	10.559				
7,100.0	7,089.9	7,103.6	7,060.2	15.8	17.1	-79.06	-407.6	168.5	336.2	304.4	31.76	10.584				
7,200.0	7,185.4	7,191.5	7,135.9	15.9	17.2	-75.33	-407.6	123.9	341.3	309.4	31.93	10.690				
7,300.0	7,275.7	7,277.3	7,204.1	16.0	17.2	-71.97	-407.6	71.8	347.4	315.4	32.01	10.852				
7,400.0	7,359.3	7,361.5	7,264.4	16.1	17.2	-69.01	-407.6	13.2	353.9	321.8	32.07	11.035				
7,500.0	7,434.4	7,444.2	7,316.6	16.4	17.2	-66.47	-407.6	-51.0	360.3	328.1	32.21	11.184				
7,600.0	7,499.6	7,525.8	7,360.5	16.8	17.2	-64.36	-407.6	-119.7	366.3	333.7	32.60	11.236				
7,700.0	7,553.7	7,606.5	7,395.9	17.6	17.9	-62.68	-407.6	-192.1	371.5	338.1	33.37	11.133				
7,800.0	7,595.5	7,686.4	7,422.7	18.6	18.9	-61.41	-407.6	-267.4	375.7	341.1	34.65	10.843				
7,900.0	7,624.3	7,765.9	7,440.9	20.0	20.1	-60.56	-407.6	-344.7	378.7	342.2	36.50	10.374				
8,000.0	7,639.5	7,850.0	7,450.8	21.6	21.6	-60.10	-407.6	-428.2	380.3	341.3	38.99	9.753				
8,011.8	7,640.5	7,854.4	7,451.0	21.8	21.7	-60.09	-407.6	-432.6	380.4	341.1	39.25	9.691				
8,100.0	7,642.0	7,932.6	7,452.0	23.5	23.2	-60.05	-407.6	-510.8	380.5	338.6	41.96	9.069				
8,200.0	7,642.0	8,032.6	7,452.0	25.5	25.2	-60.05	-407.6	-610.8	380.5	335.1	45.44	8.373				
8,300.0	7,642.0	8,132.6	7,452.0	27.6	27.4	-60.05	-407.6	-710.8	380.5	331.3	49.17	7.738				
8,400.0	7,642.0	8,232.6	7,452.0	29.9	29.6	-60.04	-407.6	-810.8	380.5	327.4	53.09	7.167				
8,500.0	7,642.0	8,332.6	7,452.0	32.2	32.0	-60.04	-407.6	-910.8	380.5	323.3	57.17	6.656				
8,600.0	7,642.0	8,432.6	7,452.0	34.6	34.4	-60.04	-407.6	-1,010.8	380.5	319.2	61.37	6.201				
8,700.0	7,642.0	8,532.6	7,452.0	37.1	36.9	-60.04	-407.6	-1,110.8	380.5	314.9	65.66	5.795				
8,800.0	7,642.0	8,632.6	7,452.0	39.6	39.4	-60.04	-407.6	-1,210.8	380.5	310.5	70.04	5.433				
8,900.0	7,642.0	8,732.6	7,452.0	42.2	42.0	-60.04	-407.6	-1,310.8	380.5	306.0	74.48	5.109				
9,000.0	7,642.0	8,832.6	7,452.0	44.7	44.5	-60.04	-407.6	-1,410.8	380.5	301.5	78.98	4.818				
9,100.0	7,642.0	8,932.6	7,452.0	47.3	47.2	-60.04	-407.6	-1,510.8	380.5	297.0	83.52	4.556				
9,200.0	7,642.0	9,032.6	7,452.0	50.0	49.8	-60.04	-407.6	-1,610.8	380.5	292.4	88.11	4.319				
9,300.0	7,642.0	9,132.6	7,452.0	52.6	52.4	-60.04	-407.6	-1,710.8	380.5	287.8	92.72	4.104				
9,400.0	7,642.0	9,232.6	7,452.0	55.3	55.1	-60.04	-407.6	-1,810.8	380.5	283.1	97.37	3.908				
9,500.0	7,642.0	9,332.6	7,452.0	57.9	57.8	-60.04	-407.6	-1,910.8	380.5	278.5	102.04	3.729				
9,600.0	7,642.0	9,432.6	7,452.0	60.6	60.5	-60.04	-407.6	-2,010.8	380.5	273.8	106.73	3.565				
9,700.0	7,642.0	9,532.6	7,452.0	63.3	63.2	-60.04	-407.6	-2,110.8	380.5	269.1	111.44	3.415				

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

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32CHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-28-13)	<b>Offset TVD Reference:</b>	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		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,800.0	7,642.0	9,632.6	7,452.0	66.0	65.9	-60.04	-407.6	-2,210.8	380.5	264.3	116.17	3.276		
9,900.0	7,642.0	9,732.6	7,452.0	68.7	68.6	-60.04	-407.6	-2,310.8	380.5	259.6	120.91	3.147		
10,000.0	7,642.0	9,832.6	7,452.0	71.5	71.3	-60.04	-407.6	-2,410.8	380.5	254.9	125.66	3.028		
10,100.0	7,642.0	9,932.6	7,452.0	74.2	74.0	-60.04	-407.6	-2,510.8	380.5	250.1	130.43	2.917		
10,200.0	7,642.0	10,032.6	7,452.0	76.9	76.8	-60.04	-407.6	-2,610.8	380.5	245.3	135.20	2.814		
10,300.0	7,642.0	10,132.6	7,452.0	79.7	79.5	-60.04	-407.6	-2,710.8	380.5	240.5	139.99	2.718		
10,400.0	7,642.0	10,232.6	7,452.0	82.4	82.2	-60.04	-407.6	-2,810.8	380.5	235.7	144.78	2.628		
10,500.0	7,642.0	10,332.6	7,452.0	85.1	85.0	-60.04	-407.6	-2,910.8	380.5	230.9	149.58	2.544		
10,600.0	7,642.0	10,432.6	7,452.0	87.9	87.7	-60.04	-407.6	-3,010.8	380.5	226.1	154.39	2.465		
10,700.0	7,642.0	10,532.6	7,452.0	90.6	90.5	-60.04	-407.6	-3,110.8	380.5	221.3	159.20	2.390		
10,800.0	7,642.0	10,632.6	7,452.0	93.4	93.2	-60.04	-407.6	-3,210.8	380.5	216.5	164.02	2.320		
10,900.0	7,642.0	10,732.6	7,452.0	96.2	96.0	-60.04	-407.6	-3,310.8	380.5	211.7	168.85	2.254		
11,000.0	7,642.0	10,832.6	7,452.0	98.9	98.8	-60.04	-407.6	-3,410.8	380.5	206.8	173.68	2.191		
11,100.0	7,642.0	10,932.6	7,452.0	101.7	101.5	-60.04	-407.6	-3,510.8	380.5	202.0	178.51	2.132		
11,200.0	7,642.0	11,032.6	7,452.0	104.4	104.3	-60.04	-407.6	-3,610.8	380.5	197.2	183.35	2.075		
11,300.0	7,642.0	11,132.6	7,452.0	107.2	107.1	-60.04	-407.6	-3,710.8	380.5	192.3	188.19	2.022		
11,400.0	7,642.0	11,232.6	7,452.0	110.0	109.8	-60.04	-407.6	-3,810.8	380.5	187.5	193.03	1.971		
11,500.0	7,642.0	11,332.6	7,452.0	112.8	112.6	-60.04	-407.6	-3,910.8	380.5	182.6	197.88	1.923		
11,600.0	7,642.0	11,432.6	7,452.0	115.5	115.4	-60.04	-407.6	-4,010.8	380.5	177.8	202.73	1.877		
11,700.0	7,642.0	11,532.6	7,452.0	118.3	118.1	-60.04	-407.6	-4,110.8	380.5	172.9	207.59	1.833		
11,800.0	7,642.0	11,632.6	7,452.0	121.1	120.9	-60.04	-407.6	-4,210.8	380.5	168.1	212.44	1.791		
11,900.0	7,642.0	11,732.6	7,452.0	123.9	123.7	-60.04	-407.6	-4,310.8	380.5	163.2	217.30	1.751		
12,000.0	7,642.0	11,832.6	7,452.0	126.6	126.5	-60.04	-407.6	-4,410.8	380.5	158.4	222.16	1.713		
12,100.0	7,642.0	11,932.6	7,452.0	129.4	129.3	-60.04	-407.6	-4,510.8	380.5	153.5	227.02	1.676		
12,129.2	7,642.0	11,961.8	7,452.0	130.2	130.1	-60.04	-407.6	-4,540.0	380.5	152.1	228.44	1.666 SF		

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32CHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-28-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	77.73	16.0	73.7	75.4	75.4	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	77.73	16.0	73.7	75.4	75.2	0.23	332.120		
200.0	200.0	201.0	201.0	0.3	0.3	77.73	16.0	73.7	75.4	74.7	0.68	111.442		
300.0	300.0	301.0	301.0	0.6	0.6	77.73	16.0	73.7	75.4	74.3	1.13	66.954		
400.0	400.0	401.0	401.0	0.8	0.8	77.73	16.0	73.7	75.4	73.8	1.58	47.852		
500.0	500.0	501.0	501.0	1.0	1.0	77.73	16.0	73.7	75.4	73.4	2.03	37.230		
566.3	566.3	567.3	567.3	1.2	1.2	77.73	16.0	73.7	75.4	73.1	2.32	32.452 CC		
600.0	600.0	601.0	601.0	1.2	1.2	77.73	16.0	73.7	75.4	72.9	2.47	30.467 ES		
700.0	700.0	700.0	700.0	1.5	1.5	76.56	17.7	74.1	76.2	73.3	2.92	26.086		
800.0	800.0	798.3	798.1	1.7	1.7	73.28	22.7	75.4	78.8	75.5	3.37	23.388		
900.0	900.0	896.4	895.8	1.9	1.9	68.34	30.8	77.6	83.7	79.9	3.82	21.877		
1,000.0	1,000.0	994.8	993.7	2.1	2.2	62.57	41.8	80.6	91.1	86.8	4.29	21.201		
1,100.0	1,100.0	1,094.1	1,092.2	2.3	2.4	-50.72	53.2	83.6	98.4	93.7	4.73	20.791		
1,200.0	1,199.8	1,193.2	1,190.6	2.5	2.7	-57.16	64.7	86.6	104.7	99.5	5.16	20.275		
1,300.0	1,299.6	1,292.2	1,288.9	2.8	3.0	-63.58	76.1	89.7	111.5	105.9	5.60	19.899		
1,400.0	1,399.4	1,391.3	1,387.3	3.0	3.3	-69.20	87.5	92.7	119.6	113.5	6.05	19.766		
1,500.0	1,499.2	1,490.3	1,485.6	3.2	3.6	-74.09	98.9	95.8	128.7	122.2	6.50	19.793		
1,600.0	1,598.9	1,589.3	1,583.9	3.4	3.8	-78.31	110.3	98.8	138.5	131.6	6.96	19.919		
1,700.0	1,698.7	1,688.3	1,682.2	3.7	4.1	-81.96	121.7	101.9	149.1	141.7	7.41	20.104		
1,800.0	1,798.5	1,787.4	1,780.5	3.9	4.4	-85.12	133.1	104.9	160.1	152.3	7.88	20.323		
1,900.0	1,898.2	1,886.4	1,878.8	4.1	4.7	-87.87	144.5	107.9	171.6	163.3	8.35	20.559		
2,000.0	1,998.0	1,985.4	1,977.2	4.4	5.0	-90.27	155.9	111.0	183.4	174.6	8.82	20.800		
2,100.0	2,097.8	2,084.4	2,075.5	4.6	5.3	-92.37	167.3	114.0	195.5	186.2	9.29	21.039		
2,200.0	2,197.5	2,183.5	2,173.8	4.9	5.6	-94.23	178.7	117.1	207.9	198.1	9.77	21.273		
2,300.0	2,297.3	2,282.5	2,272.1	5.1	5.9	-95.88	190.1	120.1	220.4	210.1	10.25	21.498		
2,400.0	2,397.1	2,381.5	2,370.4	5.3	6.2	-97.36	201.5	123.2	233.1	222.3	10.73	21.714		
2,500.0	2,496.9	2,480.5	2,468.7	5.6	6.5	-98.68	212.9	126.2	245.9	234.7	11.22	21.920		
2,600.0	2,596.6	2,579.5	2,567.1	5.8	6.8	-99.87	224.3	129.3	258.8	247.1	11.70	22.115		
2,700.0	2,696.4	2,678.6	2,665.4	6.1	7.2	-100.95	235.7	132.3	271.9	259.7	12.19	22.300		
2,800.0	2,796.2	2,777.6	2,763.7	6.3	7.5	-101.92	247.1	135.3	285.0	272.3	12.68	22.476		
2,900.0	2,895.9	2,876.6	2,862.0	6.6	7.8	-102.82	258.5	138.4	298.2	285.0	13.17	22.642		
3,000.0	2,995.7	2,975.6	2,960.3	6.9	8.1	-103.63	269.9	141.4	311.5	297.8	13.66	22.799		
3,100.0	3,095.5	3,074.7	3,058.6	7.1	8.4	-104.38	281.3	144.5	324.8	310.6	14.15	22.948		
3,200.0	3,195.3	3,173.7	3,157.0	7.4	8.7	-105.07	292.7	147.5	338.1	323.5	14.65	23.088		
3,300.0	3,295.0	3,272.7	3,255.3	7.6	9.0	-105.71	304.1	150.6	351.6	336.4	15.14	23.222		
3,400.0	3,394.8	3,371.7	3,353.6	7.9	9.3	-106.30	315.5	153.6	365.0	349.4	15.63	23.348		
3,500.0	3,494.6	3,470.7	3,451.9	8.1	9.6	-106.85	326.9	156.6	378.5	362.4	16.13	23.468		
3,600.0	3,594.3	3,569.8	3,550.2	8.4	9.9	-107.36	338.3	159.7	392.0	375.4	16.62	23.582		
3,700.0	3,694.1	3,668.8	3,648.6	8.6	10.2	-107.84	349.7	162.7	405.6	388.5	17.12	23.690		
3,800.0	3,793.9	3,767.8	3,746.9	8.9	10.5	-108.28	361.1	165.8	419.2	401.5	17.62	23.793		
3,900.0	3,893.7	3,866.8	3,845.2	9.1	10.8	-108.70	372.5	168.8	432.8	414.6	18.11	23.891		
4,000.0	3,993.4	3,965.9	3,943.5	9.4	11.1	-109.09	383.9	171.9	446.4	427.8	18.61	23.984		
4,100.0	4,093.2	4,064.9	4,041.8	9.6	11.4	-109.46	395.3	174.9	460.0	440.9	19.11	24.073		
4,200.0	4,193.0	4,163.9	4,140.1	9.9	11.7	-109.81	406.7	177.9	473.7	454.1	19.61	24.158		
4,300.0	4,292.7	4,262.9	4,238.5	10.2	12.0	-110.14	418.1	181.0	487.4	467.2	20.11	24.239		
4,400.0	4,392.5	4,362.0	4,336.8	10.4	12.4	-110.45	429.5	184.0	501.0	480.4	20.60	24.317		
4,500.0	4,492.3	4,461.0	4,435.1	10.7	12.7	-110.74	440.9	187.1	514.7	493.6	21.10	24.391		
4,600.0	4,592.1	4,560.0	4,533.4	10.9	13.0	-111.02	452.3	190.1	528.5	506.9	21.60	24.462		
4,700.0	4,691.8	4,659.0	4,631.7	11.2	13.3	-111.29	463.7	193.2	542.2	520.1	22.10	24.531		
4,800.0	4,791.6	4,758.0	4,730.0	11.4	13.6	-111.54	475.1	196.2	555.9	533.3	22.60	24.596		
4,900.0	4,891.4	4,857.2	4,828.4	11.7	13.9	-111.87	486.5	199.2	569.2	546.1	23.09	24.653		

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



<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32CHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-28-13)	<b>Offset TVD Reference:</b>	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		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.0	4,991.4	4,956.4	4,927.0	11.8	14.2	-111.89	498.0	202.3	581.2	557.7	23.53	24.700		
5,100.0	5,091.4	5,055.7	5,025.6	12.0	14.5	-3.96	509.4	205.3	592.5	567.0	25.49	23.241		
5,200.0	5,191.4	5,155.0	5,124.1	12.2	14.8	-3.59	520.8	208.4	603.8	577.8	26.00	23.227		
5,300.0	5,291.4	5,254.3	5,222.7	12.4	15.1	-3.24	532.3	211.4	615.1	588.6	26.50	23.212		
5,400.0	5,391.4	5,353.5	5,321.3	12.6	15.4	-2.90	543.7	214.5	626.4	599.4	27.00	23.198		
5,500.0	5,491.4	5,452.8	5,419.9	12.8	15.7	-2.57	555.1	217.5	637.8	610.3	27.51	23.184		
5,600.0	5,591.4	5,552.1	5,518.5	13.0	16.0	-2.26	566.6	220.6	649.2	621.2	28.02	23.171		
5,700.0	5,691.4	5,651.4	5,617.0	13.2	16.4	-1.95	578.0	223.6	660.6	632.1	28.53	23.157		
5,800.0	5,791.4	5,750.7	5,715.6	13.4	16.7	-1.66	589.4	226.7	672.0	643.0	29.04	23.144		
5,900.0	5,891.4	5,850.0	5,814.2	13.6	17.0	-1.37	600.9	229.7	683.4	653.9	29.55	23.131		
6,000.0	5,991.4	5,949.3	5,912.8	13.8	17.3	-1.10	612.3	232.8	694.9	664.8	30.06	23.119		
6,100.0	6,091.4	6,048.6	6,011.4	13.9	17.6	-0.83	623.7	235.9	706.4	675.8	30.57	23.106		
6,200.0	6,191.4	6,147.8	6,109.9	14.1	17.9	-0.57	635.2	238.9	717.8	686.8	31.08	23.094		
6,300.0	6,291.4	6,263.5	6,224.9	14.3	18.2	-0.30	647.7	242.3	728.8	697.2	31.60	23.064		
6,400.0	6,391.4	6,395.9	6,356.9	14.5	18.5	-0.10	657.1	244.8	735.8	703.8	32.08	22.938		
6,500.0	6,491.4	6,529.0	6,489.9	14.7	18.7	-0.03	660.5	245.7	738.4	705.9	32.50	22.719		
6,600.0	6,591.4	6,631.5	6,592.4	14.9	18.9	-0.03	660.5	245.7	738.4	705.6	32.87	22.465		
6,700.0	6,691.4	6,731.5	6,692.4	15.1	19.0	-0.03	660.5	245.7	738.4	705.2	33.25	22.210		
6,800.0	6,791.4	6,831.5	6,792.4	15.3	19.2	-0.03	660.5	245.7	738.4	704.8	33.63	21.959		
6,900.0	6,891.4	6,931.5	6,892.4	15.5	19.4	-0.03	660.5	245.7	738.4	704.4	34.01	21.714		
7,000.0	6,991.3	7,031.5	6,992.3	15.7	19.5	89.97	660.5	242.6	738.4	706.5	31.97	23.095		
7,100.0	7,089.9	7,131.4	7,090.8	15.8	19.6	89.96	660.5	226.4	738.4	706.2	32.24	22.907		
7,200.0	7,185.4	7,231.3	7,186.1	15.9	19.7	89.95	660.5	196.7	738.4	706.0	32.45	22.758		
7,300.0	7,275.7	7,331.2	7,276.4	16.0	19.8	89.94	660.5	154.0	738.4	705.8	32.67	22.600		
7,400.0	7,359.3	7,431.1	7,359.8	16.1	19.9	89.93	660.5	99.2	738.4	705.4	33.02	22.366		
7,500.0	7,434.4	7,531.0	7,434.8	16.4	19.9	89.93	660.5	33.4	738.4	704.8	33.61	21.969		
7,600.0	7,499.6	7,630.8	7,499.8	16.8	20.1	89.92	660.5	-42.3	738.4	703.8	34.62	21.332		
7,700.0	7,553.7	7,730.7	7,553.8	17.6	20.4	89.92	660.5	-126.2	738.4	702.3	36.16	20.422		
7,800.0	7,595.5	7,830.5	7,595.6	18.6	21.1	89.92	660.5	-216.8	738.4	700.1	38.31	19.273		
7,900.0	7,624.3	7,930.4	7,624.3	20.0	22.2	89.92	660.5	-312.4	738.4	697.4	41.07	17.978		
8,000.0	7,639.5	8,030.2	7,639.5	21.6	23.7	89.92	660.5	-411.0	738.4	694.1	44.35	16.649		
8,100.0	7,642.0	8,130.2	7,642.0	23.5	25.4	89.92	660.5	-510.8	738.4	690.4	48.03	15.373		
8,200.0	7,642.0	8,230.2	7,642.0	25.5	27.3	89.92	660.5	-610.8	738.4	686.4	52.03	14.191		
8,300.0	7,642.0	8,330.2	7,642.0	27.6	29.4	89.92	660.5	-710.8	738.4	682.1	56.31	13.114		
8,400.0	7,642.0	8,430.2	7,642.0	29.9	31.6	89.92	660.5	-810.8	738.4	677.6	60.80	12.145		
8,500.0	7,642.0	8,530.2	7,642.0	32.2	33.9	89.92	660.5	-910.8	738.4	673.0	65.47	11.279		
8,600.0	7,642.0	8,630.2	7,642.0	34.6	36.2	89.92	660.5	-1,010.8	738.4	668.2	70.27	10.508		
8,700.0	7,642.0	8,730.2	7,642.0	37.1	38.6	89.92	660.5	-1,110.8	738.4	663.2	75.19	9.821		
8,800.0	7,642.0	8,830.2	7,642.0	39.6	41.1	89.92	660.5	-1,210.8	738.4	658.2	80.19	9.208		
8,900.0	7,642.0	8,930.2	7,642.0	42.2	43.6	89.92	660.5	-1,310.8	738.4	653.2	85.27	8.660		
9,000.0	7,642.0	9,030.2	7,642.0	44.7	46.2	89.92	660.5	-1,410.8	738.4	648.0	90.42	8.167		
9,100.0	7,642.0	9,130.2	7,642.0	47.3	48.7	89.92	660.5	-1,510.8	738.4	642.8	95.61	7.723		
9,200.0	7,642.0	9,230.2	7,642.0	50.0	51.3	89.92	660.5	-1,610.8	738.4	637.6	100.85	7.322		
9,300.0	7,642.0	9,330.2	7,642.0	52.6	53.9	89.92	660.5	-1,710.8	738.4	632.3	106.13	6.958		
9,400.0	7,642.0	9,430.2	7,642.0	55.3	56.6	89.92	660.5	-1,810.8	738.4	627.0	111.44	6.626		
9,500.0	7,642.0	9,530.2	7,642.0	57.9	59.2	89.92	660.5	-1,910.8	738.4	621.6	116.78	6.323		
9,600.0	7,642.0	9,630.2	7,642.0	60.6	61.9	89.92	660.5	-2,010.8	738.4	616.3	122.14	6.046		
9,700.0	7,642.0	9,730.2	7,642.0	63.3	64.5	89.92	660.5	-2,110.8	738.4	610.9	127.52	5.790		
9,800.0	7,642.0	9,830.2	7,642.0	66.0	67.2	89.92	660.5	-2,210.8	738.4	605.5	132.93	5.555		
9,900.0	7,642.0	9,930.2	7,642.0	68.7	69.9	89.92	660.5	-2,310.8	738.4	600.1	138.34	5.338		

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



<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32CHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-28-13)	<b>Offset TVD Reference:</b>	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		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,000.0	7,642.0	10,030.2	7,642.0	71.5	72.6	89.92	660.5	-2,410.8	738.4	594.6	143.78	5.136			
10,100.0	7,642.0	10,130.2	7,642.0	74.2	75.3	89.92	660.5	-2,510.8	738.4	589.2	149.22	4.948			
10,200.0	7,642.0	10,230.2	7,642.0	76.9	78.0	89.92	660.5	-2,610.8	738.4	583.7	154.68	4.774			
10,300.0	7,642.0	10,330.2	7,642.0	79.7	80.8	89.92	660.5	-2,710.8	738.4	578.3	160.15	4.611			
10,400.0	7,642.0	10,430.2	7,642.0	82.4	83.5	89.92	660.5	-2,810.8	738.4	572.8	165.63	4.458			
10,500.0	7,642.0	10,530.2	7,642.0	85.1	86.2	89.92	660.5	-2,910.8	738.4	567.3	171.11	4.315			
10,600.0	7,642.0	10,630.2	7,642.0	87.9	89.0	89.92	660.5	-3,010.8	738.4	561.8	176.61	4.181			
10,700.0	7,642.0	10,730.2	7,642.0	90.6	91.7	89.92	660.5	-3,110.8	738.4	556.3	182.11	4.055			
10,800.0	7,642.0	10,830.2	7,642.0	93.4	94.5	89.92	660.5	-3,210.8	738.4	550.8	187.61	3.936			
10,900.0	7,642.0	10,930.2	7,642.0	96.2	97.2	89.92	660.5	-3,310.8	738.4	545.3	193.13	3.824			
11,000.0	7,642.0	11,030.2	7,642.0	98.9	100.0	89.92	660.5	-3,410.8	738.4	539.8	198.64	3.717			
11,100.0	7,642.0	11,130.2	7,642.0	101.7	102.7	89.92	660.5	-3,510.8	738.4	534.3	204.17	3.617			
11,200.0	7,642.0	11,230.2	7,642.0	104.4	105.5	89.92	660.5	-3,610.8	738.4	528.7	209.70	3.521			
11,300.0	7,642.0	11,330.2	7,642.0	107.2	108.2	89.92	660.5	-3,710.8	738.4	523.2	215.23	3.431			
11,400.0	7,642.0	11,430.2	7,642.0	110.0	111.0	89.92	660.5	-3,810.8	738.4	517.7	220.76	3.345			
11,500.0	7,642.0	11,530.2	7,642.0	112.8	113.7	89.92	660.5	-3,910.8	738.4	512.1	226.30	3.263			
11,600.0	7,642.0	11,630.2	7,642.0	115.5	116.5	89.92	660.5	-4,010.8	738.4	506.6	231.84	3.185			
11,700.0	7,642.0	11,730.2	7,642.0	118.3	119.3	89.92	660.5	-4,110.8	738.4	501.0	237.39	3.111			
11,800.0	7,642.0	11,830.2	7,642.0	121.1	122.0	89.92	660.5	-4,210.8	738.4	495.5	242.94	3.040			
11,900.0	7,642.0	11,930.2	7,642.0	123.9	124.8	89.92	660.5	-4,310.8	738.4	489.9	248.49	2.972			
12,000.0	7,642.0	12,030.2	7,642.0	126.6	127.6	89.92	660.5	-4,410.8	738.4	484.4	254.04	2.907			
12,100.0	7,642.0	12,130.2	7,642.0	129.4	130.4	89.92	660.5	-4,510.8	738.4	478.8	259.60	2.844			
12,124.2	7,642.0	12,154.4	7,642.0	130.1	131.0	89.92	660.5	-4,535.0	738.4	477.5	260.94	2.830			
12,129.2	7,642.0	12,158.6	7,642.0	130.2	131.2	89.92	660.5	-4,539.3	738.4	477.2	261.20	2.827 SF			

SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps A-32NHZ - Wellbore #1 - Plan #1 (10-28-													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	1.0	1.0	0.0	0.0	77.73	20.8	95.5	97.8	97.8	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	77.73	20.8	95.5	97.8	97.5	0.23	430.606		
200.0	200.0	201.0	201.0	0.3	0.3	77.73	20.8	95.5	97.8	97.1	0.68	144.489		
300.0	300.0	301.0	301.0	0.6	0.6	77.73	20.8	95.5	97.8	96.6	1.13	86.809		
400.0	400.0	401.0	401.0	0.8	0.8	77.73	20.8	95.5	97.8	96.2	1.58	62.042		
500.0	500.0	501.0	501.0	1.0	1.0	77.73	20.8	95.5	97.8	95.7	2.03	48.270		
600.0	600.0	601.0	601.0	1.2	1.2	77.73	20.8	95.5	97.8	95.3	2.47	39.502		
700.0	700.0	701.0	701.0	1.5	1.5	77.73	20.8	95.5	97.8	94.8	2.92	33.429		
766.3	766.3	767.3	767.3	1.6	1.6	77.73	20.8	95.5	97.8	94.5	3.22	30.336	CC	
800.0	800.0	800.0	800.0	1.7	1.7	77.73	20.8	95.5	97.8	94.4	3.37	28.996	ES	
900.0	900.0	898.6	898.6	1.9	1.9	77.04	22.2	96.4	99.0	95.2	3.82	25.943		
1,000.0	1,000.0	997.0	996.9	2.1	2.1	75.07	26.5	99.2	102.8	98.5	4.26	24.116		
1,100.0	1,100.0	1,095.7	1,095.3	2.3	2.4	-35.41	32.1	102.9	106.5	101.8	4.68	22.740		
1,200.0	1,199.8	1,195.4	1,194.8	2.5	2.6	-39.30	37.9	106.6	107.8	102.7	5.10	21.148		
1,300.0	1,299.6	1,295.1	1,294.2	2.8	2.8	-43.65	43.6	110.3	108.5	103.0	5.53	19.630		
1,400.0	1,399.4	1,394.7	1,393.6	3.0	3.1	-47.91	49.4	114.1	109.9	103.9	5.97	18.409		
1,500.0	1,499.2	1,494.4	1,493.0	3.2	3.3	-52.05	55.1	117.8	111.8	105.4	6.41	17.427		
1,600.0	1,598.9	1,594.0	1,592.5	3.4	3.5	-56.04	60.9	121.5	114.3	107.4	6.87	16.640		
1,700.0	1,698.7	1,693.7	1,691.9	3.7	3.8	-59.84	66.6	125.3	117.3	109.9	7.32	16.011		
1,800.0	1,798.5	1,793.4	1,791.3	3.9	4.0	-63.43	72.4	129.0	120.8	113.0	7.79	15.509		
1,900.0	1,898.2	1,893.0	1,890.7	4.1	4.3	-66.81	78.1	132.7	124.7	116.5	8.25	15.110		
2,000.0	1,998.0	1,992.7	1,990.2	4.4	4.5	-69.97	83.9	136.4	129.1	120.3	8.72	14.794		
2,100.0	2,097.8	2,092.3	2,089.6	4.6	4.8	-72.92	89.6	140.2	133.8	124.6	9.20	14.546		
2,200.0	2,197.5	2,192.0	2,189.0	4.9	5.0	-75.67	95.4	143.9	138.9	129.2	9.67	14.353		
2,300.0	2,297.3	2,291.6	2,288.4	5.1	5.3	-78.21	101.1	147.6	144.2	134.1	10.15	14.204		
2,400.0	2,397.1	2,391.3	2,387.9	5.3	5.5	-80.57	106.9	151.3	149.8	139.2	10.63	14.090		
2,500.0	2,496.9	2,491.0	2,487.3	5.6	5.8	-82.76	112.6	155.1	155.7	144.6	11.12	14.006		
2,600.0	2,596.6	2,590.6	2,586.7	5.8	6.0	-84.78	118.4	158.8	161.7	150.1	11.60	13.945		
2,700.0	2,696.4	2,690.3	2,686.1	6.1	6.3	-86.66	124.1	162.5	168.0	155.9	12.08	13.903		
2,800.0	2,796.2	2,789.9	2,785.5	6.3	6.5	-88.40	129.9	166.2	174.4	161.8	12.57	13.876		
2,900.0	2,895.9	2,889.6	2,885.0	6.6	6.8	-90.02	135.6	170.0	181.0	167.9	13.06	13.862		
3,000.0	2,995.7	2,989.3	2,984.4	6.9	7.0	-91.52	141.3	173.7	187.7	174.1	13.54	13.859		
3,100.0	3,095.5	3,088.9	3,083.8	7.1	7.3	-92.92	147.1	177.4	194.5	180.5	14.03	13.863		
3,200.0	3,195.3	3,188.6	3,183.2	7.4	7.5	-94.22	152.8	181.1	201.4	186.9	14.52	13.874		
3,300.0	3,295.0	3,288.2	3,282.7	7.6	7.8	-95.44	158.6	184.9	208.5	193.4	15.01	13.891		
3,400.0	3,394.8	3,387.9	3,382.1	7.9	8.0	-96.58	164.3	188.6	215.6	200.1	15.50	13.912		
3,500.0	3,494.6	3,487.5	3,481.5	8.1	8.3	-97.64	170.1	192.3	222.8	206.8	15.98	13.936		
3,600.0	3,594.3	3,587.2	3,580.9	8.4	8.6	-98.64	175.8	196.0	230.0	213.5	16.47	13.963		
3,700.0	3,694.1	3,686.9	3,680.3	8.6	8.8	-99.57	181.6	199.8	237.4	220.4	16.96	13.992		
3,800.0	3,793.9	3,786.5	3,779.8	8.9	9.1	-100.45	187.3	203.5	244.7	227.3	17.45	14.022		
3,900.0	3,893.7	3,886.2	3,879.2	9.1	9.3	-101.28	193.1	207.2	252.2	234.2	17.94	14.054		
4,000.0	3,993.4	3,985.8	3,978.6	9.4	9.6	-102.06	198.8	210.9	259.7	241.2	18.43	14.086		
4,100.0	4,093.2	4,085.5	4,078.0	9.6	9.8	-102.80	204.6	214.7	267.2	248.3	18.92	14.119		
4,200.0	4,193.0	4,185.2	4,177.5	9.9	10.1	-103.49	210.3	218.4	274.8	255.4	19.42	14.153		
4,300.0	4,292.7	4,284.8	4,276.9	10.2	10.3	-104.15	216.1	222.1	282.4	262.5	19.91	14.187		
4,400.0	4,392.5	4,384.5	4,376.3	10.4	10.6	-104.77	221.8	225.8	290.1	269.7	20.40	14.220		
4,500.0	4,492.3	4,484.1	4,475.7	10.7	10.8	-105.37	227.6	229.6	297.7	276.9	20.89	14.254		
4,600.0	4,592.1	4,583.8	4,575.2	10.9	11.1	-105.93	233.3	233.3	305.5	284.1	21.38	14.287		
4,700.0	4,691.8	4,683.4	4,674.6	11.2	11.3	-106.46	239.1	237.0	313.2	291.3	21.87	14.320		
4,800.0	4,791.6	4,783.1	4,774.0	11.4	11.6	-106.97	244.8	240.7	321.0	298.6	22.36	14.353		
4,900.0	4,891.4	4,890.3	4,881.0	11.7	11.8	-107.46	250.1	244.2	327.6	304.7	22.82	14.354		

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<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32CHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-28-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps A-32NHZ - Wellbore #1 - Plan #1 (10-28-										Offset Site Error:		0.0 ft			
Survey Program: 0-MWD														Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor					
5,000.0	4,991.4	5,000.9	4,991.6	11.8	12.0	-107.65	252.2	245.5	330.1	306.9	23.20	14.227					
5,100.0	5,091.4	5,101.7	5,092.4	12.0	12.2	-0.08	252.2	245.5	330.1	306.9	23.15	14.258					
5,200.0	5,191.4	5,201.7	5,192.4	12.2	12.4	-0.08	252.2	245.5	330.1	306.5	23.55	14.015					
5,300.0	5,291.4	5,301.7	5,292.4	12.4	12.6	-0.08	252.2	245.5	330.1	306.1	23.95	13.779					
5,400.0	5,391.4	5,401.7	5,392.4	12.6	12.8	-0.08	252.2	245.5	330.1	305.7	24.36	13.550					
5,500.0	5,491.4	5,501.7	5,492.4	12.8	13.0	-0.08	252.2	245.5	330.1	305.3	24.77	13.328					
5,600.0	5,591.4	5,601.7	5,592.4	13.0	13.2	-0.08	252.2	245.5	330.1	304.9	25.17	13.112					
5,700.0	5,691.4	5,701.7	5,692.4	13.2	13.4	-0.08	252.2	245.5	330.1	304.5	25.58	12.902					
5,800.0	5,791.4	5,801.7	5,792.4	13.4	13.6	-0.08	252.2	245.5	330.1	304.1	25.99	12.698					
5,900.0	5,891.4	5,901.7	5,892.4	13.6	13.8	-0.08	252.2	245.5	330.1	303.7	26.41	12.500					
6,000.0	5,991.4	6,001.7	5,992.4	13.8	14.1	-0.08	252.2	245.5	330.1	303.2	26.82	12.307					
6,100.0	6,091.4	6,101.7	6,092.4	13.9	14.3	-0.08	252.2	245.5	330.1	302.8	27.23	12.120					
6,200.0	6,191.4	6,201.7	6,192.4	14.1	14.5	-0.08	252.2	245.5	330.1	302.4	27.65	11.938					
6,300.0	6,291.4	6,301.7	6,292.4	14.3	14.7	-0.08	252.2	245.5	330.1	302.0	28.06	11.761					
6,400.0	6,391.4	6,401.7	6,392.4	14.5	14.9	-0.08	252.2	245.5	330.1	301.6	28.48	11.589					
6,500.0	6,491.4	6,501.7	6,492.4	14.7	15.1	-0.08	252.2	245.5	330.1	301.2	28.90	11.421					
6,600.0	6,591.4	6,601.7	6,592.4	14.9	15.3	-0.08	252.2	245.5	330.1	300.7	29.32	11.257					
6,700.0	6,691.4	6,701.7	6,692.4	15.1	15.5	-0.08	252.2	245.5	330.1	300.3	29.74	11.098					
6,744.1	6,735.5	6,745.8	6,736.5	15.2	15.6	-0.08	252.2	245.5	330.1	300.1	29.93	11.030					
6,800.0	6,791.4	6,801.6	6,792.2	15.3	15.7	-0.48	252.2	243.2	330.1	299.9	30.14	10.950					
6,900.0	6,891.4	6,899.2	6,888.6	15.5	15.8	-2.98	252.2	228.8	330.5	300.0	30.52	10.828					
7,000.0	6,991.3	6,992.1	6,977.9	15.7	16.0	82.89	252.2	203.0	332.8	301.6	31.21	10.662					
7,100.0	7,089.9	7,082.2	7,060.4	15.8	16.0	78.84	252.2	167.2	336.8	305.4	31.43	10.717					
7,200.0	7,185.4	7,169.9	7,135.9	15.9	16.1	75.09	252.2	122.7	342.1	310.6	31.57	10.836					
7,300.0	7,275.7	7,255.5	7,203.8	16.0	16.2	71.72	252.2	70.6	348.3	316.6	31.69	10.993					
7,400.0	7,359.3	7,339.5	7,263.9	16.1	16.6	68.76	252.2	12.0	354.9	323.1	31.83	11.148					
7,500.0	7,434.4	7,422.0	7,315.9	16.4	17.1	66.21	252.2	-52.1	361.4	329.3	32.12	11.253					
7,600.0	7,499.6	7,500.0	7,358.0	16.8	17.8	64.17	252.2	-117.7	367.5	334.9	32.64	11.262					
7,700.0	7,553.7	7,583.9	7,394.9	17.6	18.7	62.42	252.2	-192.9	372.8	339.2	33.59	11.097					
7,800.0	7,595.5	7,663.7	7,421.7	18.6	19.8	61.16	252.2	-268.0	377.0	342.0	35.01	10.769					
7,900.0	7,624.3	7,742.9	7,439.9	20.0	21.1	60.32	252.2	-345.1	380.0	343.1	36.96	10.281					
8,000.0	7,639.5	7,821.9	7,449.4	21.6	22.5	59.88	252.2	-423.5	381.6	342.2	39.44	9.675					
8,100.0	7,642.0	7,909.3	7,451.0	23.5	24.2	59.81	252.2	-510.8	381.8	339.4	42.48	8.989					
8,200.0	7,642.0	8,009.3	7,451.0	25.5	26.2	59.81	252.2	-610.8	381.8	335.9	45.99	8.303					
8,300.0	7,642.0	8,109.3	7,451.0	27.6	28.4	59.81	252.2	-710.8	381.8	332.1	49.74	7.678					
8,400.0	7,642.0	8,209.3	7,451.0	29.9	30.7	59.81	252.2	-810.8	381.8	328.2	53.67	7.115					
8,500.0	7,642.0	8,309.3	7,451.0	32.2	33.0	59.81	252.2	-910.8	381.8	324.1	57.76	6.611					
8,600.0	7,642.0	8,409.3	7,451.0	34.6	35.5	59.81	252.2	-1,010.8	381.8	319.9	61.96	6.163					
8,700.0	7,642.0	8,509.3	7,451.0	37.1	37.9	59.81	252.2	-1,110.8	381.8	315.6	66.26	5.763					
8,800.0	7,642.0	8,609.3	7,451.0	39.6	40.5	59.81	252.2	-1,210.8	381.8	311.2	70.64	5.405					
8,900.0	7,642.0	8,709.3	7,451.0	42.2	43.0	59.81	252.2	-1,310.8	381.8	306.8	75.09	5.085					
9,000.0	7,642.0	8,809.3	7,451.0	44.7	45.6	59.81	252.2	-1,410.8	381.8	302.3	79.59	4.798					
9,100.0	7,642.0	8,909.3	7,451.0	47.3	48.2	59.81	252.2	-1,510.8	381.8	297.7	84.13	4.539					
9,200.0	7,642.0	9,009.3	7,451.0	50.0	50.8	59.81	252.2	-1,610.8	381.8	293.1	88.72	4.304					
9,300.0	7,642.0	9,109.3	7,451.0	52.6	53.5	59.81	252.2	-1,710.8	381.8	288.5	93.34	4.091					
9,400.0	7,642.0	9,209.3	7,451.0	55.3	56.2	59.81	252.2	-1,810.8	381.8	283.9	97.98	3.897					
9,500.0	7,642.0	9,309.3	7,451.0	57.9	58.8	59.81	252.2	-1,910.8	381.8	279.2	102.65	3.720					
9,600.0	7,642.0	9,409.3	7,451.0	60.6	61.5	59.81	252.2	-2,010.8	381.8	274.5	107.35	3.557					
9,700.0	7,642.0	9,509.3	7,451.0	63.3	64.2	59.81	252.2	-2,110.8	381.8	269.8	112.06	3.408					
9,800.0	7,642.0	9,609.3	7,451.0	66.0	66.9	59.81	252.2	-2,210.8	381.8	265.1	116.78	3.270					

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

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32CHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-28-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps A-32NHZ - Wellbore #1 - Plan #1 (10-28-										Offset Site Error:		0.0 ft
Survey Program: 0-MWD												Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
9,900.0	7,642.0	9,709.3	7,451.0	68.7	69.6	59.81	252.2	-2,310.8	381.8	260.3	121.53	3.142		
10,000.0	7,642.0	9,809.3	7,451.0	71.5	72.4	59.81	252.2	-2,410.8	381.8	255.6	126.28	3.024		
10,100.0	7,642.0	9,909.3	7,451.0	74.2	75.1	59.81	252.2	-2,510.8	381.8	250.8	131.05	2.914		
10,200.0	7,642.0	10,009.3	7,451.0	76.9	77.8	59.81	252.2	-2,610.8	381.8	246.0	135.82	2.811		
10,300.0	7,642.0	10,109.3	7,451.0	79.7	80.6	59.81	252.2	-2,710.8	381.8	241.2	140.61	2.716		
10,400.0	7,642.0	10,209.3	7,451.0	82.4	83.3	59.81	252.2	-2,810.8	381.8	236.4	145.40	2.626		
10,500.0	7,642.0	10,309.3	7,451.0	85.1	86.0	59.81	252.2	-2,910.8	381.8	231.6	150.20	2.542		
10,600.0	7,642.0	10,409.3	7,451.0	87.9	88.8	59.81	252.2	-3,010.8	381.8	226.8	155.01	2.463		
10,700.0	7,642.0	10,509.3	7,451.0	90.6	91.5	59.81	252.2	-3,110.8	381.8	222.0	159.82	2.389		
10,800.0	7,642.0	10,609.3	7,451.0	93.4	94.3	59.81	252.2	-3,210.8	381.8	217.2	164.64	2.319		
10,900.0	7,642.0	10,709.3	7,451.0	96.2	97.1	59.81	252.2	-3,310.8	381.8	212.4	169.47	2.253		
11,000.0	7,642.0	10,809.3	7,451.0	98.9	99.8	59.81	252.2	-3,410.8	381.8	207.6	174.29	2.191		
11,100.0	7,642.0	10,909.3	7,451.0	101.7	102.6	59.81	252.2	-3,510.8	381.8	202.7	179.13	2.132		
11,200.0	7,642.0	11,009.3	7,451.0	104.4	105.4	59.81	252.2	-3,610.8	381.8	197.9	183.97	2.076		
11,300.0	7,642.0	11,109.3	7,451.0	107.2	108.1	59.81	252.2	-3,710.8	381.8	193.0	188.81	2.022		
11,400.0	7,642.0	11,209.3	7,451.0	110.0	110.9	59.81	252.2	-3,810.8	381.8	188.2	193.65	1.972		
11,500.0	7,642.0	11,309.3	7,451.0	112.8	113.7	59.81	252.2	-3,910.8	381.8	183.3	198.50	1.924		
11,600.0	7,642.0	11,409.3	7,451.0	115.5	116.4	59.81	252.2	-4,010.8	381.8	178.5	203.35	1.878		
11,700.0	7,642.0	11,509.3	7,451.0	118.3	119.2	59.81	252.2	-4,110.8	381.8	173.6	208.20	1.834		
11,800.0	7,642.0	11,609.3	7,451.0	121.1	122.0	59.81	252.2	-4,210.8	381.8	168.8	213.06	1.792		
11,900.0	7,642.0	11,709.3	7,451.0	123.9	124.8	59.81	252.2	-4,310.8	381.8	163.9	217.92	1.752		
12,000.0	7,642.0	11,809.3	7,451.0	126.6	127.5	59.81	252.2	-4,410.8	381.8	159.1	222.78	1.714		
12,100.0	7,642.0	11,909.3	7,451.0	129.4	130.2	59.81	252.2	-4,510.8	381.8	154.3	227.56	1.678		
12,129.2	7,642.0	11,938.4	7,451.0	130.2	130.7	59.81	252.2	-4,540.0	381.8	153.1	228.72	1.669 SF		

Reference Depths are relative to WELL @ 5030.0ft (Ensign Rig #12 - RCoordinates are relative to: SRC Phelps 12-32CHZ  
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°



<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #12 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32CHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-28-13)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5030.0ft (Ensign Rig #12 - RCoordinates are relative to: SRC Phelps 12-32CHZ  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000 °  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.46°

