

# Synergy Resources

Well Name: **SRC Phelps 11-32CHZ**

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

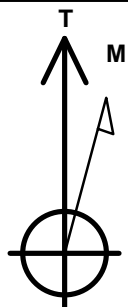
Ground Elevation: 5018.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1247305.76	3198190.46	40.010070	-104.792453	

RKB - 12' WELL @ 5030.0ft (RKB - 12')

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 1777'FNL, 274'FEL	1.0	0.0	0.0	Point
BHL 460'FNL, 460'FWL	7641.0	1315.5	-4560.4	Point



Azimuths to True North  
Magnetic North: 8.53°

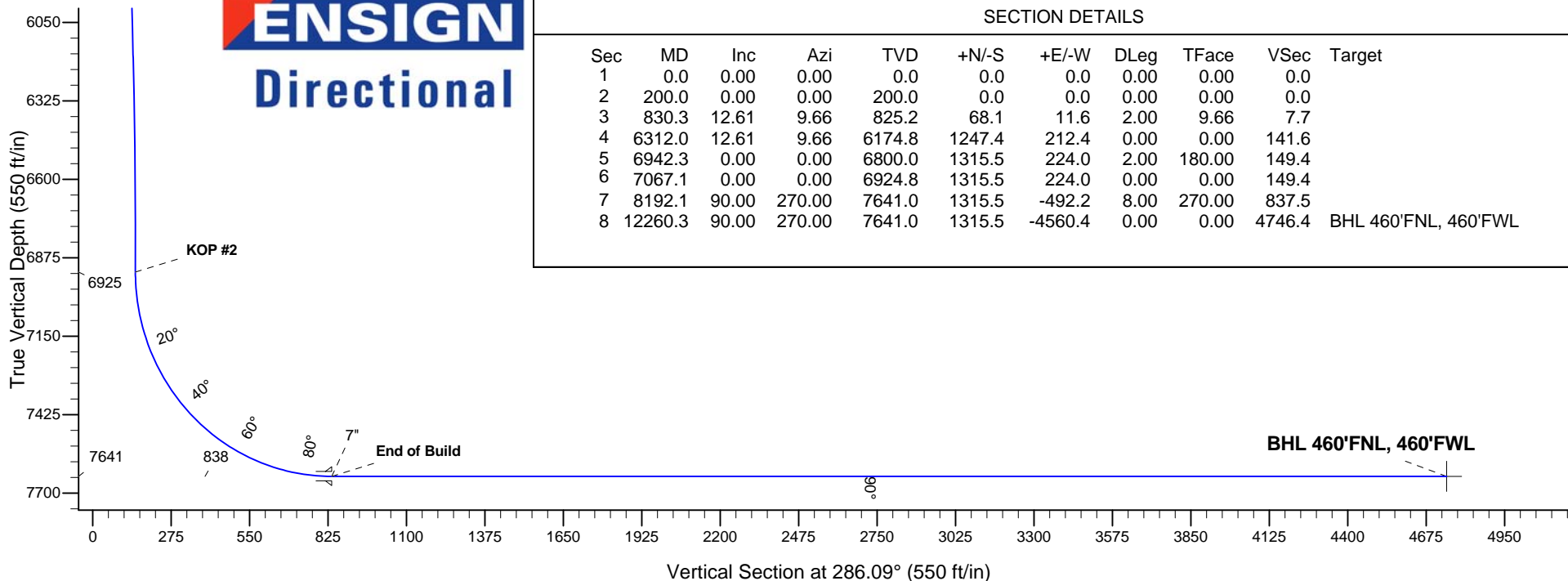
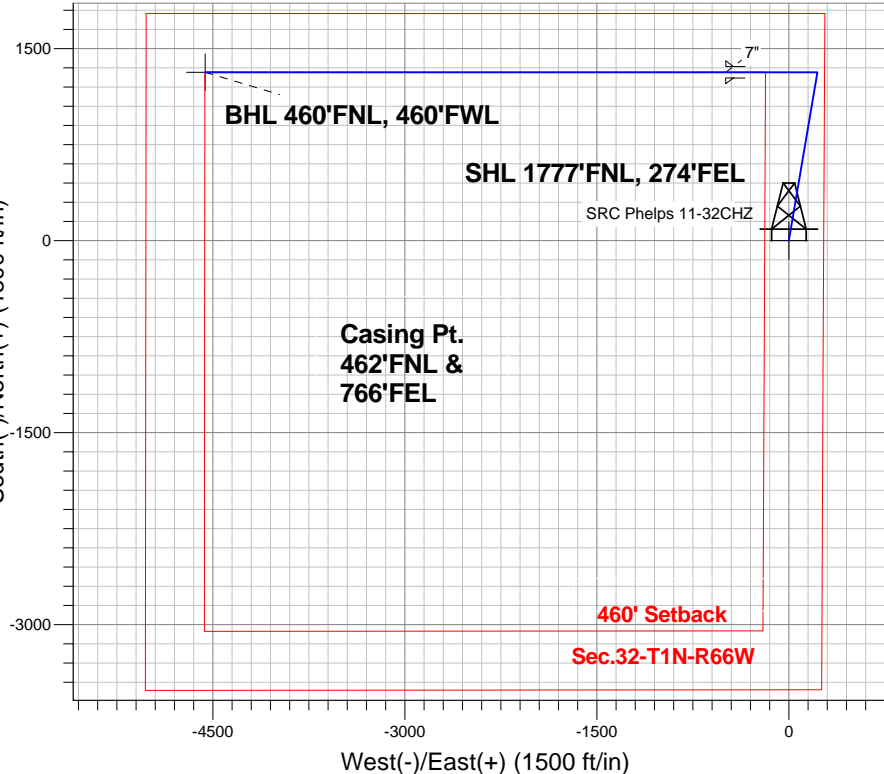
Magnetic Field  
Strength: 52672.0snT  
Dip Angle: 66.65°  
Date: 10/28/2013  
Model: IGRF2010

SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W  
SRC Phelps 11-32CHZ  
Plan #1 (10-28-13)  
15:27, October 28 2013

## ANNOTATIONS

TVD	MD	Annotation
200.0	200.0	KOP #1
6924.8	7067.1	KOP #2
7641.0	8192.1	End of Build

South(-)/North(+) (1500 ft/in)



## 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	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	830.3	12.61	9.66	825.2	68.1	11.6	2.00	9.66	7.7	
4	6312.0	12.61	9.66	6174.8	1247.4	212.4	0.00	0.00	141.6	
5	6942.3	0.00	0.00	6800.0	1315.5	224.0	2.00	180.00	149.4	
6	7067.1	0.00	0.00	6924.8	1315.5	224.0	0.00	0.00	149.4	
7	8192.1	90.00	270.00	7641.0	1315.5	-492.2	8.00	270.00	837.5	
8	12260.3	90.00	270.00	7641.0	1315.5	-4560.4	0.00	0.00	4746.4	BHL 460'FNL, 460'FWL



## **Synergy Resources**

**SEC.32-T1N-R66W**

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

**SRC Phelps 11-32CHZ**

**Wellbore #1**

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

## **Standard Planning Report**

**28 October, 2013**

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 11-32CHZ
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Project:</b>	SEC.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Phelps 11-32CHZ	<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 11-32CHZ					
Well Position	+N/-S	-16.0 ft	Northing:	1,247,305.76 ft	Latitude:	40.010070
	+E/-W	-73.4 ft	Easting:	3,198,190.46 ft	Longitude:	-104.792453
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,018.0 ft

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

<b>Design</b>	Plan #1 (10-28-13)			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	286.09

<b>Plan Sections</b>										
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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
830.3	12.61	9.66	825.2	68.1	11.6	2.00	2.00	0.00	9.66	
6,312.0	12.61	9.66	6,174.8	1,247.4	212.4	0.00	0.00	0.00	0.00	
6,942.3	0.00	0.00	6,800.0	1,315.5	224.0	2.00	-2.00	0.00	180.00	
7,067.1	0.00	0.00	6,924.8	1,315.5	224.0	0.00	0.00	0.00	0.00	
8,192.1	90.00	270.00	7,641.0	1,315.5	-492.2	8.00	8.00	0.00	270.00	
12,260.3	90.00	270.00	7,641.0	1,315.5	-4,560.4	0.00	0.00	0.00	0.00	BHL 460'FNL, 460'f

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 11-32CHZ
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Project:</b>	SEC.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Phelps 11-32CHZ	<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
SHL 1777'FNL, 274'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
KOP #1									
300.0	2.00	9.66	300.0	1.7	0.3	0.2	2.00	2.00	0.00
400.0	4.00	9.66	399.8	6.9	1.2	0.8	2.00	2.00	0.00
500.0	6.00	9.66	499.5	15.5	2.6	1.8	2.00	2.00	0.00
600.0	8.00	9.66	598.7	27.5	4.7	3.1	2.00	2.00	0.00
700.0	10.00	9.66	697.5	42.9	7.3	4.9	2.00	2.00	0.00
800.0	12.00	9.66	795.6	61.7	10.5	7.0	2.00	2.00	0.00
830.3	12.61	9.66	825.2	68.1	11.6	7.7	2.00	2.00	0.00
900.0	12.61	9.66	893.2	83.1	14.1	9.4	0.00	0.00	0.00
1,000.0	12.61	9.66	990.8	104.6	17.8	11.9	0.00	0.00	0.00
1,100.0	12.61	9.66	1,088.4	126.1	21.5	14.3	0.00	0.00	0.00
1,200.0	12.61	9.66	1,186.0	147.6	25.1	16.8	0.00	0.00	0.00
1,300.0	12.61	9.66	1,283.6	169.1	28.8	19.2	0.00	0.00	0.00
1,400.0	12.61	9.66	1,381.2	190.6	32.5	21.6	0.00	0.00	0.00
1,500.0	12.61	9.66	1,478.8	212.2	36.1	24.1	0.00	0.00	0.00
1,600.0	12.61	9.66	1,576.4	233.7	39.8	26.5	0.00	0.00	0.00
1,700.0	12.61	9.66	1,674.0	255.2	43.5	29.0	0.00	0.00	0.00
1,800.0	12.61	9.66	1,771.6	276.7	47.1	31.4	0.00	0.00	0.00
1,900.0	12.61	9.66	1,869.1	298.2	50.8	33.9	0.00	0.00	0.00
2,000.0	12.61	9.66	1,966.7	319.7	54.4	36.3	0.00	0.00	0.00
2,100.0	12.61	9.66	2,064.3	341.2	58.1	38.7	0.00	0.00	0.00
2,200.0	12.61	9.66	2,161.9	362.8	61.8	41.2	0.00	0.00	0.00
2,300.0	12.61	9.66	2,259.5	384.3	65.4	43.6	0.00	0.00	0.00
2,400.0	12.61	9.66	2,357.1	405.8	69.1	46.1	0.00	0.00	0.00
2,500.0	12.61	9.66	2,454.7	427.3	72.8	48.5	0.00	0.00	0.00
2,600.0	12.61	9.66	2,552.3	448.8	76.4	51.0	0.00	0.00	0.00
2,700.0	12.61	9.66	2,649.9	470.3	80.1	53.4	0.00	0.00	0.00
2,800.0	12.61	9.66	2,747.4	491.8	83.8	55.9	0.00	0.00	0.00
2,900.0	12.61	9.66	2,845.0	513.4	87.4	58.3	0.00	0.00	0.00
3,000.0	12.61	9.66	2,942.6	534.9	91.1	60.7	0.00	0.00	0.00
3,100.0	12.61	9.66	3,040.2	556.4	94.7	63.2	0.00	0.00	0.00
3,200.0	12.61	9.66	3,137.8	577.9	98.4	65.6	0.00	0.00	0.00
3,300.0	12.61	9.66	3,235.4	599.4	102.1	68.1	0.00	0.00	0.00
3,400.0	12.61	9.66	3,333.0	620.9	105.7	70.5	0.00	0.00	0.00
3,500.0	12.61	9.66	3,430.6	642.4	109.4	73.0	0.00	0.00	0.00
3,600.0	12.61	9.66	3,528.2	664.0	113.1	75.4	0.00	0.00	0.00
3,700.0	12.61	9.66	3,625.8	685.5	116.7	77.8	0.00	0.00	0.00
3,800.0	12.61	9.66	3,723.3	707.0	120.4	80.3	0.00	0.00	0.00
3,900.0	12.61	9.66	3,820.9	728.5	124.0	82.7	0.00	0.00	0.00
4,000.0	12.61	9.66	3,918.5	750.0	127.7	85.2	0.00	0.00	0.00
4,100.0	12.61	9.66	4,016.1	771.5	131.4	87.6	0.00	0.00	0.00
4,200.0	12.61	9.66	4,113.7	793.0	135.0	90.1	0.00	0.00	0.00
4,300.0	12.61	9.66	4,211.3	814.6	138.7	92.5	0.00	0.00	0.00
4,400.0	12.61	9.66	4,308.9	836.1	142.4	94.9	0.00	0.00	0.00
4,500.0	12.61	9.66	4,406.5	857.6	146.0	97.4	0.00	0.00	0.00
4,600.0	12.61	9.66	4,504.1	879.1	149.7	99.8	0.00	0.00	0.00
4,700.0	12.61	9.66	4,601.6	900.6	153.4	102.3	0.00	0.00	0.00
4,800.0	12.61	9.66	4,699.2	922.1	157.0	104.7	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 11-32CHZ
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Project:</b>	SEC.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Phelps 11-32CHZ	<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)
4,900.0	12.61	9.66	4,796.8	943.6	160.7	107.2	0.00	0.00	0.00
5,000.0	12.61	9.66	4,894.4	965.2	164.3	109.6	0.00	0.00	0.00
5,100.0	12.61	9.66	4,992.0	986.7	168.0	112.0	0.00	0.00	0.00
5,200.0	12.61	9.66	5,089.6	1,008.2	171.7	114.5	0.00	0.00	0.00
5,300.0	12.61	9.66	5,187.2	1,029.7	175.3	116.9	0.00	0.00	0.00
5,400.0	12.61	9.66	5,284.8	1,051.2	179.0	119.4	0.00	0.00	0.00
5,500.0	12.61	9.66	5,382.4	1,072.7	182.7	121.8	0.00	0.00	0.00
5,600.0	12.61	9.66	5,480.0	1,094.2	186.3	124.3	0.00	0.00	0.00
5,700.0	12.61	9.66	5,577.5	1,115.8	190.0	126.7	0.00	0.00	0.00
5,800.0	12.61	9.66	5,675.1	1,137.3	193.7	129.1	0.00	0.00	0.00
5,900.0	12.61	9.66	5,772.7	1,158.8	197.3	131.6	0.00	0.00	0.00
6,000.0	12.61	9.66	5,870.3	1,180.3	201.0	134.0	0.00	0.00	0.00
6,100.0	12.61	9.66	5,967.9	1,201.8	204.6	136.5	0.00	0.00	0.00
6,200.0	12.61	9.66	6,065.5	1,223.3	208.3	138.9	0.00	0.00	0.00
6,300.0	12.61	9.66	6,163.1	1,244.8	212.0	141.4	0.00	0.00	0.00
6,312.0	12.61	9.66	6,174.8	1,247.4	212.4	141.6	0.00	0.00	0.00
6,400.0	10.85	9.66	6,261.0	1,265.1	215.4	143.7	2.00	-2.00	0.00
6,500.0	8.85	9.66	6,359.5	1,281.9	218.3	145.6	2.00	-2.00	0.00
6,600.0	6.85	9.66	6,458.5	1,295.4	220.6	147.1	2.00	-2.00	0.00
6,700.0	4.85	9.66	6,558.0	1,305.4	222.3	148.2	2.00	-2.00	0.00
6,800.0	2.85	9.66	6,657.8	1,312.0	223.4	149.0	2.00	-2.00	0.00
6,900.0	0.85	9.66	6,757.7	1,315.2	223.9	149.3	2.00	-2.00	0.00
6,942.3	0.00	0.00	6,800.0	1,315.5	224.0	149.4	2.00	-2.00	0.00
7,000.0	0.00	0.00	6,857.7	1,315.5	224.0	149.4	0.00	0.00	0.00
7,067.1	0.00	0.00	6,924.8	1,315.5	224.0	149.4	0.00	0.00	0.00
<b>KOP #2</b>									
7,100.0	2.63	270.00	6,957.7	1,315.5	223.2	150.1	8.00	8.00	0.00
7,200.0	10.63	270.00	7,057.0	1,315.5	211.7	161.2	8.00	8.00	0.00
7,300.0	18.63	270.00	7,153.6	1,315.5	186.5	185.5	8.00	8.00	0.00
7,400.0	26.63	270.00	7,245.9	1,315.5	148.0	222.4	8.00	8.00	0.00
7,500.0	34.63	270.00	7,331.8	1,315.5	97.1	271.3	8.00	8.00	0.00
7,600.0	42.63	270.00	7,409.9	1,315.5	34.7	331.3	8.00	8.00	0.00
7,700.0	50.63	270.00	7,478.5	1,315.5	-37.9	401.0	8.00	8.00	0.00
7,800.0	58.63	270.00	7,536.3	1,315.5	-119.4	479.3	8.00	8.00	0.00
7,900.0	66.63	270.00	7,582.3	1,315.5	-208.1	564.6	8.00	8.00	0.00
8,000.0	74.63	270.00	7,615.4	1,315.5	-302.4	655.2	8.00	8.00	0.00
8,100.0	82.63	270.00	7,635.1	1,315.5	-400.4	749.3	8.00	8.00	0.00
8,192.1	90.00	270.00	7,641.0	1,315.5	-492.2	837.5	8.00	8.00	0.00
<b>End of Build - 7"</b>									
8,200.0	90.00	270.00	7,641.0	1,315.5	-500.1	845.1	0.00	0.00	0.00
8,300.0	90.00	270.00	7,641.0	1,315.5	-600.1	941.2	0.00	0.00	0.00
8,400.0	90.00	270.00	7,641.0	1,315.5	-700.1	1,037.3	0.00	0.00	0.00
8,500.0	90.00	270.00	7,641.0	1,315.5	-800.1	1,133.4	0.00	0.00	0.00
8,600.0	90.00	270.00	7,641.0	1,315.5	-900.1	1,229.5	0.00	0.00	0.00
8,700.0	90.00	270.00	7,641.0	1,315.5	-1,000.1	1,325.5	0.00	0.00	0.00
8,800.0	90.00	270.00	7,641.0	1,315.5	-1,100.1	1,421.6	0.00	0.00	0.00
8,900.0	90.00	270.00	7,641.0	1,315.5	-1,200.1	1,517.7	0.00	0.00	0.00
9,000.0	90.00	270.00	7,641.0	1,315.5	-1,300.1	1,613.8	0.00	0.00	0.00
9,100.0	90.00	270.00	7,641.0	1,315.5	-1,400.1	1,709.9	0.00	0.00	0.00
9,200.0	90.00	270.00	7,641.0	1,315.5	-1,500.1	1,806.0	0.00	0.00	0.00
9,300.0	90.00	270.00	7,641.0	1,315.5	-1,600.1	1,902.0	0.00	0.00	0.00
9,400.0	90.00	270.00	7,641.0	1,315.5	-1,700.1	1,998.1	0.00	0.00	0.00
9,500.0	90.00	270.00	7,641.0	1,315.5	-1,800.1	2,094.2	0.00	0.00	0.00

Plan Annotations					
	Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
			+N/-S	+E/-W	
			(ft)	(ft)	
	200.0	200.0	0.0	0.0	KOP #1
	7,067.1	6,924.8	1,315.5	224.0	KOP #2
	8,192.1	7,641.0	1,315.5	-492.2	End of Build



## **Synergy Resources**

**SEC.32-T1N-R66W**

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

**SRC Phelps 11-32CHZ**

**Wellbore #1**

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

## **Anticollision Report**

**28 October, 2013**





<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 11-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 11-32CHZ	<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 11-32NHZ - Wellbore #1 - Plan #1 (10-28)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
1,500.0	1,478.8	1,501.7	1,490.0	5.1	4.2	156.76		149.4	51.6	65.5	58.1	7.41	8.841	
1,600.0	1,576.4	1,601.6	1,588.4	5.5	4.6	157.80		166.3	55.1	70.0	62.0	7.95	8.803	
1,700.0	1,674.0	1,701.4	1,686.8	6.0	4.9	158.72		183.2	58.6	74.5	66.0	8.49	8.773	
1,800.0	1,771.6	1,801.3	1,785.2	6.4	5.3	159.53		200.2	62.1	79.0	70.0	9.03	8.750	
1,900.0	1,869.1	1,901.2	1,883.6	6.9	5.7	160.25		217.1	65.6	83.6	74.0	9.57	8.731	
2,000.0	1,966.7	2,001.1	1,982.0	7.4	6.1	160.90		234.0	69.1	88.1	78.0	10.11	8.717	
2,100.0	2,064.3	2,101.0	2,080.4	7.8	6.5	161.49		250.9	72.5	92.7	82.0	10.65	8.705	
2,200.0	2,161.9	2,200.9	2,178.7	8.3	6.8	162.02		267.9	76.0	97.2	86.1	11.18	8.695	
2,300.0	2,259.5	2,300.8	2,277.1	8.7	7.2	162.50		284.8	79.5	101.8	90.1	11.72	8.687	
2,400.0	2,357.1	2,400.7	2,375.5	9.2	7.6	162.95		301.7	83.0	106.4	94.1	12.26	8.680	
2,500.0	2,454.7	2,500.6	2,473.9	9.6	8.0	163.35		318.7	86.5	111.0	98.2	12.79	8.675	
2,600.0	2,552.3	2,600.5	2,572.3	10.1	8.4	163.72		335.6	90.0	115.6	102.3	13.33	8.671	
2,700.0	2,649.9	2,700.4	2,670.7	10.6	8.8	164.07		352.5	93.5	120.2	106.3	13.87	8.667	
2,800.0	2,747.4	2,800.3	2,769.0	11.0	9.2	164.39		369.5	96.9	124.8	110.4	14.40	8.664	
2,900.0	2,845.0	2,900.1	2,867.4	11.5	9.5	164.68		386.4	100.4	129.4	114.5	14.94	8.661	
3,000.0	2,942.6	3,000.0	2,965.8	11.9	9.9	164.96		403.3	103.9	134.0	118.5	15.48	8.659	
3,100.0	3,040.2	3,099.9	3,064.2	12.4	10.3	165.22		420.3	107.4	138.6	122.6	16.01	8.657	
3,200.0	3,137.8	3,199.8	3,162.6	12.9	10.7	165.46		437.2	110.9	143.2	126.7	16.55	8.655	
3,300.0	3,235.4	3,299.7	3,261.0	13.3	11.1	165.68		454.1	114.4	147.8	130.8	17.08	8.654	
3,400.0	3,333.0	3,399.6	3,359.3	13.8	11.5	165.89		471.1	117.9	152.5	134.8	17.62	8.653	
3,500.0	3,430.6	3,499.5	3,457.7	14.2	11.8	166.09		488.0	121.4	157.1	138.9	18.16	8.652	
3,600.0	3,528.2	3,599.4	3,556.1	14.7	12.2	166.28		504.9	124.8	161.7	143.0	18.69	8.651	
3,700.0	3,625.8	3,699.3	3,654.5	15.1	12.6	166.46		521.9	128.3	166.3	147.1	19.23	8.650	
3,800.0	3,723.3	3,799.2	3,752.9	15.6	13.0	166.63		538.8	131.8	171.0	151.2	19.77	8.649	
3,900.0	3,820.9	3,899.1	3,851.3	16.1	13.4	166.79		555.7	135.3	175.6	155.3	20.30	8.649	
4,000.0	3,918.5	3,999.0	3,949.7	16.5	13.8	166.94		572.7	138.8	180.2	159.4	20.84	8.648	
4,100.0	4,016.1	4,098.8	4,048.0	17.0	14.2	167.08		589.6	142.3	184.9	163.5	21.38	8.648	
4,200.0	4,113.7	4,198.7	4,146.4	17.4	14.6	167.22		606.5	145.8	189.5	167.6	21.91	8.648	
4,300.0	4,211.3	4,298.6	4,244.8	17.9	14.9	167.35		623.5	149.2	194.1	171.7	22.45	8.647	
4,400.0	4,308.9	4,398.5	4,343.2	18.4	15.3	167.47		640.4	152.7	198.8	175.8	22.98	8.647	
4,500.0	4,406.5	4,498.4	4,441.6	18.8	15.7	167.59		657.3	156.2	203.4	179.9	23.52	8.647	
4,600.0	4,504.1	4,598.3	4,540.0	19.3	16.1	167.70		674.3	159.7	208.0	184.0	24.06	8.647	
4,700.0	4,601.6	4,698.2	4,638.3	19.7	16.5	167.81		691.2	163.2	212.7	188.1	24.59	8.647	
4,800.0	4,699.2	4,798.1	4,736.7	20.2	16.9	167.92		708.1	166.7	217.3	192.2	25.13	8.647	
4,900.0	4,796.8	4,898.0	4,835.1	20.7	17.3	168.02		725.1	170.2	221.9	196.3	25.67	8.647	
5,000.0	4,894.4	4,997.9	4,933.5	21.1	17.6	168.11		742.0	173.6	226.6	200.4	26.20	8.646	
5,100.0	4,992.0	5,097.8	5,031.9	21.6	18.0	168.20		758.9	177.1	231.2	204.5	26.74	8.646	
5,200.0	5,089.6	5,197.7	5,130.3	22.0	18.4	168.29		775.9	180.6	235.8	208.6	27.28	8.646	
5,300.0	5,187.2	5,297.5	5,228.6	22.5	18.8	168.37		792.8	184.1	240.5	212.7	27.81	8.646	
5,400.0	5,284.8	5,397.4	5,327.0	23.0	19.2	168.45		809.7	187.6	245.1	216.8	28.35	8.646	
5,500.0	5,382.4	5,497.3	5,425.4	23.4	19.6	168.53		826.7	191.1	249.8	220.9	28.89	8.646	
5,600.0	5,480.0	5,597.2	5,523.8	23.9	20.0	168.61		843.6	194.6	254.4	225.0	29.42	8.646	
5,700.0	5,577.5	5,697.1	5,622.2	24.3	20.4	168.68		860.5	198.1	259.1	229.1	29.96	8.646	
5,800.0	5,675.1	5,797.0	5,720.6	24.8	20.7	168.75		877.5	201.5	263.7	233.2	30.50	8.646	
5,900.0	5,772.7	5,896.9	5,819.0	25.3	21.1	168.82		894.4	205.0	268.3	237.3	31.03	8.646	
6,000.0	5,870.3	5,996.8	5,917.3	25.7	21.5	168.88		911.3	208.5	273.0	241.4	31.57	8.647	
6,100.0	5,967.9	6,096.7	6,015.7	26.2	21.9	168.95		928.3	212.0	277.6	245.5	32.11	8.647	
6,200.0	6,065.5	6,195.7	6,113.2	26.6	22.3	169.01		945.0	215.4	282.3	249.6	32.64	8.648	
6,300.0	6,163.1	6,286.6	6,203.1	27.1	22.5	169.14		958.8	218.3	288.8	255.7	33.09	8.728	
6,400.0	6,261.0	6,377.2	6,293.0	27.5	22.8	169.37		969.7	220.5	297.0	263.5	33.50	8.867	
6,500.0	6,359.5	6,467.6	6,383.0	27.8	23.0	169.60		977.8	222.2	305.0	271.2	33.83	9.015	

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

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<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 11-32CHZ	<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

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Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
6,600.0	6,458.5	6,557.9	6,473.1	28.1	23.1	169.82		983.1	223.3	312.6	278.5	34.11	9.164	
6,700.0	6,558.0	6,647.9	6,563.0	28.3	23.3	170.04		985.6	223.8	319.8	285.5	34.33	9.316	
6,800.0	6,657.8	6,743.6	6,658.8	28.5	23.4	170.25		985.8	223.8	326.2	291.6	34.53	9.445	
6,900.0	6,757.7	6,843.5	6,758.7	28.6	23.5	170.42		985.8	223.5	329.4	294.6	34.72	9.487	
7,000.0	6,857.7	6,942.3	6,856.9	28.7	23.6	-178.15		985.8	213.4	329.8	277.8	51.99	6.344	
7,100.0	6,957.7	7,036.8	6,948.7	28.8	23.7	-84.37		985.8	191.2	331.4	296.7	34.67	9.557	
7,200.0	7,057.0	7,127.8	7,033.6	28.9	23.7	-80.24		985.8	158.6	334.8	300.1	34.73	9.640	
7,300.0	7,153.6	7,216.3	7,111.5	28.9	23.8	-76.39		985.8	116.8	339.7	304.7	34.97	9.714	
7,400.0	7,245.9	7,300.0	7,180.0	29.0	23.8	-72.98		985.8	68.7	345.6	310.3	35.29	9.795	
7,500.0	7,331.8	7,387.3	7,244.9	29.0	23.8	-69.80		985.8	10.4	352.0	316.4	35.65	9.876	
7,600.0	7,409.9	7,470.4	7,299.6	29.0	23.9	-67.12		985.8	-52.0	358.6	322.7	35.90	9.989	
7,700.0	7,478.5	7,550.0	7,345.0	29.1	24.0	-64.91		985.8	-117.4	364.8	328.7	36.09	10.109	
7,800.0	7,536.3	7,633.1	7,384.3	29.2	24.2	-63.04		985.8	-190.5	370.3	334.0	36.34	10.191	
7,900.0	7,582.3	7,713.1	7,413.9	29.3	24.5	-61.64		985.8	-264.9	374.9	338.2	36.72	10.212	
8,000.0	7,615.4	7,792.6	7,434.9	29.6	25.0	-60.66		985.8	-341.5	378.3	341.0	37.38	10.121	
8,100.0	7,635.1	7,871.8	7,447.3	30.0	25.7	-60.08		985.8	-419.6	380.4	341.9	38.47	9.889	
8,200.0	7,641.0	7,952.4	7,451.0	30.8	26.7	-59.91		985.8	-500.1	381.0	340.9	40.13	9.494	
8,300.0	7,641.0	8,052.4	7,451.0	31.7	28.2	-59.91		985.8	-600.1	381.0	337.6	43.38	8.782	
8,400.0	7,641.0	8,152.4	7,451.0	33.0	30.0	-59.91		985.8	-700.1	381.0	334.1	46.91	8.122	
8,500.0	7,641.0	8,252.4	7,451.0	34.6	31.9	-59.91		985.8	-800.1	381.0	330.3	50.66	7.520	
8,600.0	7,641.0	8,352.4	7,451.0	36.4	34.1	-59.91		985.8	-900.1	381.0	326.4	54.60	6.978	
8,700.0	7,641.0	8,452.4	7,451.0	38.3	36.3	-59.91		985.8	-1,000.1	381.0	322.3	58.68	6.493	
8,800.0	7,641.0	8,552.4	7,451.0	40.4	38.6	-59.91		985.8	-1,100.1	381.0	318.1	62.88	6.059	
8,900.0	7,641.0	8,652.4	7,451.0	42.6	40.9	-59.91		985.8	-1,200.1	381.0	313.8	67.18	5.671	
9,000.0	7,641.0	8,752.4	7,451.0	44.9	43.4	-59.91		985.8	-1,300.1	381.0	309.4	71.55	5.325	
9,100.0	7,641.0	8,852.4	7,451.0	47.2	45.8	-59.91		985.8	-1,400.1	381.0	305.0	75.99	5.014	
9,200.0	7,641.0	8,952.4	7,451.0	49.6	48.4	-59.91		985.8	-1,500.1	381.0	300.5	80.48	4.734	
9,300.0	7,641.0	9,052.4	7,451.0	52.1	50.9	-59.91		985.8	-1,600.1	381.0	296.0	85.02	4.481	
9,400.0	7,641.0	9,152.4	7,451.0	54.6	53.5	-59.91		985.8	-1,700.1	381.0	291.4	89.60	4.252	
9,500.0	7,641.0	9,252.4	7,451.0	57.1	56.1	-59.91		985.8	-1,800.1	381.0	286.8	94.21	4.044	
9,600.0	7,641.0	9,352.4	7,451.0	59.7	58.7	-59.91		985.8	-1,900.1	381.0	282.2	98.84	3.855	
9,700.0	7,641.0	9,452.4	7,451.0	62.2	61.3	-59.91		985.8	-2,000.1	381.0	277.5	103.51	3.681	
9,800.0	7,641.0	9,552.4	7,451.0	64.8	63.9	-59.91		985.8	-2,100.1	381.0	272.8	108.19	3.522	
9,900.0	7,641.0	9,652.4	7,451.0	67.4	66.6	-59.91		985.8	-2,200.1	381.0	268.1	112.89	3.375	
10,000.0	7,641.0	9,752.4	7,451.0	70.0	69.3	-59.91		985.8	-2,300.1	381.0	263.4	117.61	3.240	
10,100.0	7,641.0	9,852.4	7,451.0	72.7	71.9	-59.91		985.8	-2,400.1	381.0	258.7	122.34	3.114	
10,200.0	7,641.0	9,952.4	7,451.0	75.3	74.6	-59.91		985.8	-2,500.1	381.0	253.9	127.09	2.998	
10,300.0	7,641.0	10,052.4	7,451.0	78.0	77.3	-59.91		985.8	-2,600.1	381.0	249.2	131.84	2.890	
10,400.0	7,641.0	10,152.4	7,451.0	80.7	80.0	-59.91		985.8	-2,700.1	381.0	244.4	136.61	2.789	
10,500.0	7,641.0	10,252.4	7,451.0	83.4	82.7	-59.91		985.8	-2,800.1	381.0	239.6	141.39	2.695	
10,600.0	7,641.0	10,352.4	7,451.0	86.0	85.5	-59.91		985.8	-2,900.1	381.0	234.8	146.17	2.607	
10,700.0	7,641.0	10,452.4	7,451.0	88.7	88.2	-59.91		985.8	-3,000.1	381.0	230.0	150.97	2.524	
10,800.0	7,641.0	10,552.4	7,451.0	91.4	90.9	-59.91		985.8	-3,100.1	381.0	225.2	155.77	2.446	
10,900.0	7,641.0	10,652.4	7,451.0	94.1	93.6	-59.91		985.8	-3,200.1	381.0	220.4	160.57	2.373	
11,000.0	7,641.0	10,752.4	7,451.0	96.9	96.4	-59.91		985.8	-3,300.1	381.0	215.6	165.38	2.304	
11,100.0	7,641.0	10,852.4	7,451.0	99.6	99.1	-59.91		985.8	-3,400.1	381.0	210.8	170.20	2.239	
11,200.0	7,641.0	10,952.4	7,451.0	102.3	101.9	-59.91		985.8	-3,500.1	381.0	206.0	175.02	2.177	
11,300.0	7,641.0	11,052.4	7,451.0	105.0	104.6	-59.91		985.8	-3,600.1	381.0	201.2	179.85	2.118	
11,400.0	7,641.0	11,152.4	7,451.0	107.8	107.4	-59.91		985.8	-3,700.1	381.0	196.3	184.68	2.063	
11,500.0	7,641.0	11,252.4	7,451.0	110.5	110.1	-59.91		985.8	-3,800.1	381.0	191.5	189.51	2.010	
11,600.0	7,641.0	11,352.4	7,451.0	113.2	112.9	-59.91		985.8	-3,900.1	381.0	186.7	194.35	1.960	

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<b>Reference Well:</b>	SRC Phelps 11-32CHZ	<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
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Survey Program: 0-MWD													<b>Offset Well Error:</b>	0.0 ft
Reference	Offset	Semi Major Axis		Distance									Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
11,700.0	7,641.0	11,452.4	7,451.0	116.0	115.6	-59.91	985.8	-4,000.1	381.0	181.8	199.19	1.913		
11,800.0	7,641.0	11,552.4	7,451.0	118.7	118.4	-59.91	985.8	-4,100.1	381.0	177.0	204.03	1.867		
11,900.0	7,641.0	11,652.4	7,451.0	121.5	121.1	-59.91	985.8	-4,200.1	381.0	172.1	208.88	1.824		
12,000.0	7,641.0	11,752.4	7,451.0	124.2	123.9	-59.91	985.8	-4,300.1	381.0	167.3	213.73	1.783		
12,100.0	7,641.0	11,852.4	7,451.0	127.0	126.7	-59.91	985.8	-4,400.1	381.0	162.4	218.58	1.743		
12,200.0	7,641.0	11,952.4	7,451.0	129.7	129.4	-59.91	985.8	-4,500.1	381.0	157.6	223.43	1.705		
12,260.3	7,641.0	12,012.7	7,451.0	131.4	131.1	-59.91	985.8	-4,560.4	381.0	154.6	226.36	1.683 SF		

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 11-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 11-32CHZ	<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
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-102.08	-4.7	-22.1	22.6					
100.0	100.0	100.0	100.0	0.1	0.1	-102.08	-4.7	-22.1	22.6	22.4	0.22	100.686		
200.0	200.0	200.0	200.0	0.3	0.3	-102.08	-4.7	-22.1	22.6	22.0	0.67	33.562 CC, ES		
300.0	300.0	300.0	300.0	0.6	0.6	-115.71	-4.7	-22.1	23.3	22.2	1.12	20.744		
400.0	399.8	399.8	399.8	0.8	0.8	-126.09	-4.7	-22.1	26.0	24.5	1.58	16.443		
500.0	499.5	499.5	499.5	1.0	1.0	-138.72	-4.7	-22.1	32.0	29.9	2.05	15.567 SF		
600.0	598.7	598.7	598.7	1.3	1.2	-149.66	-4.7	-22.1	41.9	39.4	2.53	16.592		
700.0	697.5	697.5	697.5	1.6	1.5	-157.65	-4.7	-22.1	56.0	53.0	3.00	18.689		
800.0	795.6	795.6	795.6	2.0	1.7	-163.16	-4.7	-22.1	74.0	70.6	3.46	21.371		
900.0	893.2	893.2	893.2	2.4	1.9	-166.91	-4.7	-22.1	95.0	91.1	3.93	24.182		
1,000.0	990.8	990.8	990.8	2.9	2.1	-169.34	-4.7	-22.1	116.4	112.0	4.40	26.477		
1,100.0	1,088.4	1,088.5	1,088.4	3.3	2.3	-171.60	-5.1	-20.8	137.9	133.0	4.85	28.436		
1,200.0	1,186.0	1,185.7	1,185.6	3.7	2.5	-174.45	-6.6	-16.4	159.7	154.4	5.29	30.172		
1,300.0	1,283.6	1,282.8	1,282.5	4.2	2.7	-177.23	-8.5	-10.1	181.9	176.1	5.75	31.654		
1,400.0	1,381.2	1,380.0	1,379.4	4.6	2.9	-179.41	-10.5	-3.9	204.4	198.2	6.21	32.904		
1,500.0	1,478.8	1,477.2	1,476.4	5.1	3.1	178.85	-12.5	2.4	227.2	220.5	6.69	33.964		
1,600.0	1,576.4	1,574.3	1,573.3	5.5	3.4	177.42	-14.5	8.7	250.1	242.9	7.17	34.867		
1,700.0	1,674.0	1,671.5	1,670.2	6.0	3.6	176.23	-16.5	14.9	273.2	265.5	7.66	35.641		
1,800.0	1,771.6	1,768.7	1,767.2	6.4	3.8	175.23	-18.5	21.2	296.3	288.2	8.16	36.310		
1,900.0	1,869.1	1,865.8	1,864.1	6.9	4.0	174.37	-20.4	27.5	319.5	310.9	8.66	36.892		
2,000.0	1,966.7	1,963.0	1,961.1	7.4	4.3	173.63	-22.4	33.7	342.8	333.7	9.17	37.402		
2,100.0	2,064.3	2,060.1	2,058.0	7.8	4.5	172.98	-24.4	40.0	366.2	356.5	9.67	37.851		
2,200.0	2,161.9	2,157.3	2,154.9	8.3	4.8	172.41	-26.4	46.3	389.5	379.3	10.18	38.250		
2,300.0	2,259.5	2,254.5	2,251.9	8.7	5.0	171.90	-28.4	52.5	412.9	402.2	10.70	38.606		
2,400.0	2,357.1	2,351.6	2,348.8	9.2	5.2	171.45	-30.4	58.8	436.3	425.1	11.21	38.925		
2,500.0	2,454.7	2,448.8	2,445.8	9.6	5.5	171.05	-32.3	65.0	459.8	448.1	11.73	39.212		
2,600.0	2,552.3	2,546.0	2,542.7	10.1	5.7	170.68	-34.3	71.3	483.3	471.0	12.24	39.472		
2,700.0	2,649.9	2,643.1	2,639.7	10.6	6.0	170.35	-36.3	77.6	506.7	494.0	12.76	39.709		
2,800.0	2,747.4	2,740.3	2,736.6	11.0	6.2	170.05	-38.3	83.8	530.2	517.0	13.28	39.924		
2,900.0	2,845.0	2,837.4	2,833.5	11.5	6.4	169.77	-40.3	90.1	553.8	540.0	13.80	40.121		
3,000.0	2,942.6	2,934.6	2,930.5	11.9	6.7	169.52	-42.3	96.4	577.3	563.0	14.32	40.303		
3,100.0	3,040.2	3,031.8	3,027.4	12.4	6.9	169.28	-44.2	102.6	600.8	586.0	14.85	40.470		
3,200.0	3,137.8	3,128.9	3,124.4	12.9	7.2	169.06	-46.2	108.9	624.4	609.0	15.37	40.624		
3,300.0	3,235.4	3,226.1	3,221.3	13.3	7.4	168.86	-48.2	115.2	647.9	632.0	15.89	40.767		
3,400.0	3,333.0	3,323.3	3,318.2	13.8	7.7	168.68	-50.2	121.4	671.5	655.1	16.42	40.900		
3,500.0	3,430.6	3,420.4	3,415.2	14.2	7.9	168.50	-52.2	127.7	695.0	678.1	16.94	41.023		
3,600.0	3,528.2	3,517.6	3,512.1	14.7	8.2	168.34	-54.2	134.0	718.6	701.1	17.47	41.138		
3,700.0	3,625.8	3,614.7	3,609.1	15.1	8.4	168.19	-56.2	140.2	742.2	724.2	17.99	41.246		
3,800.0	3,723.3	3,711.9	3,706.0	15.6	8.7	168.04	-58.1	146.5	765.8	747.2	18.52	41.347		
3,900.0	3,820.9	3,809.1	3,802.9	16.1	8.9	167.91	-60.1	152.8	789.3	770.3	19.05	41.442		
4,000.0	3,918.5	3,906.2	3,899.9	16.5	9.2	167.78	-62.1	159.0	812.9	793.4	19.57	41.531		
4,100.0	4,016.1	4,003.4	3,996.8	17.0	9.4	167.66	-64.1	165.3	836.5	816.4	20.10	41.615		
4,200.0	4,113.7	4,100.6	4,093.8	17.4	9.6	167.55	-66.1	171.6	860.1	839.5	20.63	41.694		
4,300.0	4,211.3	4,197.7	4,190.7	17.9	9.9	167.44	-68.1	177.8	883.7	862.6	21.16	41.768		
4,400.0	4,308.9	4,294.9	4,287.6	18.4	10.1	167.34	-70.0	184.1	907.3	885.6	21.69	41.839		
4,500.0	4,406.5	4,392.1	4,384.6	18.8	10.4	167.24	-72.0	190.4	930.9	908.7	22.21	41.906		
4,600.0	4,504.1	4,489.2	4,481.5	19.3	10.6	167.15	-74.0	196.6	954.5	931.8	22.74	41.969		
4,700.0	4,601.6	4,586.4	4,578.5	19.7	10.9	167.06	-76.0	202.9	978.1	954.9	23.27	42.029		

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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-102.16	-9.5	-44.0	45.0						
100.0	100.0	100.0	100.0	0.1	0.1	-102.16	-9.5	-44.0	45.0	44.8	0.22	200.157			
200.0	200.0	200.0	200.0	0.3	0.3	-102.16	-9.5	-44.0	45.0	44.3	0.67	66.719	CC, ES		
300.0	300.0	300.0	300.0	0.6	0.6	-113.84	-9.5	-44.0	45.7	44.5	1.12	40.605			
400.0	399.8	399.8	399.8	0.8	0.8	-119.52	-9.5	-44.0	48.0	46.4	1.58	30.357			
500.0	499.5	499.5	499.5	1.0	1.0	-127.67	-9.5	-44.0	52.9	50.8	2.05	25.756			
600.0	598.7	598.7	598.7	1.3	1.2	-136.60	-9.5	-44.0	61.1	58.6	2.53	24.106	SF		
700.0	697.5	697.5	697.5	1.6	1.5	-144.86	-9.5	-44.0	73.3	70.3	3.02	24.277			
800.0	795.6	795.6	795.6	2.0	1.7	-151.71	-9.5	-44.0	89.6	86.1	3.50	25.607			
900.0	893.2	893.2	893.2	2.4	1.9	-157.04	-9.5	-44.0	109.3	105.3	3.97	27.497			
1,000.0	990.8	990.8	990.8	2.9	2.1	-160.79	-9.5	-44.0	129.7	125.3	4.45	29.183			
1,100.0	1,088.4	1,088.4	1,088.4	3.3	2.3	-163.52	-9.5	-44.0	150.6	145.6	4.92	30.623			
1,200.0	1,186.0	1,186.0	1,186.0	3.7	2.6	-165.58	-9.5	-44.0	171.6	166.2	5.39	31.849			
1,300.0	1,283.6	1,283.6	1,283.6	4.2	2.8	-167.19	-9.5	-44.0	192.9	187.0	5.86	32.897			
1,400.0	1,381.2	1,381.2	1,381.2	4.6	3.0	-168.49	-9.5	-44.0	214.2	207.9	6.34	33.799			
1,500.0	1,478.8	1,478.8	1,478.8	5.1	3.2	-169.55	-9.5	-44.0	235.7	228.9	6.82	34.580			
1,600.0	1,576.4	1,576.4	1,576.4	5.5	3.4	-170.43	-9.5	-44.0	257.2	249.9	7.29	35.263			
1,700.0	1,674.0	1,674.0	1,674.0	6.0	3.7	-171.17	-9.5	-44.0	278.7	271.0	7.77	35.863			
1,800.0	1,771.6	1,771.6	1,771.6	6.4	3.9	-171.81	-9.5	-44.0	300.3	292.1	8.25	36.394			
1,900.0	1,869.1	1,869.1	1,869.1	6.9	4.1	-172.36	-9.5	-44.0	322.0	313.2	8.73	36.867			
2,000.0	1,966.7	1,966.7	1,966.7	7.4	4.3	-172.85	-9.5	-44.0	343.6	334.4	9.21	37.290			
2,100.0	2,064.3	2,059.4	2,059.4	7.8	4.5	-173.33	-10.0	-43.6	365.7	356.0	9.67	37.816			
2,200.0	2,161.9	2,148.7	2,148.7	8.3	4.7	-174.05	-12.7	-41.8	389.7	379.6	10.10	38.579			
2,300.0	2,259.5	2,236.8	2,236.5	8.7	4.8	-174.97	-17.6	-38.6	415.8	405.2	10.52	39.511			
2,400.0	2,357.1	2,323.6	2,322.9	9.2	5.0	-176.05	-24.7	-33.9	443.9	433.0	10.95	40.554			
2,500.0	2,454.7	2,412.2	2,410.8	9.6	5.2	-177.26	-34.0	-27.7	474.1	462.7	11.38	41.655			
2,600.0	2,552.3	2,506.8	2,504.6	10.1	5.4	-178.45	-44.4	-20.7	505.0	493.1	11.83	42.679			
2,700.0	2,649.9	2,601.4	2,598.3	10.6	5.6	-179.51	-54.9	-13.8	536.0	523.7	12.29	43.610			
2,800.0	2,747.4	2,696.0	2,692.1	11.0	5.8	-179.55	-65.3	-6.8	567.2	554.4	12.76	44.457			
2,900.0	2,845.0	2,790.7	2,785.9	11.5	6.0	178.71	-75.7	0.1	598.5	585.2	13.23	45.228			
3,000.0	2,942.6	2,885.3	2,879.7	11.9	6.3	177.95	-86.2	7.1	629.9	616.2	13.71	45.937			
3,100.0	3,040.2	2,979.9	2,973.5	12.4	6.5	177.26	-96.6	14.0	661.4	647.2	14.20	46.588			
3,200.0	3,137.8	3,074.5	3,067.3	12.9	6.8	176.63	-107.1	20.9	692.9	678.2	14.68	47.188			
3,300.0	3,235.4	3,169.2	3,161.1	13.3	7.1	176.06	-117.5	27.9	724.6	709.4	15.18	47.741			
3,400.0	3,333.0	3,263.8	3,254.9	13.8	7.3	175.54	-127.9	34.8	756.3	740.6	15.67	48.254			
3,500.0	3,430.6	3,358.4	3,348.7	14.2	7.6	175.05	-138.4	41.8	788.0	771.9	16.17	48.729			
3,600.0	3,528.2	3,453.0	3,442.4	14.7	7.9	174.61	-148.8	48.7	819.8	803.2	16.67	49.172			
3,700.0	3,625.8	3,547.6	3,536.2	15.1	8.1	174.20	-159.3	55.7	851.7	834.5	17.18	49.584			
3,800.0	3,723.3	3,642.3	3,630.0	15.6	8.4	173.82	-169.7	62.6	883.5	865.9	17.68	49.969			
3,900.0	3,820.9	3,736.9	3,723.8	16.1	8.7	173.46	-180.2	69.6	915.5	897.3	18.19	50.329			
4,000.0	3,918.5	3,831.5	3,817.6	16.5	9.0	173.13	-190.6	76.5	947.4	928.7	18.70	50.666			
4,100.0	4,016.1	3,926.1	3,911.4	17.0	9.3	172.82	-201.0	83.5	979.4	960.1	19.21	50.983			

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 11-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 11-32CHZ	<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
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	0.0	0.0	77.64	77.64	11.3	51.5	52.8	52.8	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	77.64	77.64	11.3	51.5	52.8	52.5	0.23	232.432	
200.0	200.0	201.0	201.0	0.3	0.3	77.64	77.64	11.3	51.5	52.8	52.1	0.68	77.992	
300.0	300.0	301.0	301.0	0.6	0.6	69.77	69.77	11.3	51.5	52.1	51.0	1.13	46.281	
400.0	399.8	400.8	400.8	0.8	0.8	75.36	75.36	11.3	51.5	50.6	49.0	1.58	31.971	
500.0	499.5	500.5	500.5	1.0	1.0	85.25	85.25	11.3	51.5	49.1	47.0	2.05	23.893	
536.9	536.1	537.1	537.1	1.1	1.1	90.00	90.00	11.3	51.5	48.9	46.7	2.24	21.835 CC, ES	
600.0	598.7	599.7	599.7	1.3	1.2	99.31	99.31	11.3	51.5	49.6	47.0	2.56	19.385	
700.0	697.5	699.1	699.1	1.6	1.5	113.95	113.95	12.9	52.0	53.8	50.7	3.08	17.448	
800.0	795.6	799.0	798.8	2.0	1.7	125.70	125.70	18.0	53.3	61.3	57.6	3.61	16.958	
900.0	893.2	899.4	898.9	2.4	1.9	134.07	134.07	26.4	55.6	70.4	66.2	4.14	16.988	
1,000.0	990.8	999.6	998.3	2.9	2.2	139.01	139.01	37.6	58.6	78.7	74.0	4.68	16.814	
1,100.0	1,088.4	1,099.0	1,097.1	3.3	2.4	142.81	142.81	49.1	61.6	87.2	82.0	5.22	16.721	
1,200.0	1,186.0	1,198.5	1,195.9	3.7	2.7	145.92	145.92	60.5	64.7	96.1	90.3	5.75	16.717	
1,300.0	1,283.6	1,298.0	1,294.7	4.2	3.0	148.51	148.51	72.0	67.7	105.1	98.9	6.27	16.764	
1,400.0	1,381.2	1,397.5	1,393.4	4.6	3.3	150.68	150.68	83.4	70.8	114.4	107.6	6.79	16.838	
1,500.0	1,478.8	1,497.0	1,492.2	5.1	3.6	152.52	152.52	94.9	73.9	123.8	116.5	7.31	16.928	
1,600.0	1,576.4	1,596.5	1,591.0	5.5	3.9	154.10	154.10	106.4	76.9	133.3	125.5	7.83	17.024	
1,700.0	1,674.0	1,696.0	1,689.8	6.0	4.2	155.47	155.47	117.8	80.0	142.9	134.6	8.35	17.121	
1,800.0	1,771.6	1,795.4	1,788.5	6.4	4.5	156.67	156.67	129.3	83.0	152.6	143.7	8.86	17.217	
1,900.0	1,869.1	1,894.9	1,887.3	6.9	4.8	157.72	157.72	140.7	86.1	162.3	152.9	9.38	17.310	
2,000.0	1,966.7	1,994.4	1,986.1	7.4	5.1	158.66	158.66	152.2	89.1	172.1	162.2	9.89	17.399	
2,100.0	2,064.3	2,093.9	2,084.9	7.8	5.4	159.49	159.49	163.6	92.2	181.9	171.5	10.41	17.483	
2,200.0	2,161.9	2,193.4	2,183.6	8.3	5.7	160.24	160.24	175.1	95.3	191.8	180.8	10.92	17.563	
2,300.0	2,259.5	2,292.9	2,282.4	8.7	6.0	160.92	160.92	186.5	98.3	201.6	190.2	11.43	17.638	
2,400.0	2,357.1	2,392.3	2,381.2	9.2	6.3	161.53	161.53	198.0	101.4	211.6	199.6	11.95	17.709	
2,500.0	2,454.7	2,491.8	2,480.0	9.6	6.6	162.09	162.09	209.4	104.4	221.5	209.0	12.46	17.776	
2,600.0	2,552.3	2,591.3	2,578.7	10.1	6.9	162.60	162.60	220.9	107.5	231.4	218.5	12.97	17.839	
2,700.0	2,649.9	2,690.8	2,677.5	10.6	7.2	163.06	163.06	232.4	110.5	241.4	227.9	13.49	17.898	
2,800.0	2,747.4	2,790.3	2,776.3	11.0	7.5	163.49	163.49	243.8	113.6	251.4	237.4	14.00	17.954	
2,900.0	2,845.0	2,889.8	2,875.1	11.5	7.8	163.89	163.89	255.3	116.7	261.4	246.8	14.51	18.007	
3,000.0	2,942.6	2,989.2	2,973.8	11.9	8.1	164.26	164.26	266.7	119.7	271.4	256.3	15.03	18.057	
3,100.0	3,040.2	3,088.7	3,072.6	12.4	8.4	164.60	164.60	278.2	122.8	281.4	265.8	15.54	18.104	
3,200.0	3,137.8	3,188.2	3,171.4	12.9	8.7	164.92	164.92	289.6	125.8	291.4	275.3	16.06	18.148	
3,300.0	3,235.4	3,287.7	3,270.2	13.3	9.0	165.22	165.22	301.1	128.9	301.4	284.9	16.57	18.190	
3,400.0	3,333.0	3,387.2	3,368.9	13.8	9.3	165.50	165.50	312.5	131.9	311.5	294.4	17.09	18.230	
3,500.0	3,430.6	3,486.7	3,467.7	14.2	9.6	165.76	165.76	324.0	135.0	321.5	303.9	17.60	18.267	
3,600.0	3,528.2	3,586.1	3,566.5	14.7	10.0	166.00	166.00	335.5	138.1	331.6	313.4	18.11	18.303	
3,700.0	3,625.8	3,685.6	3,665.3	15.1	10.3	166.23	166.23	346.9	141.1	341.6	323.0	18.63	18.337	
3,800.0	3,723.3	3,785.1	3,764.0	15.6	10.6	166.45	166.45	358.4	144.2	351.7	332.5	19.14	18.370	
3,900.0	3,820.9	3,884.6	3,862.8	16.1	10.9	166.66	166.66	369.8	147.2	361.7	342.1	19.66	18.401	
4,000.0	3,918.5	3,984.1	3,961.6	16.5	11.2	166.85	166.85	381.3	150.3	371.8	351.6	20.17	18.430	
4,100.0	4,016.1	4,083.6	4,060.4	17.0	11.5	167.04	167.04	392.7	153.3	381.9	361.2	20.69	18.458	
4,200.0	4,113.7	4,183.0	4,159.1	17.4	11.8	167.21	167.21	404.2	156.4	392.0	370.8	21.21	18.485	
4,300.0	4,211.3	4,282.5	4,257.9	17.9	12.1	167.38	167.38	415.6	159.5	402.1	380.3	21.72	18.510	
4,400.0	4,308.9	4,382.0	4,356.7	18.4	12.4	167.53	167.53	427.1	162.5	412.1	389.9	22.24	18.535	
4,500.0	4,406.5	4,481.5	4,455.5	18.8	12.7	167.68	167.68	438.6	165.6	422.2	399.5	22.75	18.558	
4,600.0	4,504.1	4,581.0	4,554.2	19.3	13.0	167.83	167.83	450.0	168.6	432.3	409.1	23.27	18.581	
4,700.0	4,601.6	4,680.5	4,653.0	19.7	13.3	167.96	167.96	461.5	171.7	442.4	418.6	23.78	18.602	
4,800.0	4,699.2	4,780.0	4,751.8	20.2	13.6	168.09	168.09	472.9	174.7	452.5	428.2	24.30	18.623	
4,900.0	4,796.8	4,879.4	4,850.6	20.7	14.0	168.22	168.22	484.4	177.8	462.6	437.8	24.81	18.643	

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



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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
5,000.0	4,894.4	4,978.9	4,949.3	21.1	14.3	168.34	495.8	180.9	472.7	447.4	25.33	18.662	
5,100.0	4,992.0	5,078.4	5,048.1	21.6	14.6	168.45	507.3	183.9	482.8	457.0	25.85	18.680	
5,200.0	5,089.6	5,177.9	5,146.9	22.0	14.9	168.56	518.7	187.0	492.9	466.6	26.36	18.698	
5,300.0	5,187.2	5,277.4	5,245.7	22.5	15.2	168.67	530.2	190.0	503.0	476.1	26.88	18.715	
5,400.0	5,284.8	5,376.9	5,344.4	23.0	15.5	168.77	541.6	193.1	513.1	485.7	27.39	18.731	
5,500.0	5,382.4	5,476.3	5,443.2	23.4	15.8	168.87	553.1	196.1	523.2	495.3	27.91	18.747	
5,600.0	5,480.0	5,575.8	5,542.0	23.9	16.1	168.96	564.6	199.2	533.3	504.9	28.43	18.762	
5,700.0	5,577.5	5,675.3	5,640.8	24.3	16.4	169.05	576.0	202.3	543.5	514.5	28.94	18.777	
5,800.0	5,675.1	5,774.8	5,739.5	24.8	16.7	169.14	587.5	205.3	553.6	524.1	29.46	18.791	
5,900.0	5,772.7	5,874.3	5,838.3	25.3	17.0	169.22	598.9	208.4	563.7	533.7	29.98	18.805	
6,000.0	5,870.3	5,973.8	5,937.1	25.7	17.4	169.30	610.4	211.4	573.8	543.3	30.49	18.818	
6,100.0	5,967.9	6,073.2	6,035.9	26.2	17.7	169.38	621.8	214.5	583.9	552.9	31.01	18.831	
6,200.0	6,065.5	6,172.7	6,134.6	26.6	18.0	169.46	633.3	217.5	594.0	562.5	31.53	18.843	
6,300.0	6,163.1	6,259.5	6,220.8	27.1	18.2	169.54	642.6	220.0	604.9	573.0	31.97	18.921	
6,400.0	6,261.0	6,341.8	6,302.9	27.5	18.4	169.69	649.2	221.8	617.2	584.8	32.39	19.055	
6,500.0	6,359.5	6,423.9	6,384.8	27.8	18.5	169.85	653.6	222.9	628.8	596.1	32.74	19.208	
6,600.0	6,458.5	6,505.8	6,466.7	28.1	18.7	170.02	655.6	223.5	639.8	606.8	33.03	19.369	
6,700.0	6,558.0	6,598.1	6,559.0	28.3	18.8	170.19	655.8	223.5	649.6	616.3	33.31	19.504	
6,800.0	6,657.8	6,697.9	6,658.8	28.5	19.0	170.31	655.8	223.5	656.2	622.6	33.59	19.538	
6,900.0	6,757.7	6,797.8	6,758.7	28.6	19.1	170.37	655.8	223.5	659.4	625.6	33.83	19.491	
7,000.0	6,857.7	6,897.8	6,858.7	28.7	19.3	-179.96	655.8	223.5	659.7	612.2	47.53	13.880	
7,044.8	6,902.5	6,942.6	6,903.5	28.8	19.4	-90.00	655.8	223.5	659.7	625.4	34.31	19.226	
7,100.0	6,957.7	6,997.8	6,958.7	28.8	19.5	-89.96	655.8	222.8	659.7	625.2	34.52	19.114	
7,200.0	7,057.0	7,097.7	7,057.9	28.9	19.6	-89.96	655.8	211.3	659.7	624.9	34.79	18.961	
7,300.0	7,153.6	7,197.6	7,154.5	28.9	19.7	-89.96	655.8	186.0	659.7	624.7	35.02	18.840	
7,400.0	7,245.9	7,297.6	7,246.7	29.0	19.8	-89.96	655.8	147.6	659.7	624.5	35.23	18.726	
7,500.0	7,331.8	7,397.5	7,332.6	29.0	19.8	-89.97	655.8	96.8	659.7	624.2	35.52	18.574	
7,600.0	7,409.9	7,497.5	7,410.7	29.0	19.9	-89.97	655.8	34.5	659.7	623.7	36.00	18.325	
7,700.0	7,478.5	7,597.4	7,479.3	29.1	20.0	-89.97	655.8	-38.1	659.7	622.9	36.82	17.919	
7,800.0	7,536.3	7,697.4	7,537.1	29.2	20.3	-89.98	655.8	-119.5	659.7	621.6	38.10	17.315	
7,900.0	7,582.3	7,797.4	7,583.1	29.3	20.8	-89.98	655.8	-208.2	659.7	619.8	39.95	16.513	
8,000.0	7,615.4	7,897.4	7,616.3	29.6	21.8	-89.99	655.8	-302.4	659.7	617.3	42.40	15.560	
8,100.0	7,635.1	7,997.3	7,636.0	30.0	23.1	-89.99	655.8	-400.4	659.7	614.3	45.38	14.536	
8,200.0	7,641.0	8,097.3	7,642.0	30.8	24.8	-90.00	655.8	-500.1	659.7	610.9	48.80	13.519	
8,300.0	7,641.0	8,197.3	7,642.0	31.7	26.7	-90.00	655.8	-600.1	659.7	607.1	52.57	12.550	
8,400.0	7,641.0	8,297.3	7,642.0	33.0	28.7	-90.00	655.8	-700.1	659.7	603.1	56.64	11.648	
8,500.0	7,641.0	8,397.3	7,642.0	34.6	30.9	-90.00	655.8	-800.1	659.7	598.8	60.95	10.824	
8,600.0	7,641.0	8,497.3	7,642.0	36.4	33.1	-90.00	655.8	-900.1	659.7	594.2	65.46	10.078	
8,700.0	7,641.0	8,597.3	7,642.0	38.3	35.4	-90.00	655.8	-1,000.1	659.7	589.6	70.13	9.407	
8,800.0	7,641.0	8,697.3	7,642.0	40.4	37.8	-90.00	655.8	-1,100.1	659.7	584.8	74.93	8.805	
8,900.0	7,641.0	8,797.3	7,642.0	42.6	40.3	-90.00	655.8	-1,200.1	659.7	579.9	79.83	8.264	
9,000.0	7,641.0	8,897.3	7,642.0	44.9	42.8	-90.00	655.8	-1,300.1	659.7	574.9	84.82	7.778	
9,100.0	7,641.0	8,997.3	7,642.0	47.2	45.3	-90.00	655.8	-1,400.1	659.7	569.8	89.88	7.340	
9,200.0	7,641.0	9,097.3	7,642.0	49.6	47.9	-90.00	655.8	-1,500.1	659.7	564.7	95.01	6.944	
9,300.0	7,641.0	9,197.3	7,642.0	52.1	50.5	-90.00	655.8	-1,600.1	659.7	559.5	100.19	6.585	
9,400.0	7,641.0	9,297.3	7,642.0	54.6	53.1	-90.00	655.8	-1,700.1	659.7	554.3	105.41	6.259	
9,500.0	7,641.0	9,397.3	7,642.0	57.1	55.7	-90.00	655.8	-1,800.1	659.7	549.0	110.66	5.961	
9,600.0	7,641.0	9,497.3	7,642.0	59.7	58.3	-90.00	655.8	-1,900.1	659.7	543.8	115.96	5.689	
9,700.0	7,641.0	9,597.3	7,642.0	62.2	61.0	-90.00	655.8	-2,000.1	659.7	538.4	121.28	5.440	
9,800.0	7,641.0	9,697.3	7,642.0	64.8	63.7	-90.00	655.8	-2,100.1	659.7	533.1	126.62	5.210	
9,900.0	7,641.0	9,797.3	7,642.0	67.4	66.3	-90.00	655.8	-2,200.1	659.7	527.7	131.99	4.998	

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 11-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 11-32CHZ	<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
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	7,641.0	9,897.3	7,642.0	70.0	69.0	-90.00	655.8	-2,300.1	659.7	522.3	137.37	4.802		
10,100.0	7,641.0	9,997.3	7,642.0	72.7	71.7	-90.00	655.8	-2,400.1	659.7	516.9	142.78	4.621		
10,200.0	7,641.0	10,097.3	7,642.0	75.3	74.4	-90.00	655.8	-2,500.1	659.7	511.5	148.20	4.452		
10,300.0	7,641.0	10,197.3	7,642.0	78.0	77.2	-90.00	655.8	-2,600.1	659.7	506.1	153.63	4.294		
10,400.0	7,641.0	10,297.3	7,642.0	80.7	79.9	-90.00	655.8	-2,700.1	659.7	500.6	159.07	4.147		
10,500.0	7,641.0	10,397.3	7,642.0	83.4	82.6	-90.00	655.8	-2,800.1	659.7	495.2	164.53	4.010		
10,600.0	7,641.0	10,497.3	7,642.0	86.0	85.3	-90.00	655.8	-2,900.1	659.7	489.7	169.99	3.881		
10,700.0	7,641.0	10,597.3	7,642.0	88.7	88.1	-90.00	655.8	-3,000.1	659.7	484.2	175.47	3.760		
10,800.0	7,641.0	10,697.3	7,642.0	91.4	90.8	-90.00	655.8	-3,100.1	659.7	478.8	180.95	3.646		
10,900.0	7,641.0	10,797.3	7,642.0	94.1	93.6	-90.00	655.8	-3,200.1	659.7	473.3	186.44	3.539		
11,000.0	7,641.0	10,897.3	7,642.0	96.9	96.3	-90.00	655.8	-3,300.1	659.7	467.8	191.94	3.437		
11,100.0	7,641.0	10,997.3	7,642.0	99.6	99.0	-90.00	655.8	-3,400.1	659.7	462.3	197.44	3.341		
11,200.0	7,641.0	11,097.3	7,642.0	102.3	101.8	-90.00	655.8	-3,500.1	659.7	456.8	202.95	3.251		
11,300.0	7,641.0	11,197.3	7,642.0	105.0	104.6	-90.00	655.8	-3,600.1	659.7	451.3	208.46	3.165		
11,400.0	7,641.0	11,297.3	7,642.0	107.8	107.3	-90.00	655.8	-3,700.1	659.7	445.7	213.98	3.083		
11,500.0	7,641.0	11,397.3	7,642.0	110.5	110.1	-90.00	655.8	-3,800.1	659.7	440.2	219.50	3.005		
11,600.0	7,641.0	11,497.3	7,642.0	113.2	112.8	-90.00	655.8	-3,900.1	659.7	434.7	225.03	2.932		
11,700.0	7,641.0	11,597.3	7,642.0	116.0	115.6	-90.00	655.8	-4,000.1	659.7	429.2	230.56	2.861		
11,800.0	7,641.0	11,697.3	7,642.0	118.7	118.4	-90.00	655.8	-4,100.1	659.7	423.6	236.10	2.794		
11,900.0	7,641.0	11,797.3	7,642.0	121.5	121.1	-90.00	655.8	-4,200.1	659.7	418.1	241.64	2.730		
12,000.0	7,641.0	11,897.3	7,642.0	124.2	123.9	-90.00	655.8	-4,300.1	659.7	412.5	247.18	2.669		
12,100.0	7,641.0	11,997.3	7,642.0	127.0	126.7	-90.00	655.8	-4,400.1	659.7	407.0	252.72	2.610		
12,200.0	7,641.0	12,097.3	7,642.0	129.7	129.5	-90.00	655.8	-4,500.1	659.7	401.4	258.27	2.554		
12,260.3	7,641.0	12,157.7	7,642.0	131.4	131.1	-90.00	655.8	-4,560.4	659.7	398.1	261.62	2.522 SF		



SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps A-32NHZ - Wellbore #1 - Plan #1 (10-28-0-MWD)													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)			
0.0	0.0	1.0	1.0	0.0	0.0	77.68	16.0	73.4	75.1	75.1	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	77.68	16.0	73.4	75.1	74.9	0.23	330.918		
200.0	200.0	201.0	201.0	0.3	0.3	77.68	16.0	73.4	75.1	74.4	0.68	111.039		
300.0	300.0	301.0	301.0	0.6	0.6	69.27	16.0	73.4	74.5	73.4	1.13	66.119		
400.0	399.8	400.8	400.8	0.8	0.8	73.15	16.0	73.4	72.8	71.2	1.58	46.021		
500.0	499.5	500.5	500.5	1.0	1.0	79.94	16.0	73.4	70.8	68.7	2.05	34.443		
600.0	598.7	599.7	599.7	1.3	1.2	89.80	16.0	73.4	69.7	67.1	2.56	27.228		
601.8	600.4	601.4	601.4	1.3	1.2	90.00	16.0	73.4	69.7	67.1	2.57	27.126 CC, ES		
700.0	697.5	698.5	698.5	1.6	1.5	102.28	16.0	73.4	71.3	68.2	3.10	23.031		
800.0	795.6	796.6	796.6	2.0	1.7	115.83	16.0	73.4	77.7	74.1	3.65	21.293		
900.0	893.2	895.0	895.0	2.4	1.9	127.30	17.4	74.2	89.1	84.9	4.18	21.290 SF		
1,000.0	990.8	994.5	994.4	2.9	2.1	134.38	21.6	77.0	102.0	97.3	4.70	21.701		
1,100.0	1,088.4	1,093.3	1,092.9	3.3	2.3	138.97	27.3	80.7	115.3	110.0	5.22	22.099		
1,200.0	1,186.0	1,192.0	1,191.4	3.7	2.6	142.60	33.0	84.4	129.1	123.4	5.73	22.537		
1,300.0	1,283.6	1,290.8	1,289.9	4.2	2.8	145.53	38.7	88.1	143.4	137.2	6.24	22.978		
1,400.0	1,381.2	1,389.5	1,388.4	4.6	3.0	147.91	44.4	91.7	158.0	151.2	6.75	23.403		
1,500.0	1,478.8	1,488.2	1,486.9	5.1	3.3	149.90	50.0	95.4	172.8	165.5	7.26	23.802		
1,600.0	1,576.4	1,587.0	1,585.4	5.5	3.5	151.57	55.7	99.1	187.7	180.0	7.77	24.172		
1,700.0	1,674.0	1,685.7	1,683.9	6.0	3.8	152.99	61.4	102.8	202.8	194.6	8.27	24.515		
1,800.0	1,771.6	1,784.5	1,782.4	6.4	4.0	154.22	67.1	106.5	218.1	209.3	8.78	24.828		
1,900.0	1,869.1	1,883.2	1,880.9	6.9	4.3	155.28	72.8	110.2	233.3	224.1	9.29	25.117		
2,000.0	1,966.7	1,981.9	1,979.4	7.4	4.5	156.22	78.5	113.9	248.7	238.9	9.80	25.382		
2,100.0	2,064.3	2,080.7	2,078.0	7.8	4.8	157.04	84.2	117.6	264.1	253.8	10.31	25.625		
2,200.0	2,161.9	2,179.4	2,176.5	8.3	5.0	157.78	89.9	121.3	279.6	268.8	10.82	25.850		
2,300.0	2,259.5	2,278.1	2,275.0	8.7	5.2	158.44	95.6	125.0	295.1	283.8	11.33	26.058		
2,400.0	2,357.1	2,376.9	2,373.5	9.2	5.5	159.03	101.3	128.7	310.6	298.8	11.83	26.250		
2,500.0	2,454.7	2,475.6	2,472.0	9.6	5.7	159.56	107.0	132.4	326.2	313.9	12.34	26.427		
2,600.0	2,552.3	2,574.4	2,570.5	10.1	6.0	160.05	112.7	136.0	341.8	329.0	12.85	26.593		
2,700.0	2,649.9	2,673.1	2,669.0	10.6	6.2	160.49	118.4	139.7	357.4	344.1	13.36	26.747		
2,800.0	2,747.4	2,771.8	2,767.5	11.0	6.5	160.90	124.1	143.4	373.1	359.2	13.87	26.890		
2,900.0	2,845.0	2,870.6	2,866.0	11.5	6.7	161.28	129.8	147.1	388.7	374.3	14.38	27.024		
3,000.0	2,942.6	2,969.3	2,964.5	11.9	7.0	161.62	135.5	150.8	404.4	389.5	14.89	27.150		
3,100.0	3,040.2	3,068.0	3,063.0	12.4	7.2	161.94	141.2	154.5	420.1	404.7	15.41	27.268		
3,200.0	3,137.8	3,166.8	3,161.5	12.9	7.5	162.24	146.8	158.2	435.8	419.9	15.92	27.379		
3,300.0	3,235.4	3,265.5	3,260.0	13.3	7.7	162.51	152.5	161.9	451.5	435.0	16.43	27.483		
3,400.0	3,333.0	3,364.2	3,358.5	13.8	8.0	162.77	158.2	165.6	467.2	450.3	16.94	27.581		
3,500.0	3,430.6	3,463.0	3,457.0	14.2	8.2	163.01	163.9	169.3	482.9	465.5	17.45	27.674		
3,600.0	3,528.2	3,561.7	3,555.5	14.7	8.5	163.24	169.6	173.0	498.6	480.7	17.96	27.762		
3,700.0	3,625.8	3,660.5	3,654.0	15.1	8.7	163.45	175.3	176.6	514.4	495.9	18.47	27.845		
3,800.0	3,723.3	3,759.2	3,752.5	15.6	9.0	163.65	181.0	180.3	530.1	511.1	18.98	27.924		
3,900.0	3,820.9	3,857.9	3,851.0	16.1	9.2	163.84	186.7	184.0	545.9	526.4	19.50	27.998		
4,000.0	3,918.5	3,956.7	3,949.5	16.5	9.5	164.01	192.4	187.7	561.6	541.6	20.01	28.069		
4,100.0	4,016.1	4,055.4	4,048.0	17.0	9.7	164.18	198.1	191.4	577.4	556.9	20.52	28.137		
4,200.0	4,113.7	4,154.1	4,146.5	17.4	10.0	164.34	203.8	195.1	593.2	572.1	21.03	28.201		
4,300.0	4,211.3	4,252.9	4,245.0	17.9	10.2	164.49	209.5	198.8	608.9	587.4	21.55	28.263		
4,400.0	4,308.9	4,351.6	4,343.5	18.4	10.5	164.63	215.2	202.5	624.7	602.6	22.06	28.321		
4,500.0	4,406.5	4,450.3	4,442.0	18.8	10.7	164.77	220.9	206.2	640.5	617.9	22.57	28.377		
4,600.0	4,504.1	4,549.1	4,540.5	19.3	11.0	164.90	226.6	209.9	656.3	633.2	23.08	28.431		
4,700.0	4,601.6	4,647.8	4,639.0	19.7	11.3	165.02	232.3	213.6	672.0	648.4	23.60	28.482		
4,800.0	4,699.2	4,746.6	4,737.5	20.2	11.5	165.14	238.0	217.3	687.8	663.7	24.11	28.531		
4,900.0	4,796.8	4,839.9	4,830.7	20.7	11.7	165.25	243.2	220.7	703.7	679.1	24.60	28.609		

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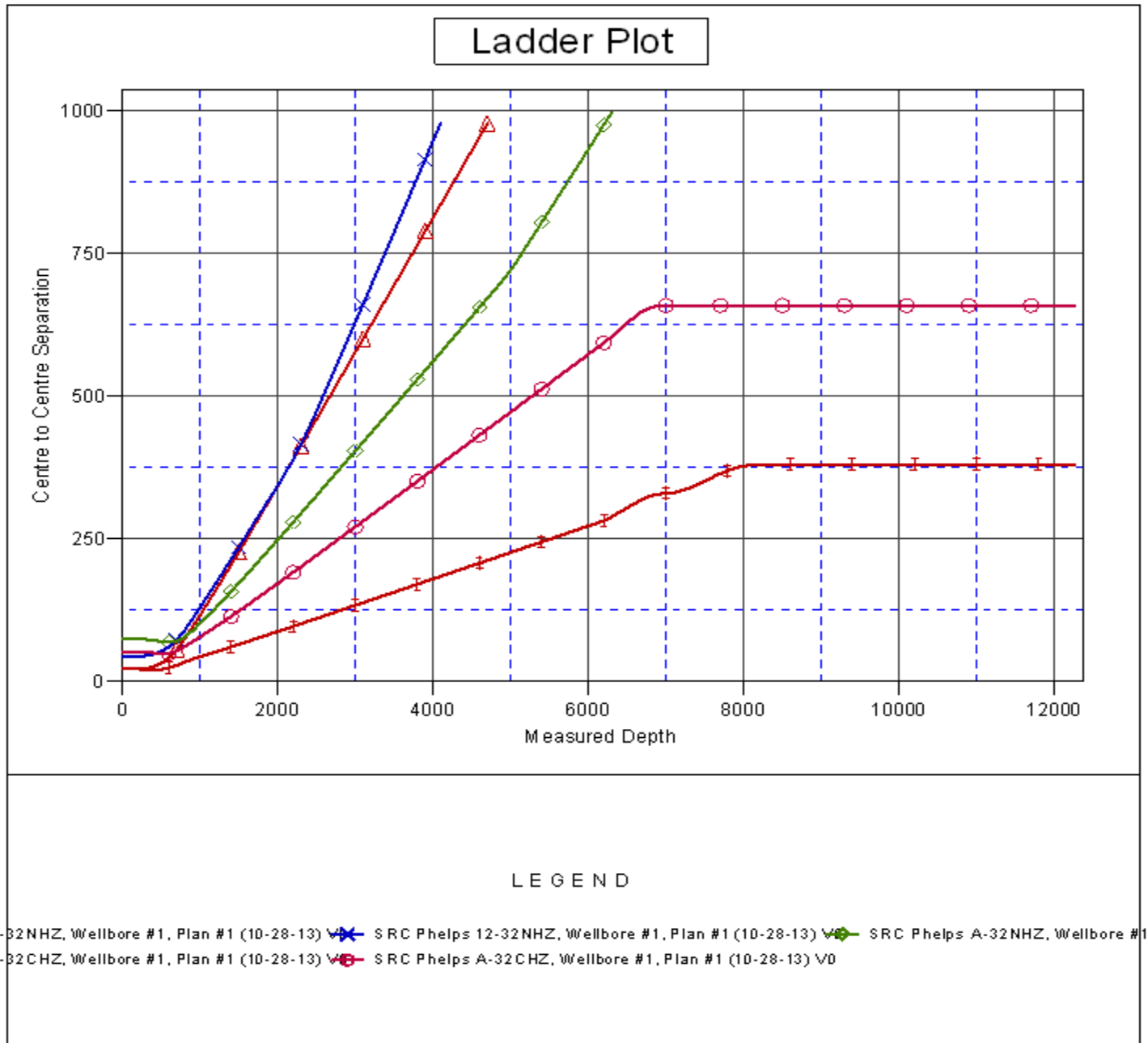
<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 11-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 11-32CHZ	<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> SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps A-32NHZ - Wellbore #1 - Plan #1 (10-28-													<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD													<b>Offset Well Error:</b>	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Reference	Offset	Reference	Offset	(ft)	(ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,000.0	4,894.4	4,922.1	4,912.8	21.1	11.9	165.44	246.3	222.7	721.4	696.4	25.03	28.823		
5,100.0	4,992.0	5,009.3	5,000.0	21.6	12.0	165.75	247.4	223.4	741.3	715.9	25.43	29.150		
5,200.0	5,089.6	5,099.9	5,090.6	22.0	12.2	166.13	247.4	223.4	762.5	736.7	25.85	29.496		
5,300.0	5,187.2	5,197.5	5,188.2	22.5	12.4	166.51	247.4	223.4	783.7	757.4	26.30	29.797		
5,400.0	5,284.8	5,295.1	5,285.8	23.0	12.6	166.87	247.4	223.4	805.0	778.3	26.76	30.086		
5,500.0	5,382.4	5,392.7	5,383.4	23.4	12.8	167.21	247.4	223.4	826.3	799.1	27.21	30.364		
5,600.0	5,480.0	5,490.3	5,481.0	23.9	13.0	167.54	247.4	223.4	847.6	820.0	27.67	30.632		
5,700.0	5,577.5	5,587.9	5,578.5	24.3	13.2	167.85	247.4	223.4	869.0	840.8	28.13	30.891		
5,800.0	5,675.1	5,685.5	5,676.1	24.8	13.4	168.14	247.4	223.4	890.3	861.7	28.59	31.140		
5,900.0	5,772.7	5,783.1	5,773.7	25.3	13.6	168.43	247.4	223.4	911.7	882.7	29.05	31.381		
6,000.0	5,870.3	5,880.6	5,871.3	25.7	13.8	168.69	247.4	223.4	933.1	903.6	29.52	31.614		
6,100.0	5,967.9	5,978.2	5,968.9	26.2	14.0	168.95	247.4	223.4	954.6	924.6	29.98	31.838		
6,200.0	6,065.5	6,075.8	6,066.5	26.6	14.2	169.20	247.4	223.4	976.0	945.6	30.45	32.056		
6,300.0	6,163.1	6,173.4	6,164.1	27.1	14.4	169.43	247.4	223.4	997.5	966.6	30.91	32.266		

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 11-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 11-32CHZ	<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 (RKB - 12')  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000 °

Coordinates are relative to: SRC Phelps 11-32CHZ  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.46°



<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 11-32CHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 11-32CHZ	<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 (RKB - 12')  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000 °

Coordinates are relative to: SRC Phelps 11-32CHZ  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.46°

