

# Synergy Resources

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

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

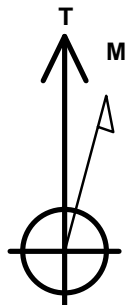
Ground Elevation: 5018.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1247295.93	3198146.56	40.010044	-104.792610	

Ensign Rig #17 - RKB - 12' WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 1786'FNL, 318'FEL	1.0	0.0	0.0	Point
BHL 2188'FNL, 460'FWL	7452.0	-402.8	-4518.4	Point



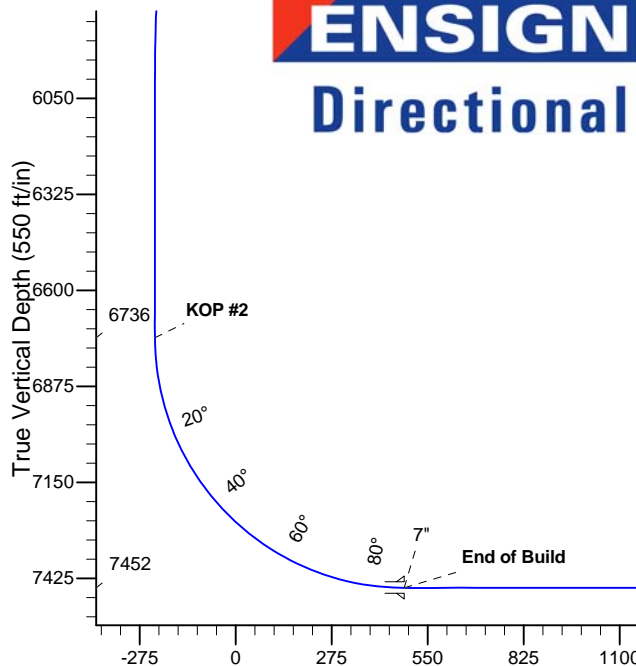
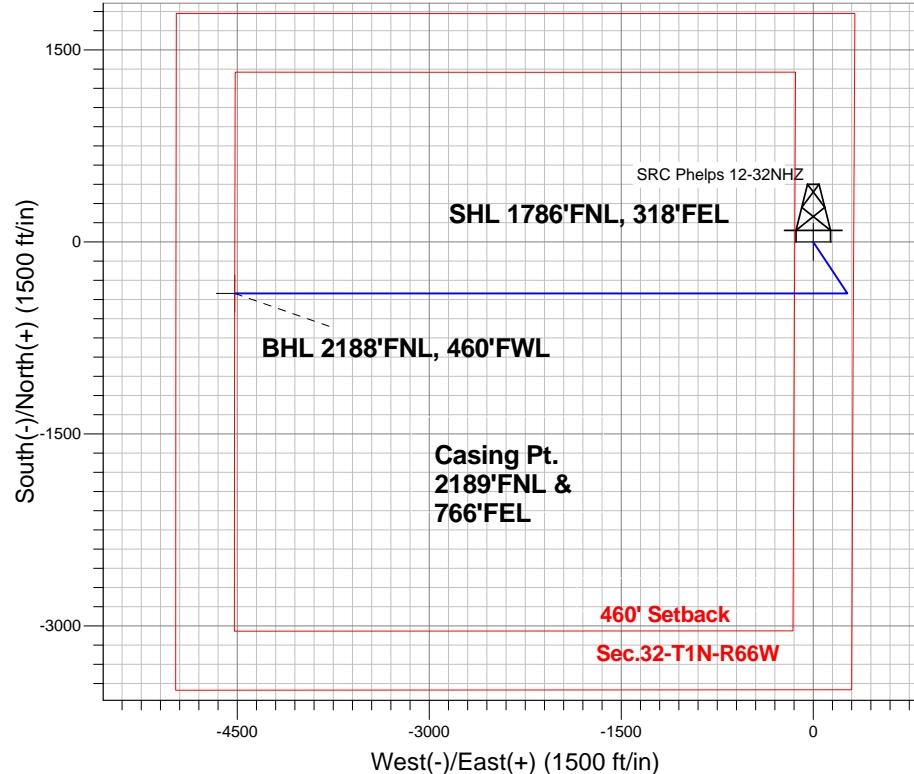
Azimuths to True North  
Magnetic North: 8.53°

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 12-32NHZ  
Plan #1 (10-28-13)  
7:40, October 29 2013

## ANNOTATIONS

TVD	MD	Annotation
2000.0	2000.0	KOP #1
6735.8	6766.9	KOP #2
7452.0	7891.9	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	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2380.8	7.62	146.37	2379.7	-21.0	14.0	2.00	146.37	-12.1	
4	5650.3	7.62	146.37	5620.3	-381.8	254.0	0.00	0.00	-219.1	
5	6031.1	0.00	0.00	6000.0	-402.8	268.0	2.00	180.00	-231.2	
6	6766.9	0.00	0.00	6735.8	-402.8	268.0	0.00	0.00	-231.2	
7	7891.9	90.00	270.00	7452.0	-402.8	-448.2	8.00	270.00	482.2	
8	11962.1	90.00	270.00	7452.0	-402.8	-4518.4	0.00	0.00	4536.4	BHL 2188'FNL, 460'FWL

BHL 2188'FNL, 460'FWL

Vertical Section at 264.91° (550 ft/in)



## **Synergy Resources**

**SEC.32-T1N-R66W**

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

**SRC Phelps 12-32NHZ**

**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 12-32NHZ
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Project:</b>	SEC.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Phelps 12-32NHZ	<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 12-32NHZ					
Well Position	+N-S	-25.5 ft	Northing:	1,247,295.93 ft	Latitude:	40.010044
	+E-W	-117.4 ft	Easting:	3,198,146.56 ft	Longitude:	-104.792610
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
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	264.91	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,380.8	7.62	146.37	2,379.7	-21.0	14.0	2.00	2.00	0.00	146.37	
5,650.3	7.62	146.37	5,620.3	-381.8	254.0	0.00	0.00	0.00	0.00	
6,031.1	0.00	0.00	6,000.0	-402.8	268.0	2.00	-2.00	0.00	180.00	
6,766.9	0.00	0.00	6,735.8	-402.8	268.0	0.00	0.00	0.00	0.00	
7,891.9	90.00	270.00	7,452.0	-402.8	-448.2	8.00	8.00	0.00	270.00	
11,962.1	90.00	270.00	7,452.0	-402.8	-4,518.4	0.00	0.00	0.00	0.00	BHL 2188'FNL, 460

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32NHZ
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Project:</b>	SEC.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Phelps 12-32NHZ	<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 1786°FNL, 318°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
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>KOP #1</b>									
2,100.0	2.00	146.37	2,100.0	-1.5	1.0	-0.8	2.00	2.00	0.00
2,200.0	4.00	146.37	2,199.8	-5.8	3.9	-3.3	2.00	2.00	0.00
2,300.0	6.00	146.37	2,299.5	-13.1	8.7	-7.5	2.00	2.00	0.00
2,380.8	7.62	146.37	2,379.7	-21.0	14.0	-12.1	2.00	2.00	0.00
2,400.0	7.62	146.37	2,398.7	-23.2	15.4	-13.3	0.00	0.00	0.00
2,500.0	7.62	146.37	2,497.8	-34.2	22.7	-19.6	0.00	0.00	0.00
2,600.0	7.62	146.37	2,596.9	-45.2	30.1	-26.0	0.00	0.00	0.00
2,700.0	7.62	146.37	2,696.1	-56.3	37.4	-32.3	0.00	0.00	0.00
2,800.0	7.62	146.37	2,795.2	-67.3	44.8	-38.6	0.00	0.00	0.00
2,900.0	7.62	146.37	2,894.3	-78.3	52.1	-44.9	0.00	0.00	0.00
3,000.0	7.62	146.37	2,993.4	-89.4	59.5	-51.3	0.00	0.00	0.00
3,100.0	7.62	146.37	3,092.5	-100.4	66.8	-57.6	0.00	0.00	0.00
3,200.0	7.62	146.37	3,191.7	-111.4	74.1	-63.9	0.00	0.00	0.00
3,300.0	7.62	146.37	3,290.8	-122.5	81.5	-70.3	0.00	0.00	0.00
3,400.0	7.62	146.37	3,389.9	-133.5	88.8	-76.6	0.00	0.00	0.00
3,500.0	7.62	146.37	3,489.0	-144.5	96.2	-82.9	0.00	0.00	0.00
3,600.0	7.62	146.37	3,588.1	-155.6	103.5	-89.3	0.00	0.00	0.00
3,700.0	7.62	146.37	3,687.2	-166.6	110.8	-95.6	0.00	0.00	0.00
3,800.0	7.62	146.37	3,786.4	-177.6	118.2	-101.9	0.00	0.00	0.00
3,900.0	7.62	146.37	3,885.5	-188.7	125.5	-108.3	0.00	0.00	0.00
4,000.0	7.62	146.37	3,984.6	-199.7	132.9	-114.6	0.00	0.00	0.00
4,100.0	7.62	146.37	4,083.7	-210.7	140.2	-120.9	0.00	0.00	0.00
4,200.0	7.62	146.37	4,182.8	-221.8	147.5	-127.3	0.00	0.00	0.00
4,300.0	7.62	146.37	4,282.0	-232.8	154.9	-133.6	0.00	0.00	0.00
4,400.0	7.62	146.37	4,381.1	-243.8	162.2	-139.9	0.00	0.00	0.00
4,500.0	7.62	146.37	4,480.2	-254.9	169.6	-146.3	0.00	0.00	0.00
4,600.0	7.62	146.37	4,579.3	-265.9	176.9	-152.6	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32NHZ
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Project:</b>	SEC.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Phelps 12-32NHZ	<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	7.62	146.37	4,678.4	-276.9	184.2	-158.9	0.00	0.00	0.00
4,800.0	7.62	146.37	4,777.5	-288.0	191.6	-165.3	0.00	0.00	0.00
4,900.0	7.62	146.37	4,876.7	-299.0	198.9	-171.6	0.00	0.00	0.00
5,000.0	7.62	146.37	4,975.8	-310.1	206.3	-177.9	0.00	0.00	0.00
5,100.0	7.62	146.37	5,074.9	-321.1	213.6	-184.3	0.00	0.00	0.00
5,200.0	7.62	146.37	5,174.0	-332.1	220.9	-190.6	0.00	0.00	0.00
5,300.0	7.62	146.37	5,273.1	-343.2	228.3	-196.9	0.00	0.00	0.00
5,400.0	7.62	146.37	5,372.2	-354.2	235.6	-203.2	0.00	0.00	0.00
5,500.0	7.62	146.37	5,471.4	-365.2	243.0	-209.6	0.00	0.00	0.00
5,600.0	7.62	146.37	5,570.5	-376.3	250.3	-215.9	0.00	0.00	0.00
5,650.3	7.62	146.37	5,620.3	-381.8	254.0	-219.1	0.00	0.00	0.00
5,700.0	6.62	146.37	5,669.7	-386.9	257.4	-222.0	2.00	-2.00	0.00
5,800.0	4.62	146.37	5,769.2	-395.1	262.8	-226.7	2.00	-2.00	0.00
5,900.0	2.62	146.37	5,869.0	-400.4	266.3	-229.7	2.00	-2.00	0.00
6,000.0	0.62	146.37	5,968.9	-402.7	267.9	-231.1	2.00	-2.00	0.00
6,031.1	0.00	0.00	6,000.0	-402.8	268.0	-231.2	2.00	-2.00	0.00
6,100.0	0.00	0.00	6,068.9	-402.8	268.0	-231.2	0.00	0.00	0.00
6,200.0	0.00	0.00	6,168.9	-402.8	268.0	-231.2	0.00	0.00	0.00
6,300.0	0.00	0.00	6,268.9	-402.8	268.0	-231.2	0.00	0.00	0.00
6,400.0	0.00	0.00	6,368.9	-402.8	268.0	-231.2	0.00	0.00	0.00
6,500.0	0.00	0.00	6,468.9	-402.8	268.0	-231.2	0.00	0.00	0.00
6,600.0	0.00	0.00	6,568.9	-402.8	268.0	-231.2	0.00	0.00	0.00
6,700.0	0.00	0.00	6,668.9	-402.8	268.0	-231.2	0.00	0.00	0.00
6,766.9	0.00	0.00	6,735.8	-402.8	268.0	-231.2	0.00	0.00	0.00
<b>KOP #2</b>									
6,800.0	2.65	270.00	6,768.9	-402.8	267.2	-230.4	8.00	8.00	0.00
6,900.0	10.65	270.00	6,868.2	-402.8	255.7	-218.9	8.00	8.00	0.00
7,000.0	18.65	270.00	6,964.8	-402.8	230.4	-193.7	8.00	8.00	0.00
7,100.0	26.65	270.00	7,057.0	-402.8	191.9	-155.4	8.00	8.00	0.00
7,200.0	34.65	270.00	7,143.0	-402.8	141.0	-104.6	8.00	8.00	0.00
7,300.0	42.65	270.00	7,221.0	-402.8	78.6	-42.5	8.00	8.00	0.00
7,400.0	50.65	270.00	7,289.6	-402.8	5.9	29.9	8.00	8.00	0.00
7,500.0	58.65	270.00	7,347.4	-402.8	-75.6	111.1	8.00	8.00	0.00
7,600.0	66.65	270.00	7,393.3	-402.8	-164.3	199.5	8.00	8.00	0.00
7,700.0	74.65	270.00	7,426.4	-402.8	-258.6	293.4	8.00	8.00	0.00
7,800.0	82.65	270.00	7,446.1	-402.8	-356.6	390.9	8.00	8.00	0.00
7,891.9	90.00	270.00	7,452.0	-402.8	-448.2	482.2	8.00	8.00	0.00
<b>End of Build - 7"</b>									
7,900.0	90.00	270.00	7,452.0	-402.8	-456.3	490.3	0.00	0.00	0.00
8,000.0	90.00	270.00	7,452.0	-402.8	-556.3	589.9	0.00	0.00	0.00
8,100.0	90.00	270.00	7,452.0	-402.8	-656.3	689.5	0.00	0.00	0.00
8,200.0	90.00	270.00	7,452.0	-402.8	-756.3	789.1	0.00	0.00	0.00
8,300.0	90.00	270.00	7,452.0	-402.8	-856.3	888.7	0.00	0.00	0.00
8,400.0	90.00	270.00	7,452.0	-402.8	-956.3	988.3	0.00	0.00	0.00
8,500.0	90.00	270.00	7,452.0	-402.8	-1,056.3	1,087.9	0.00	0.00	0.00
8,600.0	90.00	270.00	7,452.0	-402.8	-1,156.3	1,187.5	0.00	0.00	0.00
8,700.0	90.00	270.00	7,452.0	-402.8	-1,256.3	1,287.1	0.00	0.00	0.00
8,800.0	90.00	270.00	7,452.0	-402.8	-1,356.3	1,386.7	0.00	0.00	0.00
8,900.0	90.00	270.00	7,452.0	-402.8	-1,456.3	1,486.3	0.00	0.00	0.00
9,000.0	90.00	270.00	7,452.0	-402.8	-1,556.3	1,585.9	0.00	0.00	0.00
9,100.0	90.00	270.00	7,452.0	-402.8	-1,656.3	1,685.5	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32NHZ
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Project:</b>	SEC.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Phelps 12-32NHZ	<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	7,452.0	-402.8	-1,756.3	1,785.1	0.00	0.00	0.00	
9,300.0	90.00	270.00	7,452.0	-402.8	-1,856.3	1,884.8	0.00	0.00	0.00	
9,400.0	90.00	270.00	7,452.0	-402.8	-1,956.3	1,984.4	0.00	0.00	0.00	
9,500.0	90.00	270.00	7,452.0	-402.8	-2,056.3	2,084.0	0.00	0.00	0.00	
9,600.0	90.00	270.00	7,452.0	-402.8	-2,156.3	2,183.6	0.00	0.00	0.00	
9,700.0	90.00	270.00	7,452.0	-402.8	-2,256.3	2,283.2	0.00	0.00	0.00	
9,800.0	90.00	270.00	7,452.0	-402.8	-2,356.3	2,382.8	0.00	0.00	0.00	
9,900.0	90.00	270.00	7,452.0	-402.8	-2,456.3	2,482.4	0.00	0.00	0.00	
10,000.0	90.00	270.00	7,452.0	-402.8	-2,556.3	2,582.0	0.00	0.00	0.00	
10,100.0	90.00	270.00	7,452.0	-402.8	-2,656.3	2,681.6	0.00	0.00	0.00	
10,200.0	90.00	270.00	7,452.0	-402.8	-2,756.3	2,781.2	0.00	0.00	0.00	
10,300.0	90.00	270.00	7,452.0	-402.8	-2,856.3	2,880.8	0.00	0.00	0.00	
10,400.0	90.00	270.00	7,452.0	-402.8	-2,956.3	2,980.4	0.00	0.00	0.00	
10,500.0	90.00	270.00	7,452.0	-402.8	-3,056.3	3,080.0	0.00	0.00	0.00	
10,600.0	90.00	270.00	7,452.0	-402.8	-3,156.3	3,179.6	0.00	0.00	0.00	
10,700.0	90.00	270.00	7,452.0	-402.8	-3,256.3	3,279.2	0.00	0.00	0.00	
10,800.0	90.00	270.00	7,452.0	-402.8	-3,356.3	3,378.8	0.00	0.00	0.00	
10,900.0	90.00	270.00	7,452.0	-402.8	-3,456.3	3,478.4	0.00	0.00	0.00	
11,000.0	90.00	270.00	7,452.0	-402.8	-3,556.3	3,578.0	0.00	0.00	0.00	
11,100.0	90.00	270.00	7,452.0	-402.8	-3,656.3	3,677.6	0.00	0.00	0.00	
11,200.0	90.00	270.00	7,452.0	-402.8	-3,756.3	3,777.2	0.00	0.00	0.00	
11,300.0	90.00	270.00	7,452.0	-402.8	-3,856.3	3,876.9	0.00	0.00	0.00	
11,400.0	90.00	270.00	7,452.0	-402.8	-3,956.3	3,976.5	0.00	0.00	0.00	
11,500.0	90.00	270.00	7,452.0	-402.8	-4,056.3	4,076.1	0.00	0.00	0.00	
11,600.0	90.00	270.00	7,452.0	-402.8	-4,156.3	4,175.7	0.00	0.00	0.00	
11,700.0	90.00	270.00	7,452.0	-402.8	-4,256.3	4,275.3	0.00	0.00	0.00	
11,800.0	90.00	270.00	7,452.0	-402.8	-4,356.3	4,374.9	0.00	0.00	0.00	
11,900.0	90.00	270.00	7,452.0	-402.8	-4,456.3	4,474.5	0.00	0.00	0.00	
11,962.1	90.00	270.00	7,452.0	-402.8	-4,518.4	4,536.4	0.00	0.00	0.00	
BHL 2188'FNL, 460'FWL										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,891.9	7,452.0	7"	7	7-1/2	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
2,000.0	2,000.0	0.0	0.0	KOP #1	
6,766.9	6,735.8	-402.8	268.0	KOP #2	
7,891.9	7,452.0	-402.8	-448.2	End of Build	



## **Synergy Resources**

**SEC.32-T1N-R66W**

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

**SRC Phelps 12-32NHZ**

**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 12-32NHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32NHZ	<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	11,962.1	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	45.0	44.3	66.719	CC, ES
SRC Phelps 11-32CHZ - Wellbore #1 - Plan #1 (10-28-13)	700.0	692.2	72.9	69.9	23.776	SF
SRC Phelps 11-32NHZ - Wellbore #1 - Plan #1 (10-28-13)	366.3	367.3	67.3	65.9	47.285	CC
SRC Phelps 11-32NHZ - Wellbore #1 - Plan #1 (10-28-13)	400.0	401.0	67.3	65.8	42.743	ES
SRC Phelps 11-32NHZ - Wellbore #1 - Plan #1 (10-28-13)	900.0	891.4	93.5	89.5	23.812	SF
SRC Phelps 12-32CHZ - Wellbore #1 - Plan #1 (10-28-13)	1,000.0	1,000.0	22.4	18.1	5.235	CC, ES
SRC Phelps 12-32CHZ - Wellbore #1 - Plan #1 (10-28-13)	11,962.1	12,129.2	380.5	152.1	1.666	SF
SRC Phelps A-32CHZ - Wellbore #1 - Plan #1 (10-28-13)	566.3	567.3	97.8	95.4	42.075	CC
SRC Phelps A-32CHZ - Wellbore #1 - Plan #1 (10-28-13)	600.0	601.0	97.8	95.3	39.502	ES
SRC Phelps A-32CHZ - Wellbore #1 - Plan #1 (10-28-13)	2,000.0	1,986.5	209.8	200.5	22.653	SF
SRC Phelps A-32NHZ - Wellbore #1 - Plan #1 (10-28-13)	766.3	767.3	120.1	116.9	37.274	CC
SRC Phelps A-32NHZ - Wellbore #1 - Plan #1 (10-28-13)	800.0	800.0	120.1	116.7	35.627	ES
SRC Phelps A-32NHZ - Wellbore #1 - Plan #1 (10-28-13)	11,962.1	11,938.6	659.7	399.0	2.530	SF

<b>Offset Design</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 11-32CHZ - Wellbore #1 - Plan #1 (10-28)												<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	77.84	9.5	44.0	45.0	44.8	0.22	200.157		
100.0	100.0	100.0	100.0	0.1	0.1	77.84	9.5	44.0	45.0	44.3	0.67	66.719	CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	77.84	9.5	44.0	45.0	44.3	0.67	66.719	CC, ES	
300.0	300.0	299.4	299.4	0.6	0.6	75.83	11.2	44.3	45.7	44.5	1.12	40.693		
400.0	400.0	398.5	398.4	0.8	0.8	70.19	16.3	45.1	48.0	46.4	1.58	30.465		
500.0	500.0	497.2	496.7	1.0	1.0	62.10	24.7	46.6	52.8	50.8	2.05	25.800		
600.0	600.0	595.2	593.9	1.2	1.3	53.21	36.3	48.5	60.9	58.4	2.54	23.953		
700.0	700.0	692.2	689.8	1.5	1.6	45.00	51.1	51.1	72.9	69.9	3.07	23.776	SF	
800.0	800.0	788.1	784.0	1.7	2.0	38.18	68.8	54.1	88.9	85.3	3.61	24.621		
900.0	900.0	884.5	878.2	1.9	2.4	32.83	89.2	57.6	108.4	104.2	4.17	25.966		
1,000.0	1,000.0	982.1	973.4	2.1	2.8	29.01	110.2	61.1	128.8	124.1	4.74	27.190		
1,100.0	1,100.0	1,079.7	1,068.6	2.4	3.2	26.25	131.2	64.7	149.6	144.3	5.30	28.247		
1,200.0	1,200.0	1,177.3	1,163.9	2.6	3.6	24.16	152.2	68.3	170.7	164.8	5.86	29.153		

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 12-32NHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32NHZ	<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 11-32CHZ - 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		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
							+N/-S (ft)	+E/-W (ft)							
1,300.0	1,300.0	1,274.9	1,259.1	2.8	4.1	22.53	173.2	71.9	191.9	185.5	6.41	29.934			
1,400.0	1,400.0	1,372.5	1,354.4	3.0	4.5	21.23	194.2	75.4	213.3	206.3	6.97	30.610			
1,500.0	1,500.0	1,470.1	1,449.6	3.3	5.0	20.16	215.2	79.0	234.7	227.2	7.52	31.200			
1,600.0	1,600.0	1,567.7	1,544.8	3.5	5.4	19.27	236.2	82.6	256.2	248.1	8.08	31.718			
1,700.0	1,700.0	1,665.3	1,640.1	3.7	5.8	18.52	257.2	86.2	277.8	269.1	8.63	32.177			
1,800.0	1,800.0	1,762.9	1,735.3	3.9	6.3	17.88	278.2	89.7	299.4	290.2	9.19	32.584			
1,900.0	1,900.0	1,860.4	1,830.5	4.2	6.7	17.32	299.2	93.3	321.0	311.3	9.74	32.949			
2,000.0	2,000.0	1,958.0	1,925.8	4.4	7.2	16.84	320.2	96.9	342.7	332.4	10.30	33.277			
2,100.0	2,100.0	2,055.3	2,020.7	4.6	7.6	-129.81	341.1	100.4	365.4	355.8	9.64	37.898			
2,200.0	2,199.8	2,151.9	2,115.0	4.8	8.1	-130.39	361.9	104.0	390.4	380.4	10.05	38.859			
2,300.0	2,299.5	2,247.8	2,208.5	4.9	8.5	-131.18	382.5	107.5	417.7	407.3	10.45	39.991			
2,400.0	2,398.7	2,342.7	2,301.2	5.1	8.9	-132.21	402.9	111.0	447.4	436.6	10.85	41.249			
2,500.0	2,497.8	2,437.3	2,393.5	5.4	9.4	-133.54	423.3	114.4	478.1	466.8	11.28	42.387			
2,600.0	2,596.9	2,532.0	2,485.9	5.6	9.8	-134.72	443.7	117.9	509.0	497.3	11.72	43.415			
2,700.0	2,696.1	2,626.6	2,578.2	5.8	10.2	-135.76	464.0	121.4	540.0	527.8	12.18	44.346			
2,800.0	2,795.2	2,721.2	2,670.6	6.1	10.7	-136.68	484.4	124.8	571.2	558.6	12.64	45.192			
2,900.0	2,894.3	2,815.8	2,762.9	6.3	11.1	-137.52	504.7	128.3	602.5	589.4	13.11	45.963			
3,000.0	2,993.4	2,910.5	2,855.2	6.6	11.5	-138.27	525.1	131.8	633.9	620.3	13.58	46.668			
3,100.0	3,092.5	3,005.1	2,947.6	6.9	12.0	-138.95	545.4	135.2	665.4	651.4	14.06	47.314			
3,200.0	3,191.7	3,099.7	3,039.9	7.1	12.4	-139.57	565.8	138.7	697.0	682.5	14.55	47.908			
3,300.0	3,290.8	3,194.3	3,132.3	7.4	12.8	-140.13	586.2	142.2	728.7	713.6	15.04	48.455			
3,400.0	3,389.9	3,289.0	3,224.6	7.7	13.3	-140.65	606.5	145.6	760.4	744.8	15.53	48.961			
3,500.0	3,489.0	3,383.6	3,317.0	8.0	13.7	-141.13	626.9	149.1	792.1	776.1	16.03	49.430			
3,600.0	3,588.1	3,478.2	3,409.3	8.3	14.1	-141.57	647.2	152.6	823.9	807.4	16.52	49.865			
3,700.0	3,687.2	3,572.8	3,501.6	8.6	14.6	-141.97	667.6	156.0	855.8	838.8	17.02	50.270			
3,800.0	3,786.4	3,667.4	3,594.0	8.9	15.0	-142.35	687.9	159.5	887.7	870.1	17.53	50.648			
3,900.0	3,885.5	3,762.1	3,686.3	9.2	15.4	-142.71	708.3	163.0	919.6	901.6	18.03	51.001			
4,000.0	3,984.6	3,856.7	3,778.7	9.5	15.9	-143.03	728.7	166.4	951.5	933.0	18.54	51.332			
4,100.0	4,083.7	3,951.3	3,871.0	9.8	16.3	-143.34	749.0	169.9	983.5	964.5	19.04	51.642			

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 (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	77.82	14.2	65.8	67.3	67.3	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	77.82	14.2	65.8	67.3	67.1	0.23	296.658		
200.0	200.0	201.0	201.0	0.3	0.3	77.82	14.2	65.8	67.3	66.7	0.68	99.543		
300.0	300.0	301.0	301.0	0.6	0.6	77.82	14.2	65.8	67.3	66.2	1.13	59.805		
366.3	366.3	367.3	367.3	0.7	0.7	77.82	14.2	65.8	67.3	65.9	1.42	47.285 CC		
400.0	400.0	401.0	401.0	0.8	0.8	77.82	14.2	65.8	67.3	65.8	1.58	42.743 ES		
500.0	500.0	500.0	500.0	1.0	1.0	76.47	15.9	66.2	68.1	66.1	2.02	33.668		
600.0	600.0	598.8	598.6	1.2	1.2	72.68	21.0	67.2	70.5	68.0	2.47	28.511		
700.0	700.0	697.1	696.6	1.5	1.5	66.98	29.3	68.9	75.0	72.1	2.93	25.588		
800.0	800.0	794.7	793.5	1.7	1.7	60.22	40.8	71.3	82.5	79.1	3.42	24.157		
900.0	900.0	891.4	889.0	1.9	2.0	53.30	55.4	74.3	93.5	89.5	3.92	23.812 SF		
1,000.0	1,000.0	989.7	985.8	2.1	2.3	47.17	72.1	77.7	107.1	102.6	4.46	24.014		
1,100.0	1,100.0	1,088.2	1,082.8	2.4	2.7	42.45	88.7	81.2	121.6	116.6	5.00	24.350		
1,200.0	1,200.0	1,186.7	1,179.9	2.6	3.0	38.75	105.4	84.6	136.8	131.3	5.53	24.741		
1,300.0	1,300.0	1,285.2	1,276.9	2.8	3.4	35.79	122.1	88.0	152.5	146.4	6.06	25.145		
1,400.0	1,400.0	1,383.7	1,373.9	3.0	3.8	33.38	138.8	91.5	168.5	161.9	6.60	25.540		
1,500.0	1,500.0	1,482.2	1,470.9	3.3	4.1	31.40	155.5	94.9	184.7	177.6	7.13	25.916		
1,600.0	1,600.0	1,580.7	1,567.9	3.5	4.5	29.73	172.2	98.4	201.1	193.4	7.65	26.269		
1,700.0	1,700.0	1,679.2	1,664.9	3.7	4.9	28.32	188.9	101.8	217.6	209.4	8.18	26.597		
1,800.0	1,800.0	1,777.7	1,761.9	3.9	5.2	27.10	205.6	105.2	234.3	225.6	8.71	26.901		
1,900.0	1,900.0	1,876.2	1,858.9	4.2	5.6	26.05	222.3	108.7	251.0	241.8	9.23	27.183		
2,000.0	2,000.0	1,974.6	1,955.9	4.4	6.0	25.13	239.0	112.1	267.8	258.1	9.76	27.443		
2,100.0	2,100.0	2,072.9	2,052.7	4.6	6.4	-122.04	255.7	115.5	285.6	276.1	9.49	30.107		
2,200.0	2,199.8	2,170.6	2,148.9	4.8	6.7	-123.24	272.2	119.0	305.4	295.5	9.89	30.890		
2,300.0	2,299.5	2,267.7	2,244.5	4.9	7.1	-124.72	288.7	122.3	327.3	317.0	10.28	31.834		
2,400.0	2,398.7	2,363.9	2,339.3	5.1	7.5	-126.47	305.0	125.7	351.4	340.7	10.68	32.915		
2,500.0	2,497.8	2,460.0	2,433.9	5.4	7.8	-128.42	321.3	129.0	376.7	365.6	11.10	33.942		
2,600.0	2,596.9	2,556.0	2,528.4	5.6	8.2	-130.13	337.5	132.4	402.3	390.7	11.53	34.888		
2,700.0	2,696.1	2,652.0	2,623.0	5.8	8.6	-131.63	353.8	135.8	428.2	416.2	11.97	35.759		
2,800.0	2,795.2	2,748.0	2,717.6	6.1	8.9	-132.96	370.1	139.1	454.3	441.9	12.43	36.562		
2,900.0	2,894.3	2,844.0	2,812.1	6.3	9.3	-134.15	386.4	142.5	480.7	467.8	12.89	37.303		
3,000.0	2,993.4	2,940.0	2,906.7	6.6	9.7	-135.21	402.6	145.8	507.2	493.8	13.35	37.989		
3,100.0	3,092.5	3,036.0	3,001.2	6.9	10.1	-136.17	418.9	149.2	533.8	520.0	13.82	38.625		
3,200.0	3,191.7	3,132.0	3,095.8	7.1	10.4	-137.04	435.2	152.5	560.6	546.4	14.30	39.215		
3,300.0	3,290.8	3,228.0	3,190.4	7.4	10.8	-137.83	451.5	155.9	587.6	572.8	14.78	39.765		
3,400.0	3,389.9	3,324.0	3,284.9	7.7	11.2	-138.55	467.7	159.2	614.6	599.3	15.26	40.277		
3,500.0	3,489.0	3,420.0	3,379.5	8.0	11.5	-139.21	484.0	162.6	641.6	625.9	15.74	40.755		
3,600.0	3,588.1	3,516.0	3,474.0	8.3	11.9	-139.82	500.3	165.9	668.8	652.6	16.23	41.202		
3,700.0	3,687.2	3,612.1	3,568.6	8.6	12.3	-140.38	516.6	169.3	696.0	679.3	16.72	41.622		
3,800.0	3,786.4	3,708.1	3,663.2	8.9	12.7	-140.90	532.8	172.6	723.3	706.1	17.22	42.016		
3,900.0	3,885.5	3,804.1	3,757.7	9.2	13.0	-141.38	549.1	176.0	750.6	732.9	17.71	42.386		
4,000.0	3,984.6	3,900.1	3,852.3	9.5	13.4	-141.83	565.4	179.3	778.0	759.8	18.21	42.735		
4,100.0	4,083.7	3,996.1	3,946.8	9.8	13.8	-142.24	581.7	182.7	805.4	786.7	18.70	43.064		
4,200.0	4,182.8	4,092.1	4,041.4	10.1	14.1	-142.63	597.9	186.0	832.9	813.7	19.20	43.374		
4,300.0	4,282.0	4,188.1	4,135.9	10.5	14.5	-143.00	614.2	189.4	860.4	840.7	19.70	43.668		
4,400.0	4,381.1	4,284.1	4,230.5	10.8	14.9	-143.34	630.5	192.7	887.9	867.7	20.20	43.947		
4,500.0	4,480.2	4,380.1	4,325.1	11.1	15.3	-143.66	646.8	196.1	915.4	894.7	20.71	44.211		
4,600.0	4,579.3	4,476.1	4,419.6	11.4	15.6	-143.96	663.0	199.4	943.0	921.8	21.21	44.461		
4,700.0	4,678.4	4,572.1	4,514.2	11.7	16.0	-144.25	679.3	202.8	970.6	948.9	21.71	44.700		
4,800.0	4,777.5	4,668.1	4,608.7	12.1	16.4	-144.52	695.6	206.1	998.2	976.0	22.22	44.926		

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32NHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32NHZ	<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	0.0	0.0	0.0	0.0	77.76	4.7	21.8	22.4					
100.0	100.0	100.0	100.0	0.1	0.1	77.76	4.7	21.8	22.4	22.1	0.22	99.471		
200.0	200.0	200.0	200.0	0.3	0.3	77.76	4.7	21.8	22.4	21.7	0.67	33.157		
300.0	300.0	300.0	300.0	0.6	0.6	77.76	4.7	21.8	22.4	21.2	1.12	19.894		
400.0	400.0	400.0	400.0	0.8	0.8	77.76	4.7	21.8	22.4	20.8	1.57	14.210		
500.0	500.0	500.0	500.0	1.0	1.0	77.76	4.7	21.8	22.4	20.3	2.02	11.052		
600.0	600.0	600.0	600.0	1.2	1.2	77.76	4.7	21.8	22.4	19.9	2.47	9.043		
700.0	700.0	700.0	700.0	1.5	1.5	77.76	4.7	21.8	22.4	19.4	2.92	7.652		
800.0	800.0	800.0	800.0	1.7	1.7	77.76	4.7	21.8	22.4	19.0	3.37	6.631		
900.0	900.0	900.0	900.0	1.9	1.9	77.76	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	77.76	4.7	21.8	22.4	18.1	4.27	5.235 CC, ES		
1,100.0	1,100.0	1,099.3	1,099.3	2.4	2.3	79.81	4.2	23.5	23.9	19.2	4.70	5.079		
1,200.0	1,200.0	1,198.4	1,198.2	2.6	2.5	84.63	2.7	28.4	28.6	23.5	5.12	5.579		
1,300.0	1,300.0	1,298.1	1,297.8	2.8	2.7	88.96	0.6	34.8	34.9	29.4	5.54	6.295		
1,400.0	1,400.0	1,397.9	1,397.3	3.0	3.0	91.95	-1.4	41.3	41.4	35.4	5.97	6.927		
1,500.0	1,500.0	1,497.7	1,496.8	3.3	3.2	94.13	-3.4	47.7	47.9	41.5	6.41	7.482		
1,600.0	1,600.0	1,597.5	1,596.4	3.5	3.4	95.78	-5.5	54.1	54.5	47.7	6.84	7.970		
1,700.0	1,700.0	1,697.2	1,695.9	3.7	3.6	97.08	-7.5	60.6	61.2	53.9	7.28	8.401		
1,800.0	1,800.0	1,797.0	1,795.5	3.9	3.9	98.12	-9.6	67.0	67.8	60.1	7.72	8.783		
1,900.0	1,900.0	1,896.8	1,895.0	4.2	4.1	98.97	-11.6	73.4	74.5	66.3	8.17	9.124		
2,000.0	2,000.0	1,996.5	1,994.6	4.4	4.4	99.69	-13.6	79.9	81.2	72.6	8.61	9.429		
2,100.0	2,100.0	2,096.4	2,094.2	4.6	4.6	-46.83	-15.7	86.3	86.7	77.7	9.01	9.627		
2,200.0	2,199.8	2,196.3	2,193.8	4.8	4.8	-48.61	-17.7	92.7	89.9	80.5	9.40	9.561		
2,300.0	2,299.5	2,296.1	2,293.5	4.9	5.1	-51.98	-19.7	99.2	90.9	81.1	9.80	9.276		
2,400.0	2,398.7	2,395.8	2,392.9	5.1	5.3	-57.06	-21.8	105.6	90.4	80.2	10.23	8.837		
2,487.8	2,485.7	2,483.2	2,480.1	5.3	5.6	-62.08	-23.6	111.2	90.1	79.4	10.63	8.469		
2,500.0	2,497.8	2,495.4	2,492.3	5.4	5.6	-62.78	-23.8	112.0	90.1	79.4	10.69	8.425		
2,600.0	2,596.9	2,595.0	2,591.6	5.6	5.8	-68.49	-25.9	118.5	90.6	79.4	11.17	8.110		
2,700.0	2,696.1	2,694.6	2,691.0	5.8	6.1	-74.07	-27.9	124.9	92.1	80.4	11.68	7.883		
2,800.0	2,795.2	2,794.2	2,790.4	6.1	6.3	-79.43	-29.9	131.3	94.4	82.2	12.20	7.734		
2,900.0	2,894.3	2,893.8	2,889.7	6.3	6.6	-84.50	-32.0	137.7	97.5	84.7	12.74	7.653		
3,000.0	2,993.4	2,993.3	2,989.1	6.6	6.8	-89.22	-34.0	144.1	101.3	88.0	13.28	7.627		
3,100.0	3,092.5	3,092.9	3,088.4	6.9	7.1	-93.58	-36.0	150.6	105.7	91.9	13.82	7.648		
3,200.0	3,191.7	3,192.5	3,187.8	7.1	7.3	-97.56	-38.1	157.0	110.7	96.4	14.37	7.707		
3,300.0	3,290.8	3,292.1	3,287.2	7.4	7.6	-101.19	-40.1	163.4	116.2	101.3	14.91	7.795		
3,400.0	3,389.9	3,391.7	3,386.5	7.7	7.8	-104.48	-42.1	169.8	122.2	106.7	15.45	7.906		
3,500.0	3,489.0	3,491.3	3,485.9	8.0	8.1	-107.45	-44.2	176.3	128.5	112.5	15.99	8.034		
3,600.0	3,588.1	3,590.9	3,585.2	8.3	8.3	-110.15	-46.2	182.7	135.1	118.5	16.52	8.174		
3,700.0	3,687.2	3,690.5	3,684.6	8.6	8.6	-112.59	-48.2	189.1	141.9	124.9	17.05	8.323		
3,800.0	3,786.4	3,790.1	3,784.0	8.9	8.9	-114.80	-50.3	195.5	149.0	131.5	17.58	8.478		
3,900.0	3,885.5	3,889.7	3,883.3	9.2	9.1	-116.80	-52.3	201.9	156.4	138.2	18.11	8.636		
4,000.0	3,984.6	3,989.2	3,982.7	9.5	9.4	-118.63	-54.3	208.4	163.8	145.2	18.63	8.795		
4,100.0	4,083.7	4,088.8	4,082.1	9.8	9.6	-120.29	-56.4	214.8	171.5	152.3	19.15	8.955		
4,200.0	4,182.8	4,188.4	4,181.4	10.1	9.9	-121.82	-58.4	221.2	179.2	159.6	19.67	9.114		
4,300.0	4,282.0	4,288.0	4,280.8	10.5	10.1	-123.21	-60.4	227.6	187.1	166.9	20.18	9.270		
4,400.0	4,381.1	4,387.6	4,380.1	10.8	10.4	-124.49	-62.5	234.1	195.1	174.4	20.70	9.425		
4,500.0	4,480.2	4,487.2	4,479.5	11.1	10.6	-125.68	-64.5	240.5	203.2	182.0	21.22	9.576		
4,600.0	4,579.3	4,586.8	4,578.9	11.4	10.9	-126.77	-66.5	246.9	211.3	189.6	21.73	9.725		
4,700.0	4,678.4	4,686.4	4,678.2	11.7	11.2	-127.77	-68.6	253.3	219.5	197.3	22.24	9.870		
4,800.0	4,777.5	4,786.0	4,777.6	12.1	11.4	-128.71	-70.6	259.7	227.8	205.1	22.76	10.011		
4,900.0	4,876.7	4,885.4	4,876.9	12.4	11.6	-129.79	-72.4	265.3	236.2	212.9	23.24	10.164		

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 12-32NHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32NHZ	<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 12-32CHZ - 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	4,975.8	4,984.5	4,975.9	12.7	11.8	-131.57	-73.1	267.8	244.8	221.1	23.64	10.353			
5,100.0	5,074.9	5,083.5	5,074.9	13.0	12.0	-133.77	-73.2	267.8	253.8	229.8	24.02	10.565			
5,200.0	5,174.0	5,182.6	5,174.0	13.3	12.2	-135.85	-73.2	267.8	263.2	238.8	24.40	10.786			
5,300.0	5,273.1	5,281.7	5,273.1	13.7	12.4	-137.78	-73.2	267.8	272.9	248.1	24.78	11.014			
5,400.0	5,372.2	5,380.8	5,372.2	14.0	12.6	-139.57	-73.2	267.8	282.9	257.7	25.15	11.245			
5,500.0	5,471.4	5,480.0	5,471.4	14.3	12.7	-141.25	-73.2	267.8	293.1	267.6	25.53	11.480			
5,600.0	5,570.5	5,579.1	5,570.5	14.7	12.9	-142.81	-73.2	267.8	303.6	277.7	25.91	11.716			
5,700.0	5,669.7	5,678.2	5,669.7	15.0	13.1	-144.28	-73.2	267.8	314.0	287.6	26.30	11.935			
5,800.0	5,769.2	5,777.8	5,769.2	15.2	13.3	-145.39	-73.2	267.8	322.0	295.3	26.68	12.067			
5,900.0	5,869.0	5,877.6	5,869.0	15.4	13.5	-146.07	-73.2	267.8	327.2	300.1	27.05	12.094			
6,000.0	5,968.9	5,977.5	5,968.9	15.6	13.7	-146.37	-73.2	267.8	329.5	302.1	27.42	12.020			
6,100.0	6,068.9	6,077.5	6,068.9	15.8	13.9	-0.03	-73.2	267.8	329.7	301.5	28.19	11.696			
6,200.0	6,168.9	6,177.5	6,168.9	15.9	14.1	-0.03	-73.2	267.8	329.7	301.1	28.56	11.543			
6,300.0	6,268.9	6,277.5	6,268.9	16.1	14.3	-0.03	-73.2	267.8	329.7	300.7	28.94	11.392			
6,400.0	6,368.9	6,377.5	6,368.9	16.3	14.5	-0.03	-73.2	267.8	329.7	300.4	29.32	11.245			
6,500.0	6,468.9	6,477.5	6,468.9	16.4	14.7	-0.03	-73.2	267.8	329.7	300.0	29.70	11.101			
6,600.0	6,568.9	6,577.5	6,568.9	16.6	14.9	-0.03	-73.2	267.8	329.7	299.6	30.08	10.960			
6,700.0	6,668.9	6,677.5	6,668.9	16.8	15.1	-0.03	-73.2	267.8	329.7	299.2	30.47	10.822			
6,756.4	6,725.3	6,733.9	6,725.3	16.9	15.2	90.10	-73.2	267.8	329.7	299.3	30.36	10.860			
6,800.0	6,768.9	6,777.5	6,768.9	16.9	15.3	90.11	-73.2	267.8	329.7	299.2	30.53	10.799			
6,900.0	6,868.2	6,876.7	6,868.2	17.0	15.5	92.08	-73.2	267.8	329.9	299.0	30.95	10.659			
7,000.0	6,964.8	6,975.5	6,966.9	17.1	15.7	96.07	-73.2	266.7	331.7	300.3	31.38	10.571			
7,100.0	7,057.0	7,079.2	7,069.6	17.1	15.8	100.39	-73.2	253.3	335.6	303.9	31.65	10.603			
7,200.0	7,143.0	7,187.3	7,173.5	17.2	15.9	104.51	-73.2	223.7	341.3	309.5	31.75	10.747			
7,300.0	7,221.0	7,300.2	7,275.9	17.2	16.0	108.32	-73.2	176.5	348.3	316.5	31.75	10.970			
7,400.0	7,289.6	7,418.0	7,373.5	17.2	16.2	111.71	-73.2	110.7	356.0	324.2	31.78	11.200			
7,500.0	7,347.4	7,540.9	7,462.4	17.2	16.5	114.61	-73.2	26.0	363.6	331.5	32.09	11.330			
7,600.0	7,393.3	7,668.4	7,537.9	17.8	17.3	116.94	-73.2	-76.5	370.5	337.6	32.98	11.235			
7,700.0	7,426.4	7,799.9	7,595.5	19.1	18.6	118.63	-73.2	-194.5	376.0	341.3	34.69	10.840			
7,800.0	7,446.1	7,934.3	7,631.1	20.7	20.5	119.65	-73.2	-323.9	379.5	342.1	37.36	10.156			
7,900.0	7,452.0	8,067.4	7,642.0	22.5	22.9	119.95	-73.2	-456.3	380.5	339.6	40.87	9.311			
8,000.0	7,452.0	8,167.4	7,642.0	24.5	24.8	119.95	-73.2	-556.3	380.5	336.2	44.28	8.594			
8,100.0	7,452.0	8,267.4	7,642.0	26.6	26.9	119.95	-73.2	-656.3	380.5	332.6	47.93	7.939			
8,200.0	7,452.0	8,367.4	7,642.0	28.9	29.1	119.95	-73.2	-756.3	380.5	328.7	51.80	7.346			
8,300.0	7,452.0	8,467.4	7,642.0	31.2	31.5	119.96	-73.2	-856.3	380.5	324.7	55.82	6.816			
8,400.0	7,452.0	8,567.4	7,642.0	33.6	33.8	119.96	-73.2	-956.3	380.5	320.5	59.98	6.344			
8,500.0	7,452.0	8,667.4	7,642.0	36.1	36.3	119.96	-73.2	-1,056.3	380.5	316.3	64.25	5.922			
8,600.0	7,452.0	8,767.4	7,642.0	38.6	38.8	119.96	-73.2	-1,156.3	380.5	311.9	68.60	5.547			
8,700.0	7,452.0	8,867.4	7,642.0	41.1	41.3	119.96	-73.2	-1,256.3	380.5	307.5	73.02	5.211			
8,800.0	7,452.0	8,967.4	7,642.0	43.7	43.9	119.96	-73.2	-1,356.3	380.5	303.0	77.50	4.910			
8,900.0	7,452.0	9,067.4	7,642.0	46.3	46.5	119.96	-73.2	-1,456.3	380.5	298.5	82.03	4.638			
9,000.0	7,452.0	9,167.4	7,642.0	48.9	49.1	119.96	-73.2	-1,556.3	380.5	293.9	86.61	4.394			
9,100.0	7,452.0	9,267.4	7,642.0	51.6	51.7	119.96	-73.2	-1,656.3	380.5	289.3	91.21	4.172			
9,200.0	7,452.0	9,367.4	7,642.0	54.2	54.4	119.96	-73.2	-1,756.3	380.5	284.7	95.85	3.970			
9,300.0	7,452.0	9,467.4	7,642.0	56.9	57.1	119.96	-73.2	-1,856.3	380.5	280.0	100.51	3.786			
9,400.0	7,452.0	9,567.4	7,642.0	59.6	59.8	119.96	-73.2	-1,956.3	380.5	275.3	105.20	3.617			
9,500.0	7,452.0	9,667.4	7,642.0	62.3	62.4	119.96	-73.2	-2,056.3	380.5	270.6	109.90	3.462			
9,600.0	7,452.0	9,767.4	7,642.0	65.0	65.1	119.96	-73.2	-2,156.3	380.5	265.9	114.62	3.320			
9,700.0	7,452.0	9,867.4	7,642.0	67.7	67.9	119.96	-73.2	-2,256.3	380.5	261.2	119.36	3.188			
9,800.0	7,452.0	9,967.4	7,642.0	70.4	70.6	119.96	-73.2	-2,356.3	380.5	256.4	124.11	3.066			

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 12-32NHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32NHZ	<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 12-32CHZ - 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		
9,900.0	7,452.0	10,067.4	7,642.0	73.1	73.3	119.96	-73.2	-2,456.3	380.5	251.6	128.87	2.953		
10,000.0	7,452.0	10,167.4	7,642.0	75.9	76.0	119.96	-73.2	-2,556.3	380.5	246.9	133.64	2.847		
10,100.0	7,452.0	10,267.4	7,642.0	78.6	78.8	119.96	-73.2	-2,656.3	380.5	242.1	138.43	2.749		
10,200.0	7,452.0	10,367.4	7,642.0	81.3	81.5	119.96	-73.2	-2,756.3	380.5	237.3	143.22	2.657		
10,300.0	7,452.0	10,467.4	7,642.0	84.1	84.2	119.96	-73.2	-2,856.3	380.5	232.5	148.01	2.571		
10,400.0	7,452.0	10,567.4	7,642.0	86.8	87.0	119.96	-73.2	-2,956.3	380.5	227.7	152.82	2.490		
10,500.0	7,452.0	10,667.4	7,642.0	89.6	89.7	119.96	-73.2	-3,056.3	380.5	222.9	157.63	2.414		
10,600.0	7,452.0	10,767.4	7,642.0	92.3	92.5	119.96	-73.2	-3,156.3	380.5	218.1	162.45	2.342		
10,700.0	7,452.0	10,867.4	7,642.0	95.1	95.3	119.96	-73.2	-3,256.3	380.5	213.2	167.27	2.275		
10,800.0	7,452.0	10,967.4	7,642.0	97.9	98.0	119.96	-73.2	-3,356.3	380.5	208.4	172.10	2.211		
10,900.0	7,452.0	11,067.4	7,642.0	100.6	100.8	119.96	-73.2	-3,456.3	380.5	203.6	176.93	2.151		
11,000.0	7,452.0	11,167.4	7,642.0	103.4	103.5	119.96	-73.2	-3,556.3	380.5	198.7	181.77	2.093		
11,100.0	7,452.0	11,267.4	7,642.0	106.1	106.3	119.96	-73.2	-3,656.3	380.5	193.9	186.61	2.039		
11,200.0	7,452.0	11,367.4	7,642.0	108.9	109.1	119.96	-73.2	-3,756.3	380.5	189.1	191.45	1.988		
11,300.0	7,452.0	11,467.4	7,642.0	111.7	111.9	119.96	-73.2	-3,856.3	380.5	184.2	196.30	1.938		
11,400.0	7,452.0	11,567.4	7,642.0	114.5	114.6	119.96	-73.2	-3,956.3	380.5	179.4	201.15	1.892		
11,500.0	7,452.0	11,667.4	7,642.0	117.2	117.4	119.96	-73.2	-4,056.3	380.5	174.5	206.00	1.847		
11,600.0	7,452.0	11,767.4	7,642.0	120.0	120.2	119.96	-73.2	-4,156.3	380.5	169.7	210.86	1.805		
11,700.0	7,452.0	11,867.4	7,642.0	122.8	122.9	119.96	-73.2	-4,256.3	380.5	164.8	215.71	1.764		
11,800.0	7,452.0	11,967.4	7,642.0	125.6	125.7	119.96	-73.2	-4,356.3	380.5	159.9	220.57	1.725		
11,900.0	7,452.0	12,067.4	7,642.0	128.3	128.5	119.96	-73.2	-4,456.3	380.5	155.1	225.43	1.688		
11,946.3	7,452.0	12,113.7	7,642.0	129.6	129.8	119.96	-73.2	-4,502.7	380.5	152.8	227.69	1.671		
11,962.1	7,452.0	12,129.2	7,642.0	130.1	130.2	119.96	-73.2	-4,518.1	380.5	152.1	228.45	1.666 SF		

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32NHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32NHZ	<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			
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			
566.3	566.3	567.3	567.3	1.2	1.2	77.73	20.8	95.5	97.8	95.4	2.32	42.075 CC			
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 ES			
700.0	700.0	700.0	700.0	1.5	1.5	76.83	22.5	96.0	98.6	95.6	2.92	33.748			
800.0	800.0	797.6	797.4	1.7	1.7	74.30	27.4	97.3	101.1	97.7	3.37	30.046			
900.0	900.0	895.3	894.8	1.9	1.9	70.37	35.5	99.4	105.8	101.9	3.82	27.688			
1,000.0	1,000.0	993.6	992.4	2.1	2.2	65.61	46.4	102.4	112.7	108.4	4.29	26.260			
1,100.0	1,100.0	1,092.9	1,091.0	2.4	2.4	61.24	57.8	105.4	120.7	115.9	4.78	25.239			
1,200.0	1,200.0	1,192.2	1,189.6	2.6	2.7	57.43	69.3	108.5	129.2	123.9	5.28	24.494			
1,300.0	1,300.0	1,291.5	1,288.2	2.8	3.0	54.10	80.7	111.5	138.3	132.5	5.77	23.948			
1,400.0	1,400.0	1,390.8	1,386.8	3.0	3.3	51.19	92.1	114.6	147.7	141.4	6.27	23.549			
1,500.0	1,500.0	1,490.1	1,485.3	3.3	3.6	48.63	103.6	117.6	157.5	150.7	6.77	23.257			
1,600.0	1,600.0	1,589.4	1,583.9	3.5	3.8	46.38	115.0	120.7	167.6	160.3	7.27	23.045			
1,700.0	1,700.0	1,688.6	1,682.5	3.7	4.1	44.38	126.4	123.7	177.9	170.1	7.77	22.891			
1,800.0	1,800.0	1,787.9	1,781.1	3.9	4.4	42.60	137.9	126.8	188.4	180.1	8.27	22.781			
1,900.0	1,900.0	1,887.2	1,879.7	4.2	4.7	41.01	149.3	129.8	199.0	190.2	8.76	22.705			
2,000.0	2,000.0	1,986.5	1,978.2	4.4	5.0	39.58	160.7	132.9	209.8	200.5	9.26	22.653 SF			
2,100.0	2,100.0	2,085.6	2,076.7	4.6	5.3	-108.28	172.2	135.9	221.2	211.9	9.37	23.618			
2,200.0	2,199.8	2,184.4	2,174.7	4.8	5.6	-110.39	183.5	139.0	234.1	224.3	9.76	23.970			
2,300.0	2,299.5	2,282.6	2,272.2	4.9	5.9	-112.96	194.8	142.0	248.6	238.4	10.16	24.466			
2,400.0	2,398.7	2,380.2	2,369.1	5.1	6.2	-115.89	206.1	145.0	265.1	254.5	10.56	25.107			
2,500.0	2,497.8	2,477.5	2,465.8	5.4	6.5	-118.89	217.3	148.0	282.9	271.9	10.97	25.778			
2,600.0	2,596.9	2,574.9	2,562.5	5.6	6.8	-121.54	228.5	151.0	301.3	289.9	11.40	26.431			
2,700.0	2,696.1	2,672.3	2,659.1	5.8	7.1	-123.88	239.7	153.9	320.3	308.5	11.84	27.061			
2,800.0	2,795.2	2,769.6	2,755.8	6.1	7.4	-125.97	250.9	156.9	339.8	327.5	12.28	27.666			
2,900.0	2,894.3	2,867.0	2,852.5	6.3	7.7	-127.82	262.1	159.9	359.7	346.9	12.73	28.244			
3,000.0	2,993.4	2,964.4	2,949.2	6.6	8.0	-129.49	273.3	162.9	379.9	366.7	13.19	28.796			
3,100.0	3,092.5	3,061.7	3,045.8	6.9	8.3	-130.98	284.5	165.9	400.4	386.7	13.65	29.320			
3,200.0	3,191.7	3,159.1	3,142.5	7.1	8.6	-132.33	295.8	168.9	421.1	407.0	14.12	29.819			
3,300.0	3,290.8	3,256.5	3,239.2	7.4	8.9	-133.56	307.0	171.9	442.0	427.4	14.59	30.292			
3,400.0	3,389.9	3,353.8	3,335.8	7.7	9.2	-134.67	318.2	174.9	463.1	448.0	15.06	30.742			
3,500.0	3,489.0	3,451.2	3,432.5	8.0	9.5	-135.69	329.4	177.9	484.4	468.8	15.54	31.170			
3,600.0	3,588.1	3,548.6	3,529.2	8.3	9.8	-136.62	340.6	180.9	505.7	489.7	16.02	31.576			
3,700.0	3,687.2	3,645.9	3,625.9	8.6	10.1	-137.48	351.8	183.9	527.2	510.7	16.50	31.962			
3,800.0	3,786.4	3,743.3	3,722.5	8.9	10.4	-138.27	363.0	186.9	548.9	531.9	16.98	32.329			
3,900.0	3,885.5	3,840.7	3,819.2	9.2	10.7	-139.00	374.2	189.9	570.6	553.1	17.46	32.678			
4,000.0	3,984.6	3,938.0	3,915.9	9.5	11.0	-139.68	385.5	192.8	592.3	574.4	17.94	33.010			
4,100.0	4,083.7	4,035.4	4,012.6	9.8	11.3	-140.31	396.7	195.8	614.2	595.8	18.43	33.327			
4,200.0	4,182.8	4,132.8	4,109.2	10.1	11.6	-140.89	407.9	198.8	636.1	617.2	18.92	33.629			
4,300.0	4,282.0	4,230.1	4,205.9	10.5	11.9	-141.44	419.1	201.8	658.1	638.7	19.40	33.917			
4,400.0	4,381.1	4,327.5	4,302.6	10.8	12.2	-141.95	430.3	204.8	680.1	660.3	19.89	34.192			
4,500.0	4,480.2	4,424.9	4,399.2	11.1	12.5	-142.43	441.5	207.8	702.2	681.9	20.38	34.455			
4,600.0	4,579.3	4,522.2	4,495.9	11.4	12.8	-142.88	452.7	210.8	724.4	703.5	20.87	34.706			
4,700.0	4,678.4	4,619.6	4,592.6	11.7	13.2	-143.31	463.9	213.8	746.5	725.2	21.36	34.947			
4,800.0	4,777.5	4,717.0	4,689.3	12.1	13.5	-143.71	475.1	216.8	768.7	746.9	21.85	35.177			
4,900.0	4,876.7	4,814.3	4,785.9	12.4	13.8	-144.08	486.4	219.8	791.0	768.6	22.35	35.398			

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 12-32NHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32NHZ	<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	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)						
5,000.0	4,975.8	4,911.7	4,882.6	12.7	14.1	-144.44	497.6	222.8	813.3	790.4	22.84	35.610					
5,100.0	5,074.9	5,009.1	4,979.3	13.0	14.4	-144.78	508.8	225.8	835.6	812.2	23.33	35.813					
5,200.0	5,174.0	5,106.4	5,075.9	13.3	14.7	-145.10	520.0	228.7	857.9	834.1	23.82	36.008					
5,300.0	5,273.1	5,203.8	5,172.6	13.7	15.0	-145.40	531.2	231.7	880.2	855.9	24.32	36.195					
5,400.0	5,372.2	5,301.2	5,269.3	14.0	15.3	-145.69	542.4	234.7	902.6	877.8	24.81	36.375					
5,500.0	5,471.4	5,398.5	5,366.0	14.3	15.6	-145.96	553.6	237.7	925.0	899.7	25.31	36.548					
5,600.0	5,570.5	5,495.9	5,462.6	14.7	15.9	-146.23	564.8	240.7	947.4	921.6	25.80	36.715					
5,700.0	5,669.7	5,593.4	5,559.4	15.0	16.2	-146.58	576.1	243.7	969.5	943.2	26.33	36.825					
5,800.0	5,769.2	5,691.4	5,656.7	15.2	16.5	-146.93	587.3	246.7	989.1	962.2	26.84	36.848					



<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32NHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32NHZ	<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			
0.0	0.0	1.0	1.0	0.0	0.0	77.74	25.5	117.4	120.1	120.1	0.00	N/A			
100.0	100.0	101.0	101.0	0.1	0.1	77.74	25.5	117.4	120.1	119.9	0.23	529.092			
200.0	200.0	201.0	201.0	0.3	0.3	77.74	25.5	117.4	120.1	119.4	0.68	177.536			
300.0	300.0	301.0	301.0	0.6	0.6	77.74	25.5	117.4	120.1	119.0	1.13	106.663			
400.0	400.0	401.0	401.0	0.8	0.8	77.74	25.5	117.4	120.1	118.5	1.58	76.232			
500.0	500.0	501.0	501.0	1.0	1.0	77.74	25.5	117.4	120.1	118.1	2.03	59.310			
600.0	600.0	601.0	601.0	1.2	1.2	77.74	25.5	117.4	120.1	117.6	2.47	48.536			
700.0	700.0	701.0	701.0	1.5	1.5	77.74	25.5	117.4	120.1	117.2	2.92	41.075			
766.3	766.3	767.3	767.3	1.6	1.6	77.74	25.5	117.4	120.1	116.9	3.22	37.274 CC			
800.0	800.0	800.0	800.0	1.7	1.7	77.74	25.5	117.4	120.1	116.7	3.37	35.627 ES			
900.0	900.0	898.0	898.0	1.9	1.9	77.18	26.9	118.3	121.3	117.5	3.81	31.817			
1,000.0	1,000.0	994.9	994.7	2.1	2.1	75.60	31.1	121.0	125.1	120.8	4.25	29.402			
1,100.0	1,100.0	1,094.6	1,094.2	2.4	2.3	73.55	36.8	124.7	130.2	125.5	4.70	27.676			
1,200.0	1,200.0	1,194.3	1,193.7	2.6	2.6	71.66	42.6	128.4	135.5	130.3	5.16	26.259			
1,300.0	1,300.0	1,294.1	1,293.3	2.8	2.8	69.91	48.3	132.2	140.9	135.3	5.62	25.082			
1,400.0	1,400.0	1,393.9	1,392.8	3.0	3.1	68.30	54.1	135.9	146.5	140.4	6.08	24.094			
1,500.0	1,500.0	1,493.6	1,492.3	3.3	3.3	66.80	59.8	139.6	152.1	145.6	6.54	23.257			
1,600.0	1,600.0	1,593.4	1,591.8	3.5	3.5	65.41	65.6	143.4	157.9	150.9	7.01	22.541			
1,700.0	1,700.0	1,693.2	1,691.4	3.7	3.8	64.12	71.3	147.1	163.8	156.3	7.47	21.923			
1,800.0	1,800.0	1,792.9	1,790.9	3.9	4.0	62.92	77.1	150.8	169.7	161.7	7.93	21.385			
1,900.0	1,900.0	1,892.7	1,890.4	4.2	4.3	61.80	82.8	154.5	175.7	167.3	8.40	20.915			
2,000.0	2,000.0	1,992.5	1,989.9	4.4	4.5	60.76	88.6	158.3	181.7	172.9	8.86	20.500			
2,100.0	2,100.0	2,092.2	2,089.4	4.6	4.8	-86.99	94.3	162.0	187.7	178.5	9.20	20.398			
2,200.0	2,199.8	2,191.6	2,188.7	4.8	5.0	-89.31	100.1	165.7	193.8	184.2	9.60	20.179			
2,300.0	2,299.5	2,290.8	2,287.6	4.9	5.3	-92.45	105.8	169.4	200.3	190.3	10.01	20.012			
2,400.0	2,398.7	2,389.5	2,386.0	5.1	5.5	-96.30	111.5	173.1	207.8	197.4	10.43	19.931			
2,500.0	2,497.8	2,488.0	2,484.3	5.4	5.8	-100.27	117.2	176.8	216.5	205.6	10.86	19.935			
2,600.0	2,596.9	2,586.5	2,582.6	5.6	6.0	-103.92	122.9	180.5	226.1	214.8	11.30	20.003			
2,700.0	2,696.1	2,685.0	2,680.9	5.8	6.3	-107.27	128.5	184.2	236.5	224.8	11.75	20.122			
2,800.0	2,795.2	2,783.6	2,779.2	6.1	6.5	-110.33	134.2	187.8	247.7	235.5	12.22	20.281			
2,900.0	2,894.3	2,882.1	2,877.5	6.3	6.8	-113.13	139.9	191.5	259.6	246.9	12.68	20.469			
3,000.0	2,993.4	2,980.6	2,975.7	6.6	7.0	-115.67	145.6	195.2	272.0	258.8	13.15	20.680			
3,100.0	3,092.5	3,079.1	3,074.0	6.9	7.3	-118.00	151.3	198.9	284.9	271.3	13.63	20.906			
3,200.0	3,191.7	3,177.6	3,172.3	7.1	7.5	-120.12	157.0	202.6	298.2	284.1	14.11	21.143			
3,300.0	3,290.8	3,276.2	3,270.6	7.4	7.8	-122.06	162.6	206.3	311.9	297.3	14.58	21.387			
3,400.0	3,389.9	3,374.7	3,368.9	7.7	8.0	-123.83	168.3	209.9	326.0	310.9	15.07	21.635			
3,500.0	3,489.0	3,473.2	3,467.2	8.0	8.3	-125.46	174.0	213.6	340.3	324.7	15.55	21.884			
3,600.0	3,588.1	3,571.7	3,565.5	8.3	8.5	-126.96	179.7	217.3	354.8	338.8	16.03	22.132			
3,700.0	3,687.2	3,670.2	3,663.8	8.6	8.8	-128.34	185.4	221.0	369.6	353.1	16.52	22.378			
3,800.0	3,786.4	3,768.8	3,762.1	8.9	9.0	-129.62	191.0	224.7	384.6	367.6	17.00	22.620			
3,900.0	3,885.5	3,867.3	3,860.3	9.2	9.3	-130.80	196.7	228.4	399.7	382.3	17.49	22.858			
4,000.0	3,984.6	3,965.8	3,958.6	9.5	9.5	-131.89	202.4	232.0	415.0	397.1	17.97	23.091			
4,100.0	4,083.7	4,064.3	4,056.9	9.8	9.8	-132.90	208.1	235.7	430.5	412.0	18.46	23.319			
4,200.0	4,182.8	4,162.9	4,155.2	10.1	10.0	-133.85	213.8	239.4	446.1	427.1	18.95	23.541			
4,300.0	4,282.0	4,261.4	4,253.5	10.5	10.3	-134.73	219.5	243.1	461.7	442.3	19.44	23.757			
4,400.0	4,381.1	4,359.9	4,351.8	10.8	10.5	-135.55	225.1	246.8	477.5	457.6	19.92	23.968			
4,500.0	4,480.2	4,458.4	4,450.1	11.1	10.8	-136.32	230.8	250.5	493.4	473.0	20.41	24.172			
4,600.0	4,579.3	4,556.9	4,548.4	11.4	11.0	-137.05	236.5	254.1	509.3	488.4	20.90	24.370			
4,700.0	4,678.4	4,655.5	4,646.7	11.7	11.3	-137.73	242.2	257.8	525.3	504.0	21.39	24.563			
4,800.0	4,777.5	4,754.0	4,744.9	12.1	11.5	-138.36	247.9	261.5	541.4	519.6	21.88	24.750			
4,900.0	4,876.7	4,861.0	4,851.8	12.4	11.8	-139.04	253.7	265.3	557.3	534.9	22.37	24.915			

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-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)			
5,000.0	4,975.8	4,981.1	4,971.8	12.7	12.0	-139.93	256.8	267.3	570.1	547.3	22.83	24.971		
5,100.0	5,074.9	5,085.2	5,075.9	13.0	12.2	-140.80	256.9	267.4	580.5	557.2	23.27	24.942		
5,200.0	5,174.0	5,184.3	5,175.0	13.3	12.4	-141.61	256.9	267.4	590.9	567.1	23.73	24.897		
5,300.0	5,273.1	5,283.5	5,274.1	13.7	12.6	-142.39	256.9	267.4	601.3	577.1	24.19	24.856		
5,400.0	5,372.2	5,382.6	5,373.2	14.0	12.8	-143.15	256.9	267.4	611.9	587.3	24.65	24.821		
5,500.0	5,471.4	5,481.7	5,472.4	14.3	13.0	-143.88	256.9	267.4	622.6	597.5	25.11	24.792		
5,600.0	5,570.5	5,580.8	5,571.5	14.7	13.2	-144.58	256.9	267.4	633.4	607.8	25.57	24.769		
5,700.0	5,669.7	5,680.0	5,670.7	15.0	13.4	-145.30	256.9	267.4	643.9	617.9	26.05	24.723		
5,800.0	5,769.2	5,779.5	5,770.2	15.2	13.6	-145.88	256.9	267.4	652.0	625.5	26.50	24.602		
5,900.0	5,869.0	5,879.3	5,870.0	15.4	13.8	-146.25	256.9	267.4	657.3	630.3	26.94	24.400		
6,000.0	5,968.9	5,979.3	5,969.9	15.6	14.0	-146.41	256.9	267.4	659.6	632.3	27.35	24.120		
6,100.0	6,068.9	6,079.3	6,069.9	15.8	14.2	-0.05	256.9	267.4	659.8	630.8	28.98	22.767		
6,200.0	6,168.9	6,179.3	6,169.9	15.9	14.4	-0.05	256.9	267.4	659.8	630.4	29.36	22.472		
6,300.0	6,268.9	6,279.3	6,269.9	16.1	14.6	-0.05	256.9	267.4	659.8	630.0	29.74	22.182		
6,400.0	6,368.9	6,379.3	6,369.9	16.3	14.8	-0.05	256.9	267.4	659.8	629.6	30.13	21.899		
6,500.0	6,468.9	6,479.3	6,469.9	16.4	15.1	-0.05	256.9	267.4	659.8	629.2	30.51	21.622		
6,600.0	6,568.9	6,579.3	6,569.9	16.6	15.3	-0.05	256.9	267.4	659.8	628.9	30.90	21.351		
6,700.0	6,668.9	6,679.3	6,669.9	16.8	15.5	-0.05	256.9	267.4	659.8	628.5	31.29	21.085		
6,709.0	6,678.0	6,688.3	6,679.0	16.8	15.5	89.95	256.9	267.4	659.8	629.5	30.23	21.827		
6,800.0	6,768.9	6,779.2	6,769.9	16.9	15.7	89.94	256.9	266.5	659.8	629.2	30.58	21.573		
6,900.0	6,868.2	6,879.1	6,869.0	17.0	15.8	89.91	256.9	254.7	659.8	628.9	30.87	21.373		
7,000.0	6,964.8	6,978.9	6,965.4	17.1	15.9	89.89	256.9	229.2	659.8	628.7	31.09	21.224		
7,100.0	7,057.0	7,078.8	7,057.4	17.1	16.0	89.87	256.9	190.6	659.8	628.5	31.29	21.085		
7,200.0	7,143.0	7,178.5	7,143.1	17.2	16.1	89.86	256.9	139.6	659.8	628.2	31.58	20.894		
7,300.0	7,221.0	7,278.3	7,220.8	17.2	16.3	89.84	256.9	77.2	659.8	627.7	32.08	20.567		
7,400.0	7,289.6	7,378.0	7,289.1	17.2	16.8	89.83	256.9	4.7	659.8	626.8	32.95	20.021		
7,500.0	7,347.4	7,477.8	7,346.7	17.2	17.6	89.82	256.9	-76.6	659.8	625.4	34.35	19.208		
7,600.0	7,393.3	7,577.5	7,392.4	17.8	18.7	89.82	256.9	-165.2	659.8	623.4	36.36	18.146		
7,700.0	7,426.4	7,677.2	7,425.4	19.1	20.0	89.82	256.9	-259.2	659.8	620.8	39.00	16.916		
7,800.0	7,446.1	7,776.9	7,445.1	20.7	21.7	89.82	256.9	-356.8	659.8	617.6	42.21	15.631		
7,900.0	7,452.0	7,876.6	7,451.0	22.5	23.5	89.83	256.9	-456.3	659.8	613.9	45.84	14.393		
8,000.0	7,452.0	7,976.6	7,451.0	24.5	25.5	89.83	256.9	-556.3	659.8	609.9	49.83	13.240		
8,100.0	7,452.0	8,076.6	7,451.0	26.6	27.7	89.83	256.9	-656.3	659.8	605.7	54.10	12.196		
8,200.0	7,452.0	8,176.6	7,451.0	28.9	29.9	89.83	256.9	-756.3	659.8	601.2	58.59	11.260		
8,300.0	7,452.0	8,276.6	7,451.0	31.2	32.3	89.83	256.9	-856.3	659.8	596.5	63.26	10.429		
8,400.0	7,452.0	8,376.6	7,451.0	33.6	34.7	89.83	256.9	-956.3	659.8	591.7	68.08	9.691		
8,500.0	7,452.0	8,476.6	7,451.0	36.1	37.1	89.83	256.9	-1,056.3	659.8	586.8	73.00	9.037		
8,600.0	7,452.0	8,576.6	7,451.0	38.6	39.6	89.83	256.9	-1,156.3	659.8	581.7	78.02	8.456		
8,700.0	7,452.0	8,676.6	7,451.0	41.1	42.2	89.83	256.9	-1,256.3	659.8	576.6	83.12	7.937		
8,800.0	7,452.0	8,776.6	7,451.0	43.7	44.8	89.83	256.9	-1,356.3	659.8	571.5	88.28	7.474		
8,900.0	7,452.0	8,876.6	7,451.0	46.3	47.4	89.83	256.9	-1,456.3	659.8	566.3	93.49	7.057		
9,000.0	7,452.0	8,976.6	7,451.0	48.9	50.0	89.83	256.9	-1,556.3	659.8	561.0	98.74	6.682		
9,100.0	7,452.0	9,076.6	7,451.0	51.6	52.6	89.83	256.9	-1,656.3	659.8	555.7	104.03	6.342		
9,200.0	7,452.0	9,176.6	7,451.0	54.2	55.3	89.83	256.9	-1,756.3	659.8	550.4	109.35	6.033		
9,300.0	7,452.0	9,276.6	7,451.0	56.9	58.0	89.83	256.9	-1,856.3	659.8	545.1	114.70	5.752		
9,400.0	7,452.0	9,376.6	7,451.0	59.6	60.6	89.83	256.9	-1,956.3	659.8	539.7	120.07	5.495		
9,500.0	7,452.0	9,476.6	7,451.0	62.3	63.3	89.83	256.9	-2,056.3	659.8	534.3	125.47	5.258		
9,600.0	7,452.0	9,576.6	7,451.0	65.0	66.0	89.83	256.9	-2,156.3	659.8	528.9	130.88	5.041		
9,700.0	7,452.0	9,676.6	7,451.0	67.7	68.8	89.83	256.9	-2,256.3	659.8	523.4	136.31	4.840		
9,800.0	7,452.0	9,776.6	7,451.0	70.4	71.5	89.83	256.9	-2,356.3	659.8	518.0	141.75	4.654		

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Phelps 12-32NHZ
<b>Project:</b>	SEC.32-T1N-R66W	<b>TVD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Reference Site:</b>	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	<b>MD Reference:</b>	WELL @ 5030.0ft (Ensign Rig #17 - RKB - 12')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Phelps 12-32NHZ	<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		
9,900.0	7,452.0	9,876.6	7,451.0	73.1	74.2	89.83	256.9	-2,456.3	659.8	512.6	147.20	4.482		
10,000.0	7,452.0	9,976.6	7,451.0	75.9	76.9	89.83	256.9	-2,556.3	659.8	507.1	152.67	4.321		
10,100.0	7,452.0	10,076.6	7,451.0	78.6	79.7	89.83	256.9	-2,656.3	659.8	501.6	158.14	4.172		
10,200.0	7,452.0	10,176.6	7,451.0	81.3	82.4	89.83	256.9	-2,756.3	659.8	496.1	163.63	4.032		
10,300.0	7,452.0	10,276.6	7,451.0	84.1	85.1	89.83	256.9	-2,856.3	659.8	490.6	169.12	3.901		
10,400.0	7,452.0	10,376.6	7,451.0	86.8	87.9	89.83	256.9	-2,956.3	659.8	485.1	174.62	3.778		
10,500.0	7,452.0	10,476.6	7,451.0	89.6	90.6	89.83	256.9	-3,056.3	659.8	479.6	180.13	3.663		
10,600.0	7,452.0	10,576.6	7,451.0	92.3	93.4	89.83	256.9	-3,156.3	659.8	474.1	185.64	3.554		
10,700.0	7,452.0	10,676.6	7,451.0	95.1	96.2	89.83	256.9	-3,256.3	659.8	468.6	191.16	3.451		
10,800.0	7,452.0	10,776.6	7,451.0	97.9	98.9	89.83	256.9	-3,356.3	659.8	463.1	196.68	3.354		
10,900.0	7,452.0	10,876.6	7,451.0	100.6	101.7	89.83	256.9	-3,456.3	659.8	457.5	202.21	3.263		
11,000.0	7,452.0	10,976.6	7,451.0	103.4	104.5	89.83	256.9	-3,556.3	659.8	452.0	207.74	3.176		
11,100.0	7,452.0	11,076.6	7,451.0	106.1	107.2	89.83	256.9	-3,656.3	659.8	446.5	213.28	3.093		
11,200.0	7,452.0	11,176.6	7,451.0	108.9	110.0	89.83	256.9	-3,756.3	659.8	440.9	218.82	3.015		
11,300.0	7,452.0	11,276.6	7,451.0	111.7	112.8	89.83	256.9	-3,856.3	659.8	435.4	224.36	2.941		
11,400.0	7,452.0	11,376.6	7,451.0	114.5	115.5	89.83	256.9	-3,956.3	659.8	429.8	229.91	2.870		
11,500.0	7,452.0	11,476.6	7,451.0	117.2	118.3	89.83	256.9	-4,056.3	659.8	424.3	235.46	2.802		
11,600.0	7,452.0	11,576.6	7,451.0	120.0	121.1	89.83	256.9	-4,156.3	659.8	418.7	241.01	2.737		
11,700.0	7,452.0	11,676.6	7,451.0	122.8	123.9	89.83	256.9	-4,256.3	659.7	413.2	246.56	2.676		
11,800.0	7,452.0	11,776.6	7,451.0	125.6	126.6	89.83	256.9	-4,356.3	659.7	407.6	252.12	2.617		
11,900.0	7,452.0	11,876.6	7,451.0	128.3	129.4	89.83	256.9	-4,456.3	659.7	402.1	257.68	2.560		
11,941.6	7,452.0	11,918.2	7,451.0	129.5	130.4	89.83	256.9	-4,497.9	659.7	399.9	259.81	2.539		
11,962.1	7,452.0	11,938.6	7,451.0	130.1	130.7	89.83	256.9	-4,518.3	659.7	399.0	260.75	2.530 SF		

Reference Depths are relative to WELL @ 5030.0ft (Ensign Rig #17 - RCoordinates are relative to: SRC Phelps 12-32NHZ  
Offset Depths are relative to Offset Datum  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Central Meridian is -105.500000 °  
Grid Convergence at Surface is: 0.46°



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