

Synergy Resources

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

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

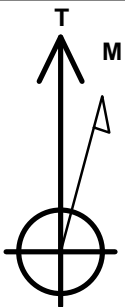
Ground Elevation: 5019.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1247285.75	3198102.66	40.010017	-104.792767	

RKB - 12' WELL @ 5031.0ft (RKB - 12')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 1796'FNL, 361'FEL		0.0	0.0	Point
BHL 1120'FNL, 460'FWL	7642.0	675.1	-4473.4	Point



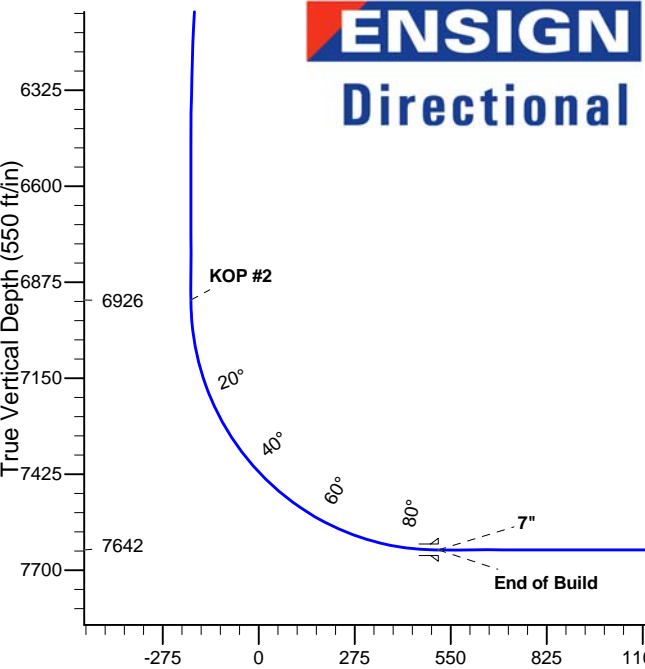
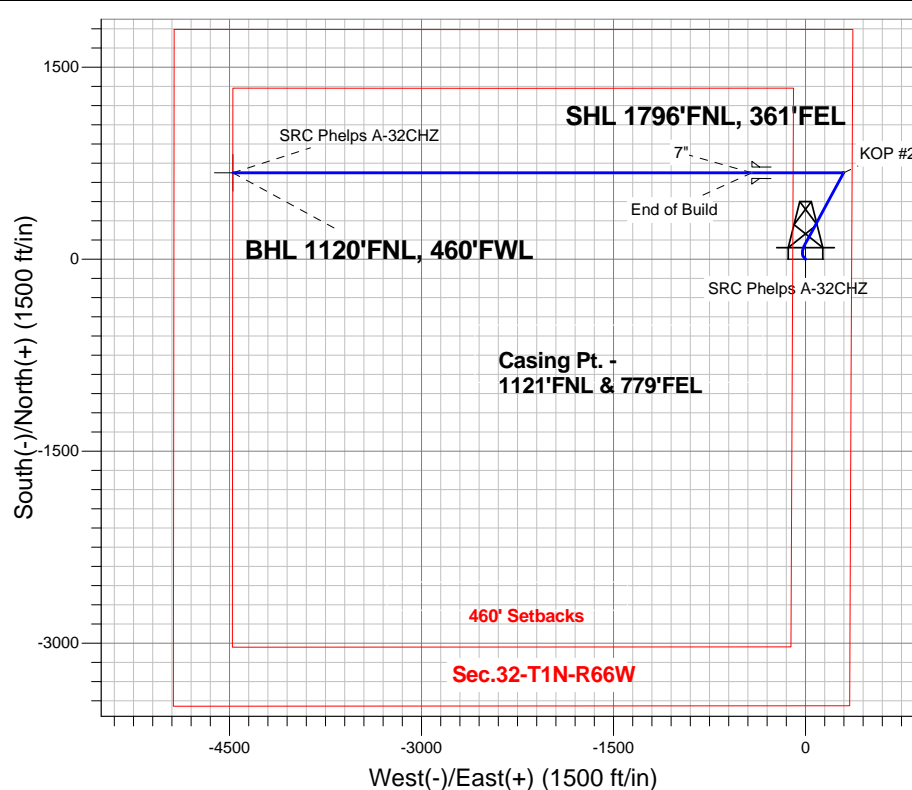
Azimuths to True North
 Magnetic North: 8.52°

Magnetic Field
 Strength: 52667.1snT
 Dip Angle: 66.65°
 Date: 11/14/2013
 Model: IGRF2010

SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W
 SRC Phelps A-32CHZ
 Plan #2 (11-14-13)
 6:57, November 14 2013

ANNOTATIONS

TVD	MD	Annotation
1200.0	1200.0	KOP #1
6925.8	6986.6	KOP #2
7642.0	8111.6	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	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1700.0	5.00	320.00	1699.4	16.7	-14.0	1.00	320.00	16.3	
4	2627.1	9.88	28.32	2619.8	117.9	-2.2	1.00	98.10	19.8	
5	6066.6	9.88	28.32	6008.3	637.6	277.8	0.00	0.00	-179.6	
6	6560.8	0.00	0.00	6500.0	675.0	298.0	2.00	180.00	-193.9	
7	6986.6	0.00	0.00	6925.8	675.0	298.0	0.00	0.00	-193.9	
8	8111.6	90.00	270.00	7642.0	675.0	-418.2	8.00	270.00	514.2	
9	12166.8	90.00	270.00	7642.0	675.1	-4473.4	0.00	0.00	4524.1	BHL 1120'FNL, 460'FWL

BHL 1120'FNL, 460'FWL

Vertical Section at 278.58° (550 ft/in)



Directional

Synergy Resources

SEC.32-T1N-R66W

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

SRC Phelps A-32CHZ

Wellbore #1

Plan: Plan #2 (11-14-13)

Standard Planning Report

14 November, 2013

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Company:	Synergy Resources	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Project:	SEC.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	North Reference:	True
Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-14-13)		

Project	SEC.32-T1N-R66W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W				
Site Position:		Northing:	1,247,322.38 ft	Latitude:	40.010114
From:	Lat/Long	Easting:	3,198,263.72 ft	Longitude:	-104.792191
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.46 °

Well	SRC Phelps A-32CHZ					
Well Position	+N/-S	-35.3 ft	Northing:	1,247,285.75 ft	Latitude:	40.010017
	+E/-W	-161.4 ft	Easting:	3,198,102.66 ft	Longitude:	-104.792767
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,019.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/14/2013	8.52	66.65	52,667

Design	Plan #2 (11-14-13)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	278.58

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,700.0	5.00	320.00	1,699.4	16.7	-14.0	1.00	1.00	0.00	320.00	
2,627.1	9.88	28.32	2,619.8	117.9	-2.2	1.00	0.53	7.37	98.10	
6,066.6	9.88	28.32	6,008.3	637.6	277.8	0.00	0.00	0.00	0.00	
6,560.8	0.00	0.00	6,500.0	675.0	298.0	2.00	-2.00	0.00	180.00	
6,986.6	0.00	0.00	6,925.8	675.0	298.0	0.00	0.00	0.00	0.00	
8,111.6	90.00	270.00	7,642.0	675.0	-418.2	8.00	8.00	0.00	270.00	
12,166.8	90.00	270.00	7,642.0	675.1	-4,473.4	0.00	0.00	0.00	0.00	BHL 1120°FNL, 460

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Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	North Reference:	True
Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-14-13)		

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 1796'FNL, 361'FEL									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
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
KOP #1									
1,300.0	1.00	320.00	1,300.0	0.7	-0.6	0.7	1.00	1.00	0.00
1,400.0	2.00	320.00	1,400.0	2.7	-2.2	2.6	1.00	1.00	0.00
1,500.0	3.00	320.00	1,499.9	6.0	-5.0	5.9	1.00	1.00	0.00
1,600.0	4.00	320.00	1,599.7	10.7	-9.0	10.5	1.00	1.00	0.00
1,700.0	5.00	320.00	1,699.4	16.7	-14.0	16.3	1.00	1.00	0.00
1,800.0	4.96	331.53	1,799.0	23.8	-18.9	22.2	1.00	-0.04	11.53
1,900.0	5.12	342.80	1,898.6	31.9	-22.3	26.8	1.00	0.16	11.27
2,000.0	5.45	353.03	1,998.2	40.9	-24.2	30.0	1.00	0.34	10.23
2,100.0	5.94	1.83	2,097.7	50.8	-24.6	31.9	1.00	0.49	8.80
2,200.0	6.55	9.16	2,197.1	61.6	-23.5	32.4	1.00	0.61	7.33
2,300.0	7.24	15.17	2,296.4	73.3	-20.9	31.6	1.00	0.69	6.01
2,400.0	8.00	20.09	2,395.5	85.9	-16.9	29.5	1.00	0.76	4.92
2,500.0	8.81	24.14	2,494.4	99.4	-11.4	26.1	1.00	0.81	4.05
2,600.0	9.65	27.51	2,593.1	113.8	-4.4	21.3	1.00	0.84	3.36
2,627.1	9.88	28.32	2,619.8	117.9	-2.2	19.8	1.00	0.86	3.00
2,700.0	9.88	28.32	2,691.7	128.9	3.7	15.6	0.00	0.00	0.00
2,800.0	9.88	28.32	2,790.2	144.0	11.9	9.8	0.00	0.00	0.00
2,900.0	9.88	28.32	2,888.7	159.1	20.0	4.0	0.00	0.00	0.00
3,000.0	9.88	28.32	2,987.2	174.3	28.1	-1.8	0.00	0.00	0.00
3,100.0	9.88	28.32	3,085.7	189.4	36.3	-7.6	0.00	0.00	0.00
3,200.0	9.88	28.32	3,184.2	204.5	44.4	-13.4	0.00	0.00	0.00
3,300.0	9.88	28.32	3,282.7	219.6	52.6	-19.2	0.00	0.00	0.00
3,400.0	9.88	28.32	3,381.3	234.7	60.7	-25.0	0.00	0.00	0.00
3,500.0	9.88	28.32	3,479.8	249.8	68.9	-30.8	0.00	0.00	0.00
3,600.0	9.88	28.32	3,578.3	264.9	77.0	-36.6	0.00	0.00	0.00
3,700.0	9.88	28.32	3,676.8	280.0	85.1	-42.4	0.00	0.00	0.00
3,800.0	9.88	28.32	3,775.3	295.1	93.3	-48.2	0.00	0.00	0.00
3,900.0	9.88	28.32	3,873.8	310.2	101.4	-54.0	0.00	0.00	0.00
4,000.0	9.88	28.32	3,972.4	325.3	109.6	-59.8	0.00	0.00	0.00
4,100.0	9.88	28.32	4,070.9	340.4	117.7	-65.6	0.00	0.00	0.00
4,200.0	9.88	28.32	4,169.4	355.6	125.9	-71.4	0.00	0.00	0.00
4,300.0	9.88	28.32	4,267.9	370.7	134.0	-77.2	0.00	0.00	0.00
4,400.0	9.88	28.32	4,366.4	385.8	142.1	-83.0	0.00	0.00	0.00
4,500.0	9.88	28.32	4,464.9	400.9	150.3	-88.8	0.00	0.00	0.00
4,600.0	9.88	28.32	4,563.5	416.0	158.4	-94.6	0.00	0.00	0.00
4,700.0	9.88	28.32	4,662.0	431.1	166.6	-100.4	0.00	0.00	0.00
4,800.0	9.88	28.32	4,760.5	446.2	174.7	-106.2	0.00	0.00	0.00

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Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	North Reference:	True
Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-14-13)		

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	9.88	28.32	4,859.0	461.3	182.8	-112.0	0.00	0.00	0.00
5,000.0	9.88	28.32	4,957.5	476.4	191.0	-117.8	0.00	0.00	0.00
5,100.0	9.88	28.32	5,056.0	491.5	199.1	-123.6	0.00	0.00	0.00
5,200.0	9.88	28.32	5,154.6	506.6	207.3	-129.4	0.00	0.00	0.00
5,300.0	9.88	28.32	5,253.1	521.8	215.4	-135.1	0.00	0.00	0.00
5,400.0	9.88	28.32	5,351.6	536.9	223.6	-140.9	0.00	0.00	0.00
5,500.0	9.88	28.32	5,450.1	552.0	231.7	-146.7	0.00	0.00	0.00
5,600.0	9.88	28.32	5,548.6	567.1	239.8	-152.5	0.00	0.00	0.00
5,700.0	9.88	28.32	5,647.1	582.2	248.0	-158.3	0.00	0.00	0.00
5,800.0	9.88	28.32	5,745.7	597.3	256.1	-164.1	0.00	0.00	0.00
5,900.0	9.88	28.32	5,844.2	612.4	264.3	-169.9	0.00	0.00	0.00
6,000.0	9.88	28.32	5,942.7	627.5	272.4	-175.7	0.00	0.00	0.00
6,066.6	9.88	28.32	6,008.3	637.6	277.8	-179.6	0.00	0.00	0.00
6,100.0	9.22	28.32	6,041.2	642.5	280.5	-181.5	2.00	-2.00	0.00
6,200.0	7.22	28.32	6,140.2	655.0	287.2	-186.3	2.00	-2.00	0.00
6,300.0	5.22	28.32	6,239.6	664.6	292.4	-189.9	2.00	-2.00	0.00
6,400.0	3.22	28.32	6,339.3	671.0	295.9	-192.4	2.00	-2.00	0.00
6,500.0	1.22	28.32	6,439.3	674.4	297.7	-193.7	2.00	-2.00	0.00
6,560.8	0.00	0.00	6,500.0	675.0	298.0	-193.9	2.00	-2.00	0.00
6,600.0	0.00	0.00	6,539.2	675.0	298.0	-193.9	0.00	0.00	0.00
6,700.0	0.00	0.00	6,639.2	675.0	298.0	-193.9	0.00	0.00	0.00
6,800.0	0.00	0.00	6,739.2	675.0	298.0	-193.9	0.00	0.00	0.00
6,900.0	0.00	0.00	6,839.2	675.0	298.0	-193.9	0.00	0.00	0.00
6,986.6	0.00	0.00	6,925.8	675.0	298.0	-193.9	0.00	0.00	0.00
KOP #2									
7,000.0	1.08	270.00	6,939.2	675.0	297.9	-193.8	8.03	8.03	0.00
7,100.0	9.08	270.00	7,038.8	675.0	289.0	-185.1	8.00	8.00	0.00
7,200.0	17.08	270.00	7,136.1	675.0	266.4	-162.7	8.00	8.00	0.00
7,220.9	18.75	270.00	7,156.0	675.0	260.0	-156.4	8.00	8.00	0.00
SHARON SPRINGS									
7,269.0	22.60	270.00	7,201.0	675.0	243.0	-139.6	8.00	8.00	0.00
NIORARA									
7,287.5	24.08	270.00	7,218.0	675.0	235.7	-132.3	8.00	8.00	0.00
A CHALK									
7,300.0	25.08	270.00	7,229.3	675.0	230.5	-127.2	8.00	8.00	0.00
7,309.6	25.84	270.00	7,238.0	675.0	226.4	-123.1	8.00	8.00	0.00
A MARL									
7,400.0	33.08	270.00	7,316.7	675.0	181.9	-79.2	8.00	8.00	0.00
7,500.0	41.08	270.00	7,396.4	675.0	121.7	-19.6	8.00	8.00	0.00
7,508.8	41.78	270.00	7,403.0	675.0	115.9	-13.8	8.00	8.00	0.00
B CHALK									
7,555.8	45.54	270.00	7,437.0	675.0	83.4	18.2	8.00	8.00	0.00
B MARL									
7,600.0	49.08	270.00	7,466.9	675.0	51.0	50.3	8.00	8.00	0.00
7,610.9	49.95	270.00	7,474.0	675.0	42.7	58.5	8.00	8.00	0.00
C CHALK									
7,646.1	52.76	270.00	7,496.0	675.0	15.2	85.7	8.00	8.00	0.00
C MARL									
7,700.0	57.08	270.00	7,527.0	675.0	-28.9	129.3	8.00	8.00	0.00
7,800.0	65.08	270.00	7,575.3	675.0	-116.4	215.8	8.00	8.00	0.00
7,900.0	73.08	270.00	7,611.0	675.0	-209.7	308.1	8.00	8.00	0.00
8,000.0	81.08	270.00	7,633.3	675.0	-307.1	404.4	8.00	8.00	0.00

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Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-14-13)		

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)
8,100.0	89.08	270.00	7,641.9	675.0	-406.6	502.8	8.00	8.00	0.00
8,111.6	90.00	270.00	7,642.0	675.0	-418.2	514.3	7.97	7.97	0.00
End of Build - 7"									
8,200.0	90.00	270.00	7,642.0	675.0	-506.6	601.7	0.00	0.00	0.00
8,300.0	90.00	270.00	7,642.0	675.0	-606.6	700.6	0.00	0.00	0.00
8,400.0	90.00	270.00	7,642.0	675.0	-706.6	799.5	0.00	0.00	0.00
8,500.0	90.00	270.00	7,642.0	675.0	-806.6	898.3	0.00	0.00	0.00
8,600.0	90.00	270.00	7,642.0	675.0	-906.6	997.2	0.00	0.00	0.00
8,700.0	90.00	270.00	7,642.0	675.0	-1,006.6	1,096.1	0.00	0.00	0.00
8,800.0	90.00	270.00	7,642.0	675.0	-1,106.6	1,195.0	0.00	0.00	0.00
8,900.0	90.00	270.00	7,642.0	675.0	-1,206.6	1,293.9	0.00	0.00	0.00
9,000.0	90.00	270.00	7,642.0	675.0	-1,306.6	1,392.7	0.00	0.00	0.00
9,100.0	90.00	270.00	7,642.0	675.0	-1,406.6	1,491.6	0.00	0.00	0.00
9,200.0	90.00	270.00	7,642.0	675.0	-1,506.6	1,590.5	0.00	0.00	0.00
9,300.0	90.00	270.00	7,642.0	675.0	-1,606.6	1,689.4	0.00	0.00	0.00
9,400.0	90.00	270.00	7,642.0	675.0	-1,706.6	1,788.3	0.00	0.00	0.00
9,500.0	90.00	270.00	7,642.0	675.0	-1,806.6	1,887.1	0.00	0.00	0.00
9,600.0	90.00	270.00	7,642.0	675.0	-1,906.6	1,986.0	0.00	0.00	0.00
9,700.0	90.00	270.00	7,642.0	675.0	-2,006.6	2,084.9	0.00	0.00	0.00
9,800.0	90.00	270.00	7,642.0	675.0	-2,106.6	2,183.8	0.00	0.00	0.00
9,900.0	90.00	270.00	7,642.0	675.0	-2,206.6	2,282.7	0.00	0.00	0.00
10,000.0	90.00	270.00	7,642.0	675.0	-2,306.6	2,381.5	0.00	0.00	0.00
10,100.0	90.00	270.00	7,642.0	675.0	-2,406.6	2,480.4	0.00	0.00	0.00
10,200.0	90.00	270.00	7,642.0	675.0	-2,506.6	2,579.3	0.00	0.00	0.00
10,300.0	90.00	270.00	7,642.0	675.0	-2,606.6	2,678.2	0.00	0.00	0.00
10,400.0	90.00	270.00	7,642.0	675.0	-2,706.6	2,777.1	0.00	0.00	0.00
10,500.0	90.00	270.00	7,642.0	675.0	-2,806.6	2,876.0	0.00	0.00	0.00
10,600.0	90.00	270.00	7,642.0	675.0	-2,906.6	2,974.8	0.00	0.00	0.00
10,700.0	90.00	270.00	7,642.0	675.0	-3,006.6	3,073.7	0.00	0.00	0.00
10,800.0	90.00	270.00	7,642.0	675.1	-3,106.6	3,172.6	0.00	0.00	0.00
10,900.0	90.00	270.00	7,642.0	675.1	-3,206.6	3,271.5	0.00	0.00	0.00
11,000.0	90.00	270.00	7,642.0	675.1	-3,306.6	3,370.4	0.00	0.00	0.00
11,100.0	90.00	270.00	7,642.0	675.1	-3,406.6	3,469.2	0.00	0.00	0.00
11,200.0	90.00	270.00	7,642.0	675.1	-3,506.6	3,568.1	0.00	0.00	0.00
11,300.0	90.00	270.00	7,642.0	675.1	-3,606.6	3,667.0	0.00	0.00	0.00
11,400.0	90.00	270.00	7,642.0	675.1	-3,706.6	3,765.9	0.00	0.00	0.00
11,500.0	90.00	270.00	7,642.0	675.1	-3,806.6	3,864.8	0.00	0.00	0.00
11,600.0	90.00	270.00	7,642.0	675.1	-3,906.6	3,963.6	0.00	0.00	0.00
11,700.0	90.00	270.00	7,642.0	675.1	-4,006.6	4,062.5	0.00	0.00	0.00
11,800.0	90.00	270.00	7,642.0	675.1	-4,106.6	4,161.4	0.00	0.00	0.00
11,900.0	90.00	270.00	7,642.0	675.1	-4,206.6	4,260.3	0.00	0.00	0.00
12,000.0	90.00	270.00	7,642.0	675.1	-4,306.6	4,359.2	0.00	0.00	0.00
12,100.0	90.00	270.00	7,642.0	675.1	-4,406.6	4,458.0	0.00	0.00	0.00
12,166.8	90.00	270.00	7,642.0	675.1	-4,473.4	4,524.1	0.00	0.00	0.00
BHL 1120°FNL, 460°FWL									

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Company:	Synergy Resources	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Project:	SEC.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	North Reference:	True
Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-14-13)		

Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
BHL 1120'FNL, 460'F1 - plan hits target center - Point	0.00	0.00	7,642.0	675.1	-4,473.4	1,247,925.10	3,193,624.15	40.011869	-104.808737
SHL 1796'FNL, 361'F1 - plan hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,247,285.76	3,198,102.66	40.010017	-104.792767

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
8,111.6	7,642.0	7"	7	7-1/2

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,220.9	7,156.0	SHARON SPRINGS		0.00	
7,269.0	7,201.0	NIOBRARA		0.00	
7,287.5	7,218.0	A CHALK		0.00	
7,309.6	7,238.0	A MARL		0.00	
7,508.8	7,403.0	B CHALK		0.00	
7,555.8	7,437.0	B MARL		0.00	
7,610.9	7,474.0	C CHALK		0.00	
7,646.1	7,496.0	C MARL		0.00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,200.0	1,200.0	0.0	0.0	KOP #1
6,986.6	6,925.8	675.0	298.0	KOP #2
8,111.6	7,642.0	675.0	-418.2	End of Build



Directional

Synergy Resources

SEC.32-T1N-R66W

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

SRC Phelps A-32CHZ

Wellbore #1

Plan #2 (11-14-13)

Anticollision Report

14 November, 2013

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	Offset Datum

Reference	Plan #2 (11-14-13)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	11/14/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	12,166.8	Plan #2 (11-14-13) (Wellbore #1)	MWD	MWD - Standard

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W						
SRC Phelps 11-32CHZ - Wellbore #1 - Plan #2 (11-12-13)	200.0	199.0	90.1	89.4	133.997	CC, ES
SRC Phelps 11-32CHZ - Wellbore #1 - Plan #2 (11-12-13)	12,166.8	12,268.0	659.7	399.5	2.535	SF
SRC Phelps 11-32NHZ - Wellbore #1 - Plan #2 (11-11-13)	400.0	400.0	112.4	110.8	71.445	CC, ES
SRC Phelps 11-32NHZ - Wellbore #1 - Plan #2 (11-11-13)	12,166.8	12,058.0	360.9	119.5	1.495	Level 3, SF
SRC Phelps 12-32CHZ - Wellbore #1 - Plan #2 (11-12-13)	500.0	499.0	67.4	65.4	33.367	CC, ES
SRC Phelps 12-32CHZ - Wellbore #1 - Plan #2 (11-12-13)	12,166.8	12,127.6	738.4	478.7	2.843	SF
SRC Phelps 12-32NHZ - Wellbore #1 - Plan #2 (11-12-13)	800.0	799.0	45.1	41.7	13.375	CC
SRC Phelps 12-32NHZ - Wellbore #1 - Plan #2 (11-12-13)	900.0	898.7	45.4	41.6	11.965	ES
SRC Phelps 12-32NHZ - Wellbore #1 - Plan #2 (11-12-13)	1,200.0	1,197.2	51.7	46.6	10.265	SF
SRC Phelps A-32NHZ - Wellbore #1 - Plan #3 (11-14-13)	1,000.0	1,000.0	21.6	17.3	5.051	CC, ES
SRC Phelps A-32NHZ - Wellbore #1 - Plan #3 (11-14-13)	12,166.8	11,989.4	433.7	189.2	1.774	SF

Offset Design												Offset Site Error:	0.0ft
Survey Program: 0-MWD												Offset Well Error:	0.0ft
Reference Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft) Offset (ft)		Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft) +E/-W (ft)		Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	77.62	19.3	88.0	90.1				
100.0	100.0	99.0	99.0	0.1	0.1	77.62	19.3	88.0	90.1	89.8	0.22	402.660	
200.0	200.0	199.0	199.0	0.3	0.3	77.62	19.3	88.0	90.1	89.4	0.67	133.997	CC, ES
300.0	300.0	297.8	297.8	0.6	0.6	76.64	21.0	88.2	90.7	89.6	1.12	81.071	
400.0	400.0	396.4	396.2	0.8	0.8	73.77	25.9	89.1	92.8	91.3	1.57	59.083	
500.0	500.0	494.5	494.0	1.0	1.0	69.29	34.2	90.5	96.9	94.8	2.04	47.495	
600.0	600.0	591.9	590.7	1.2	1.3	63.70	45.7	92.5	103.5	100.9	2.54	40.795	
700.0	700.0	688.4	686.0	1.5	1.6	57.60	60.2	94.9	113.2	110.1	3.07	36.888	
800.0	800.0	783.8	779.8	1.7	2.0	51.55	77.7	97.9	126.5	122.9	3.64	34.781	
900.0	900.0	878.4	872.0	1.9	2.3	45.94	98.1	101.4	143.6	139.4	4.24	33.911	
1,000.0	1,000.0	975.7	966.7	2.1	2.8	41.17	120.2	105.1	162.9	158.1	4.86	33.520	
1,100.0	1,100.0	1,073.0	1,061.4	2.4	3.2	37.42	142.3	108.9	183.1	177.6	5.48	33.410	
1,200.0	1,200.0	1,170.3	1,156.1	2.6	3.7	34.42	164.5	112.7	203.9	197.8	6.10	33.448	
1,300.0	1,300.0	1,267.7	1,250.9	2.8	4.1	71.98	186.6	116.4	224.9	218.9	5.98	37.589	
1,400.0	1,400.0	1,365.4	1,345.9	3.0	4.6	70.31	208.8	120.2	245.6	239.1	6.46	37.991	
1,500.0	1,499.9	1,463.2	1,441.1	3.2	5.0	69.24	231.1	124.0	265.8	258.8	6.95	38.214	

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	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		
1,600.0	1,599.7	1,561.3	1,536.5	3.5	5.5	68.62	253.3	127.8	285.4	277.9	7.46	38.270		
1,700.0	1,699.4	1,659.4	1,632.1	3.7	6.0	68.39	275.7	131.6	304.4	296.4	7.97	38.173		
1,800.0	1,799.0	1,757.8	1,727.8	3.9	6.4	57.01	298.0	135.4	322.4	313.9	8.50	37.934		
1,900.0	1,898.6	1,856.4	1,823.8	4.2	6.9	45.73	320.5	139.2	338.8	329.8	9.01	37.597		
2,000.0	1,998.2	1,955.3	1,920.0	4.4	7.4	35.35	342.9	143.1	353.8	344.3	9.52	37.143		
2,100.0	2,097.7	2,054.4	2,016.3	4.6	7.8	26.28	365.5	146.9	367.3	357.2	10.03	36.601		
2,200.0	2,197.1	2,153.6	2,112.9	4.9	8.3	18.58	388.0	150.7	379.3	368.7	10.54	35.990		
2,300.0	2,296.4	2,253.0	2,209.6	5.1	8.8	12.07	410.6	154.6	389.8	378.8	11.03	35.326		
2,400.0	2,395.5	2,352.4	2,306.4	5.4	9.3	6.55	433.2	158.4	398.9	387.4	11.52	34.618		
2,500.0	2,494.4	2,452.0	2,403.2	5.6	9.7	1.79	455.8	162.3	406.6	394.6	12.00	33.874		
2,600.0	2,593.1	2,551.6	2,500.1	5.9	10.2	-2.39	478.5	166.1	412.9	400.4	12.47	33.101		
2,627.1	2,619.8	2,578.5	2,526.4	6.0	10.3	-3.44	484.6	167.2	414.4	401.8	12.60	32.887		
2,700.0	2,691.7	2,651.2	2,597.1	6.2	10.7	-4.15	501.1	170.0	418.3	405.3	12.95	32.301		
2,800.0	2,790.2	2,750.8	2,694.0	6.5	11.2	-5.09	523.8	173.9	423.7	410.3	13.43	31.546		
2,900.0	2,888.7	2,850.4	2,790.9	6.9	11.6	-6.01	546.4	177.7	429.2	415.3	13.91	30.849		
3,000.0	2,987.2	2,950.0	2,887.8	7.2	12.1	-6.91	569.1	181.6	434.9	420.5	14.40	30.202		
3,100.0	3,085.7	3,049.6	2,984.8	7.5	12.6	-7.79	591.7	185.4	440.6	425.7	14.89	29.599		
3,200.0	3,184.2	3,149.2	3,081.7	7.8	13.1	-8.64	614.4	189.3	446.4	431.1	15.38	29.037		
3,300.0	3,282.7	3,248.8	3,178.6	8.2	13.5	-9.47	637.0	193.1	452.4	436.5	15.87	28.509		
3,400.0	3,381.3	3,348.4	3,275.5	8.5	14.0	-10.28	659.7	197.0	458.4	442.0	16.36	28.014		
3,500.0	3,479.8	3,448.1	3,372.5	8.9	14.5	-11.07	682.3	200.9	464.5	447.7	16.86	27.547		
3,600.0	3,578.3	3,547.7	3,469.4	9.2	15.0	-11.83	705.0	204.7	470.7	453.4	17.37	27.106		
3,700.0	3,676.8	3,647.3	3,566.3	9.6	15.5	-12.58	727.6	208.6	477.0	459.2	17.87	26.689		
3,800.0	3,775.3	3,746.9	3,663.2	9.9	15.9	-13.31	750.2	212.4	483.4	465.0	18.38	26.293		
3,900.0	3,873.8	3,846.5	3,760.2	10.3	16.4	-14.02	772.9	216.3	489.8	470.9	18.90	25.917		
4,000.0	3,972.4	3,946.1	3,857.1	10.7	16.9	-14.71	795.5	220.1	496.4	476.9	19.42	25.559		
4,100.0	4,070.9	4,045.7	3,954.0	11.0	17.4	-15.38	818.2	224.0	502.9	483.0	19.94	25.217		
4,200.0	4,169.4	4,145.3	4,051.0	11.4	17.8	-16.03	840.8	227.8	509.6	489.1	20.47	24.891		
4,300.0	4,267.9	4,244.9	4,147.9	11.8	18.3	-16.67	863.5	231.7	516.3	495.3	21.01	24.578		
4,400.0	4,366.4	4,344.6	4,244.8	12.1	18.8	-17.29	886.1	235.6	523.1	501.6	21.54	24.280		
4,500.0	4,464.9	4,444.2	4,341.7	12.5	19.3	-17.90	908.8	239.4	529.9	507.9	22.09	23.993		
4,600.0	4,563.5	4,543.8	4,438.7	12.9	19.8	-18.49	931.4	243.3	536.8	514.2	22.63	23.718		
4,700.0	4,662.0	4,643.4	4,535.6	13.2	20.2	-19.06	954.1	247.1	543.8	520.6	23.19	23.453		
4,800.0	4,760.5	4,743.0	4,632.5	13.6	20.7	-19.62	976.7	251.0	550.8	527.1	23.74	23.199		
4,900.0	4,859.0	4,842.6	4,729.4	14.0	21.2	-20.17	999.4	254.8	557.9	533.6	24.30	22.955		
5,000.0	4,957.5	4,942.2	4,826.4	14.4	21.7	-20.70	1,022.0	258.7	565.0	540.1	24.87	22.719		
5,100.0	5,056.0	5,041.8	4,923.3	14.7	22.1	-21.22	1,044.6	262.6	572.1	546.7	25.44	22.492		
5,200.0	5,154.6	5,141.4	5,020.2	15.1	22.6	-21.73	1,067.3	266.4	579.3	553.3	26.01	22.273		
5,300.0	5,253.1	5,241.1	5,117.1	15.5	23.1	-22.22	1,089.9	270.3	586.6	560.0	26.59	22.062		
5,400.0	5,351.6	5,340.7	5,214.1	15.9	23.6	-22.71	1,112.6	274.1	593.9	566.7	27.17	21.858		
5,500.0	5,450.1	5,440.3	5,311.0	16.2	24.1	-23.18	1,135.2	278.0	601.2	573.4	27.75	21.661		
5,600.0	5,548.6	5,539.9	5,407.9	16.6	24.5	-23.64	1,157.9	281.8	608.5	580.2	28.34	21.471		
5,700.0	5,647.1	5,639.5	5,504.8	17.0	25.0	-24.08	1,180.5	285.7	616.0	587.0	28.94	21.287		
5,800.0	5,745.7	5,739.1	5,601.8	17.4	25.5	-24.52	1,203.2	289.5	623.4	593.9	29.53	21.109		
5,900.0	5,844.2	5,838.7	5,698.7	17.7	26.0	-24.95	1,225.8	293.4	630.9	600.7	30.13	20.937		
6,000.0	5,942.7	5,938.3	5,795.6	18.1	26.4	-25.37	1,248.5	297.3	638.4	607.7	30.74	20.770		
6,066.6	6,008.3	6,010.8	5,866.2	18.4	26.8	-25.66	1,264.8	300.0	643.3	612.2	31.15	20.652		
6,100.0	6,041.2	6,053.7	5,908.0	18.5	26.9	-25.86	1,273.9	301.6	645.4	614.1	31.34	20.592		
6,200.0	6,140.2	6,182.3	6,034.4	18.8	27.3	-26.34	1,297.3	305.6	651.0	619.1	31.85	20.436		
6,300.0	6,239.6	6,311.3	6,162.1	19.0	27.7	-26.71	1,315.1	308.6	655.2	622.9	32.29	20.289		
6,400.0	6,339.3	6,440.5	6,290.8	19.2	28.0	-26.96	1,327.3	310.7	658.1	625.5	32.66	20.152		

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 11-32CHZ - Wellbore #1 - Plan #2 (11-12)														
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		
6,500.0	6,439.3	6,570.0	6,420.0	19.4	28.2	-27.09	1,333.7	311.8	659.7	626.7	32.95	20.021		
6,560.8	6,500.0	6,648.6	6,498.7	19.5	28.3	1.21	1,334.8	312.0	660.0	613.1	46.88	14.077		
6,600.0	6,539.2	6,688.2	6,538.2	19.5	28.3	1.21	1,334.8	312.0	660.0	613.0	46.98	14.047		
6,700.0	6,639.2	6,788.2	6,638.2	19.7	28.4	1.21	1,334.8	312.0	660.0	612.7	47.25	13.967		
6,800.0	6,739.2	6,888.2	6,738.2	19.8	28.5	1.21	1,334.8	312.0	660.0	612.4	47.53	13.886		
6,900.0	6,839.2	6,988.2	6,838.2	20.0	28.6	1.21	1,334.8	312.0	660.0	612.2	47.80	13.806		
6,986.6	6,925.8	7,074.7	6,924.8	20.1	28.7	1.21	1,334.8	312.0	660.0	611.9	48.04	13.737		
7,000.0	6,939.2	7,088.4	6,938.5	20.2	28.7	91.21	1,334.8	311.8	660.0	625.2	34.74	18.997		
7,050.0	6,989.2	7,139.4	6,989.4	20.2	28.8	91.21	1,334.8	309.0	660.0	625.1	34.89	18.918		
7,100.0	7,038.8	7,190.4	7,040.0	20.3	28.8	91.20	1,334.8	302.6	660.0	624.9	35.01	18.851		
7,150.0	7,087.8	7,241.4	7,090.0	20.3	28.8	91.18	1,334.8	292.7	659.9	624.8	35.11	18.795		
7,200.0	7,136.1	7,292.4	7,139.1	20.3	28.9	91.16	1,334.8	279.1	659.9	624.7	35.20	18.748		
7,250.0	7,183.3	7,343.3	7,187.1	20.3	28.9	91.13	1,334.8	262.2	659.9	624.7	35.28	18.706		
7,300.0	7,229.3	7,394.2	7,233.8	20.4	28.9	91.09	1,334.8	241.9	659.9	624.6	35.36	18.664		
7,350.0	7,273.8	7,445.1	7,278.9	20.3	28.9	91.06	1,334.8	218.3	659.9	624.5	35.45	18.617		
7,400.0	7,316.7	7,495.9	7,322.1	20.3	28.9	91.01	1,334.8	191.6	659.9	624.3	35.56	18.558		
7,450.0	7,357.6	7,546.7	7,363.4	20.3	28.9	90.96	1,334.8	162.0	659.9	624.2	35.71	18.479		
7,500.0	7,396.4	7,597.5	7,402.4	20.3	29.0	90.91	1,334.8	129.5	659.9	624.0	35.92	18.372		
7,550.0	7,432.9	7,648.2	7,438.9	20.3	29.0	90.85	1,334.8	94.4	659.9	623.7	36.20	18.228		
7,600.0	7,466.9	7,698.9	7,472.9	20.3	29.0	90.79	1,334.8	56.8	659.9	623.3	36.58	18.041		
7,650.0	7,498.4	7,749.5	7,504.1	20.3	29.0	90.72	1,334.8	16.9	659.9	622.8	37.06	17.803		
7,700.0	7,527.0	7,800.0	7,532.3	20.2	29.1	90.65	1,334.8	-25.0	659.8	622.2	37.68	17.512		
7,750.0	7,552.7	7,850.5	7,557.5	20.3	29.1	90.58	1,334.8	-68.7	659.8	621.4	38.44	17.168		
7,800.0	7,575.3	7,900.9	7,579.6	20.3	29.2	90.50	1,334.8	-114.0	659.8	620.5	39.34	16.772		
7,850.0	7,594.8	7,951.3	7,598.3	20.5	29.4	90.42	1,334.8	-160.8	659.8	619.4	40.40	16.333		
7,900.0	7,611.0	8,001.6	7,613.8	20.8	29.5	90.34	1,334.8	-208.6	659.8	618.2	41.60	15.859		
7,950.0	7,623.9	8,051.8	7,625.8	21.3	29.7	90.26	1,334.8	-257.4	659.8	616.9	42.96	15.360		
8,000.0	7,633.3	8,102.0	7,634.3	22.0	30.0	90.18	1,334.8	-306.8	659.8	615.4	44.44	14.848		
8,050.0	7,639.4	8,152.1	7,639.4	22.7	30.3	90.09	1,334.8	-356.6	659.8	613.8	46.04	14.332		
8,100.0	7,641.9	8,202.1	7,641.0	23.6	30.7	90.01	1,334.8	-406.6	659.8	612.1	47.73	13.822		
8,111.6	7,642.0	8,213.7	7,641.0	23.8	30.8	90.00	1,334.8	-418.2	659.8	611.7	48.15	13.704		
8,200.0	7,642.0	8,302.1	7,641.0	25.4	31.6	90.00	1,334.8	-506.6	659.8	608.4	51.38	12.841		
8,300.0	7,642.0	8,402.1	7,641.0	27.4	32.9	90.00	1,334.8	-606.6	659.8	604.4	55.36	11.918		
8,400.0	7,642.0	8,502.1	7,641.0	29.5	34.5	90.00	1,334.8	-706.6	659.8	600.2	59.60	11.071		
8,500.0	7,642.0	8,602.1	7,641.0	31.7	36.2	90.00	1,334.8	-806.6	659.8	595.7	64.05	10.301		
8,600.0	7,642.0	8,702.1	7,641.0	34.0	38.2	90.00	1,334.8	-906.6	659.8	591.1	68.67	9.608		
8,700.0	7,642.0	8,802.1	7,641.0	36.4	40.3	90.00	1,334.8	-1,006.6	659.8	586.4	73.43	8.986		
8,800.0	7,642.0	8,902.1	7,641.0	38.8	42.5	90.00	1,334.8	-1,106.6	659.8	581.5	78.30	8.427		
8,900.0	7,642.0	9,002.1	7,641.0	41.3	44.7	90.00	1,334.8	-1,206.6	659.8	576.5	83.26	7.924		
9,000.0	7,642.0	9,102.1	7,641.0	43.8	47.1	90.00	1,334.8	-1,306.6	659.8	571.5	88.30	7.472		
9,100.0	7,642.0	9,202.1	7,641.0	46.4	49.5	90.00	1,334.8	-1,406.6	659.8	566.4	93.41	7.063		
9,200.0	7,642.0	9,302.1	7,641.0	49.0	51.9	90.00	1,334.8	-1,506.6	659.8	561.2	98.57	6.694		
9,300.0	7,642.0	9,402.1	7,641.0	51.6	54.4	90.00	1,334.8	-1,606.6	659.8	556.0	103.77	6.358		
9,400.0	7,642.0	9,502.1	7,641.0	54.2	56.9	90.00	1,334.8	-1,706.6	659.8	550.8	109.02	6.052		
9,500.0	7,642.0	9,602.1	7,641.0	56.8	59.5	90.00	1,334.8	-1,806.6	659.8	545.5	114.30	5.772		
9,600.0	7,642.0	9,702.1	7,641.0	59.5	62.1	90.00	1,334.8	-1,906.6	659.8	540.2	119.61	5.516		
9,700.0	7,642.0	9,802.1	7,641.0	62.1	64.7	90.00	1,334.8	-2,006.6	659.8	534.8	124.95	5.280		
9,800.0	7,642.0	9,902.1	7,641.0	64.8	67.3	90.00	1,334.8	-2,106.6	659.8	529.5	130.31	5.063		
9,900.0	7,642.0	10,002.1	7,641.0	67.5	69.9	90.00	1,334.8	-2,206.6	659.8	524.1	135.69	4.862		
10,000.0	7,642.0	10,102.1	7,641.0	70.2	72.5	90.00	1,334.8	-2,306.6	659.8	518.7	141.09	4.676		
10,100.0	7,642.0	10,202.1	7,641.0	72.9	75.2	90.00	1,334.8	-2,406.6	659.8	513.3	146.50	4.504		

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 11-32CHZ - Wellbore #1 - Plan #2 (11-12)														
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		
10,200.0	7,642.0	10,302.1	7,641.0	75.6	77.8	90.00	1,334.8	-2,506.6	659.8	507.8	151.93	4.343		
10,300.0	7,642.0	10,402.1	7,641.0	78.3	80.5	90.00	1,334.8	-2,606.6	659.8	502.4	157.37	4.193		
10,400.0	7,642.0	10,502.1	7,641.0	81.0	83.2	90.00	1,334.8	-2,706.6	659.8	496.9	162.82	4.052		
10,500.0	7,642.0	10,602.1	7,641.0	83.8	85.9	90.00	1,334.8	-2,806.6	659.8	491.5	168.28	3.921		
10,600.0	7,642.0	10,702.1	7,641.0	86.5	88.6	90.00	1,334.8	-2,906.6	659.8	486.0	173.75	3.797		
10,700.0	7,642.0	10,802.1	7,641.0	89.2	91.3	90.00	1,334.8	-3,006.6	659.8	480.5	179.23	3.681		
10,800.0	7,642.0	10,902.1	7,641.0	92.0	94.0	90.00	1,334.8	-3,106.6	659.8	475.0	184.72	3.572		
10,900.0	7,642.0	11,002.1	7,641.0	94.7	96.7	90.00	1,334.8	-3,206.6	659.8	469.5	190.21	3.469		
11,000.0	7,642.0	11,102.1	7,641.0	97.5	99.4	90.00	1,334.8	-3,306.6	659.8	464.0	195.71	3.371		
11,100.0	7,642.0	11,202.1	7,641.0	100.2	102.1	90.00	1,334.8	-3,406.6	659.8	458.5	201.22	3.279		
11,200.0	7,642.0	11,302.1	7,641.0	103.0	104.9	90.00	1,334.8	-3,506.6	659.8	453.0	206.73	3.191		
11,300.0	7,642.0	11,402.1	7,641.0	105.7	107.6	90.00	1,334.8	-3,606.6	659.8	447.5	212.25	3.108		
11,400.0	7,642.0	11,502.1	7,641.0	108.5	110.3	90.00	1,334.8	-3,706.6	659.8	442.0	217.77	3.030		
11,500.0	7,642.0	11,602.1	7,641.0	111.3	113.1	90.00	1,334.8	-3,806.6	659.8	436.5	223.30	2.955		
11,600.0	7,642.0	11,702.1	7,641.0	114.0	115.8	90.00	1,334.8	-3,906.6	659.7	430.9	228.83	2.883		
11,700.0	7,642.0	11,802.1	7,641.0	116.8	118.6	90.00	1,334.8	-4,006.6	659.7	425.4	234.36	2.815		
11,800.0	7,642.0	11,902.1	7,641.0	119.6	121.3	90.00	1,334.8	-4,106.6	659.7	419.8	239.90	2.750		
11,900.0	7,642.0	12,002.1	7,641.0	122.3	124.1	90.00	1,334.8	-4,206.6	659.7	414.3	245.44	2.688		
12,000.0	7,642.0	12,102.1	7,641.0	125.1	126.8	90.00	1,334.8	-4,306.6	659.7	408.8	250.98	2.629		
12,100.0	7,642.0	12,202.1	7,641.0	127.9	129.6	90.00	1,334.8	-4,406.6	659.7	403.2	256.53	2.572		
12,149.5	7,642.0	12,251.7	7,641.0	129.2	130.9	90.00	1,334.8	-4,456.2	659.7	400.5	259.28	2.545		
12,166.8	7,642.0	12,268.0	7,641.0	129.7	131.4	90.00	1,334.8	-4,472.5	659.7	399.5	260.21	2.535 SF		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	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		
0.0	0.0	0.0	0.0	0.0	0.0	77.65	24.0	109.8	112.4					
100.0	100.0	100.0	100.0	0.1	0.1	77.65	24.0	109.8	112.4	112.2	0.22	500.117		
200.0	200.0	200.0	200.0	0.3	0.3	77.65	24.0	109.8	112.4	111.7	0.67	166.706		
300.0	300.0	300.0	300.0	0.6	0.6	77.65	24.0	109.8	112.4	111.3	1.12	100.023		
400.0	400.0	400.0	400.0	0.8	0.8	77.65	24.0	109.8	112.4	110.8	1.57	71.445 CC, ES		
500.0	500.0	498.4	498.4	1.0	1.0	76.87	25.7	110.1	113.1	111.1	2.02	56.039		
600.0	600.0	596.6	596.4	1.2	1.2	74.59	30.6	111.2	115.4	112.9	2.47	46.776		
700.0	700.0	694.3	693.7	1.5	1.5	71.01	38.8	112.9	119.5	116.6	2.93	40.849		
800.0	800.0	791.3	790.1	1.7	1.7	66.46	50.2	115.2	126.0	122.6	3.41	36.997		
900.0	900.0	887.4	885.0	1.9	2.0	61.35	64.6	118.1	135.5	131.5	3.92	34.572		
1,000.0	1,000.0	985.5	981.7	2.1	2.3	56.27	81.2	121.6	147.3	142.9	4.46	32.998		
1,100.0	1,100.0	1,084.0	1,078.7	2.4	2.7	51.94	97.9	125.0	160.2	155.2	5.02	31.889		
1,200.0	1,200.0	1,182.5	1,175.7	2.6	3.0	48.27	114.6	128.4	173.8	168.2	5.59	31.118		
1,300.0	1,300.0	1,281.1	1,272.8	2.8	3.4	85.26	131.3	131.9	188.0	182.1	5.84	32.171		
1,400.0	1,400.0	1,379.8	1,370.1	3.0	3.7	83.14	148.0	135.3	202.3	196.0	6.32	32.004		
1,500.0	1,499.9	1,478.7	1,467.4	3.2	4.1	81.74	164.8	138.8	216.7	209.9	6.81	31.825		
1,600.0	1,599.7	1,577.7	1,564.9	3.5	4.5	80.93	181.5	142.2	230.8	223.5	7.30	31.604		
1,700.0	1,699.4	1,676.7	1,662.4	3.7	4.9	80.61	198.3	145.7	244.7	236.9	7.81	31.327		
1,800.0	1,799.0	1,775.9	1,760.1	3.9	5.2	69.13	215.1	149.2	257.6	249.2	8.32	30.955		
1,900.0	1,898.6	1,875.2	1,858.0	4.2	5.6	57.80	232.0	152.6	268.8	260.0	8.82	30.464		
2,000.0	1,998.2	1,974.8	1,956.0	4.4	6.0	47.40	248.9	156.1	278.4	269.1	9.33	29.845		
2,100.0	2,097.7	2,074.4	2,054.2	4.6	6.4	38.33	265.8	159.6	286.4	276.6	9.83	29.124		
2,200.0	2,197.1	2,174.2	2,152.4	4.9	6.7	30.65	282.7	163.1	292.7	282.4	10.33	28.324		
2,300.0	2,296.4	2,274.1	2,250.8	5.1	7.1	24.18	299.6	166.5	297.4	286.6	10.83	27.460		
2,400.0	2,395.5	2,374.0	2,349.2	5.4	7.5	18.70	316.5	170.0	300.4	289.1	11.32	26.544		
2,500.0	2,494.4	2,473.9	2,447.6	5.6	7.9	13.99	333.5	173.5	301.9	290.1	11.80	25.586		
2,600.0	2,593.1	2,573.8	2,546.0	5.9	8.3	9.85	350.4	177.0	301.8	289.5	12.27	24.594		
2,627.1	2,619.8	2,600.8	2,572.6	6.0	8.4	8.80	355.0	177.9	301.5	289.1	12.40	24.321		
2,700.0	2,691.7	2,673.7	2,644.4	6.2	8.7	8.13	367.3	180.5	300.5	287.8	12.75	23.575		
2,800.0	2,790.2	2,773.5	2,742.7	6.5	9.0	7.21	384.3	184.0	299.3	286.1	13.23	22.622		
2,900.0	2,888.7	2,873.4	2,841.1	6.9	9.4	6.27	401.2	187.5	298.1	284.4	13.71	21.746		
3,000.0	2,987.2	2,973.3	2,939.5	7.2	9.8	5.34	418.1	190.9	297.1	282.9	14.19	20.938		
3,100.0	3,085.7	3,073.2	3,037.8	7.5	10.2	4.39	435.0	194.4	296.1	281.4	14.66	20.192		
3,200.0	3,184.2	3,173.0	3,136.2	7.8	10.6	3.44	452.0	197.9	295.2	280.0	15.14	19.500		
3,300.0	3,282.7	3,272.9	3,234.6	8.2	11.0	2.48	468.9	201.4	294.3	278.7	15.61	18.858		
3,400.0	3,381.3	3,372.8	3,332.9	8.5	11.4	1.52	485.8	204.9	293.6	277.5	16.08	18.260		
3,500.0	3,479.8	3,472.7	3,431.3	8.9	11.7	0.55	502.8	208.4	292.9	276.4	16.55	17.703		
3,600.0	3,578.3	3,572.5	3,529.7	9.2	12.1	-0.42	519.7	211.9	292.4	275.3	17.02	17.181		
3,700.0	3,676.8	3,672.4	3,628.0	9.6	12.5	-1.40	536.6	215.3	291.9	274.4	17.49	16.692		
3,800.0	3,775.3	3,772.3	3,726.4	9.9	12.9	-2.38	553.6	218.8	291.5	273.5	17.95	16.233		
3,900.0	3,873.8	3,872.2	3,824.8	10.3	13.3	-3.36	570.5	222.3	291.1	272.7	18.42	15.801		
4,000.0	3,972.4	3,972.0	3,923.1	10.7	13.7	-4.34	587.4	225.8	290.9	272.0	18.90	15.394		
4,100.0	4,070.9	4,071.9	4,021.5	11.0	14.1	-5.32	604.3	229.3	290.7	271.4	19.37	15.009		
4,200.0	4,169.4	4,171.8	4,119.9	11.4	14.4	-6.31	621.3	232.8	290.7	270.8	19.85	14.645		
4,226.1	4,195.1	4,197.8	4,145.5	11.5	14.5	-6.56	625.7	233.7	290.7	270.7	19.97	14.553		
4,300.0	4,267.9	4,271.7	4,218.2	11.8	14.8	-7.29	638.2	236.3	290.7	270.4	20.33	14.300		
4,400.0	4,366.4	4,371.5	4,316.6	12.1	15.2	-8.28	655.1	239.7	290.8	270.0	20.81	13.972		
4,500.0	4,464.9	4,471.4	4,415.0	12.5	15.6	-9.26	672.1	243.2	291.0	269.7	21.30	13.661		
4,600.0	4,563.5	4,571.3	4,513.3	12.9	16.0	-10.24	689.0	246.7	291.3	269.5	21.80	13.364		
4,700.0	4,662.0	4,671.2	4,611.7	13.2	16.4	-11.22	705.9	250.2	291.6	269.3	22.30	13.081		
4,800.0	4,760.5	4,771.0	4,710.1	13.6	16.8	-12.20	722.9	253.7	292.1	269.3	22.80	12.810		

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	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		
4,900.0	4,859.0	4,870.9	4,808.4	14.0	17.2	-13.17	739.8	257.2	292.6	269.3	23.31	12.552		
5,000.0	4,957.5	4,970.8	4,906.8	14.4	17.5	-14.14	756.7	260.7	293.2	269.4	23.83	12.304		
5,100.0	5,056.0	5,070.6	5,005.2	14.7	17.9	-15.11	773.6	264.1	293.9	269.6	24.36	12.067		
5,200.0	5,154.6	5,170.5	5,103.5	15.1	18.3	-16.07	790.6	267.6	294.7	269.8	24.89	11.839		
5,300.0	5,253.1	5,270.4	5,201.9	15.5	18.7	-17.02	807.5	271.1	295.6	270.2	25.44	11.621		
5,400.0	5,351.6	5,370.3	5,300.3	15.9	19.1	-17.97	824.4	274.6	296.5	270.6	25.99	11.411		
5,500.0	5,450.1	5,470.1	5,398.7	16.2	19.5	-18.91	841.4	278.1	297.6	271.0	26.55	11.209		
5,600.0	5,548.6	5,570.0	5,497.0	16.6	19.9	-19.85	858.3	281.6	298.7	271.6	27.12	11.015		
5,700.0	5,647.1	5,669.9	5,595.4	17.0	20.3	-20.78	875.2	285.1	299.9	272.2	27.70	10.828		
5,800.0	5,745.7	5,769.8	5,693.8	17.4	20.6	-21.70	892.2	288.5	301.1	272.9	28.28	10.648		
5,900.0	5,844.2	5,869.6	5,792.1	17.7	21.0	-22.61	909.1	292.0	302.5	273.6	28.88	10.474		
6,000.0	5,942.7	5,969.5	5,890.5	18.1	21.4	-23.52	926.0	295.5	303.9	274.4	29.49	10.307		
6,066.6	6,008.3	6,036.1	5,956.0	18.4	21.7	-24.12	937.3	297.8	304.9	275.0	29.90	10.199		
6,100.0	6,041.2	6,069.4	5,988.9	18.5	21.8	-24.41	943.0	299.0	305.6	275.5	30.09	10.155		
6,200.0	6,140.2	6,169.2	6,087.2	18.8	22.2	-25.10	959.9	302.5	309.8	279.2	30.62	10.118		
6,300.0	6,239.6	6,279.0	6,195.6	19.0	22.5	-25.59	977.0	306.0	315.9	284.8	31.07	10.167		
6,400.0	6,339.3	6,391.2	6,306.9	19.2	22.8	-25.90	990.4	308.8	321.3	289.8	31.44	10.218		
6,500.0	6,439.3	6,503.6	6,418.9	19.4	23.0	-26.01	999.5	310.7	326.0	294.2	31.75	10.267		
6,560.8	6,500.0	6,572.0	6,487.2	19.5	23.2	2.33	1,003.0	311.4	328.5	286.6	41.87	7.845		
6,600.0	6,539.2	6,616.3	6,531.5	19.5	23.2	2.37	1,004.3	311.6	329.7	287.7	42.00	7.850		
6,700.0	6,639.2	6,724.1	6,639.2	19.7	23.4	2.39	1,005.1	311.8	330.4	288.1	42.31	7.810		
6,800.0	6,739.2	6,824.1	6,739.2	19.8	23.5	2.39	1,005.1	311.8	330.4	287.8	42.61	7.755		
6,900.0	6,839.2	6,925.1	6,840.2	20.0	23.6	1.95	1,005.1	309.3	330.3	287.5	42.87	7.706		
6,980.5	6,919.7	7,005.5	6,919.7	20.1	23.7	0.00	1,005.1	298.0	330.1	287.2	42.92	7.692		
6,986.6	6,925.8	7,011.4	6,925.6	20.1	23.7	-0.20	1,005.1	296.8	330.1	287.2	42.92	7.692		
7,000.0	6,939.2	7,024.5	6,938.4	20.2	23.7	89.33	1,005.1	294.0	330.2	296.3	33.87	9.749		
7,050.0	6,989.2	7,072.9	6,985.1	20.2	23.7	87.61	1,005.1	281.7	330.4	296.2	34.21	9.660		
7,100.0	7,038.8	7,120.6	7,030.4	20.3	23.8	85.92	1,005.1	266.5	331.0	296.5	34.53	9.586		
7,150.0	7,087.8	7,167.7	7,074.0	20.3	23.8	84.26	1,005.1	248.6	331.9	297.0	34.83	9.528		
7,200.0	7,136.1	7,214.3	7,115.8	20.3	23.8	82.65	1,005.1	228.1	333.0	297.9	35.10	9.487		
7,250.0	7,183.3	7,260.3	7,155.7	20.3	23.8	81.08	1,005.1	205.2	334.3	299.0	35.33	9.463		
7,300.0	7,229.3	7,305.9	7,193.7	20.4	23.8	79.57	1,005.1	180.1	335.9	300.3	35.53	9.454		
7,350.0	7,273.8	7,350.0	7,228.9	20.3	23.9	78.15	1,005.1	153.5	337.6	301.9	35.68	9.460		
7,400.0	7,316.7	7,395.6	7,263.5	20.3	23.9	76.75	1,005.1	123.8	339.4	303.6	35.83	9.474		
7,450.0	7,357.6	7,439.8	7,295.1	20.3	23.9	75.45	1,005.1	93.0	341.4	305.4	35.95	9.496		
7,500.0	7,396.4	7,483.7	7,324.6	20.3	23.9	74.22	1,005.1	60.5	343.4	307.2	36.12	9.506		
7,550.0	7,432.9	7,527.3	7,351.9	20.3	24.0	73.07	1,005.1	26.5	345.4	309.1	36.25	9.527		
7,600.0	7,466.9	7,570.5	7,376.8	20.3	24.0	72.01	1,005.1	-8.8	347.4	310.9	36.46	9.529		
7,650.0	7,498.4	7,613.4	7,399.4	20.3	24.1	71.03	1,005.1	-45.3	349.4	312.6	36.74	9.510		
7,700.0	7,527.0	7,656.1	7,419.7	20.2	24.2	70.13	1,005.1	-82.8	351.3	314.2	37.11	9.466		
7,750.0	7,552.7	7,700.0	7,438.2	20.3	24.3	69.30	1,005.1	-122.6	353.1	315.5	37.62	9.386		
7,800.0	7,575.3	7,740.8	7,453.2	20.3	24.5	68.61	1,005.1	-160.6	354.7	316.5	38.25	9.273		
7,850.0	7,594.8	7,782.9	7,466.4	20.5	24.7	67.98	1,005.1	-200.5	356.3	317.2	39.06	9.122		
7,900.0	7,611.0	7,824.8	7,477.1	20.8	25.0	67.44	1,005.1	-241.1	357.6	317.6	40.02	8.935		
7,950.0	7,623.9	7,866.6	7,485.5	21.3	25.3	66.98	1,005.1	-282.0	358.8	317.6	41.16	8.717		
8,000.0	7,633.3	7,908.3	7,491.4	22.0	25.7	66.62	1,005.1	-323.3	359.7	317.3	42.46	8.472		
8,050.0	7,639.4	7,950.0	7,494.9	22.7	26.1	66.34	1,005.1	-364.8	360.4	316.5	43.92	8.208		
8,100.0	7,641.9	7,991.9	7,496.0	23.6	26.7	66.16	1,005.1	-406.6	360.9	315.4	45.52	7.928		
8,111.6	7,642.0	8,003.4	7,496.0	23.8	26.8	66.14	1,005.1	-418.2	361.0	315.0	45.95	7.855		
8,200.0	7,642.0	8,091.9	7,496.0	25.4	28.2	66.14	1,005.1	-506.6	361.0	312.0	49.00	7.367		
8,300.0	7,642.0	8,191.9	7,496.0	27.4	29.9	66.14	1,005.1	-606.6	361.0	308.3	52.70	6.850		

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 11-32NHZ - Wellbore #1 - Plan #2 (11-11)														
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		
8,400.0	7,642.0	8,291.9	7,496.0	29.5	31.9	66.14	1,005.1	-706.6	361.0	304.3	56.63	6.374		
8,500.0	7,642.0	8,391.9	7,496.0	31.7	34.0	66.14	1,005.1	-806.6	361.0	300.2	60.75	5.942		
8,600.0	7,642.0	8,491.9	7,496.0	34.0	36.2	66.14	1,005.1	-906.6	361.0	295.9	65.02	5.552		
8,700.0	7,642.0	8,591.9	7,496.0	36.4	38.5	66.14	1,005.1	-1,006.6	361.0	291.6	69.41	5.200		
8,800.0	7,642.0	8,691.9	7,496.0	38.8	40.9	66.14	1,005.1	-1,106.6	361.0	287.1	73.91	4.884		
8,900.0	7,642.0	8,791.9	7,496.0	41.3	43.3	66.14	1,005.1	-1,206.6	361.0	282.5	78.48	4.599		
9,000.0	7,642.0	8,891.9	7,496.0	43.8	45.7	66.14	1,005.1	-1,306.6	361.0	277.8	83.13	4.342		
9,100.0	7,642.0	8,991.9	7,496.0	46.4	48.2	66.14	1,005.1	-1,406.6	361.0	273.1	87.83	4.110		
9,200.0	7,642.0	9,091.9	7,496.0	49.0	50.8	66.14	1,005.1	-1,506.6	361.0	268.4	92.58	3.899		
9,300.0	7,642.0	9,191.9	7,496.0	51.6	53.4	66.14	1,005.1	-1,606.6	361.0	263.6	97.38	3.707		
9,400.0	7,642.0	9,291.9	7,496.0	54.2	55.9	66.14	1,005.1	-1,706.6	361.0	258.7	102.21	3.532		
9,500.0	7,642.0	9,391.9	7,496.0	56.8	58.5	66.14	1,005.1	-1,806.6	361.0	253.9	107.07	3.371		
9,600.0	7,642.0	9,491.9	7,496.0	59.5	61.2	66.14	1,005.1	-1,906.6	361.0	249.0	111.96	3.224		
9,700.0	7,642.0	9,591.9	7,496.0	62.1	63.8	66.14	1,005.1	-2,006.6	361.0	244.1	116.88	3.088		
9,800.0	7,642.0	9,691.9	7,496.0	64.8	66.5	66.14	1,005.1	-2,106.6	360.9	239.1	121.81	2.963		
9,900.0	7,642.0	9,791.9	7,496.0	67.5	69.1	66.14	1,005.1	-2,206.6	360.9	234.2	126.76	2.847		
10,000.0	7,642.0	9,891.9	7,496.0	70.2	71.8	66.14	1,005.1	-2,306.6	360.9	229.2	131.73	2.740		
10,100.0	7,642.0	9,991.9	7,496.0	72.9	74.5	66.14	1,005.1	-2,406.6	360.9	224.2	136.72	2.640		
10,200.0	7,642.0	10,091.9	7,496.0	75.6	77.2	66.14	1,005.1	-2,506.6	360.9	219.2	141.72	2.547		
10,300.0	7,642.0	10,191.9	7,496.0	78.3	79.9	66.14	1,005.1	-2,606.6	360.9	214.2	146.73	2.460		
10,400.0	7,642.0	10,291.9	7,496.0	81.0	82.6	66.14	1,005.1	-2,706.6	360.9	209.2	151.75	2.379		
10,500.0	7,642.0	10,391.9	7,496.0	83.8	85.3	66.14	1,005.1	-2,806.6	360.9	204.2	156.78	2.302		
10,600.0	7,642.0	10,491.9	7,496.0	86.5	88.0	66.14	1,005.1	-2,906.6	360.9	199.1	161.82	2.231		
10,700.0	7,642.0	10,591.9	7,496.0	89.2	90.8	66.14	1,005.1	-3,006.6	360.9	194.1	166.86	2.163		
10,800.0	7,642.0	10,691.9	7,496.0	92.0	93.5	66.14	1,005.1	-3,106.6	360.9	189.0	171.92	2.099		
10,900.0	7,642.0	10,791.9	7,496.0	94.7	96.2	66.14	1,005.1	-3,206.6	360.9	184.0	176.98	2.039		
11,000.0	7,642.0	10,891.9	7,496.0	97.5	99.0	66.14	1,005.1	-3,306.6	360.9	178.9	182.04	1.983		
11,100.0	7,642.0	10,991.9	7,496.0	100.2	101.7	66.14	1,005.1	-3,406.6	360.9	173.8	187.11	1.929		
11,200.0	7,642.0	11,091.9	7,496.0	103.0	104.5	66.14	1,005.1	-3,506.6	360.9	168.7	192.19	1.878		
11,300.0	7,642.0	11,191.9	7,496.0	105.7	107.2	66.14	1,005.1	-3,606.6	360.9	163.7	197.27	1.830		
11,400.0	7,642.0	11,291.9	7,496.0	108.5	110.0	66.14	1,005.1	-3,706.6	360.9	158.6	202.36	1.784		
11,500.0	7,642.0	11,391.9	7,496.0	111.3	112.7	66.14	1,005.1	-3,806.6	360.9	153.5	207.45	1.740		
11,600.0	7,642.0	11,491.9	7,496.0	114.0	115.5	66.14	1,005.1	-3,906.6	360.9	148.4	212.54	1.698		
11,700.0	7,642.0	11,591.9	7,496.0	116.8	118.2	66.14	1,005.1	-4,006.6	360.9	143.3	217.64	1.658		
11,800.0	7,642.0	11,691.9	7,496.0	119.6	121.0	66.14	1,005.1	-4,106.6	360.9	138.2	222.74	1.620		
11,900.0	7,642.0	11,791.9	7,496.0	122.3	123.8	66.14	1,005.1	-4,206.6	360.9	133.1	227.84	1.584		
12,000.0	7,642.0	11,891.9	7,496.0	125.1	126.5	66.14	1,005.1	-4,306.6	360.9	128.0	232.95	1.549		
12,100.0	7,642.0	11,991.9	7,496.0	127.9	129.3	66.14	1,005.1	-4,406.6	360.9	122.9	238.06	1.516		
12,149.6	7,642.0	12,041.5	7,496.0	129.2	130.7	66.14	1,005.1	-4,456.3	360.9	120.3	240.59	1.500		
12,166.8	7,642.0	12,058.0	7,496.0	129.7	131.1	66.14	1,005.1	-4,472.8	360.9	119.5	241.45	1.495	Level 3, SF	

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 12-32CHZ - Wellbore #1 - Plan #2 (11-12)														
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	77.52	14.6	65.8	67.4					
100.0	100.0	99.0	99.0	0.1	0.1	77.52	14.6	65.8	67.4	67.2	0.22	301.471		
200.0	200.0	199.0	199.0	0.3	0.3	77.52	14.6	65.8	67.4	66.8	0.67	100.323		
300.0	300.0	299.0	299.0	0.6	0.6	77.52	14.6	65.8	67.4	66.3	1.12	60.114		
400.0	400.0	399.0	399.0	0.8	0.8	77.52	14.6	65.8	67.4	65.9	1.57	42.914		
500.0	500.0	499.0	499.0	1.0	1.0	77.52	14.6	65.8	67.4	65.4	2.02	33.367 CC, ES		
600.0	600.0	598.0	598.0	1.2	1.2	77.87	14.3	66.6	68.2	65.7	2.45	27.808		
700.0	700.0	696.9	696.9	1.5	1.4	78.90	13.6	69.1	70.4	67.5	2.87	24.507		
800.0	800.0	795.7	795.6	1.7	1.6	80.47	12.3	73.1	74.2	70.9	3.30	22.472		
900.0	900.0	894.9	894.6	1.9	1.8	82.38	10.5	78.6	79.4	75.7	3.74	21.252		
1,000.0	1,000.0	994.7	994.3	2.1	2.1	84.12	8.7	84.4	85.0	80.8	4.18	20.346		
1,100.0	1,100.0	1,094.6	1,093.9	2.4	2.3	85.65	6.9	90.2	90.6	86.0	4.62	19.613		
1,200.0	1,200.0	1,194.4	1,193.5	2.6	2.5	87.00	5.0	96.0	96.3	91.2	5.06	19.009		
1,300.0	1,300.0	1,294.1	1,293.1	2.8	2.8	128.53	3.2	101.7	102.5	97.0	5.51	18.595		
1,400.0	1,400.0	1,393.8	1,392.6	3.0	3.0	130.57	1.4	107.5	110.0	104.0	5.95	18.476		
1,500.0	1,499.9	1,493.3	1,491.9	3.2	3.3	132.96	-0.5	113.3	118.7	112.3	6.39	18.580		
1,600.0	1,599.7	1,592.6	1,591.0	3.5	3.5	135.55	-2.3	119.0	128.9	122.1	6.83	18.880		
1,700.0	1,699.4	1,691.7	1,689.9	3.7	3.8	138.21	-4.1	124.8	140.6	133.3	7.26	19.354		
1,800.0	1,799.0	1,790.7	1,788.8	3.9	4.0	129.39	-5.9	130.5	152.6	144.9	7.71	19.804		
1,900.0	1,898.6	1,889.8	1,887.7	4.2	4.2	120.87	-7.7	136.3	163.7	155.5	8.15	20.095		
2,000.0	1,998.2	1,988.9	1,986.6	4.4	4.5	113.45	-9.5	142.0	173.9	165.4	8.59	20.247		
2,100.0	2,097.7	2,088.1	2,085.5	4.6	4.7	107.56	-11.4	147.7	183.5	174.5	9.04	20.291		
2,200.0	2,197.1	2,187.1	2,184.5	4.9	5.0	103.27	-13.2	153.5	192.5	183.0	9.50	20.252		
2,300.0	2,296.4	2,286.2	2,283.3	5.1	5.2	100.43	-15.0	159.2	201.0	191.0	9.97	20.155		
2,400.0	2,395.5	2,385.1	2,382.1	5.4	5.5	98.81	-16.8	164.9	209.2	198.8	10.45	20.019		
2,500.0	2,494.4	2,483.9	2,480.7	5.6	5.7	98.21	-18.6	170.7	217.3	206.4	10.94	19.863		
2,600.0	2,593.1	2,582.6	2,579.2	5.9	6.0	98.43	-20.4	176.4	225.5	214.1	11.45	19.704		
2,627.1	2,619.8	2,609.2	2,605.8	6.0	6.0	98.61	-20.9	177.9	227.8	216.2	11.59	19.663		
2,700.0	2,691.7	2,681.1	2,677.5	6.2	6.2	101.25	-22.2	182.1	234.2	222.2	11.96	19.576		
2,800.0	2,790.2	2,779.6	2,775.9	6.5	6.5	104.63	-24.1	187.8	243.7	231.2	12.48	19.519		
2,900.0	2,888.7	2,878.2	2,874.2	6.9	6.7	107.76	-25.9	193.5	254.0	241.0	13.01	19.522		
3,000.0	2,987.2	2,976.7	2,972.6	7.2	7.0	110.64	-27.7	199.2	265.0	251.5	13.54	19.572		
3,100.0	3,085.7	3,075.2	3,070.9	7.5	7.2	113.29	-29.5	204.9	276.6	262.5	14.07	19.660		
3,200.0	3,184.2	3,173.8	3,169.3	7.8	7.5	115.73	-31.3	210.6	288.8	274.2	14.60	19.778		
3,300.0	3,282.7	3,272.3	3,267.6	8.2	7.7	117.96	-33.1	216.3	301.4	286.3	15.13	19.919		
3,400.0	3,381.3	3,370.8	3,365.9	8.5	8.0	120.02	-34.9	222.0	314.5	298.8	15.66	20.077		
3,500.0	3,479.8	3,469.4	3,464.3	8.9	8.2	121.91	-36.7	227.8	327.9	311.7	16.20	20.248		
3,600.0	3,578.3	3,567.9	3,562.6	9.2	8.4	123.65	-38.5	233.5	341.7	325.0	16.73	20.428		
3,700.0	3,676.8	3,666.4	3,661.0	9.6	8.7	125.26	-40.3	239.2	355.7	338.5	17.26	20.615		
3,800.0	3,775.3	3,764.9	3,759.3	9.9	8.9	126.74	-42.1	244.9	370.1	352.3	17.79	20.805		
3,900.0	3,873.8	3,863.5	3,857.7	10.3	9.2	128.12	-43.9	250.6	384.6	366.3	18.32	20.997		
4,000.0	3,972.4	3,962.0	3,956.0	10.7	9.4	129.39	-45.7	256.3	399.3	380.5	18.84	21.191		
4,100.0	4,070.9	4,060.5	4,054.4	11.0	9.7	130.57	-47.5	262.0	414.2	394.9	19.37	21.383		
4,200.0	4,169.4	4,159.1	4,152.7	11.4	9.9	131.68	-49.4	267.7	429.3	409.4	19.90	21.574		
4,300.0	4,267.9	4,257.6	4,251.1	11.8	10.2	132.70	-51.2	273.4	444.6	424.1	20.43	21.763		
4,400.0	4,366.4	4,356.1	4,349.4	12.1	10.4	133.66	-53.0	279.1	459.9	439.0	20.95	21.949		
4,500.0	4,464.9	4,454.6	4,447.8	12.5	10.7	134.56	-54.8	284.8	475.4	453.9	21.48	22.132		
4,600.0	4,563.5	4,553.2	4,546.1	12.9	10.9	135.40	-56.6	290.5	491.0	469.0	22.01	22.312		
4,700.0	4,662.0	4,651.7	4,644.5	13.2	11.2	136.19	-58.4	296.2	506.7	484.1	22.53	22.487		
4,800.0	4,760.5	4,750.2	4,742.8	13.6	11.4	136.93	-60.2	302.0	522.4	499.4	23.06	22.659		
4,900.0	4,859.0	4,850.4	4,842.8	14.0	11.7	137.65	-62.0	307.7	538.2	514.7	23.58	22.828		

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 12-32CHZ - Wellbore #1 - Plan #2 (11-12)														
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	4,957.5	4,959.5	4,951.9	14.4	11.9	138.62	-63.2	311.4	552.9	528.9	24.06	22.977		
5,100.0	5,056.0	5,062.7	5,055.0	14.7	12.1	139.78	-63.3	311.8	566.2	541.7	24.52	23.093		
5,200.0	5,154.6	5,161.2	5,153.6	15.1	12.3	140.87	-63.3	311.8	579.5	554.5	24.96	23.215		
5,300.0	5,253.1	5,259.8	5,252.1	15.5	12.4	141.91	-63.3	311.8	593.0	567.6	25.40	23.341		
5,400.0	5,351.6	5,358.3	5,350.6	15.9	12.6	142.90	-63.3	311.8	606.6	580.8	25.85	23.472		
5,500.0	5,450.1	5,456.8	5,449.1	16.2	12.8	143.85	-63.3	311.8	620.5	594.2	26.29	23.605		
5,600.0	5,548.6	5,555.3	5,547.6	16.6	13.0	144.76	-63.3	311.8	634.5	607.8	26.73	23.740		
5,700.0	5,647.1	5,653.8	5,646.1	17.0	13.2	145.63	-63.3	311.8	648.7	621.5	27.17	23.876		
5,800.0	5,745.7	5,752.3	5,744.7	17.4	13.3	146.47	-63.3	311.8	663.0	635.4	27.61	24.014		
5,900.0	5,844.2	5,850.9	5,843.2	17.7	13.5	147.27	-63.3	311.8	677.4	649.4	28.05	24.151		
6,000.0	5,942.7	5,949.4	5,941.7	18.1	13.7	148.03	-63.3	311.8	692.0	663.5	28.49	24.290		
6,066.6	6,008.3	6,015.0	6,007.3	18.4	13.8	148.52	-63.3	311.8	701.7	672.9	28.78	24.381		
6,100.0	6,041.2	6,047.9	6,040.2	18.5	13.9	148.81	-63.3	311.8	706.5	677.5	28.94	24.416		
6,200.0	6,140.2	6,146.9	6,139.2	18.8	14.1	149.52	-63.3	311.8	718.8	689.4	29.35	24.488		
6,300.0	6,239.6	6,246.3	6,238.6	19.0	14.3	150.05	-63.3	311.8	728.1	698.4	29.75	24.477		
6,400.0	6,339.3	6,346.0	6,338.3	19.2	14.5	150.40	-63.3	311.8	734.5	704.4	30.12	24.387		
6,500.0	6,439.3	6,445.9	6,438.3	19.4	14.7	150.58	-63.3	311.8	737.9	707.4	30.47	24.219		
6,560.8	6,500.0	6,506.7	6,499.0	19.5	14.8	178.93	-63.3	311.8	738.5	705.6	32.84	22.489		
6,600.0	6,539.2	6,545.9	6,538.2	19.5	14.9	178.93	-63.3	311.8	738.5	705.5	32.98	22.394		
6,700.0	6,639.2	6,645.9	6,638.2	19.7	15.1	178.93	-63.3	311.8	738.5	705.1	33.34	22.148		
6,800.0	6,739.2	6,745.9	6,738.2	19.8	15.3	178.93	-63.3	311.8	738.5	704.7	33.71	21.905		
6,900.0	6,839.2	6,845.9	6,838.2	20.0	15.5	178.93	-63.3	311.8	738.5	704.4	34.08	21.667		
6,986.6	6,925.8	6,932.5	6,924.8	20.1	15.6	178.93	-63.3	311.8	738.5	704.1	34.40	21.464		
7,000.0	6,939.2	6,946.2	6,938.5	20.2	15.7	-91.08	-63.3	311.7	738.5	706.1	32.40	22.794		
7,050.0	6,989.2	6,997.2	6,989.4	20.2	15.7	-91.08	-63.3	309.0	738.5	705.9	32.55	22.686		
7,100.0	7,038.8	7,048.2	7,040.0	20.3	15.8	-91.07	-63.3	302.7	738.5	705.8	32.68	22.599		
7,150.0	7,087.8	7,099.1	7,090.0	20.3	15.9	-91.06	-63.3	292.8	738.5	705.7	32.77	22.531		
7,200.0	7,136.1	7,150.1	7,139.1	20.3	15.9	-91.05	-63.3	279.3	738.4	705.6	32.85	22.478		
7,250.0	7,183.3	7,201.1	7,187.2	20.3	16.0	-91.03	-63.3	262.4	738.4	705.5	32.91	22.435		
7,300.0	7,229.3	7,252.0	7,233.9	20.4	16.0	-91.00	-63.3	242.2	738.4	705.5	32.97	22.394		
7,350.0	7,273.8	7,302.9	7,279.0	20.3	16.0	-90.97	-63.3	218.7	738.4	705.4	33.04	22.348		
7,400.0	7,316.7	7,353.8	7,322.4	20.3	16.1	-90.94	-63.3	192.0	738.4	705.3	33.13	22.286		
7,450.0	7,357.6	7,404.6	7,363.7	20.3	16.2	-90.90	-63.3	162.4	738.4	705.2	33.27	22.196		
7,500.0	7,396.4	7,455.4	7,402.7	20.3	16.3	-90.86	-63.3	129.9	738.4	704.9	33.46	22.068		
7,550.0	7,432.9	7,506.2	7,439.4	20.3	16.4	-90.81	-63.3	94.8	738.4	704.7	33.74	21.887		
7,600.0	7,466.9	7,556.9	7,473.4	20.3	16.6	-90.76	-63.3	57.2	738.4	704.3	34.11	21.645		
7,650.0	7,498.4	7,607.5	7,504.6	20.3	16.9	-90.70	-63.3	17.4	738.4	703.8	34.61	21.333		
7,700.0	7,527.0	7,658.1	7,533.0	20.2	17.2	-90.64	-63.3	-24.5	738.4	703.1	35.25	20.947		
7,750.0	7,552.7	7,708.7	7,558.3	20.3	17.6	-90.58	-63.3	-68.3	738.4	702.3	36.04	20.489		
7,800.0	7,575.3	7,759.2	7,580.4	20.3	18.1	-90.51	-63.3	-113.7	738.4	701.4	36.98	19.965		
7,850.0	7,594.8	7,809.6	7,599.2	20.5	18.7	-90.45	-63.3	-160.5	738.4	700.3	38.09	19.385		
7,900.0	7,611.0	7,860.0	7,614.7	20.8	19.4	-90.38	-63.3	-208.4	738.3	699.0	39.35	18.763		
7,950.0	7,623.9	7,910.3	7,626.7	21.3	20.1	-90.31	-63.3	-257.2	738.3	697.6	40.76	18.113		
8,000.0	7,633.3	7,960.5	7,635.3	22.0	20.9	-90.23	-63.3	-306.7	738.3	696.0	42.31	17.453		
8,050.0	7,639.4	8,010.7	7,640.4	22.7	21.8	-90.16	-63.3	-356.6	738.3	694.4	43.96	16.794		
8,100.0	7,641.9	8,060.8	7,642.0	23.6	22.7	-90.08	-63.3	-406.6	738.3	692.6	45.72	16.150		
8,103.8	7,642.0	8,064.6	7,642.0	23.6	22.8	-90.08	-63.3	-410.5	738.3	692.5	45.85	16.102		
8,111.6	7,642.0	8,072.3	7,642.0	23.8	22.9	-90.08	-63.3	-418.2	738.3	692.2	46.14	16.003		
8,200.0	7,642.0	8,160.8	7,642.0	25.4	24.7	-90.08	-63.3	-506.6	738.3	688.8	49.51	14.913		
8,300.0	7,642.0	8,260.8	7,642.0	27.4	26.8	-90.08	-63.3	-606.6	738.3	684.7	53.61	13.774		
8,400.0	7,642.0	8,360.8	7,642.0	29.5	29.0	-90.08	-63.3	-706.6	738.3	680.4	57.95	12.740		

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 12-32CHZ - Wellbore #1 - Plan #2 (11-12)														
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		
8,500.0	7,642.0	8,460.8	7,642.0	31.7	31.3	-90.08	-63.3	-806.6	738.3	675.8	62.50	11.813		
8,600.0	7,642.0	8,560.8	7,642.0	34.0	33.7	-90.08	-63.3	-906.6	738.3	671.1	67.21	10.985		
8,700.0	7,642.0	8,660.8	7,642.0	36.4	36.1	-90.08	-63.3	-1,006.6	738.3	666.3	72.05	10.247		
8,800.0	7,642.0	8,760.8	7,642.0	38.8	38.6	-90.08	-63.3	-1,106.6	738.3	661.4	77.00	9.589		
8,900.0	7,642.0	8,860.8	7,642.0	41.3	41.1	-90.08	-63.3	-1,206.6	738.3	656.3	82.03	9.001		
9,000.0	7,642.0	8,960.8	7,642.0	43.8	43.7	-90.08	-63.3	-1,306.6	738.4	651.2	87.13	8.474		
9,100.0	7,642.0	9,060.8	7,642.0	46.4	46.3	-90.08	-63.3	-1,406.6	738.4	646.1	92.29	8.001		
9,200.0	7,642.0	9,160.8	7,642.0	49.0	48.9	-90.08	-63.3	-1,506.6	738.4	640.9	97.50	7.573		
9,300.0	7,642.0	9,260.8	7,642.0	51.6	51.6	-90.08	-63.3	-1,606.6	738.4	635.6	102.75	7.186		
9,400.0	7,642.0	9,360.8	7,642.0	54.2	54.2	-90.08	-63.3	-1,706.6	738.4	630.3	108.03	6.835		
9,500.0	7,642.0	9,460.8	7,642.0	56.8	56.9	-90.08	-63.3	-1,806.6	738.4	625.0	113.35	6.514		
9,600.0	7,642.0	9,560.8	7,642.0	59.5	59.6	-90.08	-63.3	-1,906.6	738.4	619.7	118.70	6.221		
9,700.0	7,642.0	9,660.8	7,642.0	62.1	62.3	-90.08	-63.3	-2,006.6	738.4	614.3	124.06	5.951		
9,800.0	7,642.0	9,760.8	7,642.0	64.8	65.0	-90.08	-63.3	-2,106.6	738.4	608.9	129.45	5.704		
9,900.0	7,642.0	9,860.8	7,642.0	67.5	67.7	-90.08	-63.3	-2,206.6	738.4	603.5	134.86	5.475		
10,000.0	7,642.0	9,960.8	7,642.0	70.2	70.4	-90.08	-63.3	-2,306.6	738.4	598.1	140.28	5.263		
10,100.0	7,642.0	10,060.8	7,642.0	72.9	73.1	-90.08	-63.3	-2,406.6	738.4	592.7	145.72	5.067		
10,200.0	7,642.0	10,160.8	7,642.0	75.6	75.8	-90.08	-63.3	-2,506.6	738.4	587.2	151.17	4.884		
10,300.0	7,642.0	10,260.8	7,642.0	78.3	78.6	-90.08	-63.3	-2,606.6	738.4	581.7	156.63	4.714		
10,400.0	7,642.0	10,360.8	7,642.0	81.0	81.3	-90.08	-63.3	-2,706.6	738.4	576.3	162.10	4.555		
10,500.0	7,642.0	10,460.8	7,642.0	83.8	84.1	-90.08	-63.3	-2,806.6	738.4	570.8	167.58	4.406		
10,600.0	7,642.0	10,560.8	7,642.0	86.5	86.8	-90.08	-63.3	-2,906.6	738.4	565.3	173.06	4.266		
10,700.0	7,642.0	10,660.8	7,642.0	89.2	89.6	-90.08	-63.3	-3,006.6	738.4	559.8	178.56	4.135		
10,800.0	7,642.0	10,760.8	7,642.0	92.0	92.3	-90.08	-63.3	-3,106.6	738.4	554.3	184.06	4.012		
10,900.0	7,642.0	10,860.8	7,642.0	94.7	95.1	-90.08	-63.3	-3,206.6	738.4	548.8	189.57	3.895		
11,000.0	7,642.0	10,960.8	7,642.0	97.5	97.8	-90.08	-63.3	-3,306.6	738.4	543.3	195.08	3.785		
11,100.0	7,642.0	11,060.8	7,642.0	100.2	100.6	-90.08	-63.3	-3,406.6	738.4	537.8	200.60	3.681		
11,200.0	7,642.0	11,160.8	7,642.0	103.0	103.4	-90.08	-63.3	-3,506.6	738.4	532.3	206.13	3.582		
11,300.0	7,642.0	11,260.8	7,642.0	105.7	106.1	-90.08	-63.3	-3,606.6	738.4	526.7	211.65	3.489		
11,400.0	7,642.0	11,360.8	7,642.0	108.5	108.9	-90.08	-63.3	-3,706.6	738.4	521.2	217.19	3.400		
11,500.0	7,642.0	11,460.8	7,642.0	111.3	111.7	-90.08	-63.3	-3,806.6	738.4	515.7	222.72	3.315		
11,600.0	7,642.0	11,560.8	7,642.0	114.0	114.4	-90.08	-63.3	-3,906.6	738.4	510.1	228.26	3.235		
11,700.0	7,642.0	11,660.8	7,642.0	116.8	117.2	-90.08	-63.3	-4,006.6	738.4	504.6	233.81	3.158		
11,800.0	7,642.0	11,760.8	7,642.0	119.6	120.0	-90.08	-63.3	-4,106.6	738.4	499.0	239.35	3.085		
11,900.0	7,642.0	11,860.8	7,642.0	122.3	122.8	-90.08	-63.3	-4,206.6	738.4	493.5	244.90	3.015		
12,000.0	7,642.0	11,960.8	7,642.0	125.1	125.5	-90.08	-63.3	-4,306.6	738.4	487.9	250.45	2.948		
12,100.0	7,642.0	12,060.8	7,642.0	127.9	128.3	-90.08	-63.3	-4,406.6	738.4	482.4	256.01	2.884		
12,166.8	7,642.0	12,127.6	7,642.0	129.7	130.2	-90.08	-63.3	-4,473.4	738.4	478.7	259.72	2.843 SF		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps 12-32NHZ - Wellbore #1 - Plan #2 (11-12)														
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	77.40	9.8	44.0	45.1					
100.0	100.0	99.0	99.0	0.1	0.1	77.40	9.8	44.0	45.1	44.8	0.22	201.502		
200.0	200.0	199.0	199.0	0.3	0.3	77.40	9.8	44.0	45.1	44.4	0.67	67.056		
300.0	300.0	299.0	299.0	0.6	0.6	77.40	9.8	44.0	45.1	43.9	1.12	40.180		
400.0	400.0	399.0	399.0	0.8	0.8	77.40	9.8	44.0	45.1	43.5	1.57	28.683		
500.0	500.0	499.0	499.0	1.0	1.0	77.40	9.8	44.0	45.1	43.0	2.02	22.302		
600.0	600.0	599.0	599.0	1.2	1.2	77.40	9.8	44.0	45.1	42.6	2.47	18.244		
700.0	700.0	699.0	699.0	1.5	1.5	77.40	9.8	44.0	45.1	42.1	2.92	15.435		
800.0	800.0	799.0	799.0	1.7	1.7	77.40	9.8	44.0	45.1	41.7	3.37	13.375 CC		
900.0	900.0	898.7	898.7	1.9	1.9	78.40	9.1	44.5	45.4	41.6	3.79	11.965 ES		
1,000.0	1,000.0	998.4	998.3	2.1	2.1	81.36	7.0	45.9	46.4	42.2	4.20	11.055		
1,100.0	1,100.0	1,097.9	1,097.8	2.4	2.3	85.99	3.4	48.3	48.4	43.8	4.61	10.493		
1,200.0	1,200.0	1,197.2	1,196.9	2.6	2.5	91.81	-1.6	51.6	51.7	46.6	5.03	10.265 SF		
1,300.0	1,300.0	1,296.3	1,295.7	2.8	2.7	138.74	-8.1	55.9	57.2	51.7	5.47	10.464		
1,400.0	1,400.0	1,394.9	1,393.8	3.0	2.9	146.20	-15.8	61.1	66.2	60.3	5.90	11.215		
1,500.0	1,499.9	1,493.9	1,492.3	3.2	3.1	152.70	-24.2	66.6	78.0	71.7	6.33	12.326		
1,600.0	1,599.7	1,592.5	1,590.5	3.5	3.4	157.84	-32.5	72.1	92.2	85.5	6.76	13.645		
1,700.0	1,699.4	1,690.9	1,688.4	3.7	3.7	161.87	-40.7	77.6	108.6	101.4	7.19	15.114		
1,800.0	1,799.0	1,789.2	1,786.1	3.9	3.9	153.71	-49.0	83.1	125.9	118.3	7.62	16.530		
1,900.0	1,898.6	1,887.4	1,883.8	4.2	4.2	145.62	-57.3	88.6	142.9	134.9	8.04	17.772		
2,000.0	1,998.2	1,985.6	1,981.5	4.4	4.5	138.46	-65.5	94.1	159.9	151.4	8.47	18.868		
2,100.0	2,097.7	2,083.8	2,079.2	4.6	4.7	132.67	-73.8	99.6	176.7	167.8	8.91	19.847		
2,200.0	2,197.1	2,181.8	2,176.7	4.9	5.0	128.30	-82.0	105.1	193.7	184.4	9.34	20.738		
2,300.0	2,296.4	2,279.7	2,274.2	5.1	5.3	125.21	-90.3	110.6	210.9	201.2	9.78	21.560		
2,400.0	2,395.5	2,377.5	2,371.4	5.4	5.6	123.18	-98.5	116.0	228.5	218.3	10.23	22.330		
2,500.0	2,494.4	2,475.1	2,468.5	5.6	5.8	121.98	-106.7	121.5	246.5	235.8	10.69	23.063		
2,600.0	2,593.1	2,572.5	2,565.4	5.9	6.1	121.43	-114.9	127.0	265.1	254.0	11.15	23.769		
2,627.1	2,619.8	2,598.8	2,591.6	6.0	6.2	121.37	-117.1	128.4	270.3	259.0	11.28	23.958		
2,700.0	2,691.7	2,669.7	2,662.1	6.2	6.4	123.40	-123.1	132.4	284.4	272.8	11.63	24.458		
2,800.0	2,790.2	2,766.9	2,758.8	6.5	6.7	125.88	-131.2	137.8	304.3	292.1	12.11	25.126		
2,900.0	2,888.7	2,864.1	2,855.5	6.9	7.0	128.05	-139.4	143.3	324.6	312.0	12.60	25.770		
3,000.0	2,987.2	2,961.3	2,952.2	7.2	7.2	129.97	-147.6	148.7	345.4	332.3	13.09	26.386		
3,100.0	3,085.7	3,058.5	3,048.9	7.5	7.5	131.67	-155.8	154.2	366.5	352.9	13.59	26.974		
3,200.0	3,184.2	3,155.7	3,145.6	7.8	7.8	133.19	-164.0	159.6	387.8	373.7	14.09	27.534		
3,300.0	3,282.7	3,252.9	3,242.3	8.2	8.1	134.55	-172.1	165.0	409.4	394.8	14.59	28.066		
3,400.0	3,381.3	3,350.1	3,339.0	8.5	8.4	135.77	-180.3	170.5	431.2	416.1	15.09	28.571		
3,500.0	3,479.8	3,447.3	3,435.7	8.9	8.7	136.88	-188.5	175.9	453.2	437.6	15.60	29.050		
3,600.0	3,578.3	3,544.5	3,532.4	9.2	8.9	137.89	-196.7	181.3	475.3	459.2	16.11	29.505		
3,700.0	3,676.8	3,641.7	3,629.1	9.6	9.2	138.80	-204.8	186.8	497.6	481.0	16.62	29.936		
3,800.0	3,775.3	3,738.9	3,725.8	9.9	9.5	139.64	-213.0	192.2	519.9	502.8	17.13	30.346		
3,900.0	3,873.8	3,836.1	3,822.5	10.3	9.8	140.41	-221.2	197.7	542.4	524.7	17.65	30.735		
4,000.0	3,972.4	3,933.3	3,919.2	10.7	10.1	141.12	-229.4	203.1	564.9	546.8	18.16	31.106		
4,100.0	4,070.9	4,030.5	4,015.9	11.0	10.4	141.77	-237.5	208.5	587.6	568.9	18.68	31.458		
4,200.0	4,169.4	4,127.6	4,112.6	11.4	10.7	142.37	-245.7	214.0	610.2	591.0	19.19	31.793		
4,300.0	4,267.9	4,224.8	4,209.3	11.8	10.9	142.94	-253.9	219.4	633.0	613.3	19.71	32.112		
4,400.0	4,366.4	4,322.0	4,306.0	12.1	11.2	143.46	-262.1	224.9	655.8	635.6	20.23	32.417		
4,500.0	4,464.9	4,419.2	4,402.7	12.5	11.5	143.95	-270.2	230.3	678.6	657.9	20.75	32.707		
4,600.0	4,563.5	4,516.4	4,499.4	12.9	11.8	144.40	-278.4	235.7	701.5	680.3	21.27	32.985		
4,700.0	4,662.0	4,613.6	4,596.1	13.2	12.1	144.83	-286.6	241.2	724.5	702.7	21.79	33.250		
4,800.0	4,760.5	4,710.8	4,692.8	13.6	12.4	145.23	-294.8	246.6	747.4	725.1	22.31	33.504		
4,900.0	4,859.0	4,808.0	4,789.5	14.0	12.7	145.61	-302.9	252.1	770.4	747.6	22.83	33.746		

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	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		
5,000.0	4,957.5	4,905.2	4,886.2	14.4	13.0	145.96	-311.1	257.5	793.5	770.1	23.35	33.979		
5,100.0	5,056.0	5,002.4	4,982.9	14.7	13.2	146.30	-319.3	262.9	816.5	792.6	23.87	34.202		
5,200.0	5,154.6	5,099.6	5,079.6	15.1	13.5	146.62	-327.5	268.4	839.6	815.2	24.40	34.416		
5,300.0	5,253.1	5,196.8	5,176.3	15.5	13.8	146.92	-335.6	273.8	862.7	837.8	24.92	34.621		
5,400.0	5,351.6	5,294.0	5,273.0	15.9	14.1	147.20	-343.8	279.2	885.8	860.4	25.44	34.818		
5,500.0	5,450.1	5,391.2	5,369.7	16.2	14.4	147.47	-352.0	284.7	909.0	883.0	25.97	35.008		
5,600.0	5,548.6	5,488.4	5,466.4	16.6	14.7	147.73	-360.2	290.1	932.2	905.7	26.49	35.190		
5,700.0	5,647.1	5,585.6	5,563.1	17.0	15.0	147.97	-368.3	295.6	955.3	928.3	27.01	35.365		
5,800.0	5,745.7	5,682.8	5,659.8	17.4	15.3	148.21	-376.5	301.0	978.5	951.0	27.54	35.534		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	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		
0.0	0.0	0.0	0.0	0.0	0.0	76.92	4.9	21.0	21.6					
100.0	100.0	100.0	100.0	0.1	0.1	76.92	4.9	21.0	21.6	21.3	0.22	95.961		
200.0	200.0	200.0	200.0	0.3	0.3	76.92	4.9	21.0	21.6	20.9	0.67	31.987		
300.0	300.0	300.0	300.0	0.6	0.6	76.92	4.9	21.0	21.6	20.4	1.12	19.192		
400.0	400.0	400.0	400.0	0.8	0.8	76.92	4.9	21.0	21.6	20.0	1.57	13.709		
500.0	500.0	500.0	500.0	1.0	1.0	76.92	4.9	21.0	21.6	19.5	2.02	10.662		
600.0	600.0	600.0	600.0	1.2	1.2	76.92	4.9	21.0	21.6	19.1	2.47	8.724		
700.0	700.0	700.0	700.0	1.5	1.5	76.92	4.9	21.0	21.6	18.6	2.92	7.382		
800.0	800.0	800.0	800.0	1.7	1.7	76.92	4.9	21.0	21.6	18.2	3.37	6.397		
900.0	900.0	900.0	900.0	1.9	1.9	76.92	4.9	21.0	21.6	17.7	3.82	5.645		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	76.92	4.9	21.0	21.6	17.3	4.27	5.051 CC, ES		
1,100.0	1,100.0	1,099.7	1,099.7	2.4	2.4	75.83	5.5	21.6	22.3	17.6	4.71	4.737		
1,200.0	1,200.0	1,199.3	1,199.2	2.6	2.6	72.97	7.2	23.6	24.7	19.5	5.16	4.784		
1,300.0	1,300.0	1,298.7	1,298.6	2.8	2.8	110.85	10.1	26.8	28.9	23.4	5.59	5.174		
1,400.0	1,400.0	1,398.0	1,397.7	3.0	3.0	110.87	14.2	31.2	35.5	29.4	6.03	5.879		
1,500.0	1,499.9	1,497.0	1,496.4	3.2	3.2	112.06	19.4	36.9	44.2	37.7	6.47	6.827		
1,600.0	1,599.7	1,595.6	1,594.5	3.5	3.5	113.71	25.7	43.9	55.2	48.2	6.92	7.974		
1,700.0	1,699.4	1,694.5	1,692.8	3.7	3.7	115.61	32.9	51.8	68.1	60.7	7.37	9.233		
1,800.0	1,799.0	1,793.7	1,791.4	3.9	4.0	106.18	40.2	59.7	80.7	72.8	7.83	10.307		
1,900.0	1,898.6	1,893.0	1,890.2	4.2	4.3	96.85	47.5	67.7	91.7	83.5	8.28	11.073		
2,000.0	1,998.2	1,992.5	1,989.1	4.4	4.5	88.52	54.8	75.8	101.3	92.5	8.75	11.572		
2,100.0	2,097.7	2,092.1	2,088.1	4.6	4.8	81.68	62.2	83.8	109.4	100.1	9.23	11.844		
2,200.0	2,197.1	2,191.8	2,187.2	4.9	5.1	76.45	69.5	91.8	116.0	106.3	9.73	11.925		
2,300.0	2,296.4	2,291.5	2,286.3	5.1	5.3	72.71	76.8	99.8	121.2	111.0	10.23	11.847		
2,400.0	2,395.5	2,391.3	2,385.5	5.4	5.6	70.28	84.2	107.9	125.2	114.4	10.76	11.637		
2,500.0	2,494.4	2,491.1	2,484.7	5.6	5.9	69.02	91.5	115.9	127.9	116.6	11.30	11.320		
2,600.0	2,593.1	2,590.8	2,583.8	5.9	6.2	68.80	98.8	123.9	129.5	117.7	11.86	10.918		
2,627.1	2,619.8	2,617.8	2,610.7	6.0	6.3	68.90	100.8	126.1	129.8	117.8	12.02	10.798		
2,700.0	2,691.7	2,690.5	2,682.9	6.2	6.5	71.38	106.1	132.0	130.6	118.1	12.46	10.481		
2,800.0	2,790.2	2,790.2	2,782.0	6.5	6.8	74.72	113.5	140.0	132.0	118.9	13.07	10.100		
2,900.0	2,888.7	2,889.9	2,881.1	6.9	7.0	77.98	120.8	148.0	133.9	120.2	13.69	9.778		
3,000.0	2,987.2	2,989.6	2,980.2	7.2	7.3	81.13	128.1	156.1	136.2	121.8	14.32	9.508		
3,100.0	3,085.7	3,089.3	3,079.3	7.5	7.6	84.18	135.5	164.1	138.8	123.9	14.95	9.285		
3,200.0	3,184.2	3,189.0	3,178.4	7.8	7.9	87.10	142.8	172.1	141.9	126.3	15.59	9.101		
3,300.0	3,282.7	3,288.7	3,277.5	8.2	8.2	89.89	150.1	180.2	145.4	129.1	16.23	8.953		
3,400.0	3,381.3	3,388.4	3,376.6	8.5	8.5	92.55	157.4	188.2	149.1	132.2	16.87	8.837		
3,500.0	3,479.8	3,488.1	3,475.7	8.9	8.8	95.07	164.8	196.2	153.2	135.7	17.51	8.746		
3,600.0	3,578.3	3,587.8	3,574.8	9.2	9.1	97.46	172.1	204.2	157.5	139.4	18.15	8.679		
3,700.0	3,676.8	3,687.5	3,673.9	9.6	9.4	99.72	179.4	212.3	162.1	143.4	18.78	8.632		
3,800.0	3,775.3	3,787.2	3,773.1	9.9	9.7	101.85	186.7	220.3	167.0	147.6	19.41	8.602		
3,900.0	3,873.8	3,886.9	3,872.2	10.3	10.0	103.85	194.1	228.3	172.0	152.0	20.04	8.587		
4,000.0	3,972.4	3,986.6	3,971.3	10.7	10.3	105.74	201.4	236.4	177.3	156.6	20.66	8.583		
4,100.0	4,070.9	4,086.3	4,070.4	11.0	10.6	107.52	208.7	244.4	182.7	161.5	21.27	8.590		
4,200.0	4,169.4	4,186.0	4,169.5	11.4	10.8	109.20	216.1	252.4	188.4	166.5	21.89	8.606		
4,300.0	4,267.9	4,285.7	4,268.6	11.8	11.1	110.78	223.4	260.4	194.1	171.6	22.49	8.629		
4,400.0	4,366.4	4,385.3	4,367.7	12.1	11.4	112.26	230.7	268.5	200.0	176.9	23.10	8.659		
4,500.0	4,464.9	4,485.0	4,466.8	12.5	11.7	113.67	238.0	276.5	206.0	182.3	23.70	8.693		
4,600.0	4,563.5	4,584.7	4,565.9	12.9	12.0	114.99	245.4	284.5	212.2	187.9	24.30	8.732		
4,700.0	4,662.0	4,684.4	4,665.0	13.2	12.3	116.23	252.7	292.6	218.4	193.5	24.90	8.774		
4,800.0	4,760.5	4,783.2	4,763.3	13.6	12.6	117.65	259.3	299.8	224.9	199.5	25.44	8.841		
4,900.0	4,859.0	4,881.3	4,861.1	14.0	12.8	119.78	263.6	304.5	232.2	206.3	25.88	8.969		

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	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		
5,000.0	4,957.5	4,978.6	4,958.3	14.4	13.0	122.53	265.7	306.8	240.5	214.2	26.24	9.163		
5,100.0	5,056.0	5,076.3	5,056.0	14.7	13.1	125.72	265.9	307.0	250.1	223.6	26.55	9.421		
5,200.0	5,154.6	5,174.8	5,154.6	15.1	13.3	128.76	265.9	307.0	260.6	233.7	26.86	9.704		
5,300.0	5,253.1	5,273.3	5,253.1	15.5	13.5	131.56	265.9	307.0	271.8	244.6	27.17	10.004		
5,400.0	5,351.6	5,371.8	5,351.6	15.9	13.7	134.13	265.9	307.0	283.5	256.1	27.48	10.318		
5,500.0	5,450.1	5,470.3	5,450.1	16.2	13.8	136.50	265.9	307.0	295.8	268.0	27.80	10.643		
5,600.0	5,548.6	5,568.9	5,548.6	16.6	14.0	138.68	265.9	307.0	308.6	280.5	28.12	10.975		
5,700.0	5,647.1	5,667.4	5,647.1	17.0	14.2	140.69	265.9	307.0	321.8	293.3	28.45	11.311		
5,800.0	5,745.7	5,765.9	5,745.7	17.4	14.4	142.54	265.9	307.0	335.3	306.5	28.78	11.649		
5,900.0	5,844.2	5,864.4	5,844.2	17.7	14.6	144.24	265.9	307.0	349.1	320.0	29.13	11.987		
6,000.0	5,942.7	5,962.9	5,942.7	18.1	14.8	145.82	265.9	307.0	363.3	333.8	29.48	12.324		
6,066.6	6,008.3	6,028.6	6,008.3	18.4	14.9	146.80	265.9	307.0	372.8	343.1	29.72	12.547		
6,100.0	6,041.2	6,061.5	6,041.2	18.5	15.0	147.31	265.9	307.0	377.5	347.7	29.84	12.653		
6,200.0	6,140.2	6,160.4	6,140.2	18.8	15.2	148.57	265.9	307.0	389.7	359.5	30.17	12.916		
6,300.0	6,239.6	6,259.8	6,239.6	19.0	15.4	149.47	265.9	307.0	398.9	368.4	30.50	13.080		
6,400.0	6,339.3	6,359.6	6,339.3	19.2	15.6	150.06	265.9	307.0	405.3	374.5	30.83	13.147		
6,500.0	6,439.3	6,459.5	6,439.3	19.4	15.8	150.37	265.9	307.0	408.7	377.5	31.15	13.120		
6,560.8	6,500.0	6,520.2	6,500.0	19.5	15.9	178.74	265.9	307.0	409.2	375.5	33.69	12.148		
6,600.0	6,539.2	6,559.5	6,539.2	19.5	16.0	178.74	265.9	307.0	409.2	375.4	33.83	12.097		
6,700.0	6,639.2	6,659.5	6,639.2	19.7	16.2	178.74	265.9	307.0	409.2	375.0	34.20	11.966		
6,800.0	6,739.2	6,759.5	6,739.2	19.8	16.4	178.74	265.9	307.0	409.2	374.6	34.57	11.836		
6,900.0	6,839.2	6,860.1	6,839.8	20.0	16.5	179.09	265.9	304.5	409.2	374.2	34.96	11.702		
6,954.2	6,893.4	6,914.2	6,893.4	20.1	16.6	-179.99	265.9	297.9	409.1	373.9	35.22	11.617		
6,986.6	6,925.8	6,945.9	6,924.6	20.1	16.6	-179.19	265.9	292.2	409.2	373.8	35.38	11.563		
7,000.0	6,939.2	6,958.9	6,937.4	20.2	16.6	-88.82	265.9	289.5	409.2	376.4	32.78	12.483		
7,050.0	6,989.2	7,007.0	6,983.9	20.2	16.7	-87.44	265.9	277.3	409.5	376.8	32.78	12.492		
7,100.0	7,038.8	7,054.4	7,028.9	20.3	16.7	-86.09	265.9	262.3	410.1	377.3	32.77	12.515		
7,150.0	7,087.8	7,101.3	7,072.3	20.3	16.7	-84.77	265.9	244.6	410.9	378.1	32.74	12.548		
7,200.0	7,136.1	7,147.6	7,113.9	20.3	16.7	-83.48	265.9	224.3	411.9	379.1	32.72	12.587		
7,250.0	7,183.3	7,193.5	7,153.7	20.3	16.7	-82.23	265.9	201.6	413.0	380.3	32.71	12.627		
7,300.0	7,229.3	7,238.8	7,191.6	20.4	16.7	-81.02	265.9	176.8	414.3	381.6	32.71	12.666		
7,350.0	7,273.8	7,283.7	7,227.5	20.3	16.7	-79.86	265.9	149.8	415.8	383.0	32.74	12.698		
7,400.0	7,316.7	7,328.2	7,261.3	20.3	16.7	-78.76	265.9	121.0	417.3	384.5	32.81	12.719		
7,450.0	7,357.6	7,372.2	7,293.0	20.3	16.8	-77.72	265.9	90.3	418.9	386.0	32.92	12.724		
7,500.0	7,396.4	7,416.0	7,322.6	20.3	16.9	-76.73	265.9	58.1	420.5	387.4	33.09	12.708		
7,550.0	7,432.9	7,459.4	7,349.9	20.3	17.0	-75.81	265.9	24.4	422.2	388.8	33.33	12.668		
7,600.0	7,466.9	7,500.0	7,373.5	20.3	17.2	-75.00	265.9	-8.7	423.8	390.2	33.62	12.605		
7,650.0	7,498.4	7,545.3	7,397.7	20.3	17.5	-74.17	265.9	-47.0	425.4	391.3	34.04	12.496		
7,700.0	7,527.0	7,587.9	7,418.1	20.2	17.9	-73.46	265.9	-84.4	426.9	392.4	34.55	12.356		
7,750.0	7,552.7	7,630.3	7,436.2	20.3	18.4	-72.81	266.0	-122.7	428.3	393.2	35.17	12.181		
7,800.0	7,575.3	7,672.5	7,451.9	20.3	18.8	-72.24	266.0	-161.8	429.7	393.8	35.89	11.971		
7,850.0	7,594.8	7,714.5	7,465.3	20.5	19.4	-71.74	266.0	-201.7	430.8	394.1	36.73	11.730		
7,900.0	7,611.0	7,756.4	7,476.2	20.8	20.0	-71.31	266.0	-242.1	431.9	394.2	37.68	11.460		
7,950.0	7,623.9	7,800.0	7,485.1	21.3	20.6	-70.95	266.0	-284.8	432.7	394.0	38.78	11.160		
8,000.0	7,633.3	7,839.8	7,490.9	22.0	21.3	-70.69	266.0	-324.2	433.4	393.5	39.93	10.854		
8,050.0	7,639.4	7,881.4	7,494.7	22.7	22.0	-70.49	266.0	-365.6	433.9	392.7	41.21	10.529		
8,100.0	7,641.9	7,925.0	7,496.0	23.6	22.7	-70.36	266.0	-409.2	434.3	391.6	42.61	10.191		
8,100.2	7,641.9	7,925.0	7,496.0	23.6	22.7	-70.36	266.0	-409.2	434.3	391.6	42.62	10.190		
8,111.6	7,642.0	7,934.1	7,496.0	23.8	22.9	-70.36	266.0	-418.3	434.3	391.3	42.94	10.113		
8,200.0	7,642.0	8,022.6	7,496.0	25.4	24.6	-70.35	266.0	-506.7	434.3	388.2	46.07	9.425		
8,300.0	7,642.0	8,122.6	7,496.0	27.4	26.7	-70.35	266.0	-606.7	434.3	384.4	49.90	8.702		

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

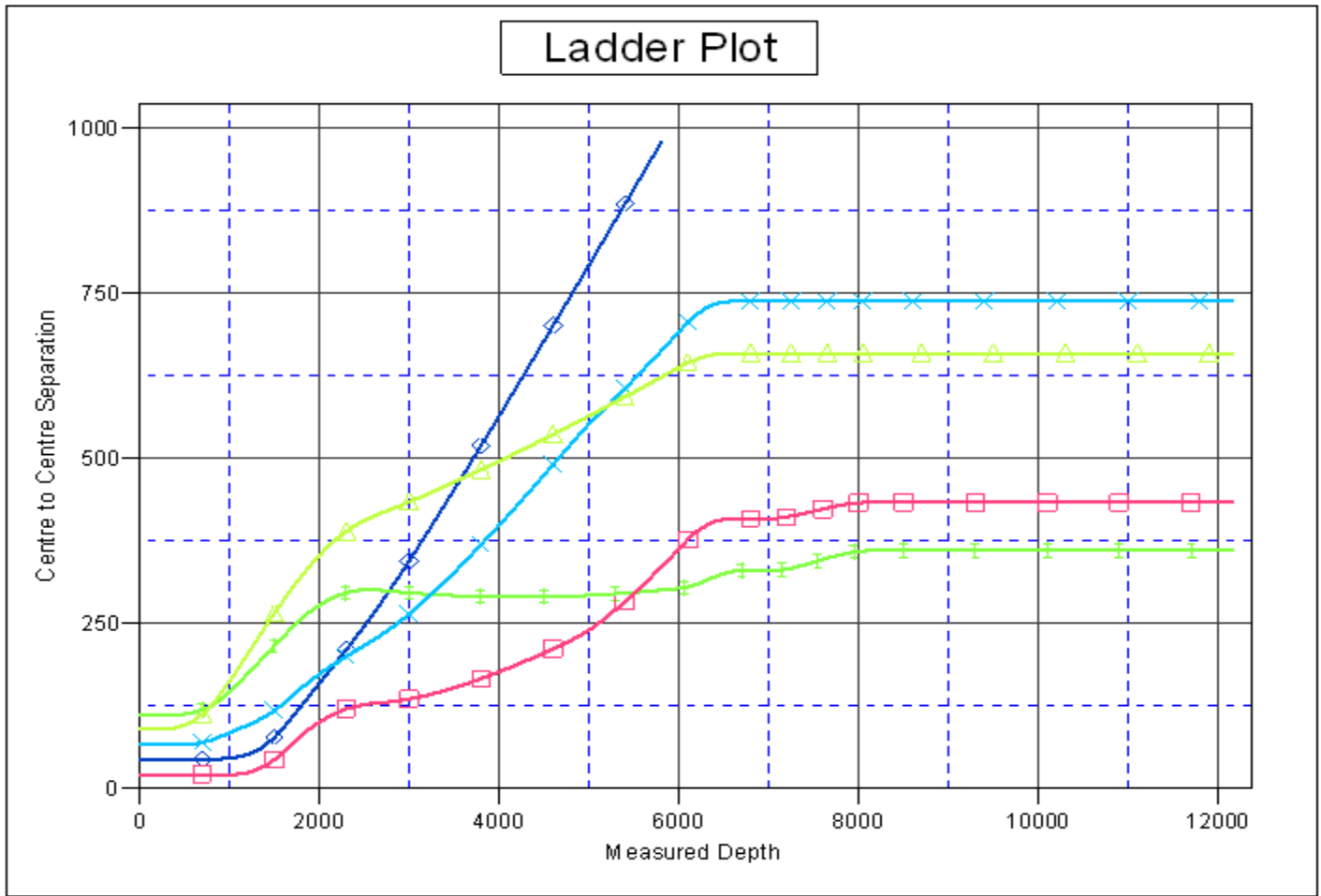
Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W - SRC Phelps A-32NHZ - Wellbore #1 - Plan #3 (11-14-														
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	
8,400.0	7,642.0	8,222.6	7,496.0	29.5	28.9	-70.35	266.1	-706.7	434.2	380.3	53.98	8.045		
8,500.0	7,642.0	8,322.6	7,496.0	31.7	31.2	-70.35	266.1	-806.7	434.2	376.0	58.25	7.454		
8,600.0	7,642.0	8,422.6	7,496.0	34.0	33.5	-70.35	266.1	-906.7	434.2	371.5	62.68	6.927		
8,700.0	7,642.0	8,522.6	7,496.0	36.4	35.9	-70.35	266.1	-1,006.7	434.2	367.0	67.24	6.457		
8,800.0	7,642.0	8,622.6	7,496.0	38.8	38.4	-70.35	266.1	-1,106.7	434.2	362.3	71.90	6.038		
8,900.0	7,642.0	8,722.6	7,496.0	41.3	40.9	-70.35	266.1	-1,206.7	434.2	357.5	76.65	5.665		
9,000.0	7,642.0	8,822.6	7,496.0	43.8	43.5	-70.35	266.2	-1,306.7	434.1	352.7	81.46	5.330		
9,100.0	7,642.0	8,922.6	7,496.0	46.4	46.1	-70.35	266.2	-1,406.7	434.1	347.8	86.33	5.029		
9,200.0	7,642.0	9,022.6	7,496.0	49.0	48.7	-70.35	266.2	-1,506.7	434.1	342.9	91.24	4.758		
9,300.0	7,642.0	9,122.6	7,496.0	51.6	51.3	-70.35	266.2	-1,606.7	434.1	337.9	96.20	4.512		
9,400.0	7,642.0	9,222.6	7,496.0	54.2	54.0	-70.35	266.2	-1,706.7	434.1	332.9	101.20	4.290		
9,500.0	7,642.0	9,322.6	7,496.0	56.8	56.6	-70.35	266.2	-1,806.7	434.1	327.9	106.22	4.087		
9,600.0	7,642.0	9,422.6	7,496.0	59.5	59.3	-70.34	266.3	-1,906.7	434.1	322.8	111.27	3.901		
9,700.0	7,642.0	9,522.6	7,496.0	62.1	62.0	-70.34	266.3	-2,006.7	434.0	317.7	116.34	3.731		
9,800.0	7,642.0	9,622.6	7,496.0	64.8	64.7	-70.34	266.3	-2,106.7	434.0	312.6	121.43	3.574		
9,900.0	7,642.0	9,722.6	7,496.0	67.5	67.4	-70.34	266.3	-2,206.7	434.0	307.5	126.54	3.430		
10,000.0	7,642.0	9,822.6	7,496.0	70.2	70.1	-70.34	266.3	-2,306.7	434.0	302.3	131.66	3.296		
10,100.0	7,642.0	9,922.6	7,496.0	72.9	72.8	-70.34	266.3	-2,406.7	434.0	297.2	136.79	3.173		
10,200.0	7,642.0	10,022.6	7,496.0	75.6	75.5	-70.34	266.4	-2,506.7	434.0	292.0	141.94	3.057		
10,300.0	7,642.0	10,122.6	7,496.0	78.3	78.3	-70.34	266.4	-2,606.7	434.0	286.9	147.10	2.950		
10,400.0	7,642.0	10,222.6	7,496.0	81.0	81.0	-70.34	266.4	-2,706.7	433.9	281.7	152.27	2.850		
10,500.0	7,642.0	10,322.6	7,496.0	83.8	83.7	-70.34	266.4	-2,806.7	433.9	276.5	157.45	2.756		
10,600.0	7,642.0	10,422.6	7,496.0	86.5	86.5	-70.34	266.4	-2,906.7	433.9	271.3	162.63	2.668		
10,700.0	7,642.0	10,522.6	7,496.0	89.2	89.2	-70.34	266.5	-3,006.7	433.9	266.1	167.83	2.585		
10,800.0	7,642.0	10,622.6	7,496.0	92.0	92.0	-70.34	266.5	-3,106.7	433.9	260.9	173.03	2.508		
10,900.0	7,642.0	10,722.6	7,496.0	94.7	94.7	-70.34	266.5	-3,206.7	433.9	255.6	178.23	2.434		
11,000.0	7,642.0	10,822.6	7,496.0	97.5	97.5	-70.34	266.5	-3,306.7	433.9	250.4	183.44	2.365		
11,100.0	7,642.0	10,922.6	7,496.0	100.2	100.3	-70.33	266.5	-3,406.7	433.8	245.2	188.66	2.300		
11,200.0	7,642.0	11,022.6	7,496.0	103.0	103.0	-70.33	266.5	-3,506.7	433.8	239.9	193.88	2.238		
11,300.0	7,642.0	11,122.6	7,496.0	105.7	105.8	-70.33	266.6	-3,606.7	433.8	234.7	199.10	2.179		
11,400.0	7,642.0	11,222.6	7,496.0	108.5	108.5	-70.33	266.6	-3,706.7	433.8	229.5	204.33	2.123		
11,500.0	7,642.0	11,322.6	7,496.0	111.3	111.3	-70.33	266.6	-3,806.7	433.8	224.2	209.56	2.070		
11,600.0	7,642.0	11,422.6	7,496.0	114.0	114.1	-70.33	266.6	-3,906.7	433.8	219.0	214.79	2.019		
11,700.0	7,642.0	11,522.6	7,496.0	116.8	116.9	-70.33	266.6	-4,006.7	433.8	213.7	220.03	1.971		
11,800.0	7,642.0	11,622.6	7,496.0	119.6	119.6	-70.33	266.6	-4,106.7	433.7	208.5	225.27	1.925		
11,900.0	7,642.0	11,722.6	7,496.0	122.3	122.4	-70.33	266.7	-4,206.7	433.7	203.2	230.52	1.882		
12,000.0	7,642.0	11,822.6	7,496.0	125.1	125.2	-70.33	266.7	-4,306.7	433.7	197.9	235.76	1.840		
12,100.0	7,642.0	11,922.6	7,496.0	127.9	128.0	-70.33	266.7	-4,406.7	433.7	192.7	241.01	1.799		
12,166.8	7,642.0	11,989.4	7,496.0	129.7	129.8	-70.33	266.7	-4,473.5	433.7	189.2	244.52	1.774 SF		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5031.0ft (RKB - 12')
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

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



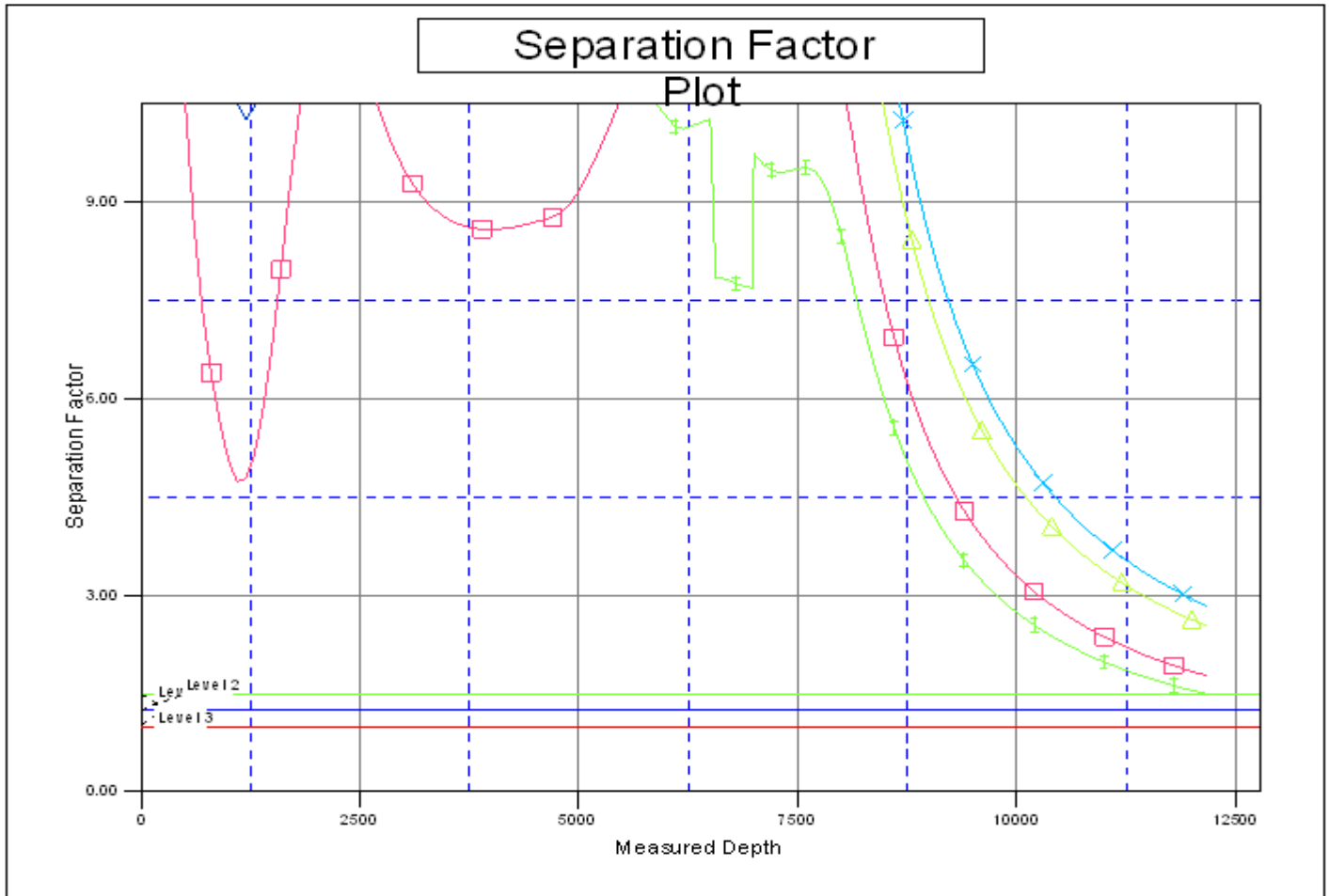
LEGEND

2-32NHZ, Wellbore #1, Plan #2 (11-12-13) V0 SRC Phelps 12-32CHZ, Wellbore #1, Plan #2 (11-12-13) V0 SRC Phelps A-32NHZ, Wellbore #1, 1-32NHZ, Wellbore #1, Plan #2 (11-11-13) V0 SRC Phelps 11-32CHZ, Wellbore #1, Plan #2 (11-12-13) V0

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Phelps A-32CHZ
Project:	SEC.32-T1N-R66W	TVD Reference:	WELL @ 5031.0ft (RKB - 12')
Reference Site:	SRC Phelps 11-32CHZ Pad Sec.32-T1N-R66W	MD Reference:	WELL @ 5031.0ft (RKB - 12')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Phelps A-32CHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-14-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5031.0ft (RKB - 12')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

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



LEGEND

2-32NHZ, Wellbore #1, Plan #2 (11-12-13) V* SRC Phelps 12-32CHZ, Wellbore #1, Plan #2 (11-12-13) V* SRC Phelps A-32NHZ, Wellbore #1, 1-32NHZ, Wellbore #1, Plan #2 (11-11-13) V* SRC Phelps 11-32CHZ, Wellbore #1, Plan #2 (11-12-13) V*