

Synergy Resources

Well Name: **SRC Cannon S-16NHZ**

Surface Location: SRC Cannon Pad Sec.16-T4N-R68W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

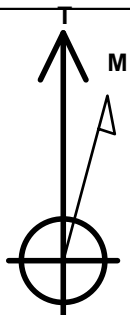
Ground Elevation: 4931.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1355891.57	3139483.25	40.309243	-104.999848	

Original Well Elev WELL @ 4944.0ft (Original Well Elev)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 1129'FSL & 280'FEL	1.0	0.0	0.0	Point
BHL 1288'FSL & 475'FWL	6210.0	115.9	-4534.0	Point



Azimuths to True North
Magnetic North: 8.54°

Magnetic Field
Strength: 52714.4nT
Dip Angle: 66.83°
Date: 9/19/2014
Model: IGRF2010

SRC Cannon Pad Sec.16-T4N-R68W
SRC Cannon S-16NHZ
Plan #1 (10-20-14)
13:39, October 21 2014

ANNOTATIONS

TVD	MD	Annotation
1600.0	1600.0	KOP - Start Build 2.00
3961.6	3976.7	Start Drop -2.00
5493.8	5509.6	KOP #2 - Start Build 8.00
6210.0	10682.6	TD at 10682.6

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

3000
1500
0

Sec.16-T4N-R68W

460' Setback

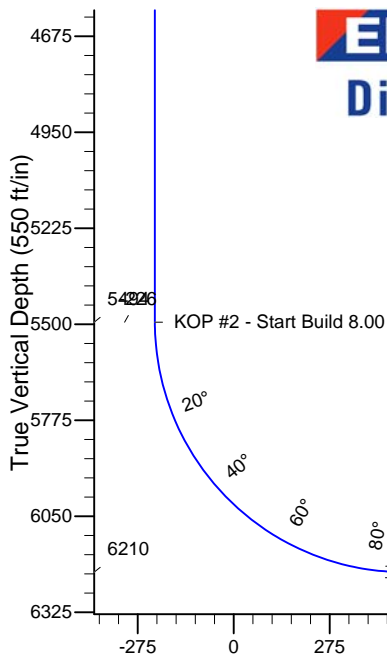
**Casing Pt. 1283'FSL
& 766'FEL**

BHL 1288'FSL & 475'FWL

SRC Cannon S-16NHZ

SHL 1129'FSL & 280'FEL

West(-)/East(+) (1500 ft/in)



ENSIGN
Directional

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1600.0	0.00	0.00	1600.0	0.0	0.0	0.00	0.00	0.0	
3	1939.1	6.78	55.01	1938.4	11.5	16.4	2.00	55.01	-16.1	
4	3976.7	6.78	55.01	3961.6	149.5	213.6	0.00	0.00	-209.7	
5	4315.8	0.00	0.00	4300.0	161.0	230.0	2.00	180.00	-225.8	
6	5509.6	0.00	0.00	5493.8	161.0	230.0	0.00	0.00	-225.8	
7	6634.6	90.00	269.46	6210.0	154.2	-486.2	8.00	269.46	489.9	
8	10682.6	90.00	269.46	6210.0	115.9	-4534.0	0.00	0.00	4535.5	BHL 1288'FSL & 475'FWL

BHL 1288'FSL & 475'FWL

TD at 10682.6

Vertical Section at 271.46° (550 ft/in)



Synergy Resources

SEC.16-T4N-R68W

SRC Cannon Pad Sec.16-T4N-R68W

SRC Cannon S-16NHZ

Wellbore #1

Plan: Plan #1 (10-20-14)

Standard Planning Report

21 October, 2014

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	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,939.1	6.78	55.01	1,938.4	11.5	16.4	2.00	2.00	0.00	55.01	
3,976.7	6.78	55.01	3,961.6	149.5	213.6	0.00	0.00	0.00	0.00	
4,315.8	0.00	0.00	4,300.0	161.0	230.0	2.00	-2.00	0.00	180.00	
5,509.6	0.00	0.00	5,493.8	161.0	230.0	0.00	0.00	0.00	0.00	
6,634.6	90.00	269.46	6,210.0	154.2	-486.2	8.00	8.00	0.00	269.46	
10,682.6	90.00	269.46	6,210.0	115.9	-4,534.0	0.00	0.00	0.00	0.00	BHL 1288'FSL & 47

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Cannon S-16NHZ
Company:	Synergy Resources	TVD Reference:	WELL @ 4944.0ft (Original Well Elev)
Project:	SEC.16-T4N-R68W	MD Reference:	WELL @ 4944.0ft (Original Well Elev)
Site:	SRC Cannon Pad Sec.16-T4N-R68W	North Reference:	True
Well:	SRC Cannon S-16NHZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (10-20-14)		

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
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
KOP - Start Build 2.00									
1,700.0	2.00	55.01	1,700.0	1.0	1.4	-1.4	2.00	2.00	0.00
1,800.0	4.00	55.01	1,799.8	4.0	5.7	-5.6	2.00	2.00	0.00
1,900.0	6.00	55.01	1,899.5	9.0	12.9	-12.6	2.00	2.00	0.00
1,939.1	6.78	55.01	1,938.4	11.5	16.4	-16.1	2.00	2.00	0.00
2,000.0	6.78	55.01	1,998.8	15.6	22.3	-21.9	0.00	0.00	0.00
2,100.0	6.78	55.01	2,098.1	22.4	32.0	-31.4	0.00	0.00	0.00
2,200.0	6.78	55.01	2,197.4	29.2	41.7	-40.9	0.00	0.00	0.00
2,300.0	6.78	55.01	2,296.7	35.9	51.3	-50.4	0.00	0.00	0.00
2,400.0	6.78	55.01	2,396.0	42.7	61.0	-59.9	0.00	0.00	0.00
2,500.0	6.78	55.01	2,495.3	49.5	70.7	-69.4	0.00	0.00	0.00
2,600.0	6.78	55.01	2,594.6	56.3	80.4	-78.9	0.00	0.00	0.00
2,700.0	6.78	55.01	2,693.9	63.0	90.0	-88.4	0.00	0.00	0.00
2,800.0	6.78	55.01	2,793.2	69.8	99.7	-97.9	0.00	0.00	0.00
2,900.0	6.78	55.01	2,892.5	76.6	109.4	-107.4	0.00	0.00	0.00
3,000.0	6.78	55.01	2,991.8	83.3	119.1	-116.9	0.00	0.00	0.00
3,100.0	6.78	55.01	3,091.1	90.1	128.7	-126.4	0.00	0.00	0.00
3,200.0	6.78	55.01	3,190.4	96.9	138.4	-135.9	0.00	0.00	0.00
3,300.0	6.78	55.01	3,289.7	103.7	148.1	-145.4	0.00	0.00	0.00
3,400.0	6.78	55.01	3,389.0	110.4	157.8	-154.9	0.00	0.00	0.00
3,500.0	6.78	55.01	3,488.3	117.2	167.4	-164.4	0.00	0.00	0.00
3,600.0	6.78	55.01	3,587.6	124.0	177.1	-173.9	0.00	0.00	0.00
3,700.0	6.78	55.01	3,686.9	130.8	186.8	-183.4	0.00	0.00	0.00
3,800.0	6.78	55.01	3,786.2	137.5	196.5	-192.9	0.00	0.00	0.00
3,900.0	6.78	55.01	3,885.5	144.3	206.2	-202.4	0.00	0.00	0.00
3,976.7	6.78	55.01	3,961.6	149.5	213.6	-209.7	0.00	0.00	0.00
Start Drop -2.00									
4,000.0	6.32	55.01	3,984.8	151.0	215.8	-211.8	2.00	-2.00	0.00
4,100.0	4.32	55.01	4,084.4	156.3	223.3	-219.3	2.00	-2.00	0.00
4,200.0	2.32	55.01	4,184.2	159.7	228.1	-223.9	2.00	-2.00	0.00
4,300.0	0.32	55.01	4,284.2	161.0	230.0	-225.8	2.00	-2.00	0.00
4,315.8	0.00	0.00	4,300.0	161.0	230.0	-225.8	2.00	-2.00	0.00
4,400.0	0.00	0.00	4,384.2	161.0	230.0	-225.8	0.00	0.00	0.00
4,500.0	0.00	0.00	4,484.2	161.0	230.0	-225.8	0.00	0.00	0.00
4,600.0	0.00	0.00	4,584.2	161.0	230.0	-225.8	0.00	0.00	0.00
4,700.0	0.00	0.00	4,684.2	161.0	230.0	-225.8	0.00	0.00	0.00
4,800.0	0.00	0.00	4,784.2	161.0	230.0	-225.8	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Cannon S-16NHZ
Company:	Synergy Resources	TVD Reference:	WELL @ 4944.0ft (Original Well Elev)
Project:	SEC.16-T4N-R68W	MD Reference:	WELL @ 4944.0ft (Original Well Elev)
Site:	SRC Cannon Pad Sec.16-T4N-R68W	North Reference:	True
Well:	SRC Cannon S-16NHZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (10-20-14)		

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	0.00	0.00	4,884.2	161.0	230.0	-225.8	0.00	0.00	0.00
5,000.0	0.00	0.00	4,984.2	161.0	230.0	-225.8	0.00	0.00	0.00
5,100.0	0.00	0.00	5,084.2	161.0	230.0	-225.8	0.00	0.00	0.00
5,200.0	0.00	0.00	5,184.2	161.0	230.0	-225.8	0.00	0.00	0.00
5,300.0	0.00	0.00	5,284.2	161.0	230.0	-225.8	0.00	0.00	0.00
5,400.0	0.00	0.00	5,384.2	161.0	230.0	-225.8	0.00	0.00	0.00
5,500.0	0.00	0.00	5,484.2	161.0	230.0	-225.8	0.00	0.00	0.00
5,509.6	0.00	0.00	5,493.8	161.0	230.0	-225.8	0.00	0.00	0.00
KOP #2 - Start Build 8.00									
5,600.0	7.23	269.46	5,583.9	160.9	224.3	-220.1	8.00	8.00	0.00
5,700.0	15.23	269.46	5,681.9	160.8	204.9	-200.7	8.00	8.00	0.00
5,800.0	23.23	269.46	5,776.3	160.5	171.9	-167.8	8.00	8.00	0.00
5,900.0	31.23	269.46	5,865.1	160.0	126.2	-122.1	8.00	8.00	0.00
6,000.0	39.23	269.46	5,946.7	159.5	68.6	-64.5	8.00	8.00	0.00
6,100.0	47.23	269.46	6,019.5	158.8	0.2	3.9	8.00	8.00	0.00
6,200.0	55.23	269.46	6,082.1	158.1	-77.7	81.7	8.00	8.00	0.00
6,300.0	63.23	269.46	6,133.2	157.3	-163.6	167.5	8.00	8.00	0.00
6,400.0	71.23	269.46	6,171.9	156.4	-255.7	259.6	8.00	8.00	0.00
6,500.0	79.23	269.46	6,197.4	155.5	-352.3	356.2	8.00	8.00	0.00
6,600.0	87.23	269.46	6,209.2	154.5	-451.5	455.3	8.00	8.00	0.00
6,634.6	90.00	269.46	6,210.0	154.2	-486.1	489.9	8.00	8.00	0.00
7"									
6,700.0	90.00	269.46	6,210.0	153.6	-551.5	555.3	0.01	0.01	0.00
6,800.0	90.00	269.46	6,210.0	152.7	-651.5	655.2	0.00	0.00	0.00
6,900.0	90.00	269.46	6,210.0	151.7	-751.5	755.1	0.00	0.00	0.00
7,000.0	90.00	269.46	6,210.0	150.8	-851.5	855.1	0.00	0.00	0.00
7,100.0	90.00	269.46	6,210.0	149.8	-951.5	955.0	0.00	0.00	0.00
7,200.0	90.00	269.46	6,210.0	148.9	-1,051.5	1,055.0	0.00	0.00	0.00
7,300.0	90.00	269.46	6,210.0	147.9	-1,151.5	1,154.9	0.00	0.00	0.00
7,400.0	90.00	269.46	6,210.0	147.0	-1,251.5	1,254.8	0.00	0.00	0.00
7,500.0	90.00	269.46	6,210.0	146.0	-1,351.5	1,354.8	0.00	0.00	0.00
7,600.0	90.00	269.46	6,210.0	145.1	-1,451.5	1,454.7	0.00	0.00	0.00
7,700.0	90.00	269.46	6,210.0	144.1	-1,551.5	1,554.6	0.00	0.00	0.00
7,800.0	90.00	269.46	6,210.0	143.2	-1,651.5	1,654.6	0.00	0.00	0.00
7,900.0	90.00	269.46	6,210.0	142.2	-1,751.5	1,754.5	0.00	0.00	0.00
8,000.0	90.00	269.46	6,210.0	141.3	-1,851.5	1,854.5	0.00	0.00	0.00
8,100.0	90.00	269.46	6,210.0	140.4	-1,951.5	1,954.4	0.00	0.00	0.00
8,200.0	90.00	269.46	6,210.0	139.4	-2,051.4	2,054.3	0.00	0.00	0.00
8,300.0	90.00	269.46	6,210.0	138.5	-2,151.4	2,154.3	0.00	0.00	0.00
8,400.0	90.00	269.46	6,210.0	137.5	-2,251.4	2,254.2	0.00	0.00	0.00
8,500.0	90.00	269.46	6,210.0	136.6	-2,351.4	2,354.2	0.00	0.00	0.00
8,600.0	90.00	269.46	6,210.0	135.6	-2,451.4	2,454.1	0.00	0.00	0.00
8,700.0	90.00	269.46	6,210.0	134.7	-2,551.4	2,554.0	0.00	0.00	0.00
8,800.0	90.00	269.46	6,210.0	133.7	-2,651.4	2,654.0	0.00	0.00	0.00
8,900.0	90.00	269.46	6,210.0	132.8	-2,751.4	2,753.9	0.00	0.00	0.00
9,000.0	90.00	269.46	6,210.0	131.8	-2,851.4	2,853.9	0.00	0.00	0.00
9,100.0	90.00	269.46	6,210.0	130.9	-2,951.4	2,953.8	0.00	0.00	0.00
9,200.0	90.00	269.46	6,210.0	129.9	-3,051.4	3,053.7	0.00	0.00	0.00
9,300.0	90.00	269.46	6,210.0	129.0	-3,151.4	3,153.7	0.00	0.00	0.00
9,400.0	90.00	269.46	6,210.0	128.0	-3,251.4	3,253.6	0.00	0.00	0.00
9,500.0	90.00	269.46	6,210.0	127.1	-3,351.4	3,353.5	0.00	0.00	0.00
9,600.0	90.00	269.46	6,210.0	126.2	-3,451.4	3,453.5	0.00	0.00	0.00
9,700.0	90.00	269.46	6,210.0	125.2	-3,551.4	3,553.4	0.00	0.00	0.00
9,800.0	90.00	269.46	6,210.0	124.3	-3,651.4	3,653.4	0.00	0.00	0.00

Plan Annotations					
	Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
			+N/-S	+E/-W	
			(ft)	(ft)	
	1,600.0	1,600.0	0.0	0.0	KOP - Start Build 2.00
	3,976.7	3,961.6	149.5	213.6	Start Drop -2.00
	5,509.6	5,493.8	161.0	230.0	KOP #2 - Start Build 8.00
	10,682.6	6,210.0	115.9	-4,533.9	TD at 10682.6



Synergy Resources

SEC.16-T4N-R68W

SRC Cannon Pad Sec.16-T4N-R68W

SRC Cannon S-16NHZ

Wellbore #1

Plan #1 (10-20-14)

Anticollision Report

21 October, 2014

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Cannon S-16NHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4944.0ft (Original Well Elev)
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4944.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon S-16NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-20-14)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (10-20-14)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 10/21/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	10,682.6	Plan #1 (10-20-14) (Wellbore #1)	MWD	MWD - Standard

Summary						
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 Cannon Pad Sec.16-T4N-R68W						
SRC Cannon 13-16CHZ - Wellbore #1 - Plan #1 (10-20-1	766.3	767.3	67.4	64.2	20.909	CC
SRC Cannon 13-16CHZ - Wellbore #1 - Plan #1 (10-20-1	800.0	800.0	67.4	64.0	19.986	ES
SRC Cannon 13-16CHZ - Wellbore #1 - Plan #1 (10-20-1	10,682.6	10,886.3	676.4	423.8	2.678	SF
SRC Cannon 13-16NHZ - Wellbore #1 - Plan #1 (10-20-1	366.0	368.0	90.0	88.6	63.149	CC
SRC Cannon 13-16NHZ - Wellbore #1 - Plan #1 (10-20-1	400.0	401.9	90.0	88.4	57.035	ES
SRC Cannon 13-16NHZ - Wellbore #1 - Plan #1 (10-20-1	10,682.6	10,771.1	879.8	620.8	3.397	SF
SRC Cannon H-16CHZ - Wellbore #1 - Plan #1 (10-20-1	1,400.0	1,400.0	22.6	16.5	3.722	CC, ES
SRC Cannon H-16CHZ - Wellbore #1 - Plan #1 (10-20-1	10,682.6	10,845.1	266.3	49.6	1.229	Level 2, SF
SRC Cannon H-16NHZ - Wellbore #1 - Plan #1 (10-20-1	966.3	967.3	44.8	40.7	10.867	CC
SRC Cannon H-16NHZ - Wellbore #1 - Plan #1 (10-20-1	1,000.0	1,001.0	44.8	40.5	10.483	ES
SRC Cannon H-16NHZ - Wellbore #1 - Plan #1 (10-20-1	10,682.6	10,712.2	439.7	180.7	1.698	SF
SRC Cannon K-16CHZ - Wellbore #1 - Plan #1 (10-20-14	166.0	168.0	112.6	112.0	214.058	CC
SRC Cannon K-16CHZ - Wellbore #1 - Plan #1 (10-20-14	200.0	201.9	112.6	111.9	165.879	ES
SRC Cannon K-16CHZ - Wellbore #1 - Plan #1 (10-20-14	4,400.0	4,280.4	906.0	876.6	30.845	SF
SRC Cannon S-16CHZ - Wellbore #1 - Plan #1 (10-20-14	1,600.0	1,600.0	22.6	15.6	3.244	CC, ES
SRC Cannon S-16CHZ - Wellbore #1 - Plan #1 (10-20-14	10,682.6	10,826.3	266.3	48.2	1.221	Level 2, SF

Offset Design												
SRC Cannon Pad Sec.16-T4N-R68W - SRC Cannon 13-16CHZ - Wellbore #1 - Plan #1 (10-20-14)												
Survey Program: 0-MWD												
Reference		Offset		Semi Major Axis			Distance					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
0.0	0.0	1.0	1.0	0.0	0.0	0.00	67.4	0.0	67.4	67.4	0.00	N/A
100.0	100.0	101.0	101.0	0.1	0.1	0.00	67.4	0.0	67.4	67.1	0.23	296.793
200.0	200.0	201.0	201.0	0.3	0.3	0.00	67.4	0.0	67.4	66.7	0.68	99.588
300.0	300.0	301.0	301.0	0.6	0.6	0.00	67.4	0.0	67.4	66.3	1.13	59.833
400.0	400.0	401.0	401.0	0.8	0.8	0.00	67.4	0.0	67.4	65.8	1.58	42.762
500.0	500.0	501.0	501.0	1.0	1.0	0.00	67.4	0.0	67.4	65.4	2.03	33.270
600.0	600.0	601.0	601.0	1.2	1.2	0.00	67.4	0.0	67.4	64.9	2.47	27.226
700.0	700.0	701.0	701.0	1.5	1.5	0.00	67.4	0.0	67.4	64.5	2.92	23.041
766.3	766.3	767.3	767.3	1.6	1.6	0.00	67.4	0.0	67.4	64.2	3.22	20.909 CC
800.0	800.0	800.0	800.0	1.7	1.7	0.00	67.4	0.0	67.4	64.0	3.37	19.986 ES
900.0	900.0	898.7	898.7	1.9	1.9	0.41	69.0	0.5	69.0	65.2	3.82	18.088
1,000.0	1,000.0	996.3	996.1	2.1	2.1	1.53	73.8	2.0	74.0	69.7	4.26	17.364

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

SRC Cannon Pad Sec.16-T4N-R68W - SRC Cannon 13-16CHZ - Wellbore #1 - Plan #1 (10-20-14)													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		
1,100.0	1,100.0	1,093.4	1,092.8	2.4	2.4	3.08	81.7	4.4	82.2	77.5	4.71	17.457		
1,200.0	1,200.0	1,189.8	1,188.6	2.6	2.6	4.78	92.7	7.7	93.8	88.7	5.17	18.136		
1,300.0	1,300.0	1,285.3	1,283.0	2.8	2.9	6.42	106.6	12.0	108.8	103.1	5.66	19.230		
1,400.0	1,400.0	1,381.6	1,377.7	3.0	3.1	7.90	123.3	17.1	126.6	120.5	6.16	20.549		
1,500.0	1,500.0	1,479.9	1,474.3	3.3	3.5	9.07	140.8	22.5	145.1	138.4	6.69	21.677		
1,600.0	1,600.0	1,578.1	1,570.8	3.5	3.8	9.97	158.3	27.8	163.5	156.3	7.23	22.613		
1,700.0	1,700.0	1,676.6	1,667.6	3.7	4.2	-44.47	175.8	33.2	180.8	173.3	7.44	24.281		
1,800.0	1,799.8	1,775.5	1,764.7	3.9	4.5	-44.71	193.4	38.6	195.6	187.7	7.90	24.757		
1,900.0	1,899.5	1,874.7	1,862.1	4.1	4.9	-45.61	211.0	44.0	208.0	199.6	8.37	24.862		
2,000.0	1,998.8	1,974.0	1,959.7	4.4	5.3	-47.04	228.7	49.4	218.5	209.7	8.85	24.690		
2,100.0	2,098.1	2,073.3	2,057.3	4.6	5.6	-48.45	246.4	54.8	229.0	219.6	9.35	24.493		
2,200.0	2,197.4	2,172.6	2,154.8	4.9	6.0	-49.74	264.0	60.2	239.6	229.7	9.86	24.303		
2,300.0	2,296.7	2,271.9	2,252.4	5.1	6.4	-50.91	281.7	65.6	250.3	239.9	10.38	24.121		
2,400.0	2,396.0	2,371.1	2,349.9	5.4	6.8	-51.99	299.4	71.0	261.1	250.2	10.91	23.945		
2,500.0	2,495.3	2,470.4	2,447.5	5.7	7.2	-52.99	317.1	76.4	272.0	260.6	11.44	23.777		
2,600.0	2,594.6	2,569.7	2,545.1	5.9	7.6	-53.90	334.7	81.8	283.0	271.0	11.98	23.616		
2,700.0	2,693.9	2,669.0	2,642.6	6.2	8.0	-54.75	352.4	87.2	294.1	281.5	12.53	23.462		
2,800.0	2,793.2	2,768.3	2,740.2	6.5	8.4	-55.54	370.1	92.6	305.2	292.1	13.09	23.314		
2,900.0	2,892.5	2,867.6	2,837.8	6.8	8.8	-56.27	387.7	98.0	316.3	302.7	13.65	23.174		
3,000.0	2,991.8	2,966.9	2,935.3	7.1	9.2	-56.95	405.4	103.5	327.5	313.3	14.22	23.039		
3,100.0	3,091.1	3,066.2	3,032.9	7.4	9.5	-57.59	423.1	108.9	338.7	324.0	14.79	22.911		
3,200.0	3,190.4	3,165.5	3,130.5	7.6	9.9	-58.19	440.7	114.3	350.0	334.7	15.36	22.789		
3,300.0	3,289.7	3,264.8	3,228.0	7.9	10.3	-58.74	458.4	119.7	361.3	345.4	15.94	22.672		
3,400.0	3,389.0	3,364.1	3,325.6	8.2	10.7	-59.27	476.1	125.1	372.7	356.2	16.52	22.561		
3,500.0	3,488.3	3,463.4	3,423.1	8.5	11.1	-59.76	493.7	130.5	384.1	367.0	17.10	22.455		
3,600.0	3,587.6	3,562.7	3,520.7	8.8	11.5	-60.23	511.4	135.9	395.5	377.8	17.69	22.353		
3,700.0	3,686.9	3,662.0	3,618.3	9.1	11.9	-60.67	529.1	141.3	406.9	388.6	18.28	22.257		
3,800.0	3,786.2	3,761.3	3,715.8	9.4	12.3	-61.08	546.8	146.7	418.4	399.5	18.88	22.164		
3,900.0	3,885.5	3,860.6	3,813.4	9.7	12.7	-61.47	564.4	152.1	429.8	410.4	19.47	22.076		
4,000.0	3,984.8	3,959.9	3,911.0	10.0	13.2	-61.88	582.1	157.5	441.4	421.3	20.06	22.004		
4,100.0	4,084.4	4,059.1	4,008.4	10.2	13.6	-62.18	599.7	162.9	454.1	433.5	20.56	22.085		
4,200.0	4,184.2	4,158.0	4,105.6	10.4	14.0	-62.11	617.3	168.3	468.4	447.4	21.01	22.288		
4,300.0	4,284.2	4,256.6	4,202.4	10.6	14.4	-61.73	634.9	173.7	484.4	462.9	21.42	22.611		
4,400.0	4,384.2	4,354.8	4,299.0	10.8	14.8	-5.92	652.4	179.0	501.5	477.4	24.07	20.834		
4,500.0	4,484.2	4,453.1	4,395.5	11.0	15.1	-5.12	669.8	184.4	518.7	494.0	24.71	20.991		
4,600.0	4,584.2	4,551.4	4,492.1	11.2	15.5	-4.37	687.3	189.7	536.0	510.7	25.35	21.145		
4,700.0	4,684.2	4,649.6	4,588.6	11.4	15.9	-3.67	704.8	195.1	553.4	527.4	25.99	21.295		
4,800.0	4,784.2	4,747.9	4,685.1	11.6	16.3	-3.01	722.3	200.4	570.9	544.3	26.63	21.442		
4,900.0	4,884.2	4,846.1	4,781.7	11.8	16.7	-2.40	739.8	205.8	588.5	561.2	27.26	21.586		
5,000.0	4,984.2	4,944.4	4,878.2	12.0	17.1	-1.81	757.3	211.1	606.1	578.2	27.90	21.726		
5,100.0	5,084.2	5,044.7	4,976.8	12.2	17.5	-1.25	775.1	216.6	623.7	595.2	28.53	21.860		
5,200.0	5,184.2	5,169.6	5,100.1	12.4	17.9	-0.68	794.4	222.5	639.1	609.9	29.16	21.916		
5,300.0	5,284.2	5,296.1	5,225.7	12.6	18.3	-0.28	808.6	226.8	650.3	620.6	29.71	21.889		
5,400.0	5,384.2	5,423.7	5,352.9	12.8	18.5	-0.04	817.6	229.6	657.4	627.2	30.19	21.776		
5,500.0	5,484.2	5,551.8	5,481.0	13.0	18.7	0.06	821.1	230.7	660.1	629.5	30.60	21.572		
5,600.0	5,583.9	5,655.8	5,584.9	13.1	18.8	91.09	821.2	230.7	660.3	633.5	26.77	24.664		
5,700.0	5,681.9	5,755.6	5,684.7	13.2	19.0	92.63	821.2	229.5	660.9	633.9	26.93	24.539		
5,800.0	5,776.3	5,859.5	5,787.6	13.3	19.1	94.37	821.0	216.1	662.1	635.1	27.00	24.521		
5,900.0	5,865.1	5,966.7	5,890.7	13.3	19.1	96.04	820.8	186.8	664.0	636.9	27.08	24.519		
6,000.0	5,946.7	6,077.4	5,991.3	13.5	19.1	97.62	820.3	140.8	666.2	638.9	27.27	24.428		
6,100.0	6,019.5	6,191.7	6,086.4	13.8	19.1	99.05	819.7	77.6	668.7	640.9	27.73	24.109		
6,200.0	6,082.1	6,309.4	6,172.5	14.4	19.1	100.30	818.9	-2.4	671.1	642.5	28.67	23.408		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Cannon S-16NHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4944.0ft (Original Well Elev)
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4944.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon S-16NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-20-14)	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	
6,300.0	6,133.2	6,430.1	6,246.1	15.4	19.2	101.33	818.0	-97.9	673.4	643.1	30.27	22.247	
6,400.0	6,171.9	6,553.4	6,303.6	16.7	19.5	102.10	817.0	-206.8	675.2	642.5	32.66	20.675	
6,500.0	6,197.4	6,678.6	6,342.0	18.4	20.4	102.57	815.9	-325.8	676.3	640.5	35.86	18.860	
6,600.0	6,209.2	6,804.7	6,359.1	20.3	22.2	102.73	814.7	-450.6	676.7	637.0	39.72	17.035	
6,700.0	6,210.0	6,912.0	6,360.0	22.3	24.2	102.72	813.6	-557.8	676.7	632.9	43.78	15.455	
6,800.0	6,210.0	7,012.0	6,360.0	24.6	26.2	102.72	812.7	-657.8	676.7	628.6	48.04	14.084	
6,900.0	6,210.0	7,112.0	6,360.0	26.9	28.4	102.72	811.7	-757.8	676.7	624.1	52.53	12.881	
7,000.0	6,210.0	7,212.0	6,360.0	29.3	30.7	102.72	810.8	-857.8	676.7	619.5	57.19	11.831	
7,100.0	6,210.0	7,312.0	6,360.0	31.8	33.0	102.72	809.8	-957.8	676.6	614.7	61.99	10.916	
7,200.0	6,210.0	7,412.0	6,360.0	34.3	35.5	102.72	808.9	-1,057.8	676.6	609.7	66.89	10.116	
7,300.0	6,210.0	7,512.0	6,360.0	36.9	38.0	102.72	807.9	-1,157.8	676.6	604.8	71.87	9.415	
7,400.0	6,210.0	7,612.0	6,360.0	39.4	40.5	102.72	807.0	-1,257.8	676.6	599.7	76.92	8.796	
7,500.0	6,210.0	7,712.0	6,360.0	42.1	43.0	102.72	806.0	-1,357.8	676.6	594.6	82.03	8.249	
7,600.0	6,210.0	7,812.0	6,360.0	44.7	45.6	102.72	805.0	-1,457.8	676.6	589.4	87.18	7.761	
7,700.0	6,210.0	7,912.0	6,360.0	47.4	48.2	102.72	804.1	-1,557.8	676.6	584.2	92.37	7.325	
7,800.0	6,210.0	8,012.0	6,360.0	50.1	50.9	102.72	803.1	-1,657.8	676.6	579.0	97.59	6.933	
7,900.0	6,210.0	8,112.0	6,360.0	52.7	53.5	102.72	802.2	-1,757.8	676.6	573.7	102.83	6.579	
8,000.0	6,210.0	8,212.0	6,360.0	55.5	56.2	102.72	801.2	-1,857.8	676.6	568.5	108.10	6.258	
8,100.0	6,210.0	8,312.0	6,360.0	58.2	58.9	102.72	800.3	-1,957.8	676.6	563.2	113.39	5.966	
8,200.0	6,210.0	8,412.0	6,360.0	60.9	61.6	102.72	799.3	-2,057.8	676.5	557.8	118.70	5.700	
8,300.0	6,210.0	8,512.0	6,360.0	63.6	64.3	102.72	798.4	-2,157.7	676.5	552.5	124.02	5.455	
8,400.0	6,210.0	8,612.0	6,360.0	66.3	67.0	102.72	797.4	-2,257.7	676.5	547.2	129.36	5.230	
8,500.0	6,210.0	8,712.0	6,360.0	69.1	69.7	102.72	796.4	-2,357.7	676.5	541.8	134.71	5.022	
8,600.0	6,210.0	8,812.0	6,360.0	71.8	72.4	102.72	795.5	-2,457.7	676.5	536.4	140.06	4.830	
8,700.0	6,210.0	8,912.0	6,360.0	74.6	75.1	102.72	794.5	-2,557.7	676.5	531.1	145.43	4.652	
8,800.0	6,210.0	9,012.0	6,360.0	77.3	77.9	102.72	793.6	-2,657.7	676.5	525.7	150.80	4.486	
8,900.0	6,210.0	9,112.0	6,360.0	80.1	80.6	102.72	792.6	-2,757.7	676.5	520.3	156.18	4.331	
9,000.0	6,210.0	9,212.0	6,360.0	82.9	83.4	102.72	791.7	-2,857.7	676.5	514.9	161.57	4.187	
9,100.0	6,210.0	9,312.0	6,360.0	85.6	86.1	102.72	790.7	-2,957.7	676.5	509.5	166.97	4.052	
9,200.0	6,210.0	9,412.0	6,360.0	88.4	88.9	102.72	789.8	-3,057.7	676.5	504.1	172.36	3.925	
9,300.0	6,210.0	9,512.0	6,360.0	91.2	91.6	102.72	788.8	-3,157.7	676.4	498.7	177.77	3.805	
9,400.0	6,210.0	9,612.0	6,360.0	93.9	94.4	102.72	787.8	-3,257.7	676.4	493.3	183.18	3.693	
9,500.0	6,210.0	9,712.0	6,360.0	96.7	97.1	102.73	786.9	-3,357.7	676.4	487.8	188.59	3.587	
9,600.0	6,210.0	9,812.0	6,360.0	99.5	99.9	102.73	785.9	-3,457.7	676.4	482.4	194.01	3.487	
9,700.0	6,210.0	9,912.0	6,360.0	102.2	102.6	102.73	785.0	-3,557.7	676.4	477.0	199.42	3.392	
9,800.0	6,210.0	10,012.0	6,360.0	105.0	105.4	102.73	784.0	-3,657.7	676.4	471.6	204.85	3.302	
9,900.0	6,210.0	10,112.0	6,360.0	107.8	108.2	102.73	783.1	-3,757.7	676.4	466.1	210.27	3.217	
10,000.0	6,210.0	10,212.0	6,360.0	110.6	111.0	102.73	782.1	-3,857.7	676.4	460.7	215.70	3.136	
10,100.0	6,210.0	10,312.0	6,360.0	113.4	113.7	102.73	781.2	-3,957.7	676.4	455.2	221.13	3.059	
10,200.0	6,210.0	10,412.0	6,360.0	116.1	116.5	102.73	780.2	-4,057.7	676.4	449.8	226.57	2.985	
10,300.0	6,210.0	10,512.0	6,360.0	118.9	119.3	102.73	779.2	-4,157.7	676.4	444.4	232.00	2.915	
10,400.0	6,210.0	10,612.0	6,360.0	121.7	122.0	102.73	778.3	-4,257.7	676.4	438.9	237.44	2.849	
10,500.0	6,210.0	10,712.0	6,360.0	124.5	124.8	102.73	777.3	-4,357.6	676.3	433.5	242.88	2.785	
10,600.0	6,210.0	10,812.0	6,360.0	127.3	127.6	102.73	776.4	-4,457.6	676.3	428.0	248.32	2.724	
10,657.3	6,210.0	10,869.4	6,360.0	128.9	129.2	102.73	775.8	-4,515.0	676.3	424.9	251.44	2.690	
10,682.6	6,210.0	10,886.3	6,360.0	129.6	129.7	102.73	775.7	-4,531.9	676.4	423.8	252.59	2.678 SF	

SRC Cannon Pad Sec.16-T4N-R68W - SRC Cannon 13-16NHZ - Wellbore #1 - Plan #1 (10-20-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.0	0.0	2.0	2.0	0.0	0.0	0.18	90.0	0.3	90.0	90.0	0.00	N/A		
100.0	100.0	102.0	102.0	0.1	0.1	0.18	90.0	0.3	90.0	89.8	0.23	392.496		
200.0	200.0	202.0	202.0	0.3	0.3	0.18	90.0	0.3	90.0	89.3	0.68	132.565		
300.0	300.0	302.0	302.0	0.6	0.6	0.18	90.0	0.3	90.0	88.9	1.13	79.750		
366.0	366.0	368.0	368.0	0.7	0.7	0.18	90.0	0.3	90.0	88.6	1.42	63.149 CC		
400.0	400.0	401.9	401.9	0.8	0.8	0.18	90.0	0.3	90.0	88.4	1.58	57.035 ES		
500.0	500.0	500.0	500.0	1.0	1.0	0.43	91.7	0.7	91.7	89.7	2.02	45.347		
600.0	600.0	595.7	595.6	1.2	1.2	1.10	96.5	1.9	96.7	94.2	2.47	39.229		
700.0	700.0	692.0	691.5	1.5	1.5	2.08	104.4	3.8	105.0	102.1	2.92	35.955		
800.0	800.0	787.7	786.5	1.7	1.7	3.20	115.4	6.5	116.7	113.3	3.39	34.363		
900.0	900.0	882.5	880.2	1.9	2.0	4.35	129.4	9.8	131.6	127.7	3.89	33.798		
1,000.0	1,000.0	976.3	972.4	2.1	2.3	5.44	146.1	13.9	149.7	145.3	4.42	33.886		
1,100.0	1,100.0	1,070.0	1,063.9	2.4	2.7	6.43	165.7	18.7	171.0	166.1	4.98	34.374		
1,200.0	1,200.0	1,167.4	1,158.9	2.6	3.1	7.26	186.9	23.8	193.3	187.8	5.57	34.726		
1,300.0	1,300.0	1,264.9	1,253.8	2.8	3.5	7.93	208.2	29.0	215.7	209.5	6.17	34.966		
1,400.0	1,400.0	1,362.3	1,348.8	3.0	3.9	8.47	229.5	34.2	238.0	231.2	6.78	35.130		
1,500.0	1,500.0	1,459.8	1,443.7	3.3	4.3	8.91	250.7	39.3	260.4	253.0	7.39	35.247		
1,600.0	1,600.0	1,557.2	1,538.7	3.5	4.8	9.29	272.0	44.5	282.8	274.8	8.00	35.332		
1,700.0	1,700.0	1,654.9	1,633.9	3.7	5.2	-45.33	293.3	49.7	304.0	296.4	7.59	40.062		
1,800.0	1,799.8	1,753.1	1,729.6	3.9	5.7	-45.43	314.7	54.9	322.7	314.7	8.06	40.025		
1,900.0	1,899.5	1,851.7	1,825.6	4.1	6.1	-45.96	336.2	60.1	339.2	330.6	8.55	39.668		
2,000.0	1,998.8	1,950.4	1,921.9	4.4	6.6	-46.91	357.7	65.3	353.7	344.7	9.05	39.078		
2,100.0	2,098.1	2,049.2	2,018.1	4.6	7.0	-47.89	379.3	70.5	368.2	358.6	9.57	38.494		
2,200.0	2,197.4	2,147.9	2,114.3	4.9	7.5	-48.80	400.8	75.8	382.8	372.7	10.09	37.946		
2,300.0	2,296.7	2,246.7	2,210.6	5.1	8.0	-49.64	422.4	81.0	397.4	386.8	10.62	37.431		
2,400.0	2,396.0	2,345.4	2,306.8	5.4	8.4	-50.42	443.9	86.2	412.2	401.0	11.16	36.947		
2,500.0	2,495.3	2,444.2	2,403.0	5.7	8.9	-51.15	465.4	91.5	427.0	415.3	11.70	36.492		
2,600.0	2,594.6	2,542.9	2,499.3	5.9	9.3	-51.82	487.0	96.7	441.9	429.6	12.25	36.065		
2,700.0	2,693.9	2,641.7	2,595.5	6.2	9.8	-52.46	508.5	101.9	456.8	444.0	12.81	35.662		
2,800.0	2,793.2	2,740.5	2,691.8	6.5	10.3	-53.05	530.1	107.2	471.8	458.4	13.37	35.284		
2,900.0	2,892.5	2,839.2	2,788.0	6.8	10.7	-53.61	551.6	112.4	486.8	472.9	13.94	34.927		
3,000.0	2,991.8	2,938.0	2,884.2	7.1	11.2	-54.13	573.1	117.6	501.9	487.4	14.51	34.591		
3,100.0	3,091.1	3,036.7	2,980.5	7.4	11.6	-54.63	594.7	122.9	517.0	501.9	15.08	34.274		
3,200.0	3,190.4	3,135.5	3,076.7	7.6	12.1	-55.09	616.2	128.1	532.2	516.5	15.66	33.974		
3,300.0	3,289.7	3,234.2	3,172.9	7.9	12.6	-55.53	637.8	133.3	547.3	531.1	16.25	33.691		
3,400.0	3,389.0	3,333.0	3,269.2	8.2	13.0	-55.95	659.3	138.6	562.6	545.7	16.83	33.423		
3,500.0	3,488.3	3,431.7	3,365.4	8.5	13.5	-56.34	680.9	143.8	577.8	560.4	17.42	33.169		
3,600.0	3,587.6	3,530.5	3,461.6	8.8	14.0	-56.72	702.4	149.0	593.1	575.0	18.01	32.928		
3,700.0	3,686.9	3,629.3	3,557.9	9.1	14.4	-57.07	723.9	154.3	608.3	589.7	18.60	32.700		
3,800.0	3,786.2	3,728.0	3,654.1	9.4	14.9	-57.41	745.5	159.5	623.6	604.4	19.20	32.483		
3,900.0	3,885.5	3,826.8	3,750.4	9.7	15.3	-57.73	767.0	164.7	639.0	619.2	19.80	32.277		
4,000.0	3,984.8	3,925.5	3,846.6	10.0	15.8	-58.09	788.6	170.0	654.4	634.0	20.39	32.097		
4,100.0	4,084.4	4,024.1	3,942.7	10.2	16.3	-58.49	810.1	175.2	671.1	650.2	20.89	32.118		
4,200.0	4,184.2	4,122.4	4,038.4	10.4	16.7	-58.65	831.5	180.4	689.5	668.2	21.36	32.284		
4,300.0	4,284.2	4,220.2	4,133.7	10.6	17.2	-58.62	852.8	185.6	709.8	688.1	21.78	32.588		
4,400.0	4,384.2	4,317.6	4,228.7	10.8	17.6	-3.15	874.1	190.7	731.3	704.2	27.13	26.953		
4,500.0	4,484.2	4,415.1	4,323.6	11.0	18.1	-2.66	895.3	195.9	752.9	725.1	27.82	27.061		
4,600.0	4,584.2	4,512.5	4,418.6	11.2	18.6	-2.19	916.6	201.1	774.5	746.0	28.51	27.166		
4,700.0	4,684.2	4,610.0	4,513.6	11.4	19.0	-1.75	937.8	206.2	796.1	767.0	29.20	27.269		
4,800.0	4,784.2	4,707.4	4,608.5	11.6	19.5	-1.34	959.1	211.4	817.8	788.0	29.88	27.369		
4,900.0	4,884.2	4,823.8	4,722.1	11.8	20.0	-0.88	983.8	217.4	839.0	808.4	30.60	27.417		
5,000.0	4,984.2	4,961.8	4,857.9	12.0	20.4	-0.46	1,007.6	223.2	856.3	825.1	31.27	27.385		

COMPASS 2003.21 Build 46

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Cannon S-16NHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4944.0ft (Original Well Elev)
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4944.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon S-16NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-20-14)	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		
5,100.0	5,084.2	5,102.0	4,996.8	12.2	20.8	-0.17	1,025.4	227.5	869.0	837.1	31.86	27.271		
5,200.0	5,184.2	5,243.6	5,138.0	12.4	21.0	0.01	1,036.5	230.2	876.9	844.5	32.37	27.092		
5,300.0	5,284.2	5,386.0	5,280.3	12.6	21.2	0.08	1,040.9	231.3	879.9	847.2	32.78	26.841		
5,400.0	5,384.2	5,491.8	5,386.2	12.8	21.4	0.08	1,041.0	231.3	880.0	846.9	33.12	26.573		
5,500.0	5,484.2	5,591.8	5,486.2	13.0	21.5	0.08	1,041.0	231.3	880.0	846.5	33.45	26.310		
5,600.0	5,583.9	5,693.1	5,587.1	13.1	21.6	90.60	1,040.9	225.2	880.0	852.7	27.27	32.275		
5,700.0	5,681.9	5,794.4	5,686.3	13.2	21.6	90.57	1,040.7	204.9	880.0	852.5	27.46	32.051		
5,800.0	5,776.3	5,895.5	5,781.5	13.3	21.6	90.52	1,040.4	171.0	880.0	852.4	27.59	31.892		
5,900.0	5,865.1	5,996.6	5,870.9	13.3	21.6	90.47	1,040.0	124.0	880.0	852.2	27.77	31.690		
6,000.0	5,946.7	6,097.6	5,952.7	13.5	21.6	90.40	1,039.4	65.0	879.9	851.8	28.12	31.292		
6,100.0	6,019.5	6,198.3	6,025.3	13.8	21.7	90.33	1,038.7	-4.8	879.9	851.1	28.82	30.528		
6,200.0	6,082.1	6,299.0	6,087.3	14.4	21.7	90.25	1,038.0	-84.0	879.9	849.9	30.06	29.276		
6,300.0	6,133.2	6,399.4	6,137.5	15.4	21.9	90.16	1,037.2	-170.8	879.9	848.0	31.94	27.546		
6,400.0	6,171.9	6,499.6	6,175.0	16.7	22.2	90.07	1,036.3	-263.7	879.9	845.4	34.52	25.486		
6,500.0	6,197.4	6,599.7	6,199.2	18.4	22.8	89.98	1,035.4	-360.7	879.9	842.2	37.74	23.316		
6,600.0	6,209.2	6,699.6	6,209.6	20.3	23.9	89.90	1,034.4	-460.0	879.9	838.5	41.45	21.231		
6,700.0	6,210.0	6,799.5	6,210.0	22.3	25.4	89.87	1,033.5	-559.9	879.9	834.4	45.50	19.339		
6,800.0	6,210.0	6,899.5	6,210.0	24.6	27.2	89.87	1,032.5	-659.9	879.9	830.0	49.85	17.651		
6,900.0	6,210.0	6,999.5	6,210.0	26.9	29.3	89.87	1,031.6	-759.9	879.9	825.5	54.43	16.165		
7,000.0	6,210.0	7,099.5	6,210.0	29.3	31.5	89.87	1,030.6	-859.9	879.9	820.7	59.19	14.865		
7,100.0	6,210.0	7,199.5	6,210.0	31.8	33.7	89.87	1,029.7	-959.9	879.9	815.8	64.09	13.729		
7,200.0	6,210.0	7,299.5	6,210.0	34.3	36.1	89.87	1,028.7	-1,059.9	879.9	810.8	69.09	12.735		
7,300.0	6,210.0	7,399.5	6,210.0	36.9	38.5	89.87	1,027.8	-1,159.9	879.9	805.7	74.18	11.861		
7,400.0	6,210.0	7,499.5	6,210.0	39.4	41.0	89.87	1,026.8	-1,259.8	879.9	800.5	79.35	11.089		
7,500.0	6,210.0	7,599.5	6,210.0	42.1	43.6	89.87	1,025.9	-1,359.8	879.9	795.3	84.56	10.405		
7,600.0	6,210.0	7,699.5	6,210.0	44.7	46.1	89.87	1,024.9	-1,459.8	879.9	790.0	89.83	9.795		
7,700.0	6,210.0	7,799.5	6,210.0	47.4	48.7	89.87	1,024.0	-1,559.8	879.9	784.7	95.13	9.249		
7,800.0	6,210.0	7,899.5	6,210.0	50.1	51.3	89.87	1,023.0	-1,659.8	879.9	779.4	100.47	8.757		
7,900.0	6,210.0	7,999.5	6,210.0	52.7	53.9	89.87	1,022.1	-1,759.8	879.9	774.0	105.84	8.313		
8,000.0	6,210.0	8,099.5	6,210.0	55.5	56.6	89.87	1,021.1	-1,859.8	879.8	768.6	111.23	7.910		
8,100.0	6,210.0	8,199.5	6,210.0	58.2	59.3	89.87	1,020.2	-1,959.8	879.8	763.2	116.64	7.543		
8,200.0	6,210.0	8,299.5	6,210.0	60.9	61.9	89.87	1,019.2	-2,059.8	879.8	757.8	122.07	7.208		
8,300.0	6,210.0	8,399.5	6,210.0	63.6	64.6	89.87	1,018.3	-2,159.8	879.8	752.3	127.51	6.900		
8,400.0	6,210.0	8,499.5	6,210.0	66.3	67.3	89.87	1,017.3	-2,259.8	879.8	746.9	132.97	6.617		
8,500.0	6,210.0	8,599.5	6,210.0	69.1	70.0	89.87	1,016.4	-2,359.8	879.8	741.4	138.44	6.355		
8,600.0	6,210.0	8,699.5	6,210.0	71.8	72.7	89.87	1,015.4	-2,459.8	879.8	735.9	143.92	6.113		
8,700.0	6,210.0	8,799.5	6,210.0	74.6	75.4	89.87	1,014.5	-2,559.8	879.8	730.4	149.41	5.889		
8,800.0	6,210.0	8,899.5	6,210.0	77.3	78.2	89.87	1,013.5	-2,659.8	879.8	724.9	154.91	5.680		
8,900.0	6,210.0	8,999.5	6,210.0	80.1	80.9	89.87	1,012.5	-2,759.8	879.8	719.4	160.42	5.485		
9,000.0	6,210.0	9,099.5	6,210.0	82.9	83.6	89.87	1,011.6	-2,859.8	879.8	713.9	165.93	5.302		
9,100.0	6,210.0	9,199.5	6,210.0	85.6	86.4	89.87	1,010.6	-2,959.8	879.8	708.4	171.45	5.132		
9,200.0	6,210.0	9,299.5	6,210.0	88.4	89.1	89.87	1,009.7	-3,059.8	879.8	702.8	176.97	4.971		
9,300.0	6,210.0	9,399.5	6,210.0	91.2	91.9	89.87	1,008.7	-3,159.8	879.8	697.3	182.50	4.821		
9,400.0	6,210.0	9,499.5	6,210.0	93.9	94.6	89.87	1,007.8	-3,259.8	879.8	691.8	188.04	4.679		
9,500.0	6,210.0	9,599.5	6,210.0	96.7	97.4	89.87	1,006.8	-3,359.8	879.8	686.2	193.58	4.545		
9,600.0	6,210.0	9,699.5	6,210.0	99.5	100.1	89.87	1,005.9	-3,459.7	879.8	680.7	199.12	4.418		
9,700.0	6,210.0	9,799.5	6,210.0	102.2	102.9	89.87	1,004.9	-3,559.7	879.8	675.1	204.67	4.299		
9,800.0	6,210.0	9,899.5	6,210.0	105.0	105.6	89.87	1,004.0	-3,659.7	879.8	669.6	210.22	4.185		
9,900.0	6,210.0	9,999.5	6,210.0	107.8	108.4	89.87	1,003.0	-3,759.7	879.8	664.0	215.77	4.077		
10,000.0	6,210.0	10,099.5	6,210.0	110.6	111.2	89.87	1,002.1	-3,859.7	879.8	658.4	221.33	3.975		
10,100.0	6,210.0	10,199.5	6,210.0	113.4	113.9	89.87	1,001.1	-3,959.7	879.8	652.9	226.89	3.878		
10,200.0	6,210.0	10,299.5	6,210.0	116.1	116.7	89.87	1,000.2	-4,059.7	879.8	647.3	232.45	3.785		

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 Cannon S-16NHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4944.0ft (Original Well Elev)
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4944.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon S-16NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-20-14)	Offset TVD Reference:	Offset Datum

Offset Design SRC Cannon Pad Sec.16-T4N-R68W - SRC Cannon 13-16NHZ - Wellbore #1 - Plan #1 (10-20-14)												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
10,300.0	6,210.0	10,399.5	6,210.0	118.9	119.5	89.87	999.2	-4,159.7	879.8	641.7	238.01	3.696	
10,400.0	6,210.0	10,499.5	6,210.0	121.7	122.3	89.87	998.3	-4,259.7	879.7	636.2	243.58	3.612	
10,500.0	6,210.0	10,599.5	6,210.0	124.5	125.0	89.87	997.3	-4,359.7	879.7	630.6	249.15	3.531	
10,600.0	6,210.0	10,699.5	6,210.0	127.3	127.8	89.87	996.4	-4,459.7	879.7	625.0	254.71	3.454	
10,656.0	6,210.0	10,755.5	6,210.0	128.8	129.4	89.87	995.9	-4,515.7	879.7	621.9	257.84	3.412	
10,682.6	6,210.0	10,771.1	6,210.0	129.6	129.8	89.87	995.7	-4,531.3	879.8	620.8	259.01	3.397 SF	

SRC Cannon Pad Sec.16-T4N-R68W - SRC Cannon H-16CHZ - Wellbore #1 - Plan #1 (10-20-14)												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	0.00	22.6	0.0	22.6				
100.0	100.0	100.0	100.0	0.1	0.1	0.00	22.6	0.0	22.6	22.4	0.22	100.491	
200.0	200.0	200.0	200.0	0.3	0.3	0.00	22.6	0.0	22.6	21.9	0.67	33.497	
300.0	300.0	300.0	300.0	0.6	0.6	0.00	22.6	0.0	22.6	21.5	1.12	20.098	
400.0	400.0	400.0	400.0	0.8	0.8	0.00	22.6	0.0	22.6	21.0	1.57	14.356	
500.0	500.0	500.0	500.0	1.0	1.0	0.00	22.6	0.0	22.6	20.6	2.02	11.166	
600.0	600.0	600.0	600.0	1.2	1.2	0.00	22.6	0.0	22.6	20.1	2.47	9.136	
700.0	700.0	700.0	700.0	1.5	1.5	0.00	22.6	0.0	22.6	19.7	2.92	7.730	
800.0	800.0	800.0	800.0	1.7	1.7	0.00	22.6	0.0	22.6	19.2	3.37	6.699	
900.0	900.0	900.0	900.0	1.9	1.9	0.00	22.6	0.0	22.6	18.8	3.82	5.911	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	0.00	22.6	0.0	22.6	18.3	4.27	5.289	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	0.00	22.6	0.0	22.6	17.9	4.72	4.785	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	0.00	22.6	0.0	22.6	17.4	5.17	4.369	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	0.00	22.6	0.0	22.6	17.0	5.62	4.020	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	0.00	22.6	0.0	22.6	16.5	6.07	3.722 CC, ES	
1,500.0	1,500.0	1,499.3	1,499.3	3.3	3.3	2.22	24.0	0.9	24.1	17.5	6.51	3.694	
1,600.0	1,600.0	1,598.4	1,598.2	3.5	3.5	7.46	28.4	3.7	28.7	21.7	6.96	4.119	
1,700.0	1,700.0	1,697.1	1,696.6	3.7	3.7	-43.61	35.5	8.3	35.4	28.0	7.40	4.781	
1,800.0	1,799.8	1,795.6	1,794.3	3.9	3.9	-42.46	45.5	14.7	42.9	35.0	7.84	5.469	
1,900.0	1,899.5	1,895.2	1,892.9	4.1	4.2	-43.53	57.3	22.3	49.7	41.4	8.28	6.000	
2,000.0	1,998.8	1,995.0	1,991.8	4.4	4.4	-46.48	69.2	29.9	54.5	45.8	8.74	6.236	
2,100.0	2,098.1	2,094.9	2,090.6	4.6	4.7	-49.15	81.0	37.5	59.3	50.1	9.23	6.428	
2,200.0	2,197.4	2,194.7	2,189.5	4.9	5.0	-51.42	92.8	45.1	64.2	54.5	9.73	6.604	
2,300.0	2,296.7	2,294.6	2,288.3	5.1	5.3	-53.37	104.7	52.7	69.2	59.0	10.24	6.764	
2,400.0	2,396.0	2,394.4	2,387.2	5.4	5.6	-55.05	116.5	60.4	74.3	63.6	10.76	6.907	
2,500.0	2,495.3	2,494.3	2,486.1	5.7	5.9	-56.52	128.3	68.0	79.4	68.1	11.29	7.037	
2,600.0	2,594.6	2,594.1	2,584.9	5.9	6.2	-57.80	140.2	75.6	84.6	72.8	11.83	7.153	
2,700.0	2,693.9	2,694.0	2,683.8	6.2	6.5	-58.94	152.0	83.2	89.8	77.4	12.37	7.258	
2,800.0	2,793.2	2,793.8	2,782.6	6.5	6.8	-59.96	163.8	90.8	95.0	82.1	12.93	7.353	
2,900.0	2,892.5	2,893.7	2,881.5	6.8	7.1	-60.86	175.7	98.4	100.3	86.8	13.49	7.439	
3,000.0	2,991.8	2,993.5	2,980.3	7.1	7.5	-61.68	187.5	106.0	105.6	91.6	14.05	7.516	
3,100.0	3,091.1	3,093.4	3,079.2	7.4	7.8	-62.42	199.3	113.6	110.9	96.3	14.62	7.586	
3,200.0	3,190.4	3,193.2	3,178.0	7.6	8.1	-63.09	211.2	121.2	116.2	101.0	15.19	7.650	
3,300.0	3,289.7	3,293.1	3,276.9	7.9	8.4	-63.70	223.0	128.8	121.6	105.8	15.77	7.709	
3,400.0	3,389.0	3,392.9	3,375.7	8.2	8.7	-64.26	234.8	136.4	126.9	110.6	16.35	7.762	
3,500.0	3,488.3	3,492.8	3,474.6	8.5	9.1	-64.78	246.7	144.0	132.3	115.3	16.94	7.811	
3,600.0	3,587.6	3,592.6	3,573.4	8.8	9.4	-65.25	258.5	151.6	137.7	120.1	17.52	7.856	
3,700.0	3,686.9	3,692.5	3,672.3	9.1	9.7	-65.69	270.4	159.2	143.0	124.9	18.11	7.897	
3,800.0	3,786.2	3,792.3	3,771.1	9.4	10.1	-66.10	282.2	166.8	148.4	129.7	18.70	7.935	
3,900.0	3,885.5	3,892.2	3,870.0	9.7	10.4	-66.48	294.0	174.4	153.8	134.5	19.30	7.971	
4,000.0	3,984.8	3,992.0	3,968.9	10.0	10.7	-66.83	305.9	182.1	159.3	139.4	19.89	8.009	
4,100.0	4,084.4	4,091.8	4,067.6	10.2	11.0	-66.46	317.7	189.7	165.7	145.3	20.37	8.133	
4,200.0	4,184.2	4,191.4	4,166.2	10.4	11.4	-65.10	329.5	197.2	173.5	152.8	20.79	8.349	
4,300.0	4,284.2	4,290.7	4,264.5	10.6	11.7	-62.92	341.3	204.8	183.1	162.0	21.13	8.663	
4,400.0	4,384.2	4,389.7	4,362.5	10.8	12.0	-5.25	353.0	212.3	194.0	172.8	21.16	9.167	
4,500.0	4,484.2	4,492.7	4,464.6	11.0	12.3	-2.88	364.5	219.8	204.7	182.9	21.78	9.399	
4,600.0	4,584.2	4,598.5	4,570.0	11.2	12.6	-1.24	373.3	225.4	212.8	190.5	22.31	9.541	
4,700.0	4,684.2	4,705.0	4,676.3	11.4	12.8	-0.28	378.8	229.0	218.0	195.2	22.77	9.573	
4,800.0	4,784.2	4,811.9	4,783.1	11.6	13.0	0.10	381.0	230.4	220.0	196.9	23.18	9.493	
4,900.0	4,884.2	4,913.0	4,884.2	11.8	13.1	0.10	381.1	230.4	220.1	196.5	23.56	9.341	
5,000.0	4,984.2	5,013.0	4,984.2	12.0	13.3	0.10	381.1	230.4	220.1	196.1	23.96	9.187	
5,100.0	5,084.2	5,113.0	5,084.2	12.2	13.5	0.10	381.1	230.4	220.1	195.7	24.35	9.037	

COMPASS 2003.21 Build 46

SRC Cannon Pad Sec.16-T4N-R68W - SRC Cannon H-16CHZ - Wellbore #1 - Plan #1 (10-20-14)													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)			
5,200.0	5,184.2	5,213.0	5,184.2	12.4	13.7	0.10	381.1	230.4	220.1	195.3	24.75	8.892		
5,300.0	5,284.2	5,313.0	5,284.2	12.6	13.9	0.10	381.1	230.4	220.1	194.9	25.15	8.750		
5,400.0	5,384.2	5,413.0	5,384.2	12.8	14.0	0.10	381.1	230.4	220.1	194.5	25.55	8.612		
5,500.0	5,484.2	5,513.0	5,484.2	13.0	14.2	0.10	381.1	230.4	220.1	194.1	25.96	8.478		
5,513.2	5,497.3	5,526.1	5,497.3	13.0	14.3	90.67	381.1	230.4	220.1	194.4	25.72	8.555		
5,600.0	5,583.9	5,612.7	5,583.9	13.1	14.4	92.11	381.1	230.4	220.2	194.2	25.98	8.478		
5,700.0	5,681.9	5,712.2	5,683.4	13.2	14.6	96.74	381.1	229.3	221.7	195.6	26.04	8.511		
5,800.0	5,776.3	5,815.4	5,785.6	13.3	14.7	101.88	381.0	216.2	225.1	199.1	25.98	8.663		
5,900.0	5,865.1	5,921.9	5,888.1	13.3	14.8	106.70	380.7	187.5	230.1	204.3	25.87	8.896		
6,000.0	5,946.7	6,031.9	5,988.2	13.5	14.8	111.08	380.3	142.2	236.4	210.6	25.77	9.171		
6,100.0	6,019.5	6,145.5	6,083.1	13.8	14.8	114.91	379.7	79.9	243.2	217.4	25.80	9.428		
6,200.0	6,082.1	6,262.5	6,169.2	14.4	14.8	118.12	378.9	0.9	250.1	223.9	26.13	9.572		
6,300.0	6,133.2	6,382.8	6,243.2	15.4	15.1	120.68	378.0	-93.8	256.3	229.4	26.94	9.512		
6,400.0	6,171.9	6,505.7	6,301.3	16.7	16.4	122.56	377.0	-201.9	261.4	232.9	28.45	9.186		
6,500.0	6,197.4	6,630.7	6,340.6	18.4	18.3	123.76	375.9	-320.4	264.8	234.0	30.74	8.613		
6,600.0	6,209.2	6,756.9	6,358.8	20.3	20.6	124.26	374.7	-445.1	266.3	232.5	33.79	7.881		
6,700.0	6,210.0	6,865.5	6,360.0	22.3	22.8	124.28	373.7	-553.6	266.3	229.1	37.27	7.146		
6,800.0	6,210.0	6,965.5	6,360.0	24.6	25.0	124.28	372.7	-653.6	266.3	225.4	40.94	6.506		
6,900.0	6,210.0	7,065.5	6,360.0	26.9	27.3	124.28	371.8	-753.6	266.3	221.5	44.80	5.945		
7,000.0	6,210.0	7,165.5	6,360.0	29.3	29.6	124.28	370.8	-853.6	266.3	217.5	48.80	5.457		
7,100.0	6,210.0	7,265.5	6,360.0	31.8	32.1	124.28	369.9	-953.6	266.3	213.4	52.93	5.032		
7,200.0	6,210.0	7,365.5	6,360.0	34.3	34.6	124.28	368.9	-1,053.6	266.3	209.2	57.14	4.661		
7,300.0	6,210.0	7,465.5	6,360.0	36.9	37.1	124.28	368.0	-1,153.6	266.3	204.9	61.42	4.336		
7,400.0	6,210.0	7,565.5	6,360.0	39.4	39.7	124.28	367.0	-1,253.6	266.3	200.6	65.76	4.050		
7,500.0	6,210.0	7,665.5	6,360.0	42.1	42.3	124.28	366.1	-1,353.6	266.3	196.2	70.15	3.796		
7,600.0	6,210.0	7,765.5	6,360.0	44.7	44.9	124.28	365.1	-1,453.6	266.3	191.7	74.58	3.571		
7,700.0	6,210.0	7,865.5	6,360.0	47.4	47.6	124.28	364.2	-1,553.6	266.3	187.3	79.03	3.370		
7,800.0	6,210.0	7,965.5	6,360.0	50.1	50.3	124.28	363.2	-1,653.6	266.3	182.8	83.52	3.189		
7,900.0	6,210.0	8,065.5	6,360.0	52.7	52.9	124.28	362.3	-1,753.5	266.3	178.3	88.03	3.025		
8,000.0	6,210.0	8,165.5	6,360.0	55.5	55.6	124.28	361.3	-1,853.5	266.3	173.8	92.55	2.877		
8,100.0	6,210.0	8,265.5	6,360.0	58.2	58.3	124.28	360.4	-1,953.5	266.3	169.2	97.10	2.743		
8,200.0	6,210.0	8,365.5	6,360.0	60.9	61.0	124.28	359.4	-2,053.5	266.3	164.7	101.65	2.620		
8,300.0	6,210.0	8,465.5	6,360.0	63.6	63.8	124.28	358.5	-2,153.5	266.3	160.1	106.22	2.507		
8,400.0	6,210.0	8,565.5	6,360.0	66.3	66.5	124.28	357.6	-2,253.5	266.3	155.5	110.81	2.403		
8,500.0	6,210.0	8,665.5	6,360.0	69.1	69.2	124.28	356.6	-2,353.5	266.3	150.9	115.40	2.308		
8,600.0	6,210.0	8,765.5	6,360.0	71.8	72.0	124.28	355.7	-2,453.5	266.3	146.3	120.00	2.219		
8,700.0	6,210.0	8,865.5	6,360.0	74.6	74.7	124.28	354.7	-2,553.5	266.3	141.7	124.60	2.137		
8,800.0	6,210.0	8,965.5	6,360.0	77.3	77.5	124.28	353.8	-2,653.5	266.3	137.1	129.22	2.061		
8,900.0	6,210.0	9,065.5	6,360.0	80.1	80.2	124.28	352.8	-2,753.5	266.3	132.5	133.84	1.990		
9,000.0	6,210.0	9,165.5	6,360.0	82.9	83.0	124.28	351.9	-2,853.5	266.3	127.8	138.46	1.923		
9,100.0	6,210.0	9,265.5	6,360.0	85.6	85.7	124.28	350.9	-2,953.5	266.3	123.2	143.09	1.861		
9,200.0	6,210.0	9,365.5	6,360.0	88.4	88.5	124.28	350.0	-3,053.5	266.3	118.6	147.73	1.803		
9,300.0	6,210.0	9,465.5	6,360.0	91.2	91.3	124.28	349.0	-3,153.5	266.3	113.9	152.37	1.748		
9,400.0	6,210.0	9,565.5	6,360.0	93.9	94.0	124.28	348.1	-3,253.5	266.3	109.3	157.01	1.696		
9,500.0	6,210.0	9,665.5	6,360.0	96.7	96.8	124.28	347.1	-3,353.5	266.3	104.6	161.66	1.647		
9,600.0	6,210.0	9,765.5	6,360.0	99.5	99.6	124.28	346.2	-3,453.5	266.3	100.0	166.31	1.601		
9,700.0	6,210.0	9,865.5	6,360.0	102.2	102.3	124.28	345.2	-3,553.5	266.3	95.3	170.96	1.558		
9,800.0	6,210.0	9,965.5	6,360.0	105.0	105.1	124.28	344.3	-3,653.5	266.3	90.7	175.61	1.516		
9,900.0	6,210.0	10,065.5	6,360.0	107.8	107.9	124.28	343.3	-3,753.5	266.3	86.0	180.27	1.477 Level 3		
10,000.0	6,210.0	10,165.5	6,360.0	110.6	110.7	124.28	342.4	-3,853.5	266.3	81.4	184.93	1.440 Level 3		
10,100.0	6,210.0	10,265.5	6,360.0	113.4	113.4	124.28	341.4	-3,953.4	266.3	76.7	189.59	1.405 Level 3		
10,200.0	6,210.0	10,365.5	6,360.0	116.1	116.2	124.28	340.5	-4,053.4	266.3	72.0	194.25	1.371 Level 3		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Cannon S-16NHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4944.0ft (Original Well Elev)
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4944.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon S-16NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-20-14)	Offset TVD Reference:	Offset Datum

Offset Design SRC Cannon Pad Sec.16-T4N-R68W - SRC Cannon H-16CHZ - Wellbore #1 - Plan #1 (10-20-14)												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
10,300.0	6,210.0	10,465.5	6,360.0	118.9	119.0	124.28	339.5	-4,153.4	266.3	67.4	198.92	1.339	Level 3
10,400.0	6,210.0	10,565.5	6,360.0	121.7	121.8	124.28	338.6	-4,253.4	266.3	62.7	203.59	1.308	Level 3
10,500.0	6,210.0	10,665.5	6,360.0	124.5	124.6	124.28	337.7	-4,353.4	266.3	58.0	208.25	1.279	Level 3
10,600.0	6,210.0	10,765.5	6,360.0	127.3	127.3	124.28	336.7	-4,453.4	266.3	53.4	212.92	1.251	Level 3
10,659.1	6,210.0	10,824.6	6,360.0	128.9	129.0	124.28	336.1	-4,512.5	266.3	50.6	215.68	1.235	Level 2
10,682.6	6,210.0	10,845.1	6,360.0	129.6	129.6	124.28	335.9	-4,533.1	266.3	49.6	216.72	1.229	Level 2, SF

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Cannon S-16NHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4944.0ft (Original Well Elev)
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4944.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon S-16NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-20-14)	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						
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	0.00	44.8	0.0	44.8	44.8	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	0.00	44.8	0.0	44.8	44.6	0.23	197.297	
200.0	200.0	201.0	201.0	0.3	0.3	0.00	44.8	0.0	44.8	44.1	0.68	66.203	
300.0	300.0	301.0	301.0	0.6	0.6	0.00	44.8	0.0	44.8	43.7	1.13	39.774	
400.0	400.0	401.0	401.0	0.8	0.8	0.00	44.8	0.0	44.8	43.2	1.58	28.427	
500.0	500.0	501.0	501.0	1.0	1.0	0.00	44.8	0.0	44.8	42.8	2.03	22.117	
600.0	600.0	601.0	601.0	1.2	1.2	0.00	44.8	0.0	44.8	42.3	2.47	18.099	
700.0	700.0	701.0	701.0	1.5	1.5	0.00	44.8	0.0	44.8	41.9	2.92	15.317	
800.0	800.0	801.0	801.0	1.7	1.7	0.00	44.8	0.0	44.8	41.4	3.37	13.276	
900.0	900.0	901.0	901.0	1.9	1.9	0.00	44.8	0.0	44.8	41.0	3.82	11.715	
966.3	966.3	967.3	967.3	2.1	2.1	0.00	44.8	0.0	44.8	40.7	4.12	10.867 CC	
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	0.00	44.8	0.0	44.8	40.5	4.27	10.483 ES	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	0.83	46.4	0.7	46.4	41.7	4.72	9.837	
1,200.0	1,200.0	1,197.8	1,197.7	2.6	2.6	2.93	51.1	2.6	51.3	46.1	5.16	9.933	
1,300.0	1,300.0	1,295.7	1,295.1	2.8	2.8	5.66	58.9	5.8	59.4	53.8	5.61	10.593	
1,400.0	1,400.0	1,392.8	1,391.6	3.0	3.0	8.41	69.6	10.3	71.0	64.9	6.07	11.692	
1,500.0	1,500.0	1,490.0	1,487.6	3.3	3.3	10.84	83.2	15.9	85.8	79.2	6.55	13.090	
1,600.0	1,600.0	1,588.7	1,585.1	3.5	3.6	12.66	97.7	22.0	101.4	94.4	7.05	14.381	
1,700.0	1,700.0	1,687.7	1,682.8	3.7	3.9	-41.39	112.2	28.0	115.8	108.4	7.42	15.608	
1,800.0	1,799.8	1,787.0	1,780.8	3.9	4.2	-41.68	126.8	34.0	127.6	119.7	7.87	16.225	
1,900.0	1,899.5	1,886.5	1,879.1	4.1	4.5	-42.90	141.4	40.1	136.9	128.6	8.32	16.453	
2,000.0	1,998.8	1,986.1	1,977.4	4.4	4.8	-44.83	156.0	46.1	144.2	135.4	8.80	16.393	
2,100.0	2,098.1	2,085.7	2,075.8	4.6	5.2	-46.68	170.7	52.2	151.5	142.2	9.29	16.308	
2,200.0	2,197.4	2,185.3	2,174.1	4.9	5.5	-48.35	185.3	58.3	158.9	149.1	9.79	16.228	
2,300.0	2,296.7	2,285.0	2,272.5	5.1	5.8	-49.88	199.9	64.3	166.4	156.1	10.30	16.153	
2,400.0	2,396.0	2,384.6	2,370.9	5.4	6.2	-51.28	214.5	70.4	174.1	163.2	10.82	16.080	
2,500.0	2,495.3	2,484.2	2,469.2	5.7	6.5	-52.55	229.2	76.5	181.8	170.4	11.35	16.011	
2,600.0	2,594.6	2,583.8	2,567.6	5.9	6.9	-53.72	243.8	82.5	189.6	177.7	11.89	15.944	
2,700.0	2,693.9	2,683.4	2,665.9	6.2	7.2	-54.80	258.4	88.6	197.5	185.1	12.44	15.879	
2,800.0	2,793.2	2,783.1	2,764.3	6.5	7.6	-55.80	273.0	94.7	205.5	192.5	12.99	15.817	
2,900.0	2,892.5	2,882.7	2,862.6	6.8	7.9	-56.72	287.7	100.7	213.5	199.9	13.55	15.758	
3,000.0	2,991.8	2,982.3	2,961.0	7.1	8.3	-57.57	302.3	106.8	221.6	207.4	14.11	15.700	
3,100.0	3,091.1	3,081.9	3,059.3	7.4	8.6	-58.37	316.9	112.8	229.7	215.0	14.68	15.646	
3,200.0	3,190.4	3,181.6	3,157.7	7.6	9.0	-59.11	331.5	118.9	237.8	222.6	15.25	15.593	
3,300.0	3,289.7	3,281.2	3,256.1	7.9	9.3	-59.80	346.1	125.0	246.0	230.2	15.83	15.543	
3,400.0	3,389.0	3,380.8	3,354.4	8.2	9.7	-60.44	360.8	131.0	254.2	237.8	16.41	15.494	
3,500.0	3,488.3	3,480.4	3,452.8	8.5	10.0	-61.05	375.4	137.1	262.5	245.5	16.99	15.448	
3,600.0	3,587.6	3,580.0	3,551.1	8.8	10.4	-61.62	390.0	143.2	270.8	253.2	17.58	15.404	
3,700.0	3,686.9	3,679.7	3,649.5	9.1	10.8	-62.15	404.6	149.2	279.1	260.9	18.17	15.361	
3,800.0	3,786.2	3,779.3	3,747.8	9.4	11.1	-62.65	419.3	155.3	287.4	268.7	18.76	15.321	
3,900.0	3,885.5	3,878.9	3,846.2	9.7	11.5	-63.13	433.9	161.4	295.8	276.4	19.35	15.282	
4,000.0	3,984.8	3,978.5	3,944.6	10.0	11.8	-63.60	448.5	167.4	304.2	284.2	19.94	15.254	
4,100.0	4,084.4	4,078.1	4,042.8	10.2	12.2	-63.77	463.1	173.5	313.7	293.3	20.44	15.349	
4,200.0	4,184.2	4,177.4	4,140.9	10.4	12.6	-63.42	477.7	179.5	324.8	303.9	20.88	15.554	
4,300.0	4,284.2	4,276.4	4,238.6	10.6	12.9	-62.61	492.2	185.6	337.4	316.2	21.27	15.866	
4,400.0	4,384.2	4,375.1	4,336.1	10.8	13.3	-6.34	506.7	191.6	351.3	328.8	22.49	15.616	
4,500.0	4,484.2	4,473.9	4,433.6	11.0	13.6	-5.14	521.2	197.6	365.3	342.2	23.11	15.808	
4,600.0	4,584.2	4,572.6	4,531.1	11.2	14.0	-4.03	535.7	203.6	379.5	355.8	23.72	15.997	
4,700.0	4,684.2	4,671.3	4,628.6	11.4	14.4	-3.00	550.2	209.6	393.8	369.5	24.33	16.184	
4,800.0	4,784.2	4,770.1	4,726.0	11.6	14.7	-2.04	564.7	215.6	408.2	383.3	24.94	16.368	
4,900.0	4,884.2	4,881.2	4,836.0	11.8	15.0	-1.12	579.6	221.8	421.6	396.1	25.52	16.522	
5,000.0	4,984.2	4,996.4	4,950.6	12.0	15.3	-0.46	591.0	226.5	431.4	405.4	26.04	16.571	

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 Cannon S-16NHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4944.0ft (Original Well Elev)
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4944.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon S-16NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-20-14)	Offset TVD Reference:	Offset Datum

Offset Design SRC Cannon Pad Sec.16-T4N-R68W - SRC Cannon H-16NHZ - Wellbore #1 - Plan #1 (10-20-14)													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		
5,100.0	5,084.2	5,112.5	5,066.3	12.2	15.5	-0.06	598.2	229.5	437.6	411.1	26.50	16.515		
5,200.0	5,184.2	5,228.9	5,182.7	12.4	15.7	0.09	601.0	230.7	440.0	413.1	26.90	16.356		
5,300.0	5,284.2	5,331.4	5,285.2	12.6	15.9	0.09	601.1	230.7	440.1	412.8	27.27	16.138		
5,400.0	5,384.2	5,431.4	5,385.2	12.8	16.0	0.09	601.1	230.7	440.1	412.4	27.65	15.919		
5,500.0	5,484.2	5,531.4	5,485.2	13.0	16.2	0.09	601.1	230.7	440.1	412.1	28.02	15.705		
5,600.0	5,583.9	5,632.0	5,585.5	13.1	16.3	90.61	601.0	224.8	440.1	413.8	26.31	16.727		
5,700.0	5,681.9	5,732.6	5,684.1	13.2	16.4	90.58	600.8	205.0	440.1	413.6	26.51	16.601		
5,800.0	5,776.3	5,833.2	5,778.9	13.3	16.4	90.53	600.5	171.5	440.1	413.4	26.66	16.510		
5,900.0	5,865.1	5,933.8	5,868.0	13.3	16.4	90.47	600.1	125.2	440.1	413.2	26.84	16.396		
6,000.0	5,946.7	6,034.3	5,949.7	13.5	16.4	90.41	599.5	66.8	440.1	412.9	27.21	16.174		
6,100.0	6,019.5	6,134.7	6,022.4	13.8	16.4	90.33	598.9	-2.3	440.1	412.1	27.93	15.754		
6,200.0	6,082.1	6,235.0	6,084.7	14.4	16.5	90.25	598.1	-80.8	440.0	410.8	29.20	15.071		
6,300.0	6,133.2	6,335.2	6,135.4	15.4	16.8	90.17	597.3	-167.2	440.0	408.9	31.13	14.137		
6,400.0	6,171.9	6,435.3	6,173.5	16.7	17.7	90.08	596.4	-259.7	440.0	406.3	33.76	13.035		
6,500.0	6,197.4	6,535.4	6,198.3	18.4	19.2	89.99	595.5	-356.5	440.0	403.0	37.03	11.884		
6,600.0	6,209.2	6,635.3	6,209.4	20.3	21.1	89.90	594.5	-455.8	440.0	399.2	40.79	10.788		
6,700.0	6,210.0	6,735.3	6,210.0	22.3	23.1	89.87	593.6	-555.7	440.0	395.1	44.91	9.798		
6,800.0	6,210.0	6,835.3	6,210.0	24.6	25.2	89.87	592.6	-655.7	440.0	390.7	49.30	8.925		
6,900.0	6,210.0	6,935.3	6,210.0	26.9	27.5	89.87	591.7	-755.7	440.0	386.1	53.92	8.160		
7,000.0	6,210.0	7,035.3	6,210.0	29.3	29.9	89.87	590.7	-855.7	440.0	381.3	58.72	7.493		
7,100.0	6,210.0	7,135.3	6,210.0	31.8	32.3	89.87	589.8	-955.7	440.0	376.3	63.64	6.913		
7,200.0	6,210.0	7,235.3	6,210.0	34.3	34.8	89.87	588.8	-1,055.7	440.0	371.3	68.68	6.406		
7,300.0	6,210.0	7,335.3	6,210.0	36.9	37.3	89.87	587.9	-1,155.7	440.0	366.2	73.79	5.962		
7,400.0	6,210.0	7,435.3	6,210.0	39.4	39.9	89.87	586.9	-1,255.7	439.9	361.0	78.97	5.571		
7,500.0	6,210.0	7,535.3	6,210.0	42.1	42.5	89.87	585.9	-1,355.7	439.9	355.7	84.21	5.224		
7,600.0	6,210.0	7,635.3	6,210.0	44.7	45.1	89.87	585.0	-1,455.7	439.9	350.4	89.49	4.916		
7,700.0	6,210.0	7,735.3	6,210.0	47.4	47.7	89.87	584.0	-1,555.7	439.9	345.1	94.82	4.640		
7,800.0	6,210.0	7,835.3	6,210.0	50.1	50.4	89.87	583.1	-1,655.7	439.9	339.7	100.17	4.392		
7,900.0	6,210.0	7,935.3	6,210.0	52.7	53.1	89.87	582.1	-1,755.7	439.9	334.4	105.55	4.168		
8,000.0	6,210.0	8,035.3	6,210.0	55.5	55.8	89.87	581.2	-1,855.7	439.9	329.0	110.95	3.965		
8,100.0	6,210.0	8,135.3	6,210.0	58.2	58.5	89.87	580.2	-1,955.7	439.9	323.5	116.37	3.780		
8,200.0	6,210.0	8,235.3	6,210.0	60.9	61.2	89.87	579.3	-2,055.6	439.9	318.1	121.81	3.611		
8,300.0	6,210.0	8,335.3	6,210.0	63.6	63.9	89.87	578.3	-2,155.6	439.9	312.6	127.26	3.456		
8,400.0	6,210.0	8,435.3	6,210.0	66.3	66.6	89.87	577.4	-2,255.6	439.9	307.1	132.73	3.314		
8,500.0	6,210.0	8,535.3	6,210.0	69.1	69.3	89.87	576.4	-2,355.6	439.9	301.7	138.20	3.183		
8,600.0	6,210.0	8,635.3	6,210.0	71.8	72.1	89.87	575.4	-2,455.6	439.9	296.2	143.69	3.061		
8,700.0	6,210.0	8,735.3	6,210.0	74.6	74.8	89.87	574.5	-2,555.6	439.8	290.7	149.19	2.948		
8,800.0	6,210.0	8,835.3	6,210.0	77.3	77.6	89.87	573.5	-2,655.6	439.8	285.1	154.69	2.843		
8,900.0	6,210.0	8,935.3	6,210.0	80.1	80.3	89.87	572.6	-2,755.6	439.8	279.6	160.21	2.745		
9,000.0	6,210.0	9,035.3	6,210.0	82.9	83.1	89.87	571.6	-2,855.6	439.8	274.1	165.72	2.654		
9,100.0	6,210.0	9,135.3	6,210.0	85.6	85.8	89.87	570.7	-2,955.6	439.8	268.6	171.25	2.568		
9,200.0	6,210.0	9,235.3	6,210.0	88.4	88.6	89.87	569.7	-3,055.6	439.8	263.0	176.78	2.488		
9,300.0	6,210.0	9,335.3	6,210.0	91.2	91.3	89.87	568.8	-3,155.6	439.8	257.5	182.31	2.412		
9,400.0	6,210.0	9,435.3	6,210.0	93.9	94.1	89.87	567.8	-3,255.6	439.8	251.9	187.85	2.341		
9,500.0	6,210.0	9,535.3	6,210.0	96.7	96.9	89.87	566.9	-3,355.6	439.8	246.4	193.40	2.274		
9,600.0	6,210.0	9,635.3	6,210.0	99.5	99.6	89.87	565.9	-3,455.6	439.8	240.8	198.94	2.211		
9,700.0	6,210.0	9,735.3	6,210.0	102.2	102.4	89.87	565.0	-3,555.6	439.8	235.3	204.49	2.150		
9,800.0	6,210.0	9,835.3	6,210.0	105.0	105.2	89.87	564.0	-3,655.6	439.8	229.7	210.05	2.094		
9,900.0	6,210.0	9,935.3	6,210.0	107.8	107.9	89.87	563.0	-3,755.6	439.7	224.1	215.60	2.040		
10,000.0	6,210.0	10,035.3	6,210.0	110.6	110.7	89.87	562.1	-3,855.6	439.7	218.6	221.16	1.988		
10,100.0	6,210.0	10,135.3	6,210.0	113.4	113.5	89.87	561.1	-3,955.6	439.7	213.0	226.72	1.939		
10,200.0	6,210.0	10,235.3	6,210.0	116.1	116.3	89.87	560.2	-4,055.6	439.7	207.4	232.29	1.893		

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 Cannon S-16NHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4944.0ft (Original Well Elev)
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4944.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon S-16NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-20-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
SRC Cannon Pad Sec.16-T4N-R68W - SRC Cannon H-16NHZ - Wellbore #1 - Plan #1 (10-20-14)												Offset Well Error:	0.0 ft
Survey Program: 0-MWD													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,300.0	6,210.0	10,335.3	6,210.0	118.9	119.1	89.87	559.2	-4,155.6	439.7	201.9	237.85	1.849	
10,400.0	6,210.0	10,435.3	6,210.0	121.7	121.8	89.87	558.3	-4,255.5	439.7	196.3	243.42	1.806	
10,500.0	6,210.0	10,535.3	6,210.0	124.5	124.6	89.87	557.3	-4,355.5	439.7	190.7	248.99	1.766	
10,600.0	6,210.0	10,635.3	6,210.0	127.3	127.4	89.87	556.4	-4,455.5	439.7	185.1	254.56	1.727	
10,658.4	6,210.0	10,693.6	6,210.0	128.9	129.0	89.87	555.8	-4,513.9	439.7	181.9	257.82	1.705	
10,682.6	6,210.0	10,712.2	6,210.0	129.6	129.5	89.87	555.6	-4,532.5	439.7	180.7	259.01	1.698 SF	

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Cannon S-16NHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4944.0ft (Original Well Elev)
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4944.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon S-16NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-20-14)	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	2.0	2.0	0.0	0.0	0.14	112.6	0.3	112.6	112.6	0.00	N/A		
100.0	100.0	102.0	102.0	0.1	0.1	0.14	112.6	0.3	112.6	112.3	0.23	491.016		
166.0	166.0	168.0	168.0	0.3	0.3	0.14	112.6	0.3	112.6	112.0	0.53	214.058 CC		
200.0	200.0	201.9	201.9	0.3	0.3	0.14	112.6	0.3	112.6	111.9	0.68	165.879 ES		
300.0	300.0	300.0	300.0	0.6	0.6	0.31	114.3	0.6	114.3	113.2	1.12	101.697		
400.0	400.0	394.2	394.1	0.8	0.8	0.76	119.0	1.6	119.3	117.7	1.57	76.121		
500.0	500.0	489.8	489.3	1.0	1.0	1.43	126.9	3.2	127.6	125.6	2.03	62.904		
600.0	600.0	584.8	583.6	1.2	1.3	2.23	137.9	5.4	139.2	136.7	2.51	55.433		
700.0	700.0	678.9	676.6	1.5	1.6	3.08	151.7	8.2	154.0	151.0	3.02	50.998		
800.0	800.0	771.9	768.1	1.7	1.9	3.91	168.4	11.5	172.1	168.6	3.56	48.348		
900.0	900.0	863.8	857.9	1.9	2.3	4.68	187.6	15.4	193.4	189.2	4.13	46.815		
1,000.0	1,000.0	955.7	947.0	2.1	2.7	5.40	209.7	19.8	217.7	212.9	4.73	45.991		
1,100.0	1,100.0	1,052.4	1,040.5	2.4	3.2	6.02	233.7	24.6	243.0	237.6	5.37	45.201		
1,200.0	1,200.0	1,149.1	1,134.1	2.6	3.6	6.53	257.8	29.5	268.3	262.2	6.02	44.540		
1,300.0	1,300.0	1,245.8	1,227.6	2.8	4.1	6.94	281.9	34.3	293.6	286.9	6.68	43.979		
1,400.0	1,400.0	1,342.6	1,321.1	3.0	4.6	7.30	306.0	39.2	318.9	311.6	7.33	43.501		
1,500.0	1,500.0	1,439.3	1,414.7	3.3	5.1	7.60	330.1	44.0	344.3	336.3	7.99	43.091		
1,600.0	1,600.0	1,536.0	1,508.2	3.5	5.6	7.86	354.2	48.9	369.7	361.0	8.65	42.737		
1,700.0	1,700.0	1,633.0	1,602.1	3.7	6.1	-46.75	378.4	53.7	393.9	386.2	7.72	51.045		
1,800.0	1,799.8	1,730.6	1,696.4	3.9	6.6	-46.75	402.7	58.6	415.8	407.6	8.21	50.661		
1,900.0	1,899.5	1,828.5	1,791.1	4.1	7.1	-47.10	427.1	63.5	435.3	426.6	8.71	49.998		
2,000.0	1,998.8	1,926.7	1,886.1	4.4	7.6	-47.85	451.5	68.4	453.1	443.9	9.22	49.142		
2,100.0	2,098.1	2,024.9	1,981.1	4.6	8.1	-48.66	476.0	73.4	470.8	461.0	9.74	48.317		
2,200.0	2,197.4	2,123.1	2,076.1	4.9	8.6	-49.42	500.5	78.3	488.5	478.3	10.28	47.545		
2,300.0	2,296.7	2,221.3	2,171.1	5.1	9.1	-50.12	524.9	83.2	506.4	495.6	10.81	46.823		
2,400.0	2,396.0	2,319.6	2,266.1	5.4	9.6	-50.77	549.4	88.1	524.3	512.9	11.36	46.146		
2,500.0	2,495.3	2,417.8	2,361.1	5.7	10.1	-51.39	573.9	93.0	542.2	530.3	11.91	45.512		
2,600.0	2,594.6	2,516.0	2,456.1	5.9	10.7	-51.96	598.3	98.0	560.3	547.8	12.47	44.918		
2,700.0	2,693.9	2,614.2	2,551.0	6.2	11.2	-52.49	622.8	102.9	578.3	565.3	13.04	44.360		
2,800.0	2,793.2	2,712.4	2,646.0	6.5	11.7	-53.00	647.3	107.8	596.5	582.9	13.61	43.836		
2,900.0	2,892.5	2,810.6	2,741.0	6.8	12.2	-53.47	671.7	112.7	614.6	600.4	14.18	43.344		
3,000.0	2,991.8	2,908.8	2,836.0	7.1	12.7	-53.92	696.2	117.6	632.8	618.1	14.76	42.880		
3,100.0	3,091.1	3,007.0	2,931.0	7.4	13.2	-54.34	720.7	122.6	651.1	635.7	15.34	42.444		
3,200.0	3,190.4	3,105.3	3,026.0	7.6	13.7	-54.74	745.1	127.5	669.3	653.4	15.92	42.032		
3,300.0	3,289.7	3,203.5	3,121.0	7.9	14.2	-55.12	769.6	132.4	687.6	671.1	16.51	41.644		
3,400.0	3,389.0	3,301.7	3,216.0	8.2	14.7	-55.48	794.1	137.3	706.0	688.9	17.10	41.276		
3,500.0	3,488.3	3,399.9	3,311.0	8.5	15.2	-55.82	818.5	142.2	724.3	706.6	17.70	40.929		
3,600.0	3,587.6	3,498.1	3,405.9	8.8	15.8	-56.14	843.0	147.2	742.7	724.4	18.29	40.600		
3,700.0	3,686.9	3,596.3	3,500.9	9.1	16.3	-56.45	867.5	152.1	761.1	742.2	18.89	40.288		
3,800.0	3,786.2	3,694.5	3,595.9	9.4	16.8	-56.74	891.9	157.0	779.5	760.0	19.49	39.991		
3,900.0	3,885.5	3,792.7	3,690.9	9.7	17.3	-57.02	916.4	161.9	797.9	777.8	20.09	39.710		
4,000.0	3,984.8	3,891.0	3,785.9	10.0	17.8	-57.36	940.8	166.8	816.4	795.7	20.69	39.462		
4,100.0	4,084.4	3,989.0	3,880.7	10.2	18.3	-57.80	965.3	171.8	836.3	815.1	21.20	39.443		
4,200.0	4,184.2	4,086.6	3,975.1	10.4	18.8	-58.08	989.6	176.6	857.9	836.2	21.68	39.577		
4,300.0	4,284.2	4,183.7	4,069.0	10.6	19.3	-58.19	1,013.8	181.5	881.3	859.2	22.11	39.857		
4,400.0	4,384.2	4,280.4	4,162.6	10.8	19.8	-2.85	1,037.9	186.4	906.0	876.6	29.37	30.845 SF		
4,500.0	4,484.2	4,377.1	4,256.1	11.0	20.3	-2.47	1,062.0	191.2	930.7	900.6	30.10	30.919		
4,600.0	4,584.2	4,473.8	4,349.7	11.2	20.8	-2.10	1,086.1	196.0	955.4	924.6	30.83	30.990		
4,700.0	4,684.2	4,570.6	4,443.2	11.4	21.3	-1.76	1,110.1	200.9	980.2	948.6	31.56	31.060		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Cannon S-16NHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4944.0ft (Original Well Elev)
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4944.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon S-16NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-20-14)	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	-180.00	-22.6	0.0	22.6					
100.0	100.0	100.0	100.0	0.1	0.1	-180.00	-22.6	0.0	22.6	22.4	0.22	100.564		
200.0	200.0	200.0	200.0	0.3	0.3	-180.00	-22.6	0.0	22.6	21.9	0.67	33.521		
300.0	300.0	300.0	300.0	0.6	0.6	-180.00	-22.6	0.0	22.6	21.5	1.12	20.113		
400.0	400.0	400.0	400.0	0.8	0.8	-180.00	-22.6	0.0	22.6	21.0	1.57	14.366		
500.0	500.0	500.0	500.0	1.0	1.0	-180.00	-22.6	0.0	22.6	20.6	2.02	11.174		
600.0	600.0	600.0	600.0	1.2	1.2	-180.00	-22.6	0.0	22.6	20.1	2.47	9.142		
700.0	700.0	700.0	700.0	1.5	1.5	-180.00	-22.6	0.0	22.6	19.7	2.92	7.736		
800.0	800.0	800.0	800.0	1.7	1.7	-180.00	-22.6	0.0	22.6	19.2	3.37	6.704		
900.0	900.0	900.0	900.0	1.9	1.9	-180.00	-22.6	0.0	22.6	18.8	3.82	5.916		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-180.00	-22.6	0.0	22.6	18.3	4.27	5.293		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-180.00	-22.6	0.0	22.6	17.9	4.72	4.789		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-180.00	-22.6	0.0	22.6	17.4	5.17	4.372		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-180.00	-22.6	0.0	22.6	17.0	5.62	4.023		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-180.00	-22.6	0.0	22.6	16.5	6.07	3.725		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-180.00	-22.6	0.0	22.6	16.1	6.52	3.468		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-180.00	-22.6	0.0	22.6	15.6	6.97	3.244 CC, ES		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	128.44	-22.6	0.0	23.6	16.2	7.41	3.191		
1,800.0	1,799.8	1,799.8	1,799.8	3.9	3.9	137.05	-22.6	0.0	27.2	19.4	7.85	3.468		
1,900.0	1,899.5	1,899.5	1,899.5	4.1	4.2	146.99	-22.6	0.0	34.1	25.8	8.27	4.124		
2,000.0	1,998.8	1,998.8	1,998.8	4.4	4.4	155.11	-22.6	0.0	44.3	35.6	8.71	5.084		
2,100.0	2,098.1	2,098.1	2,098.1	4.6	4.6	160.28	-22.6	0.0	55.2	46.1	9.15	6.037		
2,200.0	2,197.4	2,197.4	2,197.4	4.9	4.8	163.71	-22.6	0.0	66.5	56.9	9.59	6.930		
2,300.0	2,296.7	2,296.7	2,296.7	5.1	5.0	166.15	-22.6	0.0	77.9	67.8	10.03	7.761		
2,400.0	2,396.0	2,396.0	2,396.0	5.4	5.3	167.96	-22.6	0.0	89.4	78.9	10.48	8.529		
2,500.0	2,495.3	2,495.3	2,495.3	5.7	5.5	169.36	-22.6	0.0	101.0	90.0	10.93	9.240		
2,600.0	2,594.6	2,596.8	2,596.8	5.9	5.7	169.81	-22.9	1.6	111.7	100.3	11.37	9.823		
2,700.0	2,693.9	2,698.8	2,698.7	6.2	5.9	168.80	-23.7	6.8	120.3	108.5	11.80	10.195		
2,800.0	2,793.2	2,801.0	2,800.4	6.5	6.1	166.56	-25.0	15.6	127.0	114.7	12.25	10.370		
2,900.0	2,892.5	2,900.6	2,899.5	6.8	6.3	163.92	-26.7	26.0	132.9	120.2	12.70	10.463		
3,000.0	2,991.8	3,000.3	2,998.6	7.1	6.6	161.52	-28.3	36.3	139.1	126.0	13.17	10.561		
3,100.0	3,091.1	3,099.9	3,097.7	7.4	6.8	159.32	-29.9	46.7	145.5	131.9	13.65	10.660		
3,200.0	3,190.4	3,199.6	3,196.8	7.6	7.0	157.31	-31.5	57.1	152.2	138.0	14.14	10.758		
3,300.0	3,289.7	3,299.2	3,295.9	7.9	7.3	155.47	-33.2	67.4	159.0	144.3	14.64	10.856		
3,400.0	3,389.0	3,398.8	3,395.0	8.2	7.5	153.78	-34.8	77.8	165.9	150.7	15.15	10.951		
3,500.0	3,488.3	3,498.5	3,494.1	8.5	7.7	152.23	-36.4	88.2	173.0	157.3	15.66	11.043		
3,600.0	3,587.6	3,598.1	3,593.2	8.8	8.0	150.80	-38.0	98.5	180.2	164.0	16.18	11.132		
3,700.0	3,686.9	3,697.8	3,692.2	9.1	8.2	149.48	-39.7	108.9	187.5	170.7	16.71	11.218		
3,800.0	3,786.2	3,797.4	3,791.3	9.4	8.5	148.26	-41.3	119.3	194.8	177.6	17.24	11.301		
3,900.0	3,885.5	3,897.1	3,890.4	9.7	8.8	147.13	-42.9	129.6	202.3	184.5	17.78	11.380		
4,000.0	3,984.8	3,996.7	3,989.5	10.0	9.0	146.08	-44.5	140.0	209.8	191.4	18.32	11.452		
4,100.0	4,084.4	4,096.4	4,088.7	10.2	9.3	144.78	-46.2	150.4	215.3	196.5	18.82	11.440		
4,200.0	4,184.2	4,196.1	4,187.8	10.4	9.5	142.97	-47.8	160.8	218.1	198.8	19.31	11.294		
4,300.0	4,284.2	4,295.7	4,286.9	10.6	9.8	140.62	-49.4	171.1	218.5	198.7	19.80	11.034		
4,400.0	4,384.2	4,395.2	4,385.8	10.8	10.1	-167.11	-51.0	181.5	217.5	197.8	19.70	11.041		
4,500.0	4,484.2	4,494.6	4,484.7	11.0	10.4	-169.86	-52.6	191.8	217.0	197.0	20.07	10.815		
4,544.7	4,528.8	4,539.1	4,528.8	11.1	10.5	-171.10	-53.4	196.4	217.0	196.7	20.23	10.724		
4,600.0	4,584.2	4,594.1	4,583.5	11.2	10.6	-172.63	-54.3	202.2	217.1	196.6	20.44	10.619		
4,700.0	4,684.2	4,693.5	4,682.4	11.4	10.9	-175.39	-55.9	212.5	217.6	196.8	20.82	10.451		
4,800.0	4,784.2	4,793.7	4,782.2	11.6	11.1	-177.83	-57.3	221.7	218.5	197.3	21.20	10.304		
4,900.0	4,884.2	4,894.6	4,882.9	11.8	11.4	-179.36	-58.2	227.5	219.3	197.7	21.59	10.154		
5,000.0	4,984.2	4,995.7	4,984.0	12.0	11.5	-179.96	-58.6	229.9	219.6	197.6	21.99	9.986		

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

SRC Cannon Pad Sec.16-T4N-R68W - SRC Cannon S-16CHZ - Wellbore #1 - Plan #1 (10-20-14)												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	
5,100.0	5,084.2	5,095.9	5,084.2	12.2	11.7	-179.97	-58.6	229.9	219.6	197.2	22.40	9.804	
5,200.0	5,184.2	5,195.9	5,184.2	12.4	11.9	-179.97	-58.6	229.9	219.6	196.8	22.83	9.621	
5,300.0	5,284.2	5,295.9	5,284.2	12.6	12.1	-179.97	-58.6	229.9	219.6	196.4	23.25	9.444	
5,400.0	5,384.2	5,395.9	5,384.2	12.8	12.3	-179.97	-58.6	229.9	219.6	195.9	23.68	9.274	
5,500.0	5,484.2	5,495.9	5,484.2	13.0	12.6	-179.97	-58.6	229.9	219.6	195.5	24.11	9.109	
5,558.8	5,542.9	5,554.6	5,542.9	13.1	12.7	-90.00	-58.6	229.9	219.6	194.1	25.48	8.618	
5,600.0	5,583.9	5,595.6	5,583.9	13.1	12.8	-90.91	-58.6	229.9	219.6	194.0	25.64	8.565	
5,700.0	5,681.9	5,694.9	5,683.1	13.2	13.0	-95.58	-58.6	228.8	220.7	194.7	25.96	8.500	
5,800.0	5,776.3	5,797.3	5,784.7	13.3	13.1	-100.78	-58.7	215.9	223.7	197.6	26.13	8.561	
5,900.0	5,865.1	5,903.1	5,886.4	13.3	13.2	-105.70	-59.0	187.5	228.4	202.3	26.16	8.733	
6,000.0	5,946.7	6,012.3	5,986.0	13.5	13.3	-110.19	-59.4	142.9	234.5	208.4	26.12	8.978	
6,100.0	6,019.5	6,125.1	6,080.4	13.8	13.5	-114.15	-60.0	81.4	241.3	215.1	26.15	9.226	
6,200.0	6,082.1	6,241.3	6,166.4	14.4	13.9	-117.51	-60.8	3.4	248.2	221.7	26.47	9.375	
6,300.0	6,133.2	6,360.9	6,240.5	15.4	14.7	-120.22	-61.7	-90.3	254.6	227.3	27.34	9.311	
6,400.0	6,171.9	6,483.3	6,299.2	16.7	16.0	-122.25	-62.7	-197.5	260.0	231.0	28.97	8.975	
6,500.0	6,197.4	6,607.9	6,339.3	18.4	17.9	-123.60	-63.8	-315.3	263.8	232.4	31.43	8.394	
6,600.0	6,209.2	6,733.9	6,358.5	20.3	20.2	-124.26	-65.0	-439.7	265.8	231.1	34.70	7.660	
6,700.0	6,210.0	6,843.7	6,360.0	22.3	22.4	-124.33	-66.1	-549.4	266.0	227.7	38.28	6.948	
6,800.0	6,210.0	6,943.7	6,360.0	24.6	24.6	-124.33	-67.0	-649.4	266.0	224.1	41.95	6.341	
6,900.0	6,210.0	7,043.7	6,360.0	26.9	26.9	-124.33	-68.0	-749.4	266.0	220.2	45.81	5.807	
7,000.0	6,210.0	7,143.7	6,360.0	29.3	29.3	-124.32	-68.9	-849.4	266.0	216.2	49.81	5.340	
7,100.0	6,210.0	7,243.7	6,360.0	31.8	31.8	-124.32	-69.9	-949.4	266.0	212.1	53.93	4.932	
7,200.0	6,210.0	7,343.7	6,360.0	34.3	34.3	-124.32	-70.8	-1,049.4	266.0	207.9	58.15	4.575	
7,300.0	6,210.0	7,443.7	6,360.0	36.9	36.9	-124.32	-71.8	-1,149.4	266.0	203.6	62.43	4.261	
7,400.0	6,210.0	7,543.7	6,360.0	39.4	39.5	-124.32	-72.7	-1,249.4	266.0	199.3	66.77	3.985	
7,500.0	6,210.0	7,643.7	6,360.0	42.1	42.1	-124.32	-73.7	-1,349.4	266.1	194.9	71.16	3.739	
7,600.0	6,210.0	7,743.7	6,360.0	44.7	44.7	-124.32	-74.7	-1,449.4	266.1	190.5	75.59	3.520	
7,700.0	6,210.0	7,843.7	6,360.0	47.4	47.4	-124.32	-75.6	-1,549.4	266.1	186.0	80.05	3.324	
7,800.0	6,210.0	7,943.7	6,360.0	50.1	50.1	-124.32	-76.6	-1,649.4	266.1	181.5	84.54	3.148	
7,900.0	6,210.0	8,043.7	6,360.0	52.7	52.8	-124.31	-77.5	-1,749.4	266.1	177.0	89.05	2.988	
8,000.0	6,210.0	8,143.7	6,360.0	55.5	55.5	-124.31	-78.5	-1,849.4	266.1	172.5	93.58	2.844	
8,100.0	6,210.0	8,243.7	6,360.0	58.2	58.2	-124.31	-79.4	-1,949.4	266.1	168.0	98.13	2.712	
8,200.0	6,210.0	8,343.7	6,360.0	60.9	60.9	-124.31	-80.4	-2,049.3	266.1	163.4	102.69	2.591	
8,300.0	6,210.0	8,443.7	6,360.0	63.6	63.6	-124.31	-81.3	-2,149.3	266.1	158.8	107.27	2.481	
8,400.0	6,210.0	8,543.7	6,360.0	66.3	66.4	-124.31	-82.3	-2,249.3	266.1	154.3	111.86	2.379	
8,500.0	6,210.0	8,643.7	6,360.0	69.1	69.1	-124.31	-83.3	-2,349.3	266.1	149.7	116.45	2.285	
8,600.0	6,210.0	8,743.7	6,360.0	71.8	71.8	-124.31	-84.2	-2,449.3	266.1	145.1	121.06	2.198	
8,700.0	6,210.0	8,843.7	6,360.0	74.6	74.6	-124.31	-85.2	-2,549.3	266.1	140.5	125.68	2.118	
8,800.0	6,210.0	8,943.7	6,360.0	77.3	77.3	-124.30	-86.1	-2,649.3	266.2	135.8	130.30	2.043	
8,900.0	6,210.0	9,043.7	6,360.0	80.1	80.1	-124.30	-87.1	-2,749.3	266.2	131.2	134.93	1.973	
9,000.0	6,210.0	9,143.7	6,360.0	82.9	82.9	-124.30	-88.0	-2,849.3	266.2	126.6	139.56	1.907	
9,100.0	6,210.0	9,243.7	6,360.0	85.6	85.6	-124.30	-89.0	-2,949.3	266.2	122.0	144.20	1.846	
9,200.0	6,210.0	9,343.7	6,360.0	88.4	88.4	-124.30	-89.9	-3,049.3	266.2	117.3	148.85	1.788	
9,300.0	6,210.0	9,443.7	6,360.0	91.2	91.2	-124.30	-90.9	-3,149.3	266.2	112.7	153.50	1.734	
9,400.0	6,210.0	9,543.7	6,360.0	93.9	93.9	-124.30	-91.8	-3,249.3	266.2	108.0	158.15	1.683	
9,500.0	6,210.0	9,643.7	6,360.0	96.7	96.7	-124.30	-92.8	-3,349.3	266.2	103.4	162.81	1.635	
9,600.0	6,210.0	9,743.7	6,360.0	99.5	99.5	-124.30	-93.8	-3,449.3	266.2	98.7	167.47	1.590	
9,700.0	6,210.0	9,843.7	6,360.0	102.2	102.2	-124.29	-94.7	-3,549.3	266.2	94.1	172.13	1.547	
9,800.0	6,210.0	9,943.7	6,360.0	105.0	105.0	-124.29	-95.7	-3,649.3	266.2	89.4	176.80	1.506	
9,900.0	6,210.0	10,043.7	6,360.0	107.8	107.8	-124.29	-96.6	-3,749.3	266.2	84.8	181.47	1.467 Level 3	
10,000.0	6,210.0	10,143.7	6,360.0	110.6	110.6	-124.29	-97.6	-3,849.3	266.2	80.1	186.14	1.430 Level 3	
10,100.0	6,210.0	10,243.7	6,360.0	113.4	113.4	-124.29	-98.5	-3,949.3	266.2	75.4	190.81	1.395 Level 3	

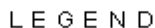
Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Cannon S-16NHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4944.0ft (Original Well Elev)
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4944.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon S-16NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-20-14)	Offset TVD Reference:	Offset Datum

Offset Design SRC Cannon Pad Sec.16-T4N-R68W - SRC Cannon S-16CHZ - Wellbore #1 - Plan #1 (10-20-14)												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
10,200.0	6,210.0	10,343.7	6,360.0	116.1	116.1	-124.29	-99.5	-4,049.3	266.3	70.8	195.49	1.362	Level 3
10,300.0	6,210.0	10,443.7	6,360.0	118.9	118.9	-124.29	-100.4	-4,149.3	266.3	66.1	200.17	1.330	Level 3
10,400.0	6,210.0	10,543.7	6,360.0	121.7	121.7	-124.29	-101.4	-4,249.2	266.3	61.4	204.85	1.300	Level 3
10,500.0	6,210.0	10,643.7	6,360.0	124.5	124.5	-124.29	-102.4	-4,349.2	266.3	56.7	209.53	1.271	Level 3
10,600.0	6,210.0	10,743.7	6,360.0	127.3	127.3	-124.28	-103.3	-4,449.2	266.3	52.1	214.21	1.243	Level 2
10,682.6	6,210.0	10,826.3	6,360.0	129.6	129.6	-124.28	-104.1	-4,531.9	266.3	48.2	218.08	1.221	Level 2, SF

Reference Depths are relative to WELL @ 4944.0ft (Original Well Elev)Coordinates are relative to: SRC Cannon S-16NHZ
Offset Depths are relative to Offset DatumCoordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 °Grid Convergence at Surface is: 0.32°



Reference Depths are relative to WELL @ 4944.0ft (Original Well Elev)Coordinates are relative to: SRC Cannon S-16NHZ
Offset Depths are relative to Offset DatumCoordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 °Grid Convergence at Surface is: 0.32°



-16CHZ, Wellbore #1, Plan #1 (10-20-14) V9 - SRC Cannon H-16CHZ, Wellbore #1, Plan #1 (10-20-14) VD - SRC Cannon K-16CHZ, Wellbore #1
-16NHZ, Wellbore #1, Plan #1 (10-20-14) V8 - SRC Cannon 13-16NHZ, Wellbore #1, Plan #1 (10-20-14) V6 - SRC Cannon 13-16CHZ, Wellbore #