

Synergy Resources

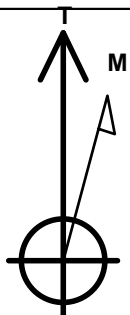
Well Name: **SRC Cannon K-16CHZ**

Surface Location: SRC Cannon Pad Sec.16-T4N-R68W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 4933.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1356004.13	3139482.90	40.309552	-104.999847	
RKB - 13' WELL @ 4946.0ft (RKB - 13')						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 1241'FSL & 280'FEL	1.0	0.0	0.0	Point
BHL 2388'FSL & 475'FWL	6360.0	1103.2	-4531.0	Point



Azimuths to True North
Magnetic North: 8.53°

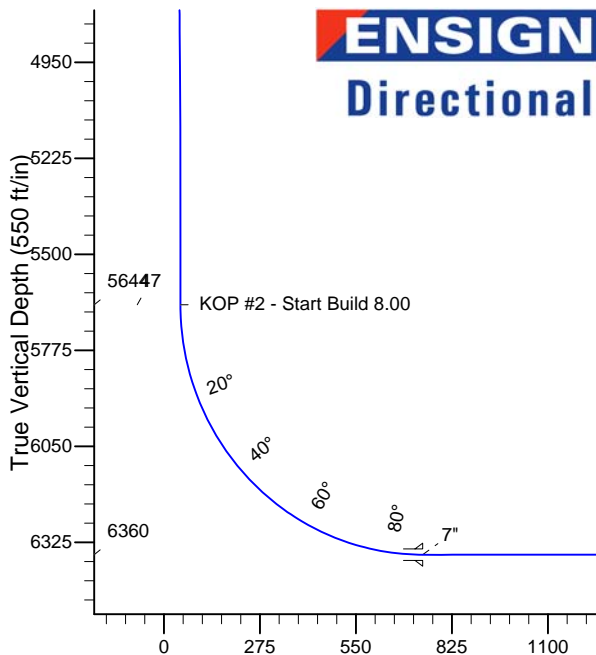
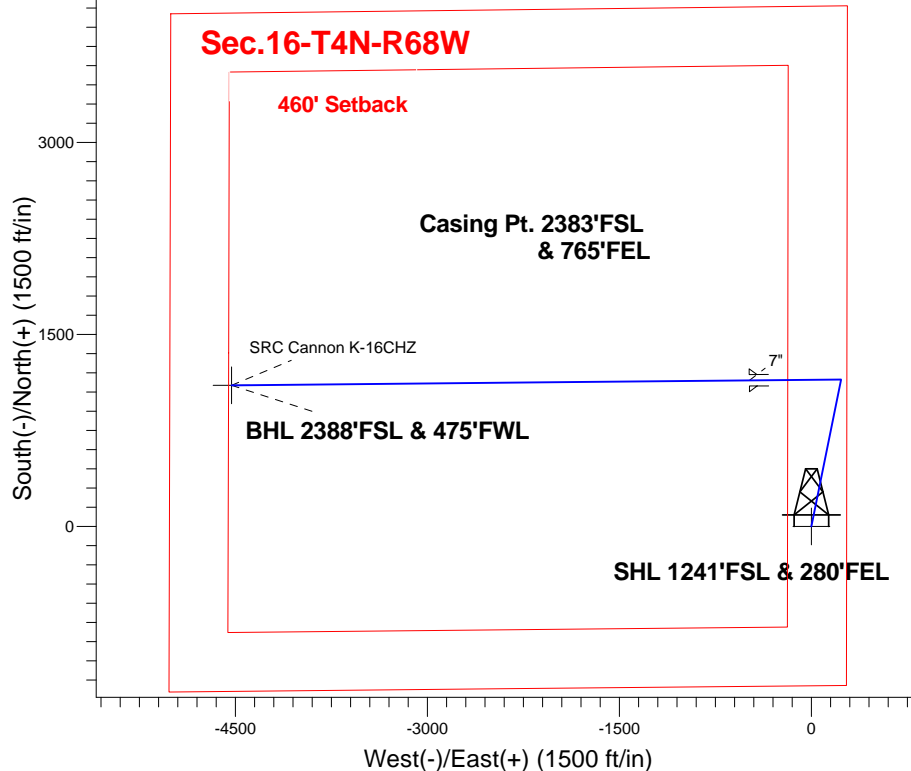
Magnetic Field
Strength: 52705.6srT
Dip Angle: 66.82°
Date: 10/20/2014
Model: IGRF2010

SRC Cannon Pad Sec.16-T4N-R68W
SRC Cannon K-16CHZ
Plan #1 (10-20-14)
13:11, October 21 2014

ANNOTATIONS

TVD	MD	Annotation
200.0	200.0	KOP - Start Build 2.00
4672.1	4807.2	Start Drop -2.00
5643.8	5787.0	KOP #2 - Start Build 8.00
6360.0	10958.0	TD at 10958.0

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



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	936.0	14.72	11.37	927.9	92.2	18.5	2.00	11.37	3.8	
4	4807.2	14.72	11.37	4672.1	1056.5	212.5	0.00	0.00	43.5	
5	5543.2	0.00	0.00	5400.0	1148.7	231.0	2.00	180.00	47.3	
6	5787.0	0.00	0.00	5643.8	1148.7	231.0	0.00	0.00	47.3	
7	6912.0	90.00	269.45	6360.0	1141.9	-485.2	8.00	269.45	741.5	
8	10958.0	90.00	269.45	6360.0	1103.2	-4531.0	0.00	0.00	4663.4	BHL 2388'FSL & 475'FWL

BHL 2388'FSL & 475'FWL

TD at 10958.0

Vertical Section at 283.68° (550 ft/in)



Synergy Resources

SEC.16-T4N-R68W

SRC Cannon Pad Sec.16-T4N-R68W

SRC Cannon K-16CHZ

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
936.0	14.72	11.37	927.9	92.2	18.5	2.00	2.00	0.00	11.37	
4,807.2	14.72	11.37	4,672.1	1,056.5	212.5	0.00	0.00	0.00	0.00	
5,543.2	0.00	0.00	5,400.0	1,148.7	231.0	2.00	-2.00	0.00	180.00	
5,787.0	0.00	0.00	5,643.8	1,148.7	231.0	0.00	0.00	0.00	0.00	
6,912.0	90.00	269.45	6,360.0	1,141.9	-485.2	8.00	8.00	0.00	269.45	
10,958.0	90.00	269.45	6,360.0	1,103.2	-4,531.0	0.00	0.00	0.00	0.00	BHL 2388'FSL & 47

Planned Survey		Actual 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
KOP - Start Build 2.00									
300.0	2.00	11.37	300.0	1.7	0.3	0.1	2.00	2.00	0.00
400.0	4.00	11.37	399.8	6.8	1.4	0.3	2.00	2.00	0.00
500.0	6.00	11.37	499.5	15.4	3.1	0.6	2.00	2.00	0.00
600.0	8.00	11.37	598.7	27.3	5.5	1.1	2.00	2.00	0.00
700.0	10.00	11.37	697.5	42.7	8.6	1.8	2.00	2.00	0.00
800.0	12.00	11.37	795.6	61.4	12.3	2.5	2.00	2.00	0.00
900.0	14.00	11.37	893.1	83.4	16.8	3.4	2.00	2.00	0.00
936.0	14.72	11.37	927.9	92.2	18.5	3.8	2.00	2.00	0.00
1,000.0	14.72	11.37	989.8	108.1	21.7	4.5	0.00	0.00	0.00
1,100.0	14.72	11.37	1,086.5	133.0	26.8	5.5	0.00	0.00	0.00
1,200.0	14.72	11.37	1,183.3	157.9	31.8	6.5	0.00	0.00	0.00
1,300.0	14.72	11.37	1,280.0	182.9	36.8	7.5	0.00	0.00	0.00
1,400.0	14.72	11.37	1,376.7	207.8	41.8	8.6	0.00	0.00	0.00
1,500.0	14.72	11.37	1,473.4	232.7	46.8	9.6	0.00	0.00	0.00
1,600.0	14.72	11.37	1,570.1	257.6	51.8	10.6	0.00	0.00	0.00
1,700.0	14.72	11.37	1,666.9	282.5	56.8	11.6	0.00	0.00	0.00
1,800.0	14.72	11.37	1,763.6	307.4	61.8	12.7	0.00	0.00	0.00
1,900.0	14.72	11.37	1,860.3	332.3	66.8	13.7	0.00	0.00	0.00
2,000.0	14.72	11.37	1,957.0	357.2	71.8	14.7	0.00	0.00	0.00
2,100.0	14.72	11.37	2,053.7	382.1	76.8	15.7	0.00	0.00	0.00
2,200.0	14.72	11.37	2,150.4	407.1	81.9	16.8	0.00	0.00	0.00
2,300.0	14.72	11.37	2,247.2	432.0	86.9	17.8	0.00	0.00	0.00
2,400.0	14.72	11.37	2,343.9	456.9	91.9	18.8	0.00	0.00	0.00
2,500.0	14.72	11.37	2,440.6	481.8	96.9	19.8	0.00	0.00	0.00
2,600.0	14.72	11.37	2,537.3	506.7	101.9	20.9	0.00	0.00	0.00
2,700.0	14.72	11.37	2,634.0	531.6	106.9	21.9	0.00	0.00	0.00
2,800.0	14.72	11.37	2,730.8	556.5	111.9	22.9	0.00	0.00	0.00
2,900.0	14.72	11.37	2,827.5	581.4	116.9	23.9	0.00	0.00	0.00
3,000.0	14.72	11.37	2,924.2	606.3	121.9	25.0	0.00	0.00	0.00
3,100.0	14.72	11.37	3,020.9	631.2	126.9	26.0	0.00	0.00	0.00
3,200.0	14.72	11.37	3,117.6	656.2	132.0	27.0	0.00	0.00	0.00
3,300.0	14.72	11.37	3,214.3	681.1	137.0	28.0	0.00	0.00	0.00
3,400.0	14.72	11.37	3,311.1	706.0	142.0	29.1	0.00	0.00	0.00
3,500.0	14.72	11.37	3,407.8	730.9	147.0	30.1	0.00	0.00	0.00
3,600.0	14.72	11.37	3,504.5	755.8	152.0	31.1	0.00	0.00	0.00
3,700.0	14.72	11.37	3,601.2	780.7	157.0	32.1	0.00	0.00	0.00
3,800.0	14.72	11.37	3,697.9	805.6	162.0	33.2	0.00	0.00	0.00
3,900.0	14.72	11.37	3,794.7	830.5	167.0	34.2	0.00	0.00	0.00
4,000.0	14.72	11.37	3,891.4	855.4	172.0	35.2	0.00	0.00	0.00
4,100.0	14.72	11.37	3,988.1	880.4	177.0	36.2	0.00	0.00	0.00
4,200.0	14.72	11.37	4,084.8	905.3	182.0	37.3	0.00	0.00	0.00
4,300.0	14.72	11.37	4,181.5	930.2	187.1	38.3	0.00	0.00	0.00
4,400.0	14.72	11.37	4,278.2	955.1	192.1	39.3	0.00	0.00	0.00
4,500.0	14.72	11.37	4,375.0	980.0	197.1	40.4	0.00	0.00	0.00
4,600.0	14.72	11.37	4,471.7	1,004.9	202.1	41.4	0.00	0.00	0.00
4,700.0	14.72	11.37	4,568.4	1,029.8	207.1	42.4	0.00	0.00	0.00
4,800.0	14.72	11.37	4,665.1	1,054.7	212.1	43.4	0.00	0.00	0.00
4,807.2	14.72	11.37	4,672.1	1,056.5	212.5	43.5	0.00	0.00	0.00
Start Drop -2.00									
4,900.0	12.86	11.37	4,762.2	1,078.2	216.8	44.4	2.00	-2.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Cannon K-16CHZ
Company:	Synergy Resources	TVD Reference:	WELL @ 4946.0ft (RKB - 13')
Project:	SEC.16-T4N-R68W	MD Reference:	WELL @ 4946.0ft (RKB - 13')
Site:	SRC Cannon Pad Sec.16-T4N-R68W	North Reference:	True
Well:	SRC Cannon K-16CHZ	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)	
5,000.0	10.86	11.37	4,860.1	1,098.4	220.9	45.2	2.00	-2.00	0.00	
5,100.0	8.86	11.37	4,958.6	1,115.2	224.3	45.9	2.00	-2.00	0.00	
5,200.0	6.86	11.37	5,057.6	1,128.6	227.0	46.5	2.00	-2.00	0.00	
5,300.0	4.86	11.37	5,157.1	1,138.6	229.0	46.9	2.00	-2.00	0.00	
5,400.0	2.86	11.37	5,256.9	1,145.2	230.3	47.2	2.00	-2.00	0.00	
5,500.0	0.86	11.37	5,356.8	1,148.4	230.9	47.3	2.00	-2.00	0.00	
5,543.2	0.00	0.00	5,400.0	1,148.7	231.0	47.3	2.00	-2.00	0.00	
5,600.0	0.00	0.00	5,456.8	1,148.7	231.0	47.3	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,556.8	1,148.7	231.0	47.3	0.00	0.00	0.00	
5,787.0	0.00	0.00	5,643.8	1,148.7	231.0	47.3	0.00	0.00	0.00	
KOP #2 - Start Build 8.00										
5,800.0	1.04	269.45	5,656.8	1,148.7	230.9	47.4	8.00	8.00	0.00	
5,900.0	9.04	269.45	5,756.3	1,148.6	222.1	55.9	8.00	8.00	0.00	
6,000.0	17.04	269.45	5,853.7	1,148.4	199.6	77.8	8.00	8.00	0.00	
6,100.0	25.04	269.45	5,946.9	1,148.1	163.7	112.5	8.00	8.00	0.00	
6,200.0	33.04	269.45	6,034.3	1,147.6	115.2	159.6	8.00	8.00	0.00	
6,300.0	41.04	269.45	6,114.0	1,147.0	55.0	217.9	8.00	8.00	0.00	
6,400.0	49.04	269.45	6,184.7	1,146.3	-15.7	286.4	8.00	8.00	0.00	
6,500.0	57.04	269.45	6,244.7	1,145.6	-95.5	363.8	8.00	8.00	0.00	
6,600.0	65.04	269.45	6,293.1	1,144.7	-183.0	448.6	8.00	8.00	0.00	
6,700.0	73.04	269.45	6,328.9	1,143.9	-276.3	539.0	8.00	8.00	0.00	
6,800.0	81.04	269.45	6,351.3	1,142.9	-373.6	633.4	8.00	8.00	0.00	
6,900.0	89.04	269.45	6,359.9	1,142.0	-473.2	729.9	8.00	8.00	0.00	
6,912.0	90.00	269.45	6,360.0	1,141.9	-485.2	741.5	8.00	8.00	0.00	
7"										
7,000.0	90.00	269.45	6,360.0	1,141.0	-573.2	826.8	0.00	0.00	0.00	
7,100.0	90.00	269.45	6,360.0	1,140.1	-673.2	923.7	0.00	0.00	0.00	
7,200.0	90.00	269.45	6,360.0	1,139.1	-773.2	1,020.7	0.00	0.00	0.00	
7,300.0	90.00	269.45	6,360.0	1,138.1	-873.2	1,117.6	0.00	0.00	0.00	
7,400.0	90.00	269.45	6,360.0	1,137.2	-973.1	1,214.5	0.00	0.00	0.00	
7,500.0	90.00	269.45	6,360.0	1,136.2	-1,073.1	1,311.5	0.00	0.00	0.00	
7,600.0	90.00	269.45	6,360.0	1,135.3	-1,173.1	1,408.4	0.00	0.00	0.00	
7,700.0	90.00	269.45	6,360.0	1,134.3	-1,273.1	1,505.3	0.00	0.00	0.00	
7,800.0	90.00	269.45	6,360.0	1,133.4	-1,373.1	1,602.3	0.00	0.00	0.00	
7,900.0	90.00	269.45	6,360.0	1,132.4	-1,473.1	1,699.2	0.00	0.00	0.00	
8,000.0	90.00	269.45	6,360.0	1,131.5	-1,573.1	1,796.1	0.00	0.00	0.00	
8,100.0	90.00	269.45	6,360.0	1,130.5	-1,673.1	1,893.1	0.00	0.00	0.00	
8,200.0	90.00	269.45	6,360.0	1,129.5	-1,773.1	1,990.0	0.00	0.00	0.00	
8,300.0	90.00	269.45	6,360.0	1,128.6	-1,873.1	2,086.9	0.00	0.00	0.00	
8,400.0	90.00	269.45	6,360.0	1,127.6	-1,973.1	2,183.9	0.00	0.00	0.00	
8,500.0	90.00	269.45	6,360.0	1,126.7	-2,073.1	2,280.8	0.00	0.00	0.00	
8,600.0	90.00	269.45	6,360.0	1,125.7	-2,173.1	2,377.7	0.00	0.00	0.00	
8,700.0	90.00	269.45	6,360.0	1,124.8	-2,273.1	2,474.6	0.00	0.00	0.00	
8,800.0	90.00	269.45	6,360.0	1,123.8	-2,373.1	2,571.6	0.00	0.00	0.00	
8,900.0	90.00	269.45	6,360.0	1,122.9	-2,473.1	2,668.5	0.00	0.00	0.00	
9,000.0	90.00	269.45	6,360.0	1,121.9	-2,573.1	2,765.4	0.00	0.00	0.00	
9,100.0	90.00	269.45	6,360.0	1,120.9	-2,673.1	2,862.4	0.00	0.00	0.00	
9,200.0	90.00	269.45	6,360.0	1,120.0	-2,773.1	2,959.3	0.00	0.00	0.00	
9,300.0	90.00	269.45	6,360.0	1,119.0	-2,873.1	3,056.2	0.00	0.00	0.00	
9,400.0	90.00	269.45	6,360.0	1,118.1	-2,973.1	3,153.2	0.00	0.00	0.00	
9,500.0	90.00	269.45	6,360.0	1,117.1	-3,073.1	3,250.1	0.00	0.00	0.00	
9,600.0	90.00	269.45	6,360.0	1,116.2	-3,173.0	3,347.0	0.00	0.00	0.00	
9,700.0	90.00	269.45	6,360.0	1,115.2	-3,273.0	3,444.0	0.00	0.00	0.00	
9,800.0	90.00	269.45	6,360.0	1,114.2	-3,373.0	3,540.9	0.00	0.00	0.00	

Plan Annotations					
	Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
			+N/-S	+E/-W	
			(ft)	(ft)	
	200.0	200.0	0.0	0.0	KOP - Start Build 2.00
	4,807.2	4,672.1	1,056.5	212.5	Start Drop -2.00
	5,787.0	5,643.8	1,148.7	231.0	KOP #2 - Start Build 8.00
	10,958.0	6,360.0	1,103.2	-4,531.0	TD at 10958.0



Synergy Resources

SEC.16-T4N-R68W

SRC Cannon Pad Sec.16-T4N-R68W

SRC Cannon K-16CHZ

Wellbore #1

Plan #1 (10-20-14)

Anticollision Report

21 October, 2014

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Cannon K-16CHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4946.0ft (RKB - 13')
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4946.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon K-16CHZ	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	10,958.0	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						
Existing Wells Pad Sec.16-T4N-R68W						
Zoller #1 (P&A) - Wellbore #1 - Wellbore #1						Out of range
SRC Cannon Pad Sec.16-T4N-R68W						
SRC Cannon 13-16CHZ - Wellbore #1 - Plan #1 (10-20-1	200.0	199.0	45.2	44.5	67.250	CC, ES
SRC Cannon 13-16CHZ - Wellbore #1 - Plan #1 (10-20-1	10,958.0	10,880.9	440.1	181.3	1.700	SF
SRC Cannon 13-16NHZ - Wellbore #1 - Plan #1 (10-20-1	200.0	200.0	22.6	21.9	33.497	CC, ES
SRC Cannon 13-16NHZ - Wellbore #1 - Plan #1 (10-20-1	10,958.0	10,768.4	266.3	51.4	1.239	Level 2, SF
SRC Cannon 14-16CHZ - Wellbore #1 - Plan #1 (10-20-1	200.0	196.0	225.2	224.5	338.427	CC, ES
SRC Cannon 14-16CHZ - Wellbore #1 - Plan #1 (10-20-1	2,400.0	2,179.2	986.4	975.1	87.007	SF
SRC Cannon 14-16NHZ - Wellbore #1 - Plan #1 (10-20-1	200.0	196.0	202.6	201.9	304.453	CC, ES
SRC Cannon 14-16NHZ - Wellbore #1 - Plan #1 (10-20-1	1,100.0	1,054.6	348.1	343.4	73.132	SF
SRC Cannon 24-16CHZ - Wellbore #1 - Plan #1 (10-20-1	200.0	197.0	180.0	179.3	269.592	CC, ES
SRC Cannon 24-16CHZ - Wellbore #1 - Plan #1 (10-20-1	1,200.0	1,163.9	343.7	338.5	65.160	SF
SRC Cannon 24-16NHZ - Wellbore #1 - Plan #1 (10-20-1	200.0	197.0	157.8	157.1	236.327	CC, ES
SRC Cannon 24-16NHZ - Wellbore #1 - Plan #1 (10-20-1	1,500.0	1,464.9	393.8	387.0	58.119	SF
SRC Cannon H-16CHZ - Wellbore #1 - Plan #1 (10-20-1	200.0	198.0	90.0	89.3	134.344	CC, ES
SRC Cannon H-16CHZ - Wellbore #1 - Plan #1 (10-20-1	10,958.0	10,834.4	879.7	621.0	3.400	SF
SRC Cannon H-16NHZ - Wellbore #1 - Plan #1 (10-20-1	200.0	199.0	67.8	67.1	100.859	CC, ES
SRC Cannon H-16NHZ - Wellbore #1 - Plan #1 (10-20-1	10,958.0	10,704.1	676.7	424.8	2.686	SF
SRC Cannon S-16CHZ - Wellbore #1 - Plan #1 (10-20-14	200.0	198.0	135.2	134.5	201.812	CC, ES
SRC Cannon S-16CHZ - Wellbore #1 - Plan #1 (10-20-14	3,900.0	3,787.7	985.5	966.5	51.925	SF
SRC Cannon S-16NHZ - Wellbore #1 - Plan #1 (10-20-14	200.0	198.0	112.6	111.9	168.066	CC, ES
SRC Cannon S-16NHZ - Wellbore #1 - Plan #1 (10-20-14	4,100.0	4,044.0	841.4	820.0	39.303	SF
SRC Markham Pad Sec.16-T4N-R68W						
SRC Markham 31-16-9CHZ - Wellbore #1 - Plan #1 (3-31	8,212.5	6,371.7	367.7	309.9	6.365	CC, ES, SF
SRC Markham 31-16-9NHZ - Wellbore #1 - Plan #1 (3-31	7,989.3	6,340.2	475.6	423.5	9.122	CC, ES
SRC Markham 31-16-9NHZ - Wellbore #1 - Plan #1 (3-31	8,000.0	6,338.9	475.7	423.6	9.119	SF
SRC Markham 41-16-9CHZ - Wellbore #1 - Plan #1 (3-31	6,915.9	6,700.0	359.7	307.1	6.835	CC, ES, SF
SRC Markham 41-16-9NHZ - Wellbore #1 - Plan #1 (3-31	6,493.3	6,674.7	416.0	366.1	8.328	CC, ES, SF
SRC Markham C-16-9CHZ - Wellbore #1 - Plan #1 (3-31	7,784.1	6,466.1	364.3	309.4	6.634	CC, ES, SF
SRC Markham C-16-9NHZ - Wellbore #1 - Plan #1 (3-31	7,556.1	6,450.0	472.5	422.0	9.369	CC, ES, SF
SRC Markham R-16-9CHZ - Wellbore #1 - Plan#1 (3-31-	7,353.5	6,574.3	361.9	309.1	6.846	CC, ES, SF
SRC Markham R-16-9NHZ - Wellbore #1 - Plan #1 (3-31	7,100.0	6,564.5	471.0	422.5	9.708	SF
SRC Markham R-16-9NHZ - Wellbore #1 - Plan #1 (3-31	7,124.8	6,560.5	470.4	422.0	9.712	CC, ES

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Cannon K-16CHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4946.0ft (RKB - 13')
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4946.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon K-16CHZ	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 13-16CHZ - Wellbore #1 - Plan #1 (10-20-14)														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	-179.65	-45.2	-0.3	45.2					
100.0	100.0	99.0	99.0	0.1	0.1	-179.65	-179.65	-45.2	-0.3	45.2	45.0	0.22	202.086		
200.0	200.0	199.0	199.0	0.3	0.3	-179.65	-179.65	-45.2	-0.3	45.2	44.5	0.67	67.250 CC, ES		
300.0	300.0	299.0	299.0	0.6	0.6	169.38	169.38	-45.2	-0.3	46.9	45.8	1.13	41.545		
400.0	399.8	398.8	398.8	0.8	0.8	170.43	170.43	-45.2	-0.3	52.1	50.5	1.59	32.730		
500.0	499.5	498.5	498.5	1.0	1.0	171.77	171.77	-45.2	-0.3	60.7	58.6	2.05	29.562		
600.0	598.7	597.7	597.7	1.3	1.2	173.12	173.12	-45.2	-0.3	72.8	70.2	2.51	28.932		
700.0	697.5	696.5	696.5	1.6	1.5	174.30	174.30	-45.2	-0.3	88.3	85.3	2.98	29.655		
800.0	795.6	794.6	794.6	2.0	1.7	175.28	175.28	-45.2	-0.3	107.3	103.9	3.44	31.177		
900.0	893.1	896.3	896.3	2.4	1.9	175.98	175.98	-43.6	0.2	128.2	124.3	3.91	32.813		
1,000.0	989.8	999.2	999.0	2.9	2.1	176.34	176.34	-38.6	1.7	148.4	144.0	4.38	33.919		
1,100.0	1,086.5	1,103.4	1,102.8	3.4	2.4	176.42	176.42	-29.8	4.4	165.3	160.4	4.86	33.999		
1,200.0	1,183.3	1,208.7	1,207.3	3.9	2.6	176.28	176.28	-17.4	8.2	178.6	173.3	5.37	33.293		
1,300.0	1,280.0	1,315.0	1,312.2	4.4	2.9	175.98	175.98	-1.1	13.2	188.4	182.5	5.88	32.008		
1,400.0	1,376.7	1,416.1	1,411.6	4.9	3.3	175.58	175.58	16.9	18.7	195.6	189.2	6.41	30.525		
1,500.0	1,473.4	1,515.8	1,509.5	5.4	3.6	175.22	175.22	34.6	24.1	202.8	195.8	6.94	29.232		
1,600.0	1,570.1	1,615.5	1,607.5	5.9	3.9	174.88	174.88	52.4	29.6	210.0	202.5	7.47	28.096		
1,700.0	1,666.9	1,715.3	1,705.5	6.4	4.3	174.57	174.57	70.1	35.0	217.2	209.2	8.01	27.115		
1,800.0	1,763.6	1,815.0	1,803.5	7.0	4.7	174.27	174.27	87.8	40.4	224.4	215.8	8.55	26.234		
1,900.0	1,860.3	1,914.7	1,901.5	7.5	5.0	174.00	174.00	105.6	45.9	231.6	222.5	9.10	25.451		
2,000.0	1,957.0	2,014.5	1,999.5	8.0	5.4	173.74	173.74	123.3	51.3	238.8	229.1	9.65	24.749		
2,100.0	2,053.7	2,114.2	2,097.5	8.5	5.8	173.49	173.49	141.1	56.7	246.0	235.8	10.20	24.117		
2,200.0	2,150.4	2,213.9	2,195.5	9.0	6.2	173.26	173.26	158.8	62.2	253.2	242.5	10.75	23.544		
2,300.0	2,247.2	2,313.7	2,293.5	9.5	6.6	173.04	173.04	176.6	67.6	260.4	249.1	11.31	23.024		
2,400.0	2,343.9	2,413.4	2,391.5	10.1	7.0	172.84	172.84	194.3	73.0	267.7	255.8	11.87	22.550		
2,500.0	2,440.6	2,513.1	2,489.5	10.6	7.3	172.64	172.64	212.1	78.5	274.9	262.5	12.43	22.115		
2,600.0	2,537.3	2,612.9	2,587.5	11.1	7.7	172.46	172.46	229.8	83.9	282.1	269.1	12.99	21.715		
2,700.0	2,634.0	2,712.6	2,685.4	11.6	8.1	172.28	172.28	247.6	89.3	289.4	275.8	13.56	21.346		
2,800.0	2,730.8	2,812.4	2,783.4	12.1	8.5	172.11	172.11	265.3	94.8	296.6	282.5	14.12	21.005		
2,900.0	2,827.5	2,912.1	2,881.4	12.6	8.9	171.95	171.95	283.1	100.2	303.8	289.2	14.69	20.689		
3,000.0	2,924.2	3,011.8	2,979.4	13.2	9.3	171.80	171.80	300.8	105.6	311.1	295.8	15.25	20.394		
3,100.0	3,020.9	3,111.6	3,077.4	13.7	9.7	171.66	171.66	318.6	111.0	318.3	302.5	15.82	20.120		
3,200.0	3,117.6	3,211.3	3,175.4	14.2	10.1	171.52	171.52	336.3	116.5	325.6	309.2	16.39	19.863		
3,300.0	3,214.3	3,311.0	3,273.4	14.7	10.5	171.39	171.39	354.1	121.9	332.8	315.9	16.96	19.623		
3,400.0	3,311.1	3,410.8	3,371.4	15.2	10.9	171.26	171.26	371.8	127.3	340.1	322.5	17.53	19.397		
3,500.0	3,407.8	3,510.5	3,469.4	15.8	11.3	171.14	171.14	389.5	132.8	347.3	329.2	18.10	19.185		
3,600.0	3,504.5	3,610.2	3,567.4	16.3	11.7	171.02	171.02	407.3	138.2	354.6	335.9	18.68	18.986		
3,700.0	3,601.2	3,710.0	3,665.4	16.8	12.1	170.91	170.91	425.0	143.6	361.8	342.6	19.25	18.797		
3,800.0	3,697.9	3,809.7	3,763.4	17.3	12.5	170.80	170.80	442.8	149.1	369.1	349.3	19.82	18.619		
3,900.0	3,794.7	3,909.4	3,861.4	17.8	12.9	170.70	170.70	460.5	154.5	376.3	355.9	20.40	18.450		
4,000.0	3,891.4	4,009.2	3,959.3	18.4	13.3	170.60	170.60	478.3	159.9	383.6	362.6	20.97	18.291		
4,100.0	3,988.1	4,108.9	4,057.3	18.9	13.8	170.50	170.50	496.0	165.4	390.9	369.3	21.55	18.139		
4,200.0	4,084.8	4,208.6	4,155.3	19.4	14.2	170.41	170.41	513.8	170.8	398.1	376.0	22.12	17.995		
4,300.0	4,181.5	4,308.4	4,253.3	19.9	14.6	170.32	170.32	531.5	176.2	405.4	382.7	22.70	17.857		
4,400.0	4,278.2	4,408.1	4,351.3	20.4	15.0	170.24	170.24	549.3	181.7	412.7	389.4	23.28	17.727		
4,500.0	4,375.0	4,507.8	4,449.3	21.0	15.4	170.15	170.15	567.0	187.1	419.9	396.1	23.86	17.602		
4,600.0	4,471.7	4,607.6	4,547.3	21.5	15.8	170.07	170.07	584.8	192.5	427.2	402.7	24.43	17.483		
4,700.0	4,568.4	4,707.3	4,645.3	22.0	16.2	169.99	169.99	602.5	198.0	434.4	409.4	25.01	17.369		
4,800.0	4,665.1	4,807.0	4,743.3	22.5	16.6	169.92	169.92	620.3	203.4	441.7	416.1	25.59	17.260		
4,900.0	4,762.2	4,906.9	4,841.4	23.0	17.0	169.83	169.83	638.0	208.8	447.5	421.3	26.18	17.095		
5,000.0	4,860.1	5,006.8	4,939.6	23.3	17.4	169.66	169.66	655.8	214.3	449.9	423.2	26.71	16.841		
5,100.0	4,958.6	5,100.0	5,031.3	23.6	17.7	169.44	169.44	671.7	219.1	449.6	422.4	27.17	16.544		

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 K-16CHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4946.0ft (RKB - 13')
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4946.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon K-16CHZ	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 13-16CHZ - 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		
5,200.0	5,057.6	5,184.2	5,114.6	23.9	18.0	169.26	683.7	222.8	448.6	421.1	27.53	16.298		
5,300.0	5,157.1	5,271.2	5,200.9	24.1	18.2	169.09	693.6	225.8	447.2	419.4	27.84	16.066		
5,400.0	5,256.9	5,358.2	5,287.5	24.3	18.4	168.94	701.1	228.1	445.3	417.2	28.09	15.852		
5,500.0	5,356.8	5,445.2	5,374.4	24.4	18.5	168.81	706.0	229.6	442.8	414.5	28.29	15.653		
5,600.0	5,456.8	5,532.3	5,461.5	24.5	18.7	-179.91	708.4	230.3	440.4	397.9	42.51	10.361		
5,659.7	5,516.5	5,586.4	5,515.5	24.6	18.7	-179.92	708.6	230.4	440.1	397.5	42.64	10.322		
5,700.0	5,556.8	5,626.7	5,555.8	24.6	18.8	-179.92	708.6	230.4	440.1	397.4	42.73	10.298		
5,800.0	5,656.8	5,726.6	5,655.7	24.7	18.9	-89.38	708.6	230.3	440.1	410.9	29.23	15.056		
5,900.0	5,756.3	5,825.9	5,754.6	24.8	19.0	-89.40	708.5	221.8	440.1	410.6	29.49	14.925		
6,000.0	5,853.7	5,925.3	5,851.4	24.8	19.1	-89.44	708.3	199.7	440.1	410.4	29.65	14.843		
6,100.0	5,946.9	6,024.7	5,944.3	24.8	19.1	-89.49	708.0	164.3	440.1	410.3	29.77	14.782		
6,200.0	6,034.3	6,124.2	6,031.4	24.8	19.1	-89.55	707.5	116.5	440.1	410.1	29.95	14.696		
6,300.0	6,114.0	6,223.8	6,111.1	24.8	19.1	-89.61	706.9	57.0	440.1	409.8	30.30	14.524		
6,400.0	6,184.7	6,323.4	6,181.9	24.9	19.1	-89.69	706.3	-13.1	440.1	409.1	31.00	14.194		
6,500.0	6,244.7	6,423.1	6,242.2	24.9	19.2	-89.77	705.5	-92.3	440.1	407.9	32.22	13.659		
6,600.0	6,293.1	6,522.9	6,291.1	25.1	19.4	-89.85	704.7	-179.2	440.1	406.0	34.07	12.918		
6,700.0	6,328.9	6,622.8	6,327.4	25.3	19.9	-89.94	703.8	-272.2	440.1	403.5	36.58	12.030		
6,800.0	6,351.3	6,722.8	6,350.5	25.8	21.0	-90.03	702.9	-369.4	440.1	400.4	39.71	11.081		
6,802.8	6,351.7	6,725.6	6,350.9	25.8	21.0	-90.03	702.8	-372.2	440.1	400.3	39.81	11.054		
6,900.0	6,359.9	6,822.9	6,359.8	26.6	22.5	-90.12	701.9	-468.9	440.1	396.7	43.33	10.157		
7,000.0	6,360.0	6,922.9	6,360.0	27.8	24.4	-90.13	701.0	-569.0	440.1	392.8	47.30	9.304		
7,100.0	6,360.0	7,022.9	6,360.0	29.3	26.4	-90.13	700.0	-669.0	440.1	388.5	51.56	8.535		
7,200.0	6,360.0	7,122.9	6,360.0	31.1	28.6	-90.13	699.1	-769.0	440.1	384.0	56.06	7.850		
7,300.0	6,360.0	7,222.9	6,360.0	33.1	30.9	-90.13	698.1	-868.9	440.1	379.3	60.75	7.244		
7,400.0	6,360.0	7,322.9	6,360.0	35.3	33.3	-90.13	697.1	-968.9	440.1	374.5	65.58	6.710		
7,500.0	6,360.0	7,422.9	6,360.0	37.5	35.7	-90.13	696.2	-1,068.9	440.1	369.5	70.53	6.240		
7,600.0	6,360.0	7,522.9	6,360.0	39.9	38.2	-90.13	695.2	-1,168.9	440.1	364.5	75.56	5.824		
7,700.0	6,360.0	7,622.9	6,360.0	42.3	40.8	-90.13	694.3	-1,268.9	440.1	359.4	80.68	5.454		
7,800.0	6,360.0	7,722.9	6,360.0	44.8	43.3	-90.13	693.3	-1,368.9	440.1	354.2	85.86	5.126		
7,900.0	6,360.0	7,822.9	6,360.0	47.3	45.9	-90.13	692.4	-1,468.9	440.1	349.0	91.08	4.831		
8,000.0	6,360.0	7,922.9	6,360.0	49.8	48.5	-90.13	691.4	-1,568.9	440.1	343.7	96.35	4.567		
8,100.0	6,360.0	8,022.9	6,360.0	52.4	51.2	-90.13	690.5	-1,668.9	440.1	338.4	101.66	4.329		
8,200.0	6,360.0	8,122.9	6,360.0	55.0	53.8	-90.13	689.5	-1,768.9	440.1	333.1	107.00	4.113		
8,300.0	6,360.0	8,222.9	6,360.0	57.6	56.5	-90.13	688.5	-1,868.9	440.1	327.7	112.36	3.916		
8,400.0	6,360.0	8,322.9	6,360.0	60.2	59.2	-90.13	687.6	-1,968.9	440.1	322.3	117.75	3.737		
8,500.0	6,360.0	8,422.9	6,360.0	62.9	61.9	-90.13	686.6	-2,068.9	440.1	316.9	123.16	3.573		
8,600.0	6,360.0	8,522.9	6,360.0	65.5	64.6	-90.13	685.7	-2,168.9	440.1	311.5	128.58	3.422		
8,700.0	6,360.0	8,622.9	6,360.0	68.2	67.3	-90.13	684.7	-2,268.9	440.1	306.0	134.02	3.283		
8,800.0	6,360.0	8,722.9	6,360.0	70.9	70.0	-90.13	683.8	-2,368.9	440.1	300.6	139.48	3.155		
8,900.0	6,360.0	8,822.9	6,360.0	73.6	72.7	-90.13	682.8	-2,468.9	440.1	295.1	144.94	3.036		
9,000.0	6,360.0	8,922.9	6,360.0	76.3	75.4	-90.13	681.9	-2,568.9	440.1	289.6	150.42	2.926		
9,100.0	6,360.0	9,022.9	6,360.0	79.0	78.2	-90.13	680.9	-2,668.9	440.1	284.2	155.90	2.823		
9,200.0	6,360.0	9,122.9	6,360.0	81.7	80.9	-90.13	679.9	-2,768.9	440.1	278.7	161.40	2.727		
9,300.0	6,360.0	9,222.9	6,360.0	84.4	83.7	-90.13	679.0	-2,868.9	440.1	273.2	166.90	2.637		
9,400.0	6,360.0	9,322.9	6,360.0	87.1	86.4	-90.13	678.0	-2,968.9	440.1	267.7	172.41	2.552		
9,500.0	6,360.0	9,422.9	6,360.0	89.9	89.2	-90.13	677.1	-3,068.8	440.1	262.1	177.92	2.473		
9,600.0	6,360.0	9,522.9	6,360.0	92.6	91.9	-90.13	676.1	-3,168.8	440.1	256.6	183.44	2.399		
9,700.0	6,360.0	9,622.9	6,360.0	95.3	94.7	-90.13	675.2	-3,268.8	440.1	251.1	188.97	2.329		
9,800.0	6,360.0	9,722.9	6,360.0	98.1	97.4	-90.13	674.2	-3,368.8	440.1	245.6	194.50	2.263		
9,900.0	6,360.0	9,822.9	6,360.0	100.8	100.2	-90.13	673.3	-3,468.8	440.1	240.0	200.03	2.200		
10,000.0	6,360.0	9,922.9	6,360.0	103.6	102.9	-90.13	672.3	-3,568.8	440.1	234.5	205.57	2.141		
10,100.0	6,360.0	10,022.9	6,360.0	106.3	105.7	-90.13	671.3	-3,668.8	440.1	228.9	211.11	2.084		

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 K-16CHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4946.0ft (RKB - 13')
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4946.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon K-16CHZ	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 13-16CHZ - 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
10,200.0	6,360.0	10,122.9	6,360.0	109.1	108.5	-90.13	670.4	-3,768.8	440.1	223.4	216.66	2.031	
10,300.0	6,360.0	10,222.9	6,360.0	111.8	111.3	-90.13	669.4	-3,868.8	440.1	217.8	222.21	1.980	
10,400.0	6,360.0	10,322.9	6,360.0	114.6	114.0	-90.13	668.5	-3,968.8	440.1	212.3	227.76	1.932	
10,500.0	6,360.0	10,422.9	6,360.0	117.4	116.8	-90.13	667.5	-4,068.8	440.1	206.7	233.32	1.886	
10,600.0	6,360.0	10,522.9	6,360.0	120.1	119.6	-90.13	666.6	-4,168.8	440.1	201.2	238.87	1.842	
10,700.0	6,360.0	10,622.9	6,360.0	122.9	122.4	-90.13	665.6	-4,268.8	440.1	195.6	244.43	1.800	
10,800.0	6,360.0	10,722.9	6,360.0	125.7	125.1	-90.13	664.7	-4,368.8	440.1	190.1	249.99	1.760	
10,900.0	6,360.0	10,822.9	6,360.0	128.4	127.9	-90.13	663.7	-4,468.8	440.1	184.5	255.56	1.722	
10,958.0	6,360.0	10,880.9	6,360.0	130.0	129.5	-90.13	663.1	-4,526.8	440.1	181.3	258.79	1.700 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						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	100.491	
200.0	200.0	200.0	200.0	0.3	0.3	180.00	-22.6	0.0	22.6	21.9	0.67	33.497 CC, ES	
300.0	300.0	300.0	300.0	0.6	0.6	169.43	-22.6	0.0	24.3	23.2	1.13	21.479	
400.0	399.8	399.8	399.8	0.8	0.8	171.29	-22.6	0.0	29.5	27.9	1.59	18.495	
500.0	499.5	500.7	500.7	1.0	1.0	172.84	-20.9	0.4	36.4	34.3	2.05	17.745	
600.0	598.7	601.9	601.7	1.3	1.2	173.70	-15.7	1.7	43.3	40.8	2.50	17.286	
700.0	697.5	703.3	702.7	1.6	1.5	174.16	-7.0	3.8	50.2	47.2	2.96	16.923	
800.0	795.6	804.9	803.6	2.0	1.8	174.36	5.2	6.7	57.0	53.6	3.44	16.600	
900.0	893.1	906.8	904.2	2.4	2.1	174.38	20.9	10.6	63.8	59.9	3.92	16.287	
1,000.0	989.8	1,009.0	1,004.4	2.9	2.4	174.23	40.1	15.2	69.9	65.5	4.43	15.777	
1,100.0	1,086.5	1,109.9	1,102.8	3.4	2.8	173.80	61.8	20.5	73.3	68.3	4.96	14.769	
1,200.0	1,183.3	1,209.9	1,200.2	3.9	3.3	173.38	83.6	25.8	76.5	70.9	5.51	13.883	
1,300.0	1,280.0	1,309.8	1,297.6	4.4	3.7	173.00	105.4	31.1	79.6	73.5	6.06	13.135	
1,400.0	1,376.7	1,409.8	1,395.0	4.9	4.1	172.64	127.2	36.4	82.8	76.1	6.61	12.512	
1,500.0	1,473.4	1,509.7	1,492.4	5.4	4.6	172.31	149.0	41.7	85.9	78.7	7.18	11.969	
1,600.0	1,570.1	1,609.7	1,589.8	5.9	5.0	172.01	170.8	47.0	89.1	81.3	7.75	11.500	
1,700.0	1,666.9	1,709.6	1,687.2	6.4	5.5	171.72	192.6	52.3	92.2	83.9	8.32	11.091	
1,800.0	1,763.6	1,809.6	1,784.6	7.0	5.9	171.46	214.4	57.6	95.4	86.5	8.89	10.730	
1,900.0	1,860.3	1,909.5	1,882.0	7.5	6.4	171.21	236.2	62.9	98.6	89.1	9.47	10.411	
2,000.0	1,957.0	2,009.5	1,979.4	8.0	6.9	170.97	258.0	68.2	101.8	91.7	10.05	10.125	
2,100.0	2,053.7	2,109.4	2,076.8	8.5	7.3	170.75	279.8	73.5	104.9	94.3	10.63	9.869	
2,200.0	2,150.4	2,209.4	2,174.2	9.0	7.8	170.55	301.6	78.8	108.1	96.9	11.22	9.638	
2,300.0	2,247.2	2,309.3	2,271.6	9.5	8.2	170.35	323.4	84.1	111.3	99.5	11.80	9.428	
2,400.0	2,343.9	2,409.3	2,369.0	10.1	8.7	170.17	345.2	89.3	114.4	102.1	12.39	9.238	
2,500.0	2,440.6	2,509.2	2,466.4	10.6	9.2	170.00	367.0	94.6	117.6	104.6	12.98	9.063	
2,600.0	2,537.3	2,609.2	2,563.8	11.1	9.6	169.83	388.9	99.9	120.8	107.2	13.57	8.903	
2,700.0	2,634.0	2,709.1	2,661.2	11.6	10.1	169.67	410.7	105.2	124.0	109.8	14.16	8.755	
2,800.0	2,730.8	2,809.0	2,758.6	12.1	10.6	169.53	432.5	110.5	127.2	112.4	14.75	8.619	
2,900.0	2,827.5	2,909.0	2,856.0	12.6	11.0	169.39	454.3	115.8	130.3	115.0	15.35	8.493	
3,000.0	2,924.2	3,008.9	2,953.4	13.2	11.5	169.25	476.1	121.1	133.5	117.6	15.94	8.375	
3,100.0	3,020.9	3,108.9	3,050.8	13.7	12.0	169.12	497.9	126.4	136.7	120.2	16.54	8.266	
3,200.0	3,117.6	3,208.8	3,148.2	14.2	12.4	169.00	519.7	131.7	139.9	122.7	17.13	8.164	
3,300.0	3,214.3	3,308.8	3,245.6	14.7	12.9	168.88	541.5	137.0	143.1	125.3	17.73	8.068	
3,400.0	3,311.1	3,408.7	3,343.0	15.2	13.4	168.77	563.3	142.3	146.2	127.9	18.33	7.979	
3,500.0	3,407.8	3,508.7	3,440.4	15.8	13.8	168.66	585.1	147.6	149.4	130.5	18.93	7.895	
3,600.0	3,504.5	3,608.6	3,537.8	16.3	14.3	168.56	606.9	152.9	152.6	133.1	19.53	7.815	
3,700.0	3,601.2	3,708.6	3,635.2	16.8	14.8	168.46	628.7	158.2	155.8	135.7	20.13	7.741	
3,800.0	3,697.9	3,808.5	3,732.6	17.3	15.3	168.37	650.5	163.5	159.0	138.3	20.73	7.670	
3,900.0	3,794.7	3,908.5	3,830.0	17.8	15.7	168.28	672.3	168.8	162.2	140.8	21.33	7.603	
4,000.0	3,891.4	4,008.4	3,927.4	18.4	16.2	168.19	694.1	174.1	165.4	143.4	21.93	7.540	
4,100.0	3,988.1	4,108.4	4,024.8	18.9	16.7	168.11	715.9	179.4	168.5	146.0	22.53	7.480	
4,200.0	4,084.8	4,208.3	4,122.2	19.4	17.1	168.03	737.7	184.7	171.7	148.6	23.14	7.423	
4,300.0	4,181.5	4,308.3	4,219.6	19.9	17.6	167.95	759.5	190.0	174.9	151.2	23.74	7.369	
4,400.0	4,278.2	4,408.2	4,317.0	20.4	18.1	167.87	781.3	195.3	178.1	153.8	24.34	7.317	
4,500.0	4,375.0	4,508.2	4,414.4	21.0	18.5	167.80	803.1	200.6	181.3	156.3	24.95	7.268	
4,600.0	4,471.7	4,608.1	4,511.8	21.5	19.0	167.73	824.9	205.9	184.5	158.9	25.55	7.220	
4,700.0	4,568.4	4,708.1	4,609.2	22.0	19.5	167.66	846.7	211.1	187.7	161.5	26.15	7.176	
4,800.0	4,665.1	4,804.9	4,703.6	22.5	19.9	167.63	867.4	216.2	191.3	164.5	26.73	7.156	
4,900.0	4,762.2	4,900.0	4,796.9	23.0	20.2	167.73	885.2	220.5	196.2	169.0	27.21	7.209	
5,000.0	4,860.1	4,992.3	4,888.0	23.3	20.5	167.85	899.5	224.0	200.9	173.3	27.61	7.275	
5,100.0	4,958.6	5,085.8	4,980.7	23.6	20.7	167.98	911.1	226.8	205.3	177.3	27.95	7.344	

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)			
5,200.0	5,057.6	5,179.1	5,073.7	23.9	20.9	168.12	919.7	228.9	209.5	181.2	28.24	7.418		
5,300.0	5,157.1	5,272.4	5,166.7	24.1	21.1	168.28	925.4	230.3	213.4	184.9	28.47	7.497		
5,400.0	5,256.9	5,365.5	5,259.8	24.3	21.2	168.45	928.1	230.9	217.1	188.4	28.63	7.581		
5,500.0	5,356.8	5,462.5	5,356.8	24.4	21.3	168.61	928.4	231.0	220.0	191.2	28.77	7.645		
5,600.0	5,456.8	5,562.5	5,456.8	24.5	21.4	-180.00	928.4	231.0	220.3	175.0	45.33	4.859		
5,634.2	5,491.0	5,596.7	5,491.0	24.5	21.5	-180.00	928.4	231.0	220.3	174.9	45.41	4.851		
5,700.0	5,556.8	5,662.2	5,556.4	24.6	21.6	-179.29	928.4	228.3	220.3	174.7	45.62	4.830		
5,800.0	5,656.8	5,759.3	5,652.3	24.7	21.6	-84.86	928.2	213.2	221.2	192.2	29.01	7.625		
5,900.0	5,756.3	5,853.3	5,742.4	24.8	21.6	-79.84	928.0	186.5	223.9	195.1	28.81	7.773		
6,000.0	5,853.7	5,945.1	5,826.2	24.8	21.6	-75.19	927.6	149.2	228.1	199.2	28.88	7.897		
6,100.0	5,946.9	6,035.0	5,903.0	24.8	21.6	-71.00	927.2	102.6	233.3	204.2	29.15	8.006		
6,200.0	6,034.3	6,123.2	5,972.1	24.8	21.6	-67.31	926.7	47.9	239.2	209.7	29.44	8.123		
6,300.0	6,114.0	6,209.9	6,033.0	24.8	21.7	-64.15	926.1	-13.8	245.2	215.5	29.71	8.253		
6,400.0	6,184.7	6,295.5	6,085.3	24.9	21.7	-61.53	925.4	-81.4	251.0	221.1	29.82	8.417		
6,500.0	6,244.7	6,380.1	6,128.8	24.9	21.8	-59.41	924.8	-153.9	256.2	226.2	29.99	8.542		
6,600.0	6,293.1	6,464.0	6,163.1	25.1	22.0	-57.80	924.0	-230.3	260.5	230.2	30.30	8.598		
6,700.0	6,328.9	6,550.0	6,188.8	25.3	22.5	-56.63	923.2	-312.4	263.8	232.8	30.95	8.523		
6,800.0	6,351.3	6,630.1	6,203.8	25.8	23.1	-55.97	922.5	-391.1	265.8	233.8	32.00	8.305		
6,900.0	6,359.9	6,712.8	6,209.9	26.6	24.1	-55.74	921.7	-473.5	266.5	232.9	33.62	7.926		
7,000.0	6,360.0	6,810.4	6,210.0	27.8	25.6	-55.74	920.8	-571.1	266.5	229.6	36.82	7.237		
7,100.0	6,360.0	6,910.4	6,210.0	29.3	27.4	-55.74	919.8	-671.1	266.5	226.0	40.44	6.589		
7,200.0	6,360.0	7,010.4	6,210.0	31.1	29.5	-55.74	918.9	-771.1	266.5	222.2	44.26	6.020		
7,300.0	6,360.0	7,110.4	6,210.0	33.1	31.7	-55.74	917.9	-871.1	266.5	218.2	48.24	5.523		
7,400.0	6,360.0	7,210.4	6,210.0	35.3	34.0	-55.74	917.0	-971.1	266.4	214.1	52.34	5.091		
7,500.0	6,360.0	7,310.4	6,210.0	37.5	36.4	-55.74	916.0	-1,071.0	266.4	209.9	56.54	4.713		
7,600.0	6,360.0	7,410.4	6,210.0	39.9	38.8	-55.74	915.1	-1,171.0	266.4	205.6	60.80	4.382		
7,700.0	6,360.0	7,510.4	6,210.0	42.3	41.3	-55.74	914.1	-1,271.0	266.4	201.3	65.13	4.091		
7,800.0	6,360.0	7,610.4	6,210.0	44.8	43.8	-55.74	913.2	-1,371.0	266.4	196.9	69.51	3.833		
7,900.0	6,360.0	7,710.4	6,210.0	47.3	46.4	-55.74	912.2	-1,471.0	266.4	192.5	73.92	3.604		
8,000.0	6,360.0	7,810.4	6,210.0	49.8	49.0	-55.74	911.3	-1,571.0	266.4	188.0	78.37	3.399		
8,100.0	6,360.0	7,910.4	6,210.0	52.4	51.6	-55.73	910.3	-1,671.0	266.4	183.6	82.85	3.216		
8,200.0	6,360.0	8,010.4	6,210.0	55.0	54.2	-55.73	909.4	-1,771.0	266.4	179.1	87.35	3.050		
8,300.0	6,360.0	8,110.4	6,210.0	57.6	56.9	-55.73	908.4	-1,871.0	266.4	174.5	91.87	2.900		
8,400.0	6,360.0	8,210.4	6,210.0	60.2	59.5	-55.73	907.5	-1,971.0	266.4	170.0	96.41	2.763		
8,500.0	6,360.0	8,310.4	6,210.0	62.9	62.2	-55.73	906.5	-2,071.0	266.4	165.4	100.97	2.638		
8,600.0	6,360.0	8,410.4	6,210.0	65.5	64.9	-55.73	905.6	-2,171.0	266.4	160.9	105.53	2.524		
8,700.0	6,360.0	8,510.4	6,210.0	68.2	67.6	-55.73	904.6	-2,271.0	266.4	156.3	110.11	2.419		
8,800.0	6,360.0	8,610.4	6,210.0	70.9	70.3	-55.73	903.7	-2,371.0	266.4	151.7	114.70	2.322		
8,900.0	6,360.0	8,710.4	6,210.0	73.6	73.0	-55.73	902.7	-2,471.0	266.4	147.1	119.29	2.233		
9,000.0	6,360.0	8,810.4	6,210.0	76.3	75.7	-55.73	901.8	-2,571.0	266.4	142.5	123.90	2.150		
9,100.0	6,360.0	8,910.4	6,210.0	79.0	78.5	-55.73	900.8	-2,671.0	266.4	137.9	128.51	2.073		
9,200.0	6,360.0	9,010.4	6,210.0	81.7	81.2	-55.73	899.9	-2,771.0	266.4	133.2	133.13	2.001		
9,300.0	6,360.0	9,110.4	6,210.0	84.4	83.9	-55.73	898.9	-2,871.0	266.4	128.6	137.75	1.934		
9,400.0	6,360.0	9,210.4	6,210.0	87.1	86.7	-55.73	898.0	-2,971.0	266.4	124.0	142.38	1.871		
9,500.0	6,360.0	9,310.4	6,210.0	89.9	89.4	-55.73	897.0	-3,071.0	266.4	119.3	147.01	1.812		
9,600.0	6,360.0	9,410.4	6,210.0	92.6	92.2	-55.72	896.1	-3,171.0	266.4	114.7	151.65	1.756		
9,700.0	6,360.0	9,510.4	6,210.0	95.3	94.9	-55.72	895.1	-3,270.9	266.3	110.1	156.29	1.704		
9,800.0	6,360.0	9,610.4	6,210.0	98.1	97.7	-55.72	894.2	-3,370.9	266.3	105.4	160.93	1.655		
9,900.0	6,360.0	9,710.4	6,210.0	100.8	100.4	-55.72	893.2	-3,470.9	266.3	100.8	165.58	1.608		
10,000.0	6,360.0	9,810.4	6,210.0	103.6	103.2	-55.72	892.3	-3,570.9	266.3	96.1	170.23	1.565		
10,100.0	6,360.0	9,910.4	6,210.0	106.3	105.9	-55.72	891.3	-3,670.9	266.3	91.4	174.88	1.523		
10,200.0	6,360.0	10,010.4	6,210.0	109.1	108.7	-55.72	890.4	-3,770.9	266.3	86.8	179.54	1.483 Level 3		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Cannon K-16CHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4946.0ft (RKB - 13')
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4946.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon K-16CHZ	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 13-16NHZ - 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	6,360.0	10,110.4	6,210.0	111.8	111.5	-55.72	889.4	-3,870.9	266.3	82.1	184.20	1.446	Level 3
10,400.0	6,360.0	10,210.4	6,210.0	114.6	114.2	-55.72	888.5	-3,970.9	266.3	77.5	188.86	1.410	Level 3
10,500.0	6,360.0	10,310.4	6,210.0	117.4	117.0	-55.72	887.5	-4,070.9	266.3	72.8	193.52	1.376	Level 3
10,600.0	6,360.0	10,410.4	6,210.0	120.1	119.8	-55.72	886.6	-4,170.9	266.3	68.1	198.18	1.344	Level 3
10,700.0	6,360.0	10,510.4	6,210.0	122.9	122.6	-55.72	885.6	-4,270.9	266.3	63.5	202.85	1.313	Level 3
10,800.0	6,360.0	10,610.4	6,210.0	125.7	125.3	-55.72	884.7	-4,370.9	266.3	58.8	207.51	1.283	Level 3
10,900.0	6,360.0	10,710.4	6,210.0	128.4	128.1	-55.72	883.7	-4,470.9	266.3	54.1	212.18	1.255	Level 3
10,958.0	6,360.0	10,768.4	6,210.0	130.0	129.7	-55.72	883.2	-4,528.9	266.3	51.4	214.89	1.239	Level 2, SF

SRC Cannon Pad Sec.16-T4N-R68W - SRC Cannon 14-16CHZ - 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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	-179.93	-225.2	-0.3	225.2					
100.0	100.0	96.0	96.0	0.1	0.1	-179.93	-225.2	-0.3	225.2	224.9	0.22	1,022.150		
200.0	200.0	196.0	196.0	0.3	0.3	-179.93	-225.2	-0.3	225.2	224.5	0.67	338.427	CC, ES	
300.0	300.0	296.0	296.0	0.6	0.6	168.78	-225.2	-0.3	226.9	225.7	1.12	202.122		
400.0	399.8	395.8	395.8	0.8	0.8	169.01	-225.2	-0.3	232.0	230.4	1.58	146.472		
500.0	499.5	488.3	488.3	1.0	1.0	169.25	-226.5	0.1	242.0	240.0	2.02	120.009		
600.0	598.7	579.3	579.2	1.3	1.1	169.39	-230.6	1.2	258.4	255.9	2.45	105.324		
700.0	697.5	668.6	668.2	1.6	1.3	169.43	-237.3	3.1	281.1	278.2	2.90	96.848		
800.0	795.6	755.7	754.8	2.0	1.5	169.39	-246.4	5.6	310.1	306.7	3.36	92.231		
900.0	893.1	840.2	838.5	2.4	1.8	169.29	-257.7	8.7	344.9	341.1	3.83	90.132		
1,000.0	989.8	921.9	919.0	2.9	2.0	169.22	-270.8	12.4	384.9	380.6	4.29	89.692		
1,100.0	1,086.5	1,005.6	1,001.1	3.4	2.3	169.12	-286.4	16.7	427.4	422.6	4.77	89.578		
1,200.0	1,183.3	1,095.8	1,089.6	3.9	2.7	169.01	-303.7	21.5	470.4	465.2	5.24	89.693		
1,300.0	1,280.0	1,186.1	1,178.0	4.4	3.1	168.92	-321.0	26.3	513.4	507.7	5.73	89.632		
1,400.0	1,376.7	1,276.4	1,266.5	4.9	3.4	168.85	-338.3	31.1	556.4	550.2	6.22	89.472		
1,500.0	1,473.4	1,366.7	1,355.0	5.4	3.8	168.78	-355.6	35.9	599.4	592.7	6.71	89.269		
1,600.0	1,570.1	1,457.0	1,443.5	5.9	4.2	168.73	-372.9	40.7	642.4	635.2	7.22	88.929		
1,700.0	1,666.9	1,547.2	1,532.0	6.4	4.6	168.68	-390.2	45.5	685.4	677.7	7.73	88.718		
1,800.0	1,763.6	1,637.5	1,620.4	7.0	5.0	168.63	-407.5	50.3	728.4	720.2	8.24	88.454		
1,900.0	1,860.3	1,727.8	1,708.9	7.5	5.4	168.59	-424.8	55.1	771.4	762.7	8.75	88.192		
2,000.0	1,957.0	1,818.1	1,797.4	8.0	5.8	168.56	-442.1	59.8	814.4	805.2	9.26	87.936		
2,100.0	2,053.7	1,908.4	1,885.9	8.5	6.2	168.53	-459.4	64.6	857.4	847.7	9.78	87.688		
2,200.0	2,150.4	1,998.6	1,974.4	9.0	6.5	168.50	-476.7	69.4	900.4	890.1	10.30	87.451		
2,300.0	2,247.2	2,088.9	2,062.8	9.5	6.9	168.48	-494.0	74.2	943.4	932.6	10.82	87.223		
2,400.0	2,343.9	2,179.2	2,151.3	10.1	7.3	168.45	-511.3	79.0	986.4	975.1	11.34	87.007	SF	

Offset Design SRC Cannon Pad Sec.16-T4N-R68W - SRC Cannon 14-16NHZ - 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		
0.0	0.0	0.0	0.0	0.0	0.0	-179.92	-202.6	-0.3	202.6					
100.0	100.0	96.0	96.0	0.1	0.1	-179.92	-202.6	-0.3	202.6	202.3	0.22	919.538		
200.0	200.0	196.0	196.0	0.3	0.3	-179.92	-202.6	-0.3	202.6	201.9	0.67	304.453	CC, ES	
300.0	300.0	296.0	296.0	0.6	0.6	168.80	-202.6	-0.3	204.3	203.1	1.12	181.984		
400.0	399.8	395.8	395.8	0.8	0.8	169.06	-202.6	-0.3	209.4	207.8	1.58	132.202		
500.0	499.5	495.5	495.5	1.0	1.0	169.46	-202.6	-0.3	218.0	215.9	2.05	106.536		
600.0	598.7	594.7	594.7	1.3	1.2	169.97	-202.6	-0.3	230.0	227.5	2.51	91.652		
700.0	697.5	693.5	693.5	1.6	1.4	170.56	-202.6	-0.3	245.4	242.4	2.97	82.514		
800.0	795.6	791.6	791.6	2.0	1.7	171.18	-202.6	-0.3	264.2	260.8	3.44	76.798		
900.0	893.1	881.5	881.5	2.4	1.8	171.65	-203.6	0.1	287.7	283.8	3.88	74.122		
1,000.0	989.8	968.9	968.8	2.9	2.0	171.94	-207.2	1.4	316.5	312.1	4.32	73.290		
1,100.0	1,086.5	1,054.6	1,054.3	3.4	2.2	172.03	-213.2	3.6	348.1	343.4	4.76	73.132	SF	
1,200.0	1,183.3	1,138.7	1,138.0	3.9	2.4	171.95	-221.3	6.6	382.4	377.2	5.21	73.399		
1,300.0	1,280.0	1,221.2	1,219.7	4.4	2.5	171.73	-231.6	10.3	419.1	413.4	5.66	73.986		
1,400.0	1,376.7	1,302.3	1,299.7	4.9	2.8	171.43	-243.8	14.8	458.2	452.1	6.14	74.674		
1,500.0	1,473.4	1,393.8	1,389.8	5.4	3.0	171.07	-258.7	20.2	498.5	491.9	6.61	75.416		
1,600.0	1,570.1	1,485.2	1,479.9	5.9	3.3	170.77	-273.6	25.6	538.8	531.7	7.09	75.967		
1,700.0	1,666.9	1,576.7	1,570.0	6.4	3.6	170.52	-288.5	31.1	579.1	571.5	7.58	76.379		
1,800.0	1,763.6	1,668.2	1,660.1	7.0	4.0	170.29	-303.4	36.5	619.4	611.3	8.08	76.692		
1,900.0	1,860.3	1,759.7	1,750.2	7.5	4.3	170.10	-318.3	41.9	659.7	651.1	8.58	76.885		
2,000.0	1,957.0	1,851.2	1,840.4	8.0	4.6	169.92	-333.2	47.3	700.0	690.9	9.08	77.073		
2,100.0	2,053.7	1,942.7	1,930.5	8.5	5.0	169.77	-348.1	52.8	740.3	730.7	9.59	77.200		
2,200.0	2,150.4	2,034.2	2,020.6	9.0	5.3	169.63	-363.0	58.2	780.6	770.5	10.10	77.289		
2,300.0	2,247.2	2,125.7	2,110.7	9.5	5.7	169.50	-377.9	63.6	820.9	810.3	10.61	77.352		
2,400.0	2,343.9	2,217.2	2,200.8	10.1	6.0	169.39	-392.8	69.1	861.2	850.1	11.13	77.393		
2,500.0	2,440.6	2,308.7	2,290.9	10.6	6.4	169.28	-407.7	74.5	901.6	889.9	11.65	77.418		
2,600.0	2,537.3	2,400.2	2,381.0	11.1	6.7	169.19	-422.6	79.9	941.9	929.7	12.16	77.430		
2,700.0	2,634.0	2,491.7	2,471.2	11.6	7.1	169.10	-437.5	85.4	982.2	969.5	12.69	77.432		

Offset Design SRC Cannon Pad Sec.16-T4N-R68W - SRC Cannon 24-16CHZ - 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	-179.91	-180.0	-0.3	180.0					
100.0	100.0	97.0	97.0	0.1	0.1	-179.91	-180.0	-0.3	180.0	179.7	0.22	812.860		
200.0	200.0	197.0	197.0	0.3	0.3	-179.91	-180.0	-0.3	180.0	179.3	0.67	269.592 CC, ES		
300.0	300.0	297.0	297.0	0.6	0.6	168.82	-180.0	-0.3	181.7	180.6	1.12	161.541		
400.0	399.8	396.8	396.8	0.8	0.8	169.11	-180.0	-0.3	186.8	185.2	1.59	117.778		
500.0	499.5	496.5	496.5	1.0	1.0	169.56	-180.0	-0.3	195.4	193.3	2.05	95.396		
600.0	598.7	595.7	595.7	1.3	1.2	170.13	-180.0	-0.3	207.4	204.9	2.51	82.583		
700.0	697.5	694.5	694.5	1.6	1.4	170.77	-180.0	-0.3	222.8	219.8	2.98	74.874		
800.0	795.6	792.6	792.6	2.0	1.7	171.44	-180.0	-0.3	241.7	238.2	3.44	70.206		
900.0	893.1	890.1	890.1	2.4	1.9	172.10	-180.0	-0.3	263.9	260.0	3.91	67.490		
1,000.0	989.8	986.8	986.8	2.9	2.1	172.77	-180.0	-0.3	288.9	284.5	4.38	65.921		
1,100.0	1,086.5	1,076.5	1,076.5	3.4	2.3	173.20	-180.9	0.2	315.1	310.3	4.83	65.206		
1,200.0	1,183.3	1,163.9	1,163.8	3.9	2.5	173.32	-184.1	1.9	343.7	338.5	5.28	65.160 SF		
1,300.0	1,280.0	1,249.9	1,249.5	4.4	2.6	173.18	-189.6	4.8	374.8	369.1	5.72	65.514		
1,400.0	1,376.7	1,334.3	1,333.6	4.9	2.8	172.87	-197.2	8.9	408.3	402.1	6.17	66.126		
1,500.0	1,473.4	1,419.9	1,418.5	5.4	3.0	172.41	-207.0	14.1	444.0	437.3	6.64	66.823		
1,600.0	1,570.1	1,513.0	1,510.6	5.9	3.2	171.93	-218.4	20.1	480.3	473.2	7.12	67.478		
1,700.0	1,666.9	1,606.1	1,602.8	6.4	3.5	171.53	-229.7	26.1	516.7	509.1	7.60	67.977		
1,800.0	1,763.6	1,699.2	1,695.0	7.0	3.7	171.17	-241.0	32.2	553.2	545.1	8.09	68.357		
1,900.0	1,860.3	1,792.3	1,787.2	7.5	4.0	170.86	-252.4	38.2	589.6	581.0	8.59	68.648		
2,000.0	1,957.0	1,885.3	1,879.4	8.0	4.3	170.59	-263.7	44.2	626.0	616.9	9.09	68.869		
2,100.0	2,053.7	1,978.4	1,971.6	8.5	4.6	170.34	-275.1	50.3	662.5	652.9	9.60	69.036		
2,200.0	2,150.4	2,071.5	2,063.8	9.0	4.8	170.12	-286.4	56.3	699.0	688.9	10.11	69.168		
2,300.0	2,247.2	2,164.6	2,156.0	9.5	5.1	169.92	-297.8	62.3	735.4	724.8	10.62	69.267		
2,400.0	2,343.9	2,257.7	2,248.2	10.1	5.4	169.75	-309.1	68.3	771.9	760.8	11.13	69.341		
2,500.0	2,440.6	2,350.8	2,340.4	10.6	5.7	169.58	-320.5	74.4	808.4	796.8	11.65	69.395		
2,600.0	2,537.3	2,443.8	2,432.5	11.1	6.0	169.44	-331.8	80.4	844.9	832.7	12.17	69.433		
2,700.0	2,634.0	2,536.9	2,524.7	11.6	6.3	169.30	-343.1	86.4	881.4	868.7	12.69	69.458		
2,800.0	2,730.8	2,630.0	2,616.9	12.1	6.7	169.17	-354.5	92.4	917.9	904.7	13.21	69.474		
2,900.0	2,827.5	2,723.1	2,709.1	12.6	7.0	169.06	-365.8	98.5	954.4	940.7	13.74	69.482		
3,000.0	2,924.2	2,816.2	2,801.3	13.2	7.3	168.95	-377.2	104.5	990.9	976.7	14.26	69.483		

SRC Cannon Pad Sec.16-T4N-R68W - SRC Cannon 24-16NHZ - 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	0.0	0.0	0.0	0.0	-179.90	-157.8	-0.3	157.8					
100.0	100.0	97.0	97.0	0.1	0.1	-179.90	-157.8	-0.3	157.8	157.5	0.22	712.561		
200.0	200.0	197.0	197.0	0.3	0.3	-179.90	-157.8	-0.3	157.8	157.1	0.67	236.327 CC, ES		
300.0	300.0	297.0	297.0	0.6	0.6	168.85	-157.8	-0.3	159.5	158.3	1.12	141.796		
400.0	399.8	396.8	396.8	0.8	0.8	169.18	-157.8	-0.3	164.6	163.0	1.59	103.779		
500.0	499.5	496.5	496.5	1.0	1.0	169.69	-157.8	-0.3	173.2	171.1	2.05	84.555		
600.0	598.7	595.7	595.7	1.3	1.2	170.32	-157.8	-0.3	185.2	182.7	2.51	73.746		
700.0	697.5	694.5	694.5	1.6	1.4	171.03	-157.8	-0.3	200.6	197.6	2.98	67.423		
800.0	795.6	792.6	792.6	2.0	1.7	171.75	-157.8	-0.3	219.5	216.1	3.44	63.773		
900.0	893.1	890.1	890.1	2.4	1.9	172.45	-157.8	-0.3	241.8	237.9	3.91	61.838		
1,000.0	989.8	986.8	986.8	2.9	2.1	173.14	-157.8	-0.3	266.8	262.4	4.38	60.888		
1,100.0	1,086.5	1,083.5	1,083.5	3.4	2.3	173.74	-157.8	-0.3	292.0	287.2	4.86	60.103		
1,200.0	1,183.3	1,180.3	1,180.3	3.9	2.5	174.24	-157.8	-0.3	317.3	312.0	5.34	59.420		
1,300.0	1,280.0	1,277.0	1,277.0	4.4	2.8	174.66	-157.8	-0.3	342.6	336.8	5.82	58.824		
1,400.0	1,376.7	1,373.7	1,373.7	4.9	3.0	175.03	-157.8	-0.3	367.9	361.6	6.31	58.301		
1,500.0	1,473.4	1,464.9	1,464.8	5.4	3.2	175.25	-158.3	0.2	393.8	387.0	6.78	58.119 SF		
1,600.0	1,570.1	1,553.1	1,553.0	5.9	3.3	175.14	-160.7	2.6	421.4	414.2	7.23	58.310		
1,700.0	1,666.9	1,640.3	1,640.0	6.4	3.5	174.77	-164.9	6.8	450.9	443.2	7.68	58.717		
1,800.0	1,763.6	1,726.2	1,725.5	7.0	3.7	174.19	-171.0	12.7	482.2	474.0	8.14	59.243		
1,900.0	1,860.3	1,815.7	1,814.3	7.5	3.9	173.45	-179.0	20.6	515.2	506.5	8.62	59.761		
2,000.0	1,957.0	1,909.8	1,907.6	8.0	4.1	172.73	-187.6	29.0	548.4	539.3	9.11	60.178		
2,100.0	2,053.7	2,003.9	2,000.9	8.5	4.3	172.09	-196.2	37.5	581.8	572.2	9.62	60.503		
2,200.0	2,150.4	2,098.0	2,094.3	9.0	4.6	171.53	-204.8	46.0	615.2	605.1	10.13	60.756		
2,300.0	2,247.2	2,192.1	2,187.6	9.5	4.8	171.02	-213.4	54.4	648.6	638.0	10.64	60.951		
2,400.0	2,343.9	2,286.2	2,280.9	10.1	5.1	170.56	-222.0	62.9	682.1	671.0	11.16	61.097		
2,500.0	2,440.6	2,380.3	2,374.2	10.6	5.3	170.14	-230.6	71.4	715.7	704.0	11.69	61.217		
2,600.0	2,537.3	2,474.4	2,467.5	11.1	5.6	169.76	-239.2	79.8	749.2	737.0	12.22	61.305		
2,700.0	2,634.0	2,568.4	2,560.8	11.6	5.9	169.42	-247.8	88.3	782.8	770.1	12.76	61.372		
2,800.0	2,730.8	2,662.5	2,654.1	12.1	6.2	169.10	-256.4	96.8	816.4	803.1	13.29	61.420		
2,900.0	2,827.5	2,756.6	2,747.4	12.6	6.4	168.81	-265.0	105.2	850.1	836.2	13.83	61.455		
3,000.0	2,924.2	2,850.7	2,840.7	13.2	6.7	168.54	-273.7	113.7	883.7	869.3	14.37	61.477		
3,100.0	3,020.9	2,944.8	2,934.1	13.7	7.0	168.28	-282.3	122.1	917.4	902.4	14.92	61.491		
3,200.0	3,117.6	3,038.9	3,027.4	14.2	7.3	168.05	-290.9	130.6	951.0	935.6	15.46	61.497		
3,300.0	3,214.3	3,133.0	3,120.7	14.7	7.6	167.83	-299.5	139.1	984.7	968.7	16.01	61.497		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Cannon K-16CHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4946.0ft (RKB - 13')
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4946.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon K-16CHZ	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										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	-179.82	-90.0	-0.3	90.0					
100.0	100.0	98.0	98.0	0.1	0.1	-179.82	-90.0	-0.3	90.0	89.8	0.22	404.382		
200.0	200.0	198.0	198.0	0.3	0.3	-179.82	-90.0	-0.3	90.0	89.3	0.67	134.344 CC, ES		
300.0	300.0	298.0	298.0	0.6	0.6	169.01	-90.0	-0.3	91.7	90.6	1.13	81.371		
400.0	399.8	397.8	397.8	0.8	0.8	169.58	-90.0	-0.3	96.8	95.3	1.59	60.967		
500.0	499.5	497.5	497.5	1.0	1.0	170.41	-90.0	-0.3	105.4	103.4	2.05	51.419		
600.0	598.7	596.7	596.7	1.3	1.2	171.37	-90.0	-0.3	117.5	114.9	2.51	46.740		
700.0	697.5	695.5	695.5	1.6	1.5	172.34	-90.0	-0.3	132.9	130.0	2.98	44.661		
800.0	795.6	793.6	793.6	2.0	1.7	173.25	-90.0	-0.3	151.9	148.4	3.44	44.126		
900.0	893.1	891.1	891.1	2.4	1.9	174.07	-90.0	-0.3	174.2	170.3	3.91	44.578		
1,000.0	989.8	987.8	987.8	2.9	2.1	174.80	-90.0	-0.3	199.3	194.9	4.38	45.518		
1,100.0	1,086.5	1,084.5	1,084.5	3.4	2.3	175.39	-90.0	-0.3	224.6	219.8	4.86	46.268		
1,200.0	1,183.3	1,181.3	1,181.3	3.9	2.5	175.86	-90.0	-0.3	250.0	244.7	5.34	46.851		
1,300.0	1,280.0	1,278.0	1,278.0	4.4	2.8	176.24	-90.0	-0.3	275.3	269.5	5.82	47.315		
1,400.0	1,376.7	1,374.7	1,374.7	4.9	3.0	176.56	-90.0	-0.3	300.7	294.4	6.31	47.691		
1,500.0	1,473.4	1,479.7	1,479.6	5.4	3.2	176.76	-89.1	0.3	325.2	318.4	6.81	47.776		
1,600.0	1,570.1	1,589.0	1,588.9	5.9	3.5	176.67	-84.7	3.1	346.4	339.1	7.31	47.365		
1,700.0	1,666.9	1,699.9	1,699.4	6.4	3.7	176.30	-76.8	8.2	364.2	356.4	7.83	46.496		
1,800.0	1,763.6	1,811.1	1,809.7	7.0	4.0	175.69	-65.2	15.6	378.5	370.2	8.37	45.240		
1,900.0	1,860.3	1,910.2	1,907.8	7.5	4.2	175.08	-53.5	23.2	391.4	382.5	8.89	44.038		
2,000.0	1,957.0	2,009.3	2,005.9	8.0	4.5	174.51	-41.7	30.7	404.3	394.9	9.42	42.932		
2,100.0	2,053.7	2,108.4	2,104.0	8.5	4.8	173.97	-30.0	38.3	417.2	407.3	9.95	41.925		
2,200.0	2,150.4	2,207.5	2,202.1	9.0	5.0	173.47	-18.2	45.8	430.2	419.7	10.49	41.002		
2,300.0	2,247.2	2,306.6	2,300.2	9.5	5.3	172.99	-6.5	53.4	443.2	432.1	11.04	40.154		
2,400.0	2,343.9	2,405.7	2,398.3	10.1	5.6	172.54	5.3	60.9	456.2	444.6	11.59	39.373		
2,500.0	2,440.6	2,504.8	2,496.4	10.6	5.9	172.12	17.0	68.5	469.2	457.1	12.14	38.652		
2,600.0	2,537.3	2,603.8	2,594.5	11.1	6.2	171.72	28.7	76.0	482.3	469.6	12.70	37.984		
2,700.0	2,634.0	2,702.9	2,692.6	11.6	6.5	171.34	40.5	83.6	495.4	482.1	13.26	37.364		
2,800.0	2,730.8	2,802.0	2,790.7	12.1	6.8	170.98	52.2	91.1	508.5	494.7	13.82	36.787		
2,900.0	2,827.5	2,901.1	2,888.8	12.6	7.2	170.64	64.0	98.7	521.6	507.2	14.39	36.249		
3,000.0	2,924.2	3,000.2	2,986.9	13.2	7.5	170.31	75.7	106.2	534.8	519.8	14.96	35.746		
3,100.0	3,020.9	3,099.3	3,085.0	13.7	7.8	170.00	87.5	113.8	547.9	532.4	15.53	35.275		
3,200.0	3,117.6	3,198.4	3,183.1	14.2	8.1	169.71	99.2	121.3	561.1	545.0	16.11	34.833		
3,300.0	3,214.3	3,297.5	3,281.2	14.7	8.4	169.43	111.0	128.9	574.3	557.6	16.69	34.418		
3,400.0	3,311.1	3,396.5	3,379.3	15.2	8.8	169.16	122.7	136.4	587.5	570.2	17.27	34.027		
3,500.0	3,407.8	3,495.6	3,477.4	15.8	9.1	168.90	134.5	144.0	600.7	582.9	17.85	33.658		
3,600.0	3,504.5	3,594.7	3,575.5	16.3	9.4	168.66	146.2	151.5	614.0	595.5	18.43	33.310		
3,700.0	3,601.2	3,693.8	3,673.6	16.8	9.7	168.42	157.9	159.1	627.2	608.2	19.02	32.981		
3,800.0	3,697.9	3,792.9	3,771.7	17.3	10.1	168.19	169.7	166.6	640.4	620.8	19.60	32.669		
3,900.0	3,794.7	3,892.0	3,869.8	17.8	10.4	167.98	181.4	174.2	653.7	633.5	20.19	32.373		
4,000.0	3,891.4	3,991.1	3,967.9	18.4	10.7	167.77	193.2	181.7	667.0	646.2	20.78	32.093		
4,100.0	3,988.1	4,090.2	4,066.0	18.9	11.0	167.57	204.9	189.3	680.3	658.9	21.37	31.826		
4,200.0	4,084.8	4,189.2	4,164.1	19.4	11.4	167.38	216.7	196.8	693.5	671.6	21.97	31.572		
4,300.0	4,181.5	4,288.3	4,262.2	19.9	11.7	167.19	228.4	204.3	706.8	684.3	22.56	31.329		
4,400.0	4,278.2	4,387.4	4,360.3	20.4	12.0	167.01	240.2	211.9	720.1	697.0	23.16	31.098		
4,500.0	4,375.0	4,475.6	4,447.6	21.0	12.3	166.88	250.2	218.4	733.9	710.2	23.70	30.968		
4,600.0	4,471.7	4,556.9	4,528.4	21.5	12.5	166.86	257.7	223.1	749.8	725.7	24.17	31.018		
4,700.0	4,568.4	4,637.5	4,608.8	22.0	12.7	166.93	263.1	226.7	768.1	743.5	24.62	31.196		
4,800.0	4,665.1	4,717.4	4,688.6	22.5	12.8	167.10	266.7	228.9	788.6	763.6	25.05	31.486		
4,900.0	4,762.2	4,800.0	4,771.2	23.0	13.0	167.43	268.4	230.0	810.0	784.5	25.47	31.807		
5,000.0	4,860.1	4,886.9	4,858.1	23.3	13.1	167.78	268.5	230.1	829.9	804.1	25.83	32.128		
5,100.0	4,958.6	4,985.4	4,956.6	23.6	13.3	168.09	268.5	230.1	846.7	820.5	26.21	32.308		

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 K-16CHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4946.0ft (RKB - 13')
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4946.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon K-16CHZ	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	
5,200.0	5,057.6	5,084.4	5,055.6	23.9	13.4	168.34	268.5	230.1	860.1	833.5	26.56	32.387	
5,300.0	5,157.1	5,183.9	5,155.1	24.1	13.6	168.51	268.5	230.1	870.1	843.2	26.88	32.374	
5,400.0	5,256.9	5,283.7	5,254.9	24.3	13.8	168.63	268.5	230.1	876.7	849.5	27.16	32.273	
5,500.0	5,356.8	5,383.6	5,354.8	24.4	14.0	168.68	268.5	230.1	879.9	852.4	27.42	32.088	
5,600.0	5,456.8	5,483.6	5,454.8	24.5	14.2	-179.94	268.5	230.1	880.2	842.4	37.83	23.268	
5,700.0	5,556.8	5,583.6	5,554.8	24.6	14.4	-179.94	268.5	230.1	880.2	842.1	38.12	23.088	
5,800.0	5,656.8	5,683.5	5,654.7	24.7	14.5	-89.40	268.5	230.0	880.2	851.7	28.48	30.903	
5,900.0	5,756.3	5,782.2	5,753.0	24.8	14.7	-89.42	268.4	221.7	880.2	851.4	28.75	30.620	
6,000.0	5,853.7	5,881.1	5,849.3	24.8	14.7	-89.46	268.2	200.0	880.2	851.3	28.92	30.439	
6,100.0	5,946.9	5,980.0	5,941.8	24.8	14.8	-89.51	267.9	165.2	880.2	851.1	29.05	30.301	
6,200.0	6,034.3	6,079.0	6,028.7	24.8	14.8	-89.56	267.5	117.9	880.2	850.9	29.23	30.111	
6,300.0	6,114.0	6,178.1	6,108.4	24.8	14.8	-89.63	266.9	59.0	880.1	850.5	29.60	29.733	
6,400.0	6,184.7	6,277.4	6,179.2	24.9	14.8	-89.70	266.2	-10.4	880.1	849.8	30.33	29.023	
6,500.0	6,244.7	6,376.8	6,239.9	24.9	15.0	-89.78	265.5	-89.1	880.1	848.5	31.57	27.878	
6,600.0	6,293.1	6,476.5	6,289.2	25.1	16.0	-89.86	264.7	-175.5	880.1	846.7	33.45	26.308	
6,700.0	6,328.9	6,576.2	6,326.1	25.3	17.4	-89.94	263.8	-268.2	880.1	844.1	36.01	24.438	
6,800.0	6,351.3	6,676.2	6,349.7	25.8	19.1	-90.03	262.9	-365.2	880.1	840.9	39.19	22.457	
6,900.0	6,359.9	6,776.4	6,359.7	26.6	21.0	-90.12	261.9	-464.8	880.1	837.2	42.85	20.538	
7,000.0	6,360.0	6,876.4	6,360.0	27.8	23.0	-90.13	261.0	-564.8	880.1	833.2	46.87	18.779	
7,100.0	6,360.0	6,976.4	6,360.0	29.3	25.2	-90.13	260.0	-664.8	880.1	828.9	51.17	17.200	
7,200.0	6,360.0	7,076.4	6,360.0	31.1	27.5	-90.13	259.1	-764.8	880.1	824.4	55.70	15.800	
7,300.0	6,360.0	7,176.4	6,360.0	33.1	29.9	-90.13	258.1	-864.8	880.0	819.6	60.41	14.567	
7,400.0	6,360.0	7,276.4	6,360.0	35.3	32.4	-90.13	257.2	-964.8	880.0	814.8	65.27	13.483	
7,500.0	6,360.0	7,376.4	6,360.0	37.5	34.9	-90.13	256.2	-1,064.8	880.0	809.8	70.24	12.529	
7,600.0	6,360.0	7,476.4	6,360.0	39.9	37.4	-90.13	255.3	-1,164.8	880.0	804.7	75.30	11.687	
7,700.0	6,360.0	7,576.4	6,360.0	42.3	40.0	-90.13	254.4	-1,264.8	880.0	799.6	80.43	10.941	
7,800.0	6,360.0	7,676.4	6,360.0	44.8	42.6	-90.13	253.4	-1,364.8	880.0	794.4	85.62	10.278	
7,900.0	6,360.0	7,776.4	6,360.0	47.3	45.2	-90.13	252.5	-1,464.8	880.0	789.1	90.86	9.685	
8,000.0	6,360.0	7,876.4	6,360.0	49.8	47.9	-90.13	251.5	-1,564.8	880.0	783.8	96.15	9.153	
8,100.0	6,360.0	7,976.4	6,360.0	52.4	50.5	-90.13	250.6	-1,664.8	880.0	778.5	101.46	8.673	
8,200.0	6,360.0	8,076.4	6,360.0	55.0	53.2	-90.13	249.6	-1,764.8	880.0	773.2	106.81	8.238	
8,300.0	6,360.0	8,176.4	6,360.0	57.6	55.9	-90.13	248.7	-1,864.8	880.0	767.8	112.19	7.844	
8,400.0	6,360.0	8,276.4	6,360.0	60.2	58.6	-90.13	247.7	-1,964.8	880.0	762.4	117.58	7.484	
8,500.0	6,360.0	8,376.4	6,360.0	62.9	61.3	-90.13	246.8	-2,064.8	879.9	756.9	123.00	7.154	
8,600.0	6,360.0	8,476.4	6,360.0	65.5	64.1	-90.13	245.8	-2,164.8	879.9	751.5	128.43	6.852	
8,700.0	6,360.0	8,576.4	6,360.0	68.2	66.8	-90.13	244.9	-2,264.7	879.9	746.1	133.87	6.573	
8,800.0	6,360.0	8,676.4	6,360.0	70.9	69.5	-90.13	243.9	-2,364.7	879.9	740.6	139.33	6.315	
8,900.0	6,360.0	8,776.4	6,360.0	73.6	72.3	-90.13	243.0	-2,464.7	879.9	735.1	144.80	6.077	
9,000.0	6,360.0	8,876.4	6,360.0	76.3	75.0	-90.13	242.0	-2,564.7	879.9	729.6	150.28	5.855	
9,100.0	6,360.0	8,976.4	6,360.0	79.0	77.8	-90.13	241.1	-2,664.7	879.9	724.1	155.77	5.649	
9,200.0	6,360.0	9,076.4	6,360.0	81.7	80.5	-90.13	240.1	-2,764.7	879.9	718.6	161.27	5.456	
9,300.0	6,360.0	9,176.4	6,360.0	84.4	83.3	-90.13	239.2	-2,864.7	879.9	713.1	166.78	5.276	
9,400.0	6,360.0	9,276.4	6,360.0	87.1	86.0	-90.13	238.2	-2,964.7	879.9	707.6	172.29	5.107	
9,500.0	6,360.0	9,376.4	6,360.0	89.9	88.8	-90.13	237.3	-3,064.7	879.9	702.1	177.81	4.948	
9,600.0	6,360.0	9,476.4	6,360.0	92.6	91.6	-90.13	236.3	-3,164.7	879.9	696.5	183.33	4.799	
9,700.0	6,360.0	9,576.4	6,360.0	95.3	94.3	-90.13	235.4	-3,264.7	879.8	691.0	188.86	4.659	
9,800.0	6,360.0	9,676.4	6,360.0	98.1	97.1	-90.13	234.5	-3,364.7	879.8	685.4	194.39	4.526	
9,900.0	6,360.0	9,776.4	6,360.0	100.8	99.9	-90.13	233.5	-3,464.7	879.8	679.9	199.93	4.401	
10,000.0	6,360.0	9,876.4	6,360.0	103.6	102.6	-90.13	232.6	-3,564.7	879.8	674.3	205.47	4.282	
10,100.0	6,360.0	9,976.4	6,360.0	106.3	105.4	-90.13	231.6	-3,664.7	879.8	668.8	211.02	4.169	
10,200.0	6,360.0	10,076.4	6,360.0	109.1	108.2	-90.13	230.7	-3,764.7	879.8	663.2	216.57	4.062	
10,300.0	6,360.0	10,176.4	6,360.0	111.8	111.0	-90.13	229.7	-3,864.7	879.8	657.7	222.12	3.961	

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 K-16CHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4946.0ft (RKB - 13')
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4946.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon K-16CHZ	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-16CHZ - 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
10,400.0	6,360.0	10,276.4	6,360.0	114.6	113.7	-90.13	228.8	-3,964.7	879.8	652.1	227.67	3.864	
10,500.0	6,360.0	10,376.4	6,360.0	117.4	116.5	-90.13	227.8	-4,064.7	879.8	646.5	233.23	3.772	
10,600.0	6,360.0	10,476.4	6,360.0	120.1	119.3	-90.13	226.9	-4,164.7	879.8	641.0	238.79	3.684	
10,700.0	6,360.0	10,576.4	6,360.0	122.9	122.1	-90.13	225.9	-4,264.7	879.8	635.4	244.35	3.600	
10,800.0	6,360.0	10,676.4	6,360.0	125.7	124.9	-90.13	225.0	-4,364.7	879.8	629.8	249.92	3.520	
10,900.0	6,360.0	10,776.4	6,360.0	128.4	127.7	-90.13	224.0	-4,464.7	879.7	624.3	255.48	3.443	
10,958.0	6,360.0	10,834.4	6,360.0	130.0	129.3	-90.13	223.5	-4,522.7	879.7	621.0	258.71	3.400 SF	

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Cannon K-16CHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4946.0ft (RKB - 13')
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4946.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon K-16CHZ	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	-179.76	-67.8	-0.3	67.8					
100.0	100.0	99.0	99.0	0.1	0.1	-179.76	-67.8	-0.3	67.8	67.6	0.22	303.080		
200.0	200.0	199.0	199.0	0.3	0.3	-179.76	-67.8	-0.3	67.8	67.1	0.67	100.859 CC, ES		
300.0	300.0	299.0	299.0	0.6	0.6	169.14	-67.8	-0.3	69.5	68.4	1.13	61.548		
400.0	399.8	398.8	398.8	0.8	0.8	169.88	-67.8	-0.3	74.6	73.1	1.59	46.926		
500.0	499.5	498.5	498.5	1.0	1.0	170.90	-67.8	-0.3	83.2	81.2	2.05	40.554		
600.0	598.7	597.7	597.7	1.3	1.2	172.03	-67.8	-0.3	95.3	92.8	2.51	37.889		
700.0	697.5	696.5	696.5	1.6	1.5	173.11	-67.8	-0.3	110.8	107.8	2.98	37.202		
800.0	795.6	794.6	794.6	2.0	1.7	174.08	-67.8	-0.3	129.8	126.3	3.44	37.689		
900.0	893.1	892.1	892.1	2.4	1.9	174.91	-67.8	-0.3	152.2	148.3	3.91	38.922		
1,000.0	989.8	988.8	988.8	2.9	2.1	175.62	-67.8	-0.3	177.3	172.9	4.38	40.480		
1,100.0	1,086.5	1,091.8	1,091.8	3.4	2.3	176.09	-66.4	0.3	201.3	196.4	4.86	41.410		
1,200.0	1,183.3	1,197.2	1,197.0	3.9	2.6	176.21	-61.5	2.3	221.9	216.6	5.35	41.495		
1,300.0	1,280.0	1,304.0	1,303.4	4.4	2.8	176.07	-52.9	5.9	239.0	233.2	5.85	40.858		
1,400.0	1,376.7	1,412.0	1,410.6	4.9	3.1	175.70	-40.5	11.1	252.5	246.2	6.37	39.662		
1,500.0	1,473.4	1,515.3	1,512.6	5.4	3.4	175.20	-25.6	17.2	263.1	256.2	6.89	38.191		
1,600.0	1,570.1	1,614.8	1,610.8	5.9	3.7	174.73	-11.0	23.3	273.3	265.9	7.41	36.871		
1,700.0	1,666.9	1,714.2	1,709.0	6.4	4.0	174.30	3.6	29.3	283.6	275.6	7.94	35.700		
1,800.0	1,763.6	1,813.7	1,807.2	7.0	4.3	173.89	18.2	35.4	293.9	285.4	8.48	34.665		
1,900.0	1,860.3	1,913.1	1,905.4	7.5	4.6	173.52	32.8	41.4	304.1	295.1	9.02	33.731		
2,000.0	1,957.0	2,012.6	2,003.6	8.0	4.9	173.17	47.4	47.5	314.4	304.9	9.56	32.892		
2,100.0	2,053.7	2,112.0	2,101.8	8.5	5.2	172.84	62.0	53.5	324.7	314.6	10.11	32.133		
2,200.0	2,150.4	2,211.5	2,200.0	9.0	5.6	172.53	76.6	59.6	335.1	324.4	10.66	31.444		
2,300.0	2,247.2	2,310.9	2,298.1	9.5	5.9	172.24	91.2	65.6	345.4	334.2	11.21	30.816		
2,400.0	2,343.9	2,410.4	2,396.3	10.1	6.3	171.97	105.8	71.7	355.7	344.0	11.76	30.241		
2,500.0	2,440.6	2,509.8	2,494.5	10.6	6.6	171.71	120.4	77.7	366.1	353.8	12.32	29.713		
2,600.0	2,537.3	2,609.3	2,592.7	11.1	6.9	171.47	134.9	83.8	376.4	363.6	12.88	29.226		
2,700.0	2,634.0	2,708.7	2,690.9	11.6	7.3	171.24	149.5	89.8	386.8	373.3	13.44	28.776		
2,800.0	2,730.8	2,808.2	2,789.1	12.1	7.6	171.02	164.1	95.9	397.2	383.1	14.00	28.359		
2,900.0	2,827.5	2,907.6	2,887.3	12.6	8.0	170.81	178.7	102.0	407.5	393.0	14.57	27.972		
3,000.0	2,924.2	3,007.1	2,985.4	13.2	8.4	170.62	193.3	108.0	417.9	402.8	15.14	27.611		
3,100.0	3,020.9	3,106.5	3,083.6	13.7	8.7	170.43	207.9	114.1	428.3	412.6	15.70	27.274		
3,200.0	3,117.6	3,206.0	3,181.8	14.2	9.1	170.25	222.5	120.1	438.7	422.4	16.27	26.959		
3,300.0	3,214.3	3,305.4	3,280.0	14.7	9.4	170.08	237.1	126.2	449.0	432.2	16.84	26.663		
3,400.0	3,311.1	3,404.9	3,378.2	15.2	9.8	169.92	251.7	132.2	459.4	442.0	17.41	26.385		
3,500.0	3,407.8	3,504.3	3,476.4	15.8	10.1	169.76	266.3	138.3	469.8	451.8	17.99	26.123		
3,600.0	3,504.5	3,603.8	3,574.6	16.3	10.5	169.61	280.9	144.3	480.2	461.7	18.56	25.877		
3,700.0	3,601.2	3,703.2	3,672.8	16.8	10.8	169.47	295.5	150.4	490.6	471.5	19.13	25.644		
3,800.0	3,697.9	3,802.7	3,770.9	17.3	11.2	169.33	310.1	156.4	501.0	481.3	19.71	25.423		
3,900.0	3,794.7	3,902.1	3,869.1	17.8	11.6	169.20	324.7	162.5	511.4	491.2	20.28	25.215		
4,000.0	3,891.4	4,001.6	3,967.3	18.4	11.9	169.08	339.3	168.5	521.8	501.0	20.86	25.017		
4,100.0	3,988.1	4,101.0	4,065.5	18.9	12.3	168.96	353.9	174.6	532.3	510.8	21.44	24.829		
4,200.0	4,084.8	4,200.5	4,163.7	19.4	12.6	168.84	368.5	180.7	542.7	520.7	22.02	24.650		
4,300.0	4,181.5	4,299.9	4,261.9	19.9	13.0	168.73	383.1	186.7	553.1	530.5	22.59	24.479		
4,400.0	4,278.2	4,399.4	4,360.1	20.4	13.4	168.62	397.7	192.8	563.5	540.3	23.17	24.317		
4,500.0	4,375.0	4,498.8	4,458.3	21.0	13.7	168.52	412.3	198.8	573.9	550.2	23.75	24.162		
4,600.0	4,471.7	4,598.3	4,556.4	21.5	14.1	168.42	426.9	204.9	584.3	560.0	24.33	24.014		
4,700.0	4,568.4	4,697.7	4,654.6	22.0	14.4	168.32	441.5	210.9	594.8	569.9	24.91	23.872		
4,800.0	4,665.1	4,795.9	4,751.5	22.5	14.8	168.23	455.9	216.9	605.2	579.7	25.49	23.743		
4,900.0	4,762.2	4,879.0	4,833.8	23.0	15.0	168.22	466.8	221.4	615.7	589.7	25.98	23.704		
5,000.0	4,860.1	4,961.9	4,916.2	23.3	15.2	168.25	475.5	225.0	625.5	599.1	26.38	23.707		
5,100.0	4,958.6	5,044.7	4,998.7	23.6	15.4	168.30	482.0	227.7	634.5	607.8	26.74	23.728		

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 K-16CHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4946.0ft (RKB - 13')
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4946.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon K-16CHZ	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
5,200.0	5,057.6	5,127.4	5,081.2	23.9	15.6	168.38	486.2	229.5	642.8	615.8	27.04	23.768	
5,300.0	5,157.1	5,209.9	5,163.7	24.1	15.7	168.48	488.3	230.3	650.3	623.0	27.30	23.826	
5,400.0	5,256.9	5,302.1	5,255.9	24.3	15.8	168.60	488.5	230.4	656.7	629.2	27.52	23.861	
5,500.0	5,356.8	5,402.0	5,355.8	24.4	16.0	168.67	488.5	230.4	659.9	632.1	27.75	23.776	
5,600.0	5,456.8	5,502.0	5,455.8	24.5	16.1	-179.95	488.5	230.4	660.2	620.3	39.90	16.546	
5,628.4	5,485.2	5,530.4	5,484.2	24.5	16.2	-179.95	488.5	230.4	660.2	620.2	39.97	16.515	
5,700.0	5,556.8	5,601.3	5,555.0	24.6	16.3	-179.72	488.5	227.8	660.2	620.0	40.17	16.434	
5,800.0	5,656.8	5,697.9	5,650.4	24.7	16.4	-87.90	488.4	213.1	660.6	632.1	28.48	23.197	
5,900.0	5,756.3	5,791.4	5,740.1	24.8	16.4	-86.23	488.1	186.7	661.6	633.2	28.47	23.241	
6,000.0	5,853.7	5,882.8	5,823.7	24.8	16.4	-84.64	487.8	149.9	663.1	634.7	28.46	23.298	
6,100.0	5,946.9	5,972.3	5,900.3	24.8	16.4	-83.16	487.3	103.9	665.0	636.5	28.54	23.300	
6,200.0	6,034.3	6,060.2	5,969.5	24.8	16.4	-81.81	486.8	49.7	667.1	638.3	28.78	23.182	
6,300.0	6,114.0	6,150.0	6,032.7	24.8	16.4	-80.57	486.2	-14.0	669.3	640.0	29.27	22.863	
6,400.0	6,184.7	6,232.2	6,083.1	24.9	16.5	-79.58	485.6	-78.8	671.3	641.3	30.09	22.315	
6,500.0	6,244.7	6,316.7	6,126.9	24.9	16.7	-78.73	484.9	-151.0	673.2	641.9	31.33	21.489	
6,600.0	6,293.1	6,400.0	6,161.5	25.1	17.3	-78.07	484.2	-226.8	674.8	641.8	33.02	20.436	
6,700.0	6,328.9	6,483.7	6,187.2	25.3	18.4	-77.60	483.4	-306.4	675.9	640.7	35.21	19.195	
6,800.0	6,351.3	6,566.6	6,203.3	25.8	19.8	-77.33	482.6	-387.7	676.6	638.8	37.83	17.884	
6,900.0	6,359.9	6,650.0	6,209.8	26.6	21.3	-77.27	481.8	-470.7	676.8	635.9	40.83	16.576	
6,944.0	6,360.5	6,690.1	6,210.0	27.1	22.1	-77.24	481.4	-510.9	676.8	634.4	42.44	15.948	
7,000.0	6,360.0	6,746.1	6,210.0	27.8	23.3	-77.28	480.9	-566.9	676.7	632.1	44.66	15.153	
7,100.0	6,360.0	6,846.1	6,210.0	29.3	25.5	-77.28	480.0	-666.9	676.7	627.9	48.88	13.845	
7,200.0	6,360.0	6,946.1	6,210.0	31.1	27.8	-77.28	479.0	-766.9	676.7	623.4	53.33	12.690	
7,300.0	6,360.0	7,046.1	6,210.0	33.1	30.1	-77.28	478.0	-866.9	676.7	618.8	57.95	11.678	
7,400.0	6,360.0	7,146.1	6,210.0	35.3	32.6	-77.28	477.1	-966.8	676.7	614.0	62.71	10.791	
7,500.0	6,360.0	7,246.1	6,210.0	37.5	35.1	-77.28	476.1	-1,066.8	676.7	609.1	67.59	10.013	
7,600.0	6,360.0	7,346.1	6,210.0	39.9	37.6	-77.28	475.2	-1,166.8	676.7	604.2	72.54	9.328	
7,700.0	6,360.0	7,446.1	6,210.0	42.3	40.2	-77.28	474.2	-1,266.8	676.7	599.2	77.57	8.724	
7,800.0	6,360.0	7,546.1	6,210.0	44.8	42.8	-77.28	473.3	-1,366.8	676.7	594.1	82.66	8.187	
7,900.0	6,360.0	7,646.1	6,210.0	47.3	45.4	-77.28	472.3	-1,466.8	676.7	588.9	87.79	7.708	
8,000.0	6,360.0	7,746.1	6,210.0	49.8	48.0	-77.28	471.4	-1,566.8	676.7	583.8	92.96	7.279	
8,100.0	6,360.0	7,846.1	6,210.0	52.4	50.7	-77.28	470.4	-1,666.8	676.7	578.6	98.17	6.893	
8,200.0	6,360.0	7,946.1	6,210.0	55.0	53.4	-77.28	469.5	-1,766.8	676.7	573.3	103.40	6.544	
8,300.0	6,360.0	8,046.1	6,210.0	57.6	56.1	-77.28	468.5	-1,866.8	676.7	568.1	108.66	6.228	
8,400.0	6,360.0	8,146.1	6,210.0	60.2	58.8	-77.28	467.5	-1,966.8	676.7	562.8	113.94	5.939	
8,500.0	6,360.0	8,246.1	6,210.0	62.9	61.5	-77.28	466.6	-2,066.8	676.7	557.5	119.24	5.675	
8,600.0	6,360.0	8,346.1	6,210.0	65.5	64.2	-77.28	465.6	-2,166.8	676.7	552.2	124.55	5.433	
8,700.0	6,360.0	8,446.1	6,210.0	68.2	66.9	-77.28	464.7	-2,266.8	676.7	546.8	129.88	5.210	
8,800.0	6,360.0	8,546.1	6,210.0	70.9	69.6	-77.28	463.7	-2,366.8	676.7	541.5	135.22	5.005	
8,900.0	6,360.0	8,646.1	6,210.0	73.6	72.4	-77.28	462.8	-2,466.8	676.7	536.1	140.57	4.814	
9,000.0	6,360.0	8,746.1	6,210.0	76.3	75.1	-77.28	461.8	-2,566.8	676.7	530.8	145.93	4.637	
9,100.0	6,360.0	8,846.1	6,210.0	79.0	77.9	-77.28	460.9	-2,666.8	676.7	525.4	151.29	4.473	
9,200.0	6,360.0	8,946.1	6,210.0	81.7	80.6	-77.28	459.9	-2,766.8	676.7	520.0	156.67	4.319	
9,300.0	6,360.0	9,046.1	6,210.0	84.4	83.4	-77.28	459.0	-2,866.8	676.7	514.7	162.05	4.176	
9,400.0	6,360.0	9,146.1	6,210.0	87.1	86.1	-77.28	458.0	-2,966.8	676.7	509.3	167.44	4.041	
9,500.0	6,360.0	9,246.1	6,210.0	89.9	88.9	-77.28	457.0	-3,066.8	676.7	503.9	172.84	3.915	
9,600.0	6,360.0	9,346.1	6,210.0	92.6	91.6	-77.28	456.1	-3,166.7	676.7	498.5	178.23	3.797	
9,700.0	6,360.0	9,446.1	6,210.0	95.3	94.4	-77.28	455.1	-3,266.7	676.7	493.1	183.64	3.685	
9,800.0	6,360.0	9,546.1	6,210.0	98.1	97.2	-77.28	454.2	-3,366.7	676.7	487.7	189.05	3.580	
9,900.0	6,360.0	9,646.1	6,210.0	100.8	99.9	-77.28	453.2	-3,466.7	676.7	482.2	194.46	3.480	
10,000.0	6,360.0	9,746.1	6,210.0	103.6	102.7	-77.28	452.3	-3,566.7	676.7	476.8	199.88	3.386	
10,100.0	6,360.0	9,846.1	6,210.0	106.3	105.5	-77.28	451.3	-3,666.7	676.7	471.4	205.30	3.296	

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 K-16CHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4946.0ft (RKB - 13')
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4946.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon K-16CHZ	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
10,200.0	6,360.0	9,946.1	6,210.0	109.1	108.2	-77.28	450.4	-3,766.7	676.7	466.0	210.72	3.211	
10,300.0	6,360.0	10,046.1	6,210.0	111.8	111.0	-77.28	449.4	-3,866.7	676.7	460.6	216.14	3.131	
10,400.0	6,360.0	10,146.1	6,210.0	114.6	113.8	-77.28	448.5	-3,966.7	676.7	455.1	221.57	3.054	
10,500.0	6,360.0	10,246.1	6,210.0	117.4	116.6	-77.28	447.5	-4,066.7	676.7	449.7	227.00	2.981	
10,600.0	6,360.0	10,346.1	6,210.0	120.1	119.4	-77.28	446.6	-4,166.7	676.7	444.3	232.43	2.911	
10,700.0	6,360.0	10,446.1	6,210.0	122.9	122.1	-77.28	445.6	-4,266.7	676.7	438.8	237.87	2.845	
10,800.0	6,360.0	10,546.1	6,210.0	125.7	124.9	-77.28	444.6	-4,366.7	676.7	433.4	243.31	2.781	
10,900.0	6,360.0	10,646.1	6,210.0	128.4	127.7	-77.28	443.7	-4,466.7	676.7	427.9	248.74	2.720	
10,958.0	6,360.0	10,704.1	6,210.0	130.0	129.3	-77.28	443.1	-4,524.7	676.7	424.8	251.90	2.686 SF	

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	
0.0	0.0	0.0	0.0	0.0	0.0	-179.88	-135.2	-0.3	135.2					
100.0	100.0	98.0	98.0	0.1	0.1	-179.88	-135.2	-0.3	135.2	135.0	0.22	607.464		
200.0	200.0	198.0	198.0	0.3	0.3	-179.88	-135.2	-0.3	135.2	134.5	0.67	201.812 CC, ES		
300.0	300.0	298.0	298.0	0.6	0.6	168.88	-135.2	-0.3	136.9	135.8	1.13	121.473		
400.0	399.8	397.8	397.8	0.8	0.8	169.27	-135.2	-0.3	142.0	140.4	1.59	89.415		
500.0	499.5	497.5	497.5	1.0	1.0	169.86	-135.2	-0.3	150.6	148.5	2.05	73.452		
600.0	598.7	596.7	596.7	1.3	1.2	170.57	-135.2	-0.3	162.6	160.1	2.51	64.702		
700.0	697.5	695.5	695.5	1.6	1.5	171.35	-135.2	-0.3	178.1	175.1	2.98	59.803		
800.0	795.6	793.6	793.6	2.0	1.7	172.13	-135.2	-0.3	197.0	193.5	3.44	57.196		
900.0	893.1	891.1	891.1	2.4	1.9	172.88	-135.2	-0.3	219.3	215.4	3.91	56.061		
1,000.0	989.8	987.8	987.8	2.9	2.1	173.59	-135.2	-0.3	244.3	239.9	4.38	55.743		
1,100.0	1,086.5	1,084.5	1,084.5	3.4	2.3	174.20	-135.2	-0.3	269.6	264.7	4.86	55.473		
1,200.0	1,183.3	1,181.3	1,181.3	3.9	2.5	174.69	-135.2	-0.3	294.9	289.5	5.34	55.214		
1,300.0	1,280.0	1,278.0	1,278.0	4.4	2.8	175.12	-135.2	-0.3	320.2	314.4	5.82	54.973		
1,400.0	1,376.7	1,374.7	1,374.7	4.9	3.0	175.47	-135.2	-0.3	345.5	339.2	6.31	54.751		
1,500.0	1,473.4	1,471.4	1,471.4	5.4	3.2	175.78	-135.2	-0.3	370.8	364.1	6.80	54.547		
1,600.0	1,570.1	1,568.1	1,568.1	5.9	3.4	176.05	-135.2	-0.3	396.2	388.9	7.29	54.362		
1,700.0	1,666.9	1,664.9	1,664.9	6.4	3.6	176.29	-135.2	-0.3	421.6	413.8	7.78	54.192		
1,800.0	1,763.6	1,761.6	1,761.6	7.0	3.8	176.50	-135.2	-0.3	446.9	438.6	8.27	54.037		
1,900.0	1,860.3	1,858.3	1,858.3	7.5	4.1	176.69	-135.2	-0.3	472.3	463.5	8.76	53.894		
2,000.0	1,957.0	1,955.0	1,955.0	8.0	4.3	176.86	-135.2	-0.3	497.7	488.4	9.26	53.764		
2,100.0	2,053.7	2,051.7	2,051.7	8.5	4.5	177.01	-135.2	-0.3	523.0	513.3	9.75	53.643		
2,200.0	2,150.4	2,148.4	2,148.4	9.0	4.7	177.15	-135.2	-0.3	548.4	538.2	10.24	53.531		
2,300.0	2,247.2	2,245.2	2,245.2	9.5	4.9	177.28	-135.2	-0.3	573.8	563.1	10.74	53.428		
2,400.0	2,343.9	2,341.9	2,341.9	10.1	5.2	177.39	-135.2	-0.3	599.2	587.9	11.23	53.332		
2,500.0	2,440.6	2,438.6	2,438.6	10.6	5.4	177.50	-135.2	-0.3	624.6	612.8	11.73	53.242		
2,600.0	2,537.3	2,535.3	2,535.3	11.1	5.6	177.58	-135.2	-0.1	649.9	637.7	12.22	53.181		
2,700.0	2,634.0	2,632.1	2,632.0	11.6	5.8	177.42	-135.6	2.7	675.3	662.6	12.70	53.166		
2,800.0	2,730.8	2,728.6	2,728.3	12.1	6.0	177.00	-136.6	8.7	700.7	687.6	13.18	53.161		
2,900.0	2,827.5	2,824.7	2,824.1	12.6	6.2	176.35	-138.0	17.8	726.2	712.6	13.67	53.117		
3,000.0	2,924.2	2,921.0	2,919.8	13.2	6.4	175.68	-139.6	27.8	751.8	737.7	14.17	53.041		
3,100.0	3,020.9	3,017.3	3,015.6	13.7	6.6	175.04	-141.1	37.8	777.5	762.8	14.68	52.947		
3,200.0	3,117.6	3,113.6	3,111.3	14.2	6.8	174.45	-142.7	47.9	803.3	788.1	15.20	52.841		
3,300.0	3,214.3	3,209.9	3,207.1	14.7	7.0	173.89	-144.3	57.9	829.1	813.4	15.73	52.724		
3,400.0	3,311.1	3,306.2	3,302.9	15.2	7.3	173.37	-145.8	67.9	855.1	838.8	16.26	52.599		
3,500.0	3,407.8	3,402.5	3,398.6	15.8	7.5	172.88	-147.4	77.9	881.0	864.3	16.79	52.469		
3,600.0	3,504.5	3,498.8	3,494.4	16.3	7.7	172.42	-149.0	87.9	907.1	889.8	17.33	52.335		
3,700.0	3,601.2	3,595.1	3,590.1	16.8	8.0	171.98	-150.6	97.9	933.2	915.3	17.88	52.199		
3,800.0	3,697.9	3,691.4	3,685.9	17.3	8.2	171.56	-152.1	108.0	959.3	940.9	18.43	52.062		
3,900.0	3,794.7	3,787.7	3,781.7	17.8	8.5	171.17	-153.7	118.0	985.5	966.5	18.98	51.925 SF		

COMPASS 2003.21 Build 46

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Cannon K-16CHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4946.0ft (RKB - 13')
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4946.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon K-16CHZ	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 Markham Pad Sec.16-T4N-R68W - SRC Markham 31-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)										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				
7,300.0	6,360.0	6,471.3	6,172.0	33.1	27.3	55.54	1,448.6	-1,770.9	974.8	924.5	50.27	19.392				
7,400.0	6,360.0	6,461.9	6,166.9	35.3	27.3	54.26	1,440.9	-1,772.4	883.8	832.2	51.60	17.130				
7,500.0	6,360.0	6,450.0	6,160.3	37.5	27.3	52.59	1,431.2	-1,774.3	794.8	742.2	52.68	15.088				
7,600.0	6,360.0	6,450.0	6,160.3	39.9	27.3	52.59	1,431.2	-1,774.3	708.6	653.9	54.68	12.960				
7,700.0	6,360.0	6,431.7	6,149.9	42.3	27.3	49.96	1,416.5	-1,777.3	626.0	571.0	55.05	11.372				
7,800.0	6,360.0	6,420.9	6,143.6	44.8	27.3	48.37	1,407.9	-1,779.1	549.0	493.1	55.95	9.813				
7,900.0	6,360.0	6,409.7	6,136.8	47.3	27.3	46.69	1,399.1	-1,781.1	480.2	423.5	56.69	8.470				
8,000.0	6,360.0	6,400.0	6,131.0	49.8	27.3	45.23	1,391.6	-1,782.8	423.4	365.9	57.49	7.365				
8,100.0	6,360.0	6,385.9	6,122.2	52.4	27.3	43.09	1,380.9	-1,785.3	384.1	326.5	57.61	6.667				
8,200.0	6,360.0	6,373.3	6,114.2	55.0	27.3	41.17	1,371.5	-1,787.6	367.9	310.1	57.76	6.369				
8,212.5	6,360.0	6,371.7	6,113.2	55.3	27.3	40.92	1,370.3	-1,787.9	367.7	309.9	57.76	6.365 CC, ES, SF				
8,300.0	6,360.0	6,360.3	6,105.8	57.6	27.3	39.18	1,361.8	-1,790.1	377.7	320.0	57.69	6.547				
8,400.0	6,360.0	6,350.0	6,099.0	60.2	27.3	37.61	1,354.3	-1,792.0	411.6	353.8	57.88	7.112				
8,500.0	6,360.0	6,332.7	6,087.3	62.9	27.2	35.00	1,342.0	-1,795.4	464.4	407.6	56.85	8.169				
8,600.0	6,360.0	6,318.1	6,077.3	65.5	27.2	32.84	1,331.8	-1,798.3	530.4	474.3	56.09	9.456				
8,700.0	6,360.0	6,300.0	6,064.6	68.2	27.2	30.23	1,319.4	-1,802.0	605.3	550.6	54.64	11.078				
8,800.0	6,360.0	6,287.2	6,055.4	70.9	27.2	28.43	1,310.9	-1,804.7	686.1	632.1	53.96	12.716				
8,900.0	6,360.0	6,270.8	6,043.5	73.6	27.2	26.21	1,300.3	-1,808.1	771.0	718.4	52.63	14.650				
9,000.0	6,360.0	6,250.0	6,028.0	76.3	27.2	23.52	1,287.1	-1,812.6	858.7	808.2	50.55	16.989				
9,100.0	6,360.0	6,236.3	6,017.6	79.0	27.2	21.84	1,278.8	-1,815.6	948.4	898.8	49.63	19.111				

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Cannon K-16CHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4946.0ft (RKB - 13')
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4946.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon K-16CHZ	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
7,100.0	6,360.0	6,431.9	6,056.5	29.3	30.9	46.90	1,489.2	-1,548.4	999.9	954.6	45.27	22.088	
7,200.0	6,360.0	6,423.1	6,052.3	31.1	30.9	45.93	1,481.7	-1,549.8	913.9	867.6	46.32	19.730	
7,300.0	6,360.0	6,414.0	6,047.8	33.1	30.9	44.91	1,473.9	-1,551.3	830.9	783.6	47.35	17.548	
7,400.0	6,360.0	6,400.0	6,040.6	35.3	30.9	43.32	1,462.1	-1,553.7	751.9	703.9	47.97	15.673	
7,500.0	6,360.0	6,400.0	6,040.6	37.5	30.9	43.32	1,462.1	-1,553.7	678.1	628.4	49.68	13.648	
7,600.0	6,360.0	6,384.4	6,032.5	39.9	30.9	41.52	1,449.1	-1,556.4	611.5	561.4	50.07	12.214	
7,700.0	6,360.0	6,373.7	6,026.7	42.3	30.8	40.27	1,440.3	-1,558.4	554.7	503.9	50.78	10.922	
7,800.0	6,360.0	6,362.6	6,020.6	44.8	30.8	38.97	1,431.2	-1,560.4	510.9	459.5	51.38	9.943	
7,900.0	6,360.0	6,350.0	6,013.5	47.3	30.8	37.48	1,421.1	-1,562.8	483.6	431.9	51.74	9.346	
7,989.3	6,360.0	6,340.2	6,007.8	49.5	30.8	36.33	1,413.3	-1,564.7	475.6	423.5	52.14	9.122 CC, ES	
8,000.0	6,360.0	6,338.9	6,007.1	49.8	30.8	36.17	1,412.2	-1,564.9	475.7	423.6	52.17	9.119 SF	
8,100.0	6,360.0	6,326.2	5,999.6	52.4	30.8	34.68	1,402.3	-1,567.4	488.1	435.8	52.33	9.328	
8,200.0	6,360.0	6,313.1	5,991.7	55.0	30.8	33.14	1,392.1	-1,570.1	519.2	466.9	52.32	9.924	
8,300.0	6,360.0	6,300.0	5,983.7	57.6	30.8	31.62	1,382.2	-1,572.8	566.1	513.8	52.24	10.836	
8,400.0	6,360.0	6,284.9	5,974.2	60.2	30.8	29.88	1,370.9	-1,576.0	625.0	573.2	51.80	12.065	
8,500.0	6,360.0	6,270.0	5,964.6	62.9	30.7	28.19	1,359.9	-1,579.2	693.0	641.7	51.29	13.512	
8,600.0	6,360.0	6,250.0	5,951.4	65.5	30.7	25.98	1,345.6	-1,583.6	767.5	717.5	50.04	15.338	
8,700.0	6,360.0	6,238.0	5,943.3	68.2	30.7	24.69	1,337.2	-1,586.4	846.9	797.1	49.77	17.015	
8,800.0	6,360.0	6,220.9	5,931.5	70.9	30.7	22.91	1,325.5	-1,590.3	929.8	881.0	48.80	19.052	

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Cannon K-16CHZ
Project:	SEC.16-T4N-R68W	TVD Reference:	WELL @ 4946.0ft (RKB - 13')
Reference Site:	SRC Cannon Pad Sec.16-T4N-R68W	MD Reference:	WELL @ 4946.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Cannon K-16CHZ	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 Markham Pad Sec.16-T4N-R68W - SRC Markham 41-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)										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		
5,500.0	5,356.8	6,269.4	5,787.8	24.4	48.8	-100.70	1,164.5	-648.1	966.3	921.0	45.34	21.315		
5,600.0	5,456.8	6,353.0	5,860.6	24.5	49.3	-87.32	1,188.3	-614.6	925.3	861.9	63.48	14.577		
5,700.0	5,556.8	6,430.1	5,925.0	24.6	49.7	-85.12	1,218.4	-584.9	886.0	821.8	64.20	13.799		
5,800.0	5,656.8	6,500.0	5,980.6	24.7	50.1	8.06	1,252.1	-559.3	849.4	804.8	44.57	19.057		
5,900.0	5,756.3	6,559.5	6,025.3	24.8	50.4	11.43	1,285.4	-538.7	809.1	765.9	43.26	18.703		
6,000.0	5,853.7	6,608.0	6,059.9	24.8	50.5	15.27	1,315.5	-522.8	762.1	720.1	41.97	18.160		
6,100.0	5,946.9	6,650.0	6,088.3	24.8	50.7	19.79	1,343.6	-509.8	710.0	668.7	41.33	17.180		
6,200.0	6,034.3	6,676.4	6,105.3	24.8	50.8	24.09	1,362.2	-501.9	654.6	613.4	41.27	15.862		
6,300.0	6,114.0	6,700.0	6,120.0	24.8	50.9	28.98	1,379.3	-495.2	597.7	555.4	42.31	14.127		
6,400.0	6,184.7	6,713.6	6,128.2	24.9	50.9	33.40	1,389.5	-491.4	541.2	497.5	43.71	12.381		
6,500.0	6,244.7	6,722.3	6,133.4	24.9	50.9	37.50	1,396.1	-489.0	487.4	441.8	45.59	10.690		
6,600.0	6,293.1	6,725.0	6,135.1	25.1	50.9	40.67	1,398.1	-488.3	439.1	391.4	47.62	9.220		
6,700.0	6,328.9	6,721.9	6,133.2	25.3	50.9	42.49	1,395.7	-489.1	399.6	350.0	49.58	8.060		
6,800.0	6,351.3	6,712.7	6,127.7	25.8	50.9	42.62	1,388.8	-491.6	372.4	321.2	51.15	7.280		
6,900.0	6,359.9	6,700.0	6,120.0	26.6	50.9	41.33	1,379.3	-495.2	360.1	307.7	52.39	6.873		
6,915.9	6,360.1	6,700.0	6,120.0	26.8	50.9	41.33	1,379.3	-495.2	359.7	307.1	52.63	6.835	CC, ES, SF	
7,000.0	6,360.0	6,677.3	6,105.9	27.8	50.8	37.89	1,362.8	-501.7	367.5	316.6	50.86	7.225		
7,100.0	6,360.0	6,650.0	6,088.3	29.3	50.7	33.80	1,343.6	-509.8	399.0	350.6	48.33	8.254		
7,200.0	6,360.0	6,633.6	6,077.4	31.1	50.6	31.40	1,332.4	-514.8	449.3	402.1	47.22	9.515		
7,300.0	6,360.0	6,609.8	6,061.2	33.1	50.6	28.04	1,316.7	-522.2	513.0	468.0	44.98	11.405		
7,400.0	6,360.0	6,584.7	6,043.5	35.3	50.5	24.69	1,300.7	-530.3	585.5	543.0	42.53	13.768		
7,500.0	6,360.0	6,558.1	6,024.3	37.5	50.3	21.39	1,284.6	-539.2	664.0	624.0	39.97	16.612		
7,600.0	6,360.0	6,530.1	6,003.5	39.9	50.2	18.22	1,268.5	-548.7	746.3	708.9	37.42	19.943		
7,700.0	6,360.0	6,500.0	5,980.6	42.3	50.1	15.17	1,252.1	-559.3	831.3	796.3	34.96	23.778		
7,800.0	6,360.0	6,469.5	5,956.7	44.8	49.9	12.45	1,236.7	-570.3	918.1	885.2	32.90	27.909		

Offset Design SRC Markham Pad Sec.16-T4N-R68W - SRC Markham 41-16-9NHZ - Wellbore #1 - Plan #1 (3-31-14)													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		
4,900.0	4,762.2	5,735.3	5,233.6	23.0	48.6	-101.43	1,171.7	-652.1	979.0	935.7	43.33	22.593		
5,000.0	4,860.1	5,822.6	5,311.5	23.3	49.5	-102.07	1,164.1	-613.3	936.9	892.7	44.21	21.190		
5,100.0	4,958.6	5,910.5	5,389.9	23.6	50.4	-102.64	1,156.5	-574.3	894.7	849.6	45.04	19.864		
5,200.0	5,057.6	5,998.4	5,468.3	23.9	51.3	-103.09	1,149.1	-535.3	852.3	806.5	45.79	18.614		
5,300.0	5,157.1	6,086.3	5,547.0	24.1	52.0	-102.86	1,149.0	-496.2	809.6	763.4	46.15	17.541		
5,400.0	5,256.9	6,174.7	5,625.5	24.3	52.7	-101.52	1,159.8	-457.1	766.4	720.4	46.02	16.655		
5,500.0	5,356.8	6,259.7	5,699.3	24.4	53.3	-98.98	1,180.2	-420.4	723.2	677.7	45.50	15.893		
5,600.0	5,456.8	6,338.3	5,765.2	24.5	53.8	-84.55	1,207.7	-387.7	681.0	612.9	68.13	9.996		
5,700.0	5,556.8	6,409.9	5,822.6	24.6	54.2	-81.24	1,239.6	-359.2	642.1	573.3	68.73	9.341		
5,800.0	5,656.8	6,474.3	5,871.6	24.7	54.6	13.08	1,273.7	-334.9	608.2	562.7	45.52	13.361		
5,900.0	5,756.3	6,529.0	5,910.9	24.8	54.8	17.72	1,306.4	-315.4	573.9	528.5	45.43	12.632		
6,000.0	5,853.7	6,573.3	5,941.0	24.8	55.0	22.63	1,335.2	-300.5	536.9	491.0	45.93	11.688		
6,100.0	5,946.9	6,608.3	5,963.6	24.8	55.1	27.51	1,359.5	-289.3	500.1	453.1	46.98	10.645		
6,200.0	6,034.3	6,635.2	5,980.2	24.8	55.2	32.00	1,378.9	-281.1	466.5	418.2	48.21	9.675		
6,300.0	6,114.0	6,650.0	5,989.1	24.8	55.3	35.09	1,389.9	-276.7	439.3	390.6	48.75	9.011		
6,400.0	6,184.7	6,667.9	5,999.6	24.9	55.4	38.31	1,403.4	-271.5	421.6	371.8	49.84	8.460		
6,493.3	6,241.1	6,674.7	6,003.5	24.9	55.4	39.53	1,408.7	-269.6	416.0	366.1	49.95	8.328	CC, ES, SF	
6,500.0	6,244.7	6,675.0	6,003.6	24.9	55.4	39.57	1,408.9	-269.5	416.0	366.1	49.90	8.337		
6,600.0	6,293.1	6,676.4	6,004.5	25.1	55.4	39.38	1,410.0	-269.1	423.5	374.0	49.46	8.563		
6,700.0	6,328.9	6,672.2	6,002.1	25.3	55.4	37.81	1,406.8	-270.3	443.2	394.7	48.57	9.125		
6,800.0	6,351.3	6,662.3	5,996.3	25.8	55.3	35.02	1,399.1	-273.1	473.2	425.8	47.39	9.985		
6,900.0	6,359.9	6,650.0	5,989.1	26.6	55.3	31.76	1,389.9	-276.7	510.6	464.0	46.58	10.962		
7,000.0	6,360.0	6,625.6	5,974.3	27.8	55.2	28.75	1,371.8	-284.0	556.5	511.7	44.79	12.423		
7,100.0	6,360.0	6,600.0	5,958.3	29.3	55.1	25.93	1,353.6	-291.9	614.2	571.4	42.86	14.332		
7,200.0	6,360.0	6,580.4	5,945.6	31.1	55.0	23.84	1,340.0	-298.2	680.7	639.1	41.62	16.356		
7,300.0	6,360.0	6,550.0	5,925.3	33.1	54.9	20.77	1,319.8	-308.3	753.7	714.5	39.19	19.232		
7,400.0	6,360.0	6,529.5	5,911.2	35.3	54.8	18.82	1,306.6	-315.3	831.1	793.2	37.94	21.907		
7,500.0	6,360.0	6,500.0	5,890.3	37.5	54.7	16.20	1,288.6	-325.6	912.0	876.1	35.89	25.412		
7,600.0	6,360.0	6,472.2	5,870.0	39.9	54.6	13.95	1,272.5	-335.7	995.2	961.0	34.23	29.078		

SRC Markham Pad Sec.16-T4N-R68W - SRC Markham C-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)													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)			
6,900.0	6,359.9	6,579.7	6,179.5	26.6	34.7	55.51	1,460.9	-1,336.2	943.8	894.5	49.30	19.144		
7,000.0	6,360.0	6,569.0	6,173.9	27.8	34.7	55.82	1,452.0	-1,338.2	853.6	802.5	51.14	16.692		
7,100.0	6,360.0	6,550.0	6,163.6	29.3	34.7	53.21	1,436.4	-1,341.8	765.6	714.1	51.51	14.862		
7,200.0	6,360.0	6,550.0	6,163.6	31.1	34.7	53.21	1,436.4	-1,341.8	680.4	627.1	53.30	12.766		
7,300.0	6,360.0	6,533.8	6,154.6	33.1	34.7	50.90	1,423.3	-1,345.0	599.5	545.7	53.77	11.149		
7,400.0	6,360.0	6,521.0	6,147.3	35.3	34.7	49.03	1,413.1	-1,347.6	524.7	470.3	54.41	9.643		
7,500.0	6,360.0	6,500.0	6,134.9	37.5	34.6	45.89	1,396.8	-1,352.0	459.1	405.0	54.04	8.495		
7,600.0	6,360.0	6,500.0	6,134.9	39.9	34.6	45.89	1,396.8	-1,352.0	406.8	350.9	55.86	7.282		
7,700.0	6,360.0	6,478.9	6,122.0	42.3	34.6	42.69	1,380.7	-1,356.6	373.5	318.4	55.12	6.777		
7,784.1	6,360.0	6,466.1	6,113.9	44.4	34.6	40.72	1,371.2	-1,359.5	364.3	309.4	54.91	6.634 CC, ES, SF		
7,800.0	6,360.0	6,463.6	6,112.3	44.8	34.6	40.34	1,369.3	-1,360.0	364.6	309.8	54.85	6.648		
7,900.0	6,360.0	6,450.0	6,103.6	47.3	34.6	38.27	1,359.4	-1,363.1	381.6	327.0	54.65	6.983		
8,000.0	6,360.0	6,430.7	6,090.9	49.8	34.5	35.36	1,345.6	-1,367.7	421.4	367.9	53.46	7.882		
8,100.0	6,360.0	6,413.2	6,079.0	52.4	34.5	32.75	1,333.4	-1,371.9	478.1	425.8	52.33	9.137		
8,200.0	6,360.0	6,400.0	6,069.9	55.0	34.5	30.84	1,324.4	-1,375.1	546.7	494.9	51.77	10.560		
8,300.0	6,360.0	6,375.5	6,052.6	57.6	34.4	27.41	1,308.2	-1,381.3	622.9	573.6	49.32	12.630		
8,400.0	6,360.0	6,350.0	6,034.0	60.2	34.4	24.05	1,292.0	-1,387.9	704.4	657.7	46.70	15.084		
8,500.0	6,360.0	6,334.4	6,022.4	62.9	34.3	22.10	1,282.5	-1,392.0	789.5	743.9	45.60	17.312		
8,600.0	6,360.0	6,312.4	6,005.7	65.5	34.3	19.54	1,269.5	-1,397.9	877.0	833.4	43.65	20.094		
8,700.0	6,360.0	6,289.5	5,988.0	68.2	34.2	17.07	1,256.5	-1,404.3	966.4	924.6	41.73	23.158		

