

# Synergy Resources

Well Name: **SRC Markham C-16-9NHZ**

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

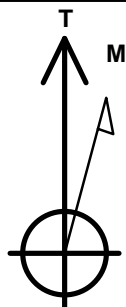
Ground Elevation: 4963.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1357581.29	3136568.19	40.313926	-105.010267	

RKB - 13' WELL @ 4976.0ft (RKB - 13')

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 2440'FNL & 2099'FWL, SEC.16	1.0	0.0	0.0	Point
BHL 460'FNL & 1360'FEL, SEC.9	6150.0	7318.3	1817.7	Point
LANDING PT. 2196'FNL & 1360'FEL, SEC.16	6150.0	262.4	1828.6	Point



Azimuths to True North  
Magnetic North: 8.61°

Magnetic Field  
Strength: 52762.9snT  
Dip Angle: 66.84°  
Date: 4/7/2014  
Model: IGRF2010

SRC Markham Pad Sec.16-T4N-R68W  
SRC Markham C-16-9NHZ  
Plan #1 (3-31-14)  
6:42, April 09 2014

## ANNOTATIONS

TVD	MD	Annotation
1000.0	1000.0	KOP - Start Build 2.00
5412.6	5717.6	Start DLS 8.00 TFO -105.23
6150.0	6920.8	Start 7055.7 hold at 6920.8 MD
6150.0	13976.5	TD at 13976.5

South(-)/North(+) (3000 ft/in)

**BHL 460'FNL & 1360'FEL, SEC.9**

SRC Markham C-16-9NHZ

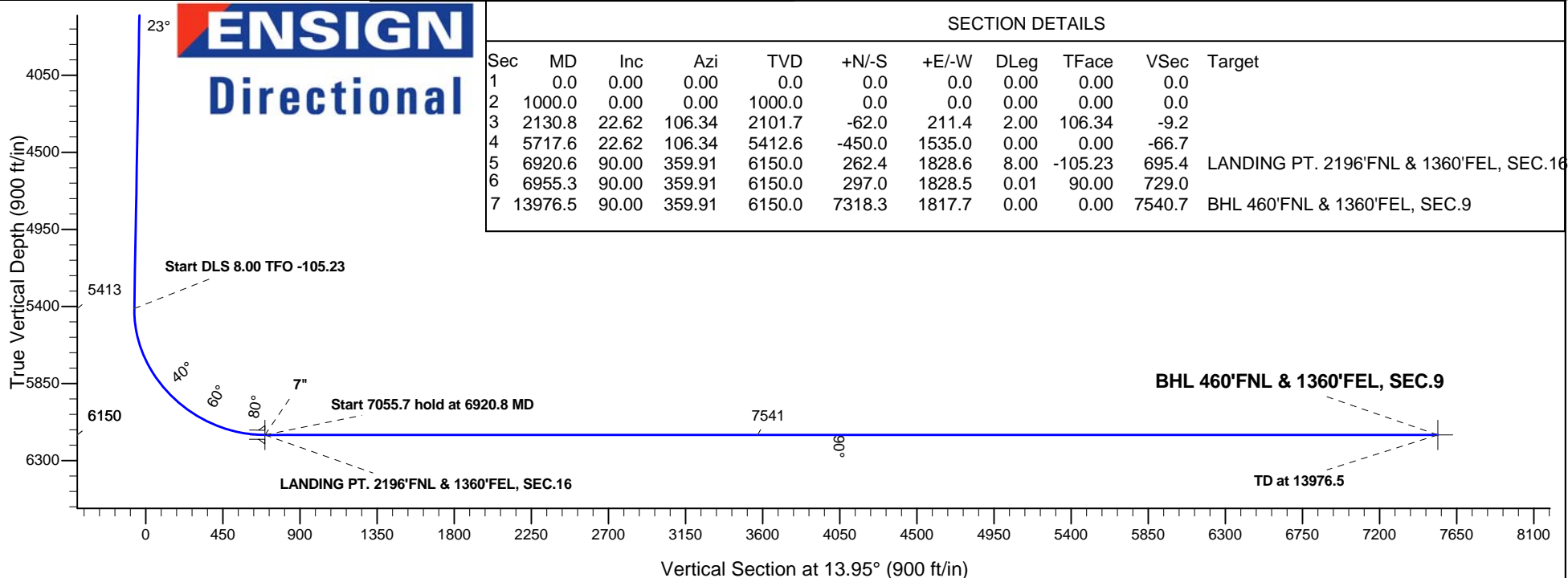
Casing Pt. 2196'FNL & 1360'FEL, SEC.16

SRC Markham C-16-9NHZ

**SHL 2440'FNL & 2099'FWL, SEC.16**

LANDING PT. 2196'FNL & 1360'FEL, SEC.16

West(-)/East(+) (3000 ft/in)





## **Synergy Resources**

**Sec.16-T4N-R68W**

**SRC Markham Pad Sec.16-T4N-R68W**

**SRC Markham C-16-9NHZ**

**Wellbore #1**

**Plan: Plan #1 (3-31-14)**

## **Standard Planning Report**

**09 April, 2014**

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,130.8	22.62	106.34	2,101.7	-62.0	211.4	2.00	2.00	0.00	106.34	
5,717.6	22.62	106.34	5,412.6	-450.0	1,535.0	0.00	0.00	0.00	0.00	
6,920.6	90.00	359.91	6,150.0	262.4	1,828.6	8.00	5.60	-8.85	-105.23	LANDING PT. 2196
6,955.3	90.00	359.91	6,150.0	297.0	1,828.5	0.01	0.00	0.01	90.00	
13,976.5	90.00	359.91	6,150.0	7,318.3	1,817.7	0.00	0.00	0.00	0.00	BHL 460'FNL & 136

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Project:</b>	Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (3-31-14)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>SHL 2440'FNL &amp; 2099'FWL, SEC.16</b>									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>KOP - Start Build 2.00</b>									
1,100.0	2.00	106.34	1,100.0	-0.5	1.7	-0.1	2.00	2.00	0.00
1,200.0	4.00	106.34	1,199.8	-2.0	6.7	-0.3	2.00	2.00	0.00
1,300.0	6.00	106.34	1,299.5	-4.4	15.1	-0.7	2.00	2.00	0.00
1,400.0	8.00	106.34	1,398.7	-7.8	26.8	-1.2	2.00	2.00	0.00
1,500.0	10.00	106.34	1,497.5	-12.2	41.8	-1.8	2.00	2.00	0.00
1,600.0	12.00	106.34	1,595.6	-17.6	60.1	-2.6	2.00	2.00	0.00
1,700.0	14.00	106.34	1,693.1	-23.9	81.7	-3.5	2.00	2.00	0.00
1,800.0	16.00	106.34	1,789.6	-31.2	106.5	-4.6	2.00	2.00	0.00
1,900.0	18.00	106.34	1,885.3	-39.4	134.5	-5.8	2.00	2.00	0.00
2,000.0	20.00	106.34	1,979.8	-48.6	165.8	-7.2	2.00	2.00	0.00
2,100.0	22.00	106.34	2,073.2	-58.7	200.2	-8.7	2.00	2.00	0.00
2,130.8	22.62	106.34	2,101.7	-62.0	211.4	-9.2	2.00	2.00	0.00
2,200.0	22.62	106.34	2,165.5	-69.5	236.9	-10.3	0.00	0.00	0.00
2,300.0	22.62	106.34	2,257.9	-80.3	273.8	-11.9	0.00	0.00	0.00
2,400.0	22.62	106.34	2,350.2	-91.1	310.7	-13.5	0.00	0.00	0.00
2,500.0	22.62	106.34	2,442.5	-101.9	347.6	-15.1	0.00	0.00	0.00
2,600.0	22.62	106.34	2,534.8	-112.7	384.5	-16.7	0.00	0.00	0.00
2,700.0	22.62	106.34	2,627.1	-123.6	421.4	-18.3	0.00	0.00	0.00
2,800.0	22.62	106.34	2,719.4	-134.4	458.4	-19.9	0.00	0.00	0.00
2,900.0	22.62	106.34	2,811.7	-145.2	495.3	-21.5	0.00	0.00	0.00
3,000.0	22.62	106.34	2,904.0	-156.0	532.2	-23.1	0.00	0.00	0.00
3,100.0	22.62	106.34	2,996.3	-166.8	569.1	-24.7	0.00	0.00	0.00
3,200.0	22.62	106.34	3,088.6	-177.7	606.0	-26.3	0.00	0.00	0.00
3,300.0	22.62	106.34	3,180.9	-188.5	642.9	-27.9	0.00	0.00	0.00
3,400.0	22.62	106.34	3,273.3	-199.3	679.8	-29.5	0.00	0.00	0.00
3,500.0	22.62	106.34	3,365.6	-210.1	716.7	-31.2	0.00	0.00	0.00
3,600.0	22.62	106.34	3,457.9	-220.9	753.6	-32.8	0.00	0.00	0.00
3,700.0	22.62	106.34	3,550.2	-231.7	790.5	-34.4	0.00	0.00	0.00
3,800.0	22.62	106.34	3,642.5	-242.6	827.4	-36.0	0.00	0.00	0.00
3,900.0	22.62	106.34	3,734.8	-253.4	864.3	-37.6	0.00	0.00	0.00
4,000.0	22.62	106.34	3,827.1	-264.2	901.2	-39.2	0.00	0.00	0.00
4,100.0	22.62	106.34	3,919.4	-275.0	938.1	-40.8	0.00	0.00	0.00
4,200.0	22.62	106.34	4,011.7	-285.8	975.0	-42.4	0.00	0.00	0.00
4,300.0	22.62	106.34	4,104.0	-296.7	1,011.9	-44.0	0.00	0.00	0.00
4,400.0	22.62	106.34	4,196.4	-307.5	1,048.8	-45.6	0.00	0.00	0.00
4,500.0	22.62	106.34	4,288.7	-318.3	1,085.7	-47.2	0.00	0.00	0.00
4,600.0	22.62	106.34	4,381.0	-329.1	1,122.6	-48.8	0.00	0.00	0.00
4,700.0	22.62	106.34	4,473.3	-339.9	1,159.5	-50.4	0.00	0.00	0.00
4,800.0	22.62	106.34	4,565.6	-350.8	1,196.4	-52.0	0.00	0.00	0.00
4,900.0	22.62	106.34	4,657.9	-361.6	1,233.3	-53.6	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Project:</b>	Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (3-31-14)		

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	22.62	106.34	4,750.2	-372.4	1,270.2	-55.2	0.00	0.00	0.00
5,100.0	22.62	106.34	4,842.5	-383.2	1,307.1	-56.8	0.00	0.00	0.00
5,200.0	22.62	106.34	4,934.8	-394.0	1,344.0	-58.4	0.00	0.00	0.00
5,300.0	22.62	106.34	5,027.1	-404.9	1,380.9	-60.0	0.00	0.00	0.00
5,400.0	22.62	106.34	5,119.5	-415.7	1,417.8	-61.6	0.00	0.00	0.00
5,500.0	22.62	106.34	5,211.8	-426.5	1,454.7	-63.2	0.00	0.00	0.00
5,600.0	22.62	106.34	5,304.1	-437.3	1,491.6	-64.8	0.00	0.00	0.00
5,700.0	22.62	106.34	5,396.4	-448.1	1,528.5	-66.4	0.00	0.00	0.00
5,717.6	22.62	106.34	5,412.6	-450.0	1,535.0	-66.7	0.00	0.00	0.00
<b>Start DLS 8.00 TFO -105.23</b>									
5,800.0	21.78	88.96	5,489.0	-454.2	1,565.6	-63.4	8.00	-1.01	-21.09
5,900.0	23.25	68.33	5,581.5	-446.6	1,602.5	-47.1	8.00	1.47	-20.64
6,000.0	26.99	51.58	5,672.2	-425.2	1,638.7	-17.6	8.00	3.74	-16.75
6,100.0	32.22	39.26	5,759.2	-390.3	1,673.4	24.6	8.00	5.23	-12.32
6,200.0	38.33	30.27	5,840.8	-342.8	1,706.0	78.5	8.00	6.11	-8.99
6,300.0	44.95	23.50	5,915.5	-283.6	1,735.7	143.2	8.00	6.63	-6.77
6,400.0	51.89	18.17	5,981.9	-213.7	1,762.1	217.4	8.00	6.94	-5.33
6,500.0	59.03	13.78	6,038.6	-134.5	1,784.7	299.6	8.00	7.14	-4.39
6,600.0	66.30	10.01	6,084.5	-47.7	1,802.9	388.3	8.00	7.27	-3.77
6,700.0	73.65	6.64	6,118.7	45.2	1,816.4	481.7	8.00	7.35	-3.37
6,800.0	81.05	3.52	6,140.6	142.3	1,825.0	578.1	8.00	7.40	-3.12
6,900.0	88.47	0.52	6,149.7	241.8	1,828.5	675.4	8.00	7.42	-3.00
6,920.6	90.00	359.91	6,150.0	262.4	1,828.6	695.4	7.99	7.42	-2.97
<b>7" - LANDING PT. 2196'FNL &amp; 1360'FEL, SEC.16</b>									
6,920.8	90.00	359.91	6,150.0	262.6	1,828.6	695.6	0.79	0.73	-0.29
<b>Start 7055.7 hold at 6920.8 MD</b>									
6,955.3	90.00	359.91	6,150.0	297.0	1,828.5	729.0	0.01	0.00	0.01
7,000.0	90.00	359.91	6,150.0	341.8	1,828.5	772.4	0.00	0.00	0.00
7,100.0	90.00	359.91	6,150.0	441.8	1,828.3	869.5	0.00	0.00	0.00
7,200.0	90.00	359.91	6,150.0	541.8	1,828.1	966.5	0.00	0.00	0.00
7,300.0	90.00	359.91	6,150.0	641.8	1,828.0	1,063.5	0.00	0.00	0.00
7,400.0	90.00	359.91	6,150.0	741.8	1,827.8	1,160.5	0.00	0.00	0.00
7,500.0	90.00	359.91	6,150.0	841.8	1,827.7	1,257.5	0.00	0.00	0.00
7,600.0	90.00	359.91	6,150.0	941.8	1,827.5	1,354.5	0.00	0.00	0.00
7,700.0	90.00	359.91	6,150.0	1,041.8	1,827.4	1,451.5	0.00	0.00	0.00
7,800.0	90.00	359.91	6,150.0	1,141.8	1,827.2	1,548.6	0.00	0.00	0.00
7,900.0	90.00	359.91	6,150.0	1,241.8	1,827.1	1,645.6	0.00	0.00	0.00
8,000.0	90.00	359.91	6,150.0	1,341.8	1,826.9	1,742.6	0.00	0.00	0.00
8,100.0	90.00	359.91	6,150.0	1,441.8	1,826.8	1,839.6	0.00	0.00	0.00
8,200.0	90.00	359.91	6,150.0	1,541.8	1,826.6	1,936.6	0.00	0.00	0.00
8,300.0	90.00	359.91	6,150.0	1,641.8	1,826.5	2,033.6	0.00	0.00	0.00
8,400.0	90.00	359.91	6,150.0	1,741.8	1,826.3	2,130.6	0.00	0.00	0.00
8,500.0	90.00	359.91	6,150.0	1,841.8	1,826.1	2,227.7	0.00	0.00	0.00
8,600.0	90.00	359.91	6,150.0	1,941.8	1,826.0	2,324.7	0.00	0.00	0.00
8,700.0	90.00	359.91	6,150.0	2,041.8	1,825.8	2,421.7	0.00	0.00	0.00
8,800.0	90.00	359.91	6,150.0	2,141.8	1,825.7	2,518.7	0.00	0.00	0.00
8,900.0	90.00	359.91	6,150.0	2,241.8	1,825.5	2,615.7	0.00	0.00	0.00
9,000.0	90.00	359.91	6,150.0	2,341.8	1,825.4	2,712.7	0.00	0.00	0.00
9,100.0	90.00	359.91	6,150.0	2,441.8	1,825.2	2,809.7	0.00	0.00	0.00
9,200.0	90.00	359.91	6,150.0	2,541.8	1,825.1	2,906.8	0.00	0.00	0.00
9,300.0	90.00	359.91	6,150.0	2,641.8	1,824.9	3,003.8	0.00	0.00	0.00
9,400.0	90.00	359.91	6,150.0	2,741.8	1,824.8	3,100.8	0.00	0.00	0.00
9,500.0	90.00	359.91	6,150.0	2,841.8	1,824.6	3,197.8	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Project:</b>	Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (3-31-14)		

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)	
9,600.0	90.00	359.91	6,150.0	2,941.8	1,824.5	3,294.8	0.00	0.00	0.00	
9,700.0	90.00	359.91	6,150.0	3,041.8	1,824.3	3,391.8	0.00	0.00	0.00	
9,800.0	90.00	359.91	6,150.0	3,141.8	1,824.2	3,488.8	0.00	0.00	0.00	
9,900.0	90.00	359.91	6,150.0	3,241.8	1,824.0	3,585.9	0.00	0.00	0.00	
10,000.0	90.00	359.91	6,150.0	3,341.8	1,823.8	3,682.9	0.00	0.00	0.00	
10,100.0	90.00	359.91	6,150.0	3,441.8	1,823.7	3,779.9	0.00	0.00	0.00	
10,200.0	90.00	359.91	6,150.0	3,541.8	1,823.5	3,876.9	0.00	0.00	0.00	
10,300.0	90.00	359.91	6,150.0	3,641.8	1,823.4	3,973.9	0.00	0.00	0.00	
10,400.0	90.00	359.91	6,150.0	3,741.8	1,823.2	4,070.9	0.00	0.00	0.00	
10,500.0	90.00	359.91	6,150.0	3,841.8	1,823.1	4,167.9	0.00	0.00	0.00	
10,600.0	90.00	359.91	6,150.0	3,941.8	1,822.9	4,264.9	0.00	0.00	0.00	
10,700.0	90.00	359.91	6,150.0	4,041.8	1,822.8	4,362.0	0.00	0.00	0.00	
10,800.0	90.00	359.91	6,150.0	4,141.8	1,822.6	4,459.0	0.00	0.00	0.00	
10,900.0	90.00	359.91	6,150.0	4,241.8	1,822.5	4,556.0	0.00	0.00	0.00	
11,000.0	90.00	359.91	6,150.0	4,341.8	1,822.3	4,653.0	0.00	0.00	0.00	
11,100.0	90.00	359.91	6,150.0	4,441.8	1,822.2	4,750.0	0.00	0.00	0.00	
11,200.0	90.00	359.91	6,150.0	4,541.8	1,822.0	4,847.0	0.00	0.00	0.00	
11,300.0	90.00	359.91	6,150.0	4,641.8	1,821.8	4,944.0	0.00	0.00	0.00	
11,400.0	90.00	359.91	6,150.0	4,741.8	1,821.7	5,041.1	0.00	0.00	0.00	
11,500.0	90.00	359.91	6,150.0	4,841.8	1,821.5	5,138.1	0.00	0.00	0.00	
11,600.0	90.00	359.91	6,150.0	4,941.8	1,821.4	5,235.1	0.00	0.00	0.00	
11,700.0	90.00	359.91	6,150.0	5,041.8	1,821.2	5,332.1	0.00	0.00	0.00	
11,800.0	90.00	359.91	6,150.0	5,141.8	1,821.1	5,429.1	0.00	0.00	0.00	
11,900.0	90.00	359.91	6,150.0	5,241.8	1,820.9	5,526.1	0.00	0.00	0.00	
12,000.0	90.00	359.91	6,150.0	5,341.8	1,820.8	5,623.1	0.00	0.00	0.00	
12,100.0	90.00	359.91	6,150.0	5,441.8	1,820.6	5,720.2	0.00	0.00	0.00	
12,200.0	90.00	359.91	6,150.0	5,541.8	1,820.5	5,817.2	0.00	0.00	0.00	
12,300.0	90.00	359.91	6,150.0	5,641.8	1,820.3	5,914.2	0.00	0.00	0.00	
12,400.0	90.00	359.91	6,150.0	5,741.8	1,820.2	6,011.2	0.00	0.00	0.00	
12,500.0	90.00	359.91	6,150.0	5,841.8	1,820.0	6,108.2	0.00	0.00	0.00	
12,600.0	90.00	359.91	6,150.0	5,941.8	1,819.9	6,205.2	0.00	0.00	0.00	
12,700.0	90.00	359.91	6,150.0	6,041.8	1,819.7	6,302.2	0.00	0.00	0.00	
12,800.0	90.00	359.91	6,150.0	6,141.8	1,819.5	6,399.3	0.00	0.00	0.00	
12,900.0	90.00	359.91	6,150.0	6,241.8	1,819.4	6,496.3	0.00	0.00	0.00	
13,000.0	90.00	359.91	6,150.0	6,341.8	1,819.2	6,593.3	0.00	0.00	0.00	
13,100.0	90.00	359.91	6,150.0	6,441.8	1,819.1	6,690.3	0.00	0.00	0.00	
13,200.0	90.00	359.91	6,150.0	6,541.8	1,818.9	6,787.3	0.00	0.00	0.00	
13,300.0	90.00	359.91	6,150.0	6,641.8	1,818.8	6,884.3	0.00	0.00	0.00	
13,400.0	90.00	359.91	6,150.0	6,741.8	1,818.6	6,981.3	0.00	0.00	0.00	
13,500.0	90.00	359.91	6,150.0	6,841.8	1,818.5	7,078.4	0.00	0.00	0.00	
13,600.0	90.00	359.91	6,150.0	6,941.8	1,818.3	7,175.4	0.00	0.00	0.00	
13,700.0	90.00	359.91	6,150.0	7,041.8	1,818.2	7,272.4	0.00	0.00	0.00	
13,800.0	90.00	359.91	6,150.0	7,141.8	1,818.0	7,369.4	0.00	0.00	0.00	
13,900.0	90.00	359.91	6,150.0	7,241.8	1,817.9	7,466.4	0.00	0.00	0.00	
13,976.5	90.00	359.91	6,150.0	7,318.3	1,817.7	7,540.6	0.00	0.00	0.00	
TD at 13976.5 - BHL 460'FNL & 1360'FEL, SEC.9										

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Project:</b>	Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (3-31-14)		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
6,920.6	6,150.0	7"	7	7-1/2	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,000.0	1,000.0	0.0	0.0	KOP - Start Build 2.00	
5,717.6	5,412.6	-450.0	1,535.0	Start DLS 8.00 TFO -105.23	
6,920.8	6,150.0	262.6	1,828.6	Start 7055.7 hold at 6920.8 MD	
13,976.5	6,150.0	7,318.3	1,817.7	TD at 13976.5	



## **Synergy Resources**

**Sec.16-T4N-R68W**

**SRC Markham Pad Sec.16-T4N-R68W**

**SRC Markham C-16-9NHZ**

**Wellbore #1**

**Plan #1 (3-31-14)**

## **Anticollision Report**

**09 April, 2014**



<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1 (3-31-14)		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.0ft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 1,000.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>	<b>Date</b> 4/7/2014			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	13,976.5	Plan #1 (3-31-14) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SRC Markham Pad Sec.16-T4N-R68W						
SRC Markham 31-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)	1,000.0	1,001.0	67.5	63.2	15.796	CC, ES
SRC Markham 31-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)	13,976.5	13,947.9	674.5	391.6	2.384	SF
SRC Markham 31-16-9NHZ - Wellbore #1 - Plan #1 (3-31-14)	1,000.0	1,001.0	44.9	40.6	10.510	CC, ES
SRC Markham 31-16-9NHZ - Wellbore #1 - Plan #1 (3-31-14)	13,976.5	13,864.6	440.0	154.1	1.539	SF
SRC Markham 41-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)	400.0	400.0	67.5	65.9	42.897	CC, ES
SRC Markham 41-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)	13,976.5	14,280.5	674.6	395.8	2.420	SF
SRC Markham 41-16-9NHZ - Wellbore #1 - Plan #1 (3-31-14)	200.0	200.0	90.1	89.4	133.591	CC, ES
SRC Markham 41-16-9NHZ - Wellbore #1 - Plan #1 (3-31-14)	13,976.5	14,217.4	879.6	593.0	3.069	SF
SRC Markham C-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)	1,000.0	1,000.0	22.6	18.3	5.290	CC
SRC Markham C-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)	13,976.5	14,050.0	260.8	5.5	1.021	Level 2, ES, SF
SRC Markham R-16-9-CHZ - Wellbore #1 - Plan#1 (3-31-14)	800.0	800.0	22.6	19.2	6.700	CC
SRC Markham R-16-9-CHZ - Wellbore #1 - Plan#1 (3-31-14)	13,976.5	14,161.0	260.7	16.3	1.067	Level 2, ES, SF
SRC Markham R-16-9NHZ - Wellbore #1 - Plan #1 (3-31-14)	600.0	600.0	44.9	42.4	18.161	CC, ES
SRC Markham R-16-9NHZ - Wellbore #1 - Plan #1 (3-31-14)	13,976.5	14,092.5	440.0	153.6	1.536	SF

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-MWVD														Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor					
							+N/-S (ft)	+E/-W (ft)									
0.0	0.0	1.0	1.0	0.0	0.0	-90.62	-0.7	-67.5	67.5	67.5	0.00	N/A					
100.0	100.0	101.0	101.0	0.1	0.1	-90.62	-0.7	-67.5	67.5	67.3	0.23	297.304					
200.0	200.0	201.0	201.0	0.3	0.3	-90.62	-0.7	-67.5	67.5	66.8	0.68	99.760					
300.0	300.0	301.0	301.0	0.6	0.6	-90.62	-0.7	-67.5	67.5	66.4	1.13	59.935					
400.0	400.0	401.0	401.0	0.8	0.8	-90.62	-0.7	-67.5	67.5	65.9	1.58	42.835					
500.0	500.0	501.0	501.0	1.0	1.0	-90.62	-0.7	-67.5	67.5	65.5	2.03	33.327					
600.0	600.0	601.0	601.0	1.2	1.2	-90.62	-0.7	-67.5	67.5	65.0	2.47	27.273					
700.0	700.0	701.0	701.0	1.5	1.5	-90.62	-0.7	-67.5	67.5	64.6	2.92	23.080					
800.0	800.0	801.0	801.0	1.7	1.7	-90.62	-0.7	-67.5	67.5	64.1	3.37	20.005					
900.0	900.0	901.0	901.0	1.9	1.9	-90.62	-0.7	-67.5	67.5	63.7	3.82	17.653					
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	-90.62	-0.7	-67.5	67.5	63.2	4.27	15.796	CC, ES				
1,100.0	1,100.0	1,101.0	1,101.0	2.3	2.4	163.45	-0.7	-67.5	69.2	64.5	4.70	14.704					
1,200.0	1,199.8	1,200.8	1,200.8	2.5	2.6	164.58	-0.7	-67.5	74.2	69.1	5.12	14.497					
1,300.0	1,299.5	1,300.5	1,300.5	2.8	2.8	166.14	-0.7	-67.5	82.6	77.1	5.53	14.934					

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

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	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		
1,400.0	1,398.7	1,399.7	1,399.7	3.0	3.0	167.86	-0.7	-67.5	94.5	88.6	5.95	15.892		
1,500.0	1,497.5	1,498.5	1,498.5	3.3	3.3	169.52	-0.7	-67.5	109.9	103.5	6.36	17.274		
1,600.0	1,595.6	1,596.6	1,596.6	3.6	3.5	171.01	-0.7	-67.5	128.7	121.9	6.77	19.007		
1,700.0	1,693.1	1,699.0	1,699.0	3.9	3.7	172.17	-1.4	-65.9	149.4	142.2	7.16	20.850		
1,800.0	1,789.6	1,802.4	1,802.3	4.4	3.9	172.87	-3.7	-61.0	170.1	162.6	7.54	22.561		
1,900.0	1,885.3	1,906.6	1,906.0	4.9	4.1	173.26	-7.4	-52.5	190.8	182.9	7.93	24.077		
2,000.0	1,979.8	2,011.6	2,010.2	5.4	4.3	173.42	-12.8	-40.6	211.5	203.2	8.32	25.407		
2,100.0	2,073.2	2,117.4	2,114.6	6.1	4.6	173.42	-19.8	-25.0	232.0	223.3	8.74	26.557		
2,200.0	2,165.5	2,224.2	2,219.3	6.8	4.9	173.29	-28.5	-5.7	251.7	242.4	9.23	27.267		
2,300.0	2,257.9	2,332.4	2,324.4	7.5	5.3	172.99	-38.8	17.5	267.9	258.1	9.78	27.393		
2,400.0	2,350.2	2,441.7	2,429.6	8.3	5.7	172.50	-51.0	44.5	280.4	270.1	10.36	27.064		
2,500.0	2,442.5	2,545.4	2,528.6	9.0	6.2	171.91	-63.8	73.0	290.0	279.0	10.96	26.456		
2,600.0	2,534.8	2,645.0	2,623.4	9.8	6.7	171.36	-76.2	100.7	299.3	287.7	11.58	25.842		
2,700.0	2,627.1	2,744.5	2,718.2	10.6	7.2	170.84	-88.6	128.3	308.6	296.4	12.22	25.253		
2,800.0	2,719.4	2,844.0	2,813.0	11.4	7.7	170.36	-101.0	156.0	318.0	305.1	12.88	24.688		
2,900.0	2,811.7	2,943.5	2,907.8	12.2	8.3	169.90	-113.4	183.6	327.4	313.8	13.55	24.150		
3,000.0	2,904.0	3,043.1	3,002.6	13.0	8.9	169.47	-125.8	211.3	336.7	322.5	14.25	23.639		
3,100.0	2,996.3	3,142.6	3,097.4	13.8	9.4	169.06	-138.2	238.9	346.2	331.2	14.95	23.154		
3,200.0	3,088.6	3,242.1	3,192.2	14.6	10.0	168.67	-150.6	266.6	355.6	339.9	15.67	22.695		
3,300.0	3,180.9	3,341.6	3,287.0	15.4	10.6	168.30	-163.0	294.2	365.0	348.6	16.40	22.261		
3,400.0	3,273.3	3,441.2	3,381.8	16.2	11.2	167.95	-175.4	321.9	374.5	357.3	17.14	21.850		
3,500.0	3,365.6	3,540.7	3,476.6	17.1	11.8	167.62	-187.8	349.5	383.9	366.0	17.89	21.462		
3,600.0	3,457.9	3,640.2	3,571.4	17.9	12.4	167.31	-200.2	377.2	393.4	374.8	18.65	21.096		
3,700.0	3,550.2	3,739.8	3,666.2	18.7	13.1	167.01	-212.7	404.8	402.9	383.5	19.42	20.749		
3,800.0	3,642.5	3,839.3	3,761.0	19.5	13.7	166.72	-225.1	432.5	412.4	392.2	20.19	20.421		
3,900.0	3,734.8	3,938.8	3,855.8	20.3	14.3	166.45	-237.5	460.1	421.9	400.9	20.98	20.111		
4,000.0	3,827.1	4,038.3	3,950.6	21.2	14.9	166.18	-249.9	487.8	431.4	409.7	21.77	19.817		
4,100.0	3,919.4	4,137.9	4,045.4	22.0	15.5	165.93	-262.3	515.4	441.0	418.4	22.57	19.539		
4,200.0	4,011.7	4,237.4	4,140.2	22.8	16.2	165.69	-274.7	543.0	450.5	427.1	23.37	19.275		
4,300.0	4,104.0	4,336.9	4,235.0	23.6	16.8	165.46	-287.1	570.7	460.0	435.9	24.18	19.024		
4,400.0	4,196.4	4,436.4	4,329.8	24.5	17.4	165.24	-299.5	598.3	469.6	444.6	25.00	18.786		
4,500.0	4,288.7	4,536.0	4,424.6	25.3	18.1	165.03	-311.9	626.0	479.1	453.3	25.82	18.560		
4,600.0	4,381.0	4,635.5	4,519.4	26.1	18.7	164.83	-324.3	653.6	488.7	462.1	26.64	18.345		
4,700.0	4,473.3	4,735.0	4,614.2	26.9	19.3	164.63	-336.7	681.3	498.3	470.8	27.47	18.140		
4,800.0	4,565.6	4,834.6	4,709.0	27.8	20.0	164.44	-349.1	708.9	507.9	479.6	28.30	17.944		
4,900.0	4,657.9	4,934.1	4,803.8	28.6	20.6	164.26	-361.5	736.6	517.4	488.3	29.14	17.758		
5,000.0	4,750.2	5,033.6	4,898.6	29.4	21.2	164.09	-373.9	764.2	527.0	497.0	29.98	17.580		
5,100.0	4,842.5	5,133.1	4,993.4	30.3	21.9	163.92	-386.3	791.9	536.6	505.8	30.82	17.410		
5,200.0	4,934.8	5,232.7	5,088.2	31.1	22.5	163.76	-398.7	819.5	546.2	514.5	31.67	17.248		
5,300.0	5,027.1	5,332.2	5,183.0	31.9	23.2	163.60	-411.1	847.2	555.8	523.3	32.52	17.093		
5,400.0	5,119.5	5,431.7	5,277.8	32.7	23.8	163.45	-423.6	874.8	565.4	532.0	33.37	16.944		
5,500.0	5,211.8	5,531.2	5,372.6	33.6	24.5	163.30	-436.0	902.5	575.0	540.8	34.22	16.801		
5,600.0	5,304.1	5,630.8	5,467.4	34.4	25.1	163.16	-448.4	930.1	584.6	549.5	35.08	16.664		
5,700.0	5,396.4	5,731.0	5,563.1	35.2	25.7	163.18	-459.2	958.0	594.2	558.4	35.84	16.580		
5,800.0	5,489.0	5,831.2	5,659.1	36.0	26.1	-179.35	-457.9	986.0	603.7	567.9	35.82	16.853		
5,900.0	5,581.5	5,930.3	5,753.1	36.6	26.5	-158.78	-442.9	1,013.4	613.4	577.8	35.60	17.228		
6,000.0	5,672.2	6,028.5	5,843.4	37.1	26.8	-142.17	-414.8	1,039.6	622.9	587.5	35.36	17.616		
6,100.0	5,759.2	6,125.7	5,928.3	37.6	27.0	-130.10	-374.6	1,064.3	632.1	596.9	35.18	17.968		
6,200.0	5,840.8	6,222.2	6,006.7	37.9	27.1	-121.51	-323.3	1,087.1	640.8	605.6	35.13	18.241		
6,300.0	5,915.5	6,317.9	6,077.2	38.3	27.2	-115.33	-262.0	1,107.5	648.8	613.5	35.25	18.406		
6,400.0	5,981.9	6,413.0	6,138.9	38.5	27.3	-110.81	-191.9	1,125.4	655.9	620.4	35.56	18.445		
6,500.0	6,038.6	6,507.6	6,190.8	38.7	27.3	-107.49	-114.4	1,140.4	662.1	626.0	36.07	18.355		

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

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
6,600.0	6,084.5	6,601.8	6,232.4	38.8	27.3	-105.08	-30.8	1,152.4	667.1	630.3	36.78	18.138	
6,700.0	6,118.7	6,695.7	6,263.0	38.9	27.4	-103.40	57.4	1,161.2	670.8	633.1	37.69	17.800	
6,800.0	6,140.6	6,789.2	6,282.2	39.0	27.4	-102.37	148.8	1,166.7	673.2	634.4	38.79	17.355	
6,900.0	6,149.7	6,882.6	6,289.9	39.1	27.5	-101.92	241.8	1,168.7	674.3	634.2	40.08	16.824	
7,000.0	6,150.0	6,981.6	6,290.0	39.1	27.6	-101.90	340.7	1,168.6	674.3	632.9	41.44	16.273	
7,100.0	6,150.0	7,081.6	6,290.0	39.3	27.9	-101.90	440.7	1,168.5	674.3	631.1	43.17	15.621	
7,200.0	6,150.0	7,181.6	6,290.0	39.5	28.3	-101.90	540.7	1,168.3	674.3	629.2	45.14	14.937	
7,300.0	6,150.0	7,281.6	6,290.0	39.8	28.9	-101.90	640.7	1,168.2	674.3	627.0	47.34	14.245	
7,400.0	6,150.0	7,381.6	6,290.0	40.1	29.6	-101.90	740.7	1,168.0	674.3	624.6	49.72	13.562	
7,500.0	6,150.0	7,481.6	6,290.0	40.6	30.5	-101.90	840.7	1,167.8	674.3	622.1	52.27	12.901	
7,600.0	6,150.0	7,581.6	6,290.0	41.1	31.5	-101.90	940.7	1,167.7	674.3	619.4	54.96	12.270	
7,700.0	6,150.0	7,681.6	6,290.0	41.7	32.6	-101.90	1,040.7	1,167.5	674.3	616.6	57.77	11.673	
7,800.0	6,150.0	7,781.6	6,290.0	42.4	33.8	-101.90	1,140.7	1,167.4	674.3	613.7	60.68	11.113	
7,900.0	6,150.0	7,881.6	6,290.0	43.2	35.2	-101.90	1,240.7	1,167.2	674.3	610.7	63.69	10.588	
8,000.0	6,150.0	7,981.6	6,290.0	44.1	36.5	-101.90	1,340.7	1,167.1	674.3	607.6	66.77	10.100	
8,100.0	6,150.0	8,081.6	6,290.0	45.1	38.0	-101.90	1,440.7	1,166.9	674.3	604.4	69.92	9.645	
8,200.0	6,150.0	8,181.6	6,290.0	46.1	39.4	-101.90	1,540.7	1,166.7	674.3	601.2	73.12	9.222	
8,300.0	6,150.0	8,281.6	6,290.0	47.3	41.0	-101.90	1,640.7	1,166.6	674.4	598.0	76.38	8.828	
8,400.0	6,150.0	8,381.6	6,290.0	48.5	42.5	-101.90	1,740.7	1,166.4	674.4	594.7	79.69	8.462	
8,500.0	6,150.0	8,481.6	6,290.0	49.7	44.1	-101.90	1,840.7	1,166.3	674.4	591.3	83.03	8.122	
8,600.0	6,150.0	8,581.6	6,290.0	51.1	45.7	-101.90	1,940.7	1,166.1	674.4	588.0	86.41	7.804	
8,700.0	6,150.0	8,681.6	6,290.0	52.4	47.4	-101.90	2,040.7	1,166.0	674.4	584.5	89.82	7.508	
8,800.0	6,150.0	8,781.6	6,290.0	53.8	49.1	-101.89	2,140.7	1,165.8	674.4	581.1	93.26	7.231	
8,900.0	6,150.0	8,881.6	6,290.0	55.3	50.7	-101.89	2,240.7	1,165.6	674.4	577.6	96.72	6.972	
9,000.0	6,150.0	8,981.6	6,290.0	56.8	52.4	-101.89	2,340.7	1,165.5	674.4	574.2	100.21	6.730	
9,100.0	6,150.0	9,081.6	6,290.0	58.3	54.2	-101.89	2,440.7	1,165.3	674.4	570.7	103.71	6.502	
9,200.0	6,150.0	9,181.6	6,290.0	59.9	55.9	-101.89	2,540.7	1,165.2	674.4	567.1	107.24	6.289	
9,300.0	6,150.0	9,281.6	6,290.0	61.4	57.6	-101.89	2,640.7	1,165.0	674.4	563.6	110.78	6.088	
9,400.0	6,150.0	9,381.6	6,290.0	63.1	59.4	-101.89	2,740.7	1,164.9	674.4	560.1	114.33	5.899	
9,500.0	6,150.0	9,481.6	6,290.0	64.7	61.1	-101.89	2,840.7	1,164.7	674.4	556.5	117.90	5.720	
9,600.0	6,150.0	9,581.6	6,290.0	66.3	62.9	-101.89	2,940.7	1,164.5	674.4	552.9	121.48	5.552	
9,700.0	6,150.0	9,681.6	6,290.0	68.0	64.7	-101.89	3,040.7	1,164.4	674.4	549.3	125.07	5.392	
9,800.0	6,150.0	9,781.6	6,290.0	69.7	66.5	-101.89	3,140.7	1,164.2	674.4	545.7	128.67	5.241	
9,900.0	6,150.0	9,881.6	6,290.0	71.3	68.3	-101.89	3,240.7	1,164.1	674.4	542.1	132.28	5.098	
10,000.0	6,150.0	9,981.6	6,290.0	73.1	70.1	-101.89	3,340.7	1,163.9	674.4	538.5	135.90	4.962	
10,100.0	6,150.0	10,081.6	6,290.0	74.8	71.9	-101.89	3,440.7	1,163.8	674.4	534.9	139.53	4.833	
10,200.0	6,150.0	10,181.6	6,290.0	76.5	73.7	-101.89	3,540.7	1,163.6	674.4	531.3	143.17	4.711	
10,300.0	6,150.0	10,281.6	6,290.0	78.2	75.5	-101.89	3,640.7	1,163.4	674.4	527.6	146.81	4.594	
10,400.0	6,150.0	10,381.6	6,290.0	80.0	77.4	-101.89	3,740.7	1,163.3	674.4	524.0	150.46	4.482	
10,500.0	6,150.0	10,481.6	6,290.0	81.7	79.2	-101.89	3,840.7	1,163.1	674.4	520.3	154.11	4.376	
10,600.0	6,150.0	10,581.6	6,290.0	83.5	81.0	-101.89	3,940.7	1,163.0	674.4	516.7	157.77	4.275	
10,700.0	6,150.0	10,681.6	6,290.0	85.3	82.9	-101.89	4,040.7	1,162.8	674.4	513.0	161.44	4.178	
10,800.0	6,150.0	10,781.6	6,290.0	87.0	84.7	-101.89	4,140.7	1,162.7	674.4	509.3	165.11	4.085	
10,900.0	6,150.0	10,881.6	6,290.0	88.8	86.5	-101.89	4,240.7	1,162.5	674.4	505.7	168.78	3.996	
11,000.0	6,150.0	10,981.6	6,290.0	90.6	88.4	-101.89	4,340.7	1,162.3	674.4	502.0	172.46	3.911	
11,100.0	6,150.0	11,081.6	6,290.0	92.4	90.2	-101.89	4,440.7	1,162.2	674.4	498.3	176.14	3.829	
11,200.0	6,150.0	11,181.6	6,290.0	94.2	92.1	-101.89	4,540.7	1,162.0	674.5	494.6	179.83	3.751	
11,300.0	6,150.0	11,281.6	6,290.0	96.0	93.9	-101.89	4,640.7	1,161.9	674.5	490.9	183.52	3.675	
11,400.0	6,150.0	11,381.6	6,290.0	97.8	95.8	-101.89	4,740.7	1,161.7	674.5	487.2	187.21	3.603	
11,500.0	6,150.0	11,481.6	6,290.0	99.6	97.7	-101.89	4,840.7	1,161.6	674.5	483.6	190.91	3.533	
11,600.0	6,150.0	11,581.6	6,290.0	101.5	99.5	-101.89	4,940.7	1,161.4	674.5	479.9	194.61	3.466	
11,700.0	6,150.0	11,681.6	6,290.0	103.3	101.4	-101.89	5,040.7	1,161.2	674.5	476.2	198.31	3.401	

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

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	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	
11,800.0	6,150.0	11,781.6	6,290.0	105.1	103.3	-101.89	5,140.7	1,161.1	674.5	472.5	202.01	3.339	
11,900.0	6,150.0	11,881.6	6,290.0	106.9	105.1	-101.89	5,240.7	1,160.9	674.5	468.8	205.72	3.279	
12,000.0	6,150.0	11,981.6	6,290.0	108.8	107.0	-101.89	5,340.7	1,160.8	674.5	465.1	209.43	3.221	
12,100.0	6,150.0	12,081.6	6,290.0	110.6	108.9	-101.89	5,440.7	1,160.6	674.5	461.3	213.14	3.165	
12,200.0	6,150.0	12,181.6	6,290.0	112.4	110.7	-101.89	5,540.7	1,160.5	674.5	457.6	216.85	3.110	
12,300.0	6,150.0	12,281.6	6,290.0	114.3	112.6	-101.89	5,640.7	1,160.3	674.5	453.9	220.57	3.058	
12,400.0	6,150.0	12,381.6	6,290.0	116.1	114.5	-101.89	5,740.7	1,160.1	674.5	450.2	224.28	3.007	
12,500.0	6,150.0	12,481.6	6,290.0	118.0	116.4	-101.89	5,840.7	1,160.0	674.5	446.5	228.00	2.958	
12,600.0	6,150.0	12,581.6	6,290.0	119.8	118.2	-101.89	5,940.7	1,159.8	674.5	442.8	231.72	2.911	
12,700.0	6,150.0	12,681.6	6,290.0	121.7	120.1	-101.89	6,040.7	1,159.7	674.5	439.1	235.45	2.865	
12,800.0	6,150.0	12,781.6	6,290.0	123.5	122.0	-101.89	6,140.7	1,159.5	674.5	435.3	239.17	2.820	
12,900.0	6,150.0	12,881.6	6,290.0	125.4	123.9	-101.89	6,240.7	1,159.4	674.5	431.6	242.90	2.777	
13,000.0	6,150.0	12,981.6	6,290.0	127.2	125.8	-101.89	6,340.7	1,159.2	674.5	427.9	246.62	2.735	
13,100.0	6,150.0	13,081.6	6,290.0	129.1	127.7	-101.89	6,440.7	1,159.0	674.5	424.2	250.35	2.694	
13,200.0	6,150.0	13,181.6	6,290.0	131.0	129.6	-101.89	6,540.7	1,158.9	674.5	420.4	254.08	2.655	
13,300.0	6,150.0	13,281.6	6,290.0	132.8	131.4	-101.89	6,640.7	1,158.7	674.5	416.7	257.81	2.616	
13,400.0	6,150.0	13,381.6	6,290.0	134.7	133.3	-101.89	6,740.7	1,158.6	674.5	413.0	261.54	2.579	
13,500.0	6,150.0	13,481.6	6,290.0	136.5	135.2	-101.89	6,840.7	1,158.4	674.5	409.3	265.27	2.543	
13,600.0	6,150.0	13,581.6	6,290.0	138.4	137.1	-101.89	6,940.7	1,158.3	674.5	405.5	269.01	2.507	
13,700.0	6,150.0	13,681.6	6,290.0	140.3	139.0	-101.89	7,040.7	1,158.1	674.5	401.8	272.74	2.473	
13,800.0	6,150.0	13,781.6	6,290.0	142.2	140.9	-101.89	7,140.7	1,157.9	674.5	398.1	276.48	2.440	
13,900.0	6,150.0	13,881.6	6,290.0	144.0	142.8	-101.89	7,240.7	1,157.8	674.5	394.3	280.22	2.407	
13,957.9	6,150.0	13,941.2	6,290.0	145.1	143.9	-101.89	7,300.3	1,157.8	674.4	392.0	282.41	2.388	
13,976.5	6,150.0	13,947.9	6,290.0	145.5	144.0	-101.89	7,307.0	1,157.8	674.5	391.6	282.88	2.384 SF	

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SRC Markham Pad Sec.16-T4N-R68W - SRC Markham 31-16-9NHZ - 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		
0.0	0.0	1.0	1.0	0.0	0.0	-90.95	-0.7	-44.9	44.9	44.9	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	-90.95	-0.7	-44.9	44.9	44.7	0.23	197.808		
200.0	200.0	201.0	201.0	0.3	0.3	-90.95	-0.7	-44.9	44.9	44.2	0.68	66.374		
300.0	300.0	301.0	301.0	0.6	0.6	-90.95	-0.7	-44.9	44.9	43.8	1.13	39.878		
400.0	400.0	401.0	401.0	0.8	0.8	-90.95	-0.7	-44.9	44.9	43.3	1.58	28.500		
500.0	500.0	501.0	501.0	1.0	1.0	-90.95	-0.7	-44.9	44.9	42.9	2.03	22.174		
600.0	600.0	601.0	601.0	1.2	1.2	-90.95	-0.7	-44.9	44.9	42.4	2.47	18.146		
700.0	700.0	701.0	701.0	1.5	1.5	-90.95	-0.7	-44.9	44.9	42.0	2.92	15.356		
800.0	800.0	801.0	801.0	1.7	1.7	-90.95	-0.7	-44.9	44.9	41.5	3.37	13.310		
900.0	900.0	901.0	901.0	1.9	1.9	-90.95	-0.7	-44.9	44.9	41.1	3.82	11.745		
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	-90.95	-0.7	-44.9	44.9	40.6	4.27	10.510 CC, ES		
1,100.0	1,100.0	1,101.0	1,101.0	2.3	2.4	163.34	-0.7	-44.9	46.6	41.9	4.70	9.902		
1,200.0	1,199.8	1,200.8	1,200.8	2.5	2.6	164.98	-0.7	-44.9	51.6	46.5	5.12	10.084		
1,300.0	1,299.5	1,300.5	1,300.5	2.8	2.8	167.10	-0.7	-44.9	60.1	54.5	5.53	10.858		
1,400.0	1,398.7	1,399.7	1,399.7	3.0	3.0	169.22	-0.7	-44.9	72.0	66.1	5.95	12.109		
1,500.0	1,497.5	1,501.4	1,501.4	3.3	3.2	170.86	-1.4	-43.2	85.7	79.4	6.34	13.519		
1,600.0	1,595.6	1,603.7	1,603.5	3.6	3.4	171.87	-3.3	-38.1	99.5	92.8	6.72	14.808		
1,700.0	1,693.1	1,706.5	1,705.9	3.9	3.7	172.48	-6.6	-29.6	113.2	106.1	7.10	15.941		
1,800.0	1,789.6	1,809.8	1,808.4	4.4	3.9	172.82	-11.2	-17.6	126.9	119.4	7.50	16.929		
1,900.0	1,885.3	1,913.6	1,910.8	4.9	4.2	172.96	-17.2	-2.0	140.6	132.6	7.90	17.781		
2,000.0	1,979.8	2,017.9	2,013.1	5.4	4.5	172.95	-24.5	17.1	154.1	145.8	8.33	18.503		
2,100.0	2,073.2	2,122.8	2,115.1	6.1	4.8	172.83	-33.3	39.8	167.5	158.7	8.77	19.098		
2,200.0	2,165.5	2,228.3	2,216.8	6.8	5.3	172.61	-43.4	66.1	180.0	170.7	9.30	19.351		
2,300.0	2,257.9	2,334.5	2,318.0	7.5	5.8	172.18	-54.9	96.1	189.0	179.1	9.88	19.131		
2,400.0	2,350.2	2,438.3	2,415.8	8.3	6.3	171.59	-67.3	128.5	194.8	184.3	10.50	18.558		
2,500.0	2,442.5	2,538.1	2,509.7	9.0	6.9	171.01	-79.5	160.2	200.0	188.9	11.13	17.968		
2,600.0	2,534.8	2,637.9	2,603.6	9.8	7.5	170.46	-91.7	192.0	205.3	193.5	11.79	17.411		
2,700.0	2,627.1	2,737.8	2,697.4	10.6	8.2	169.93	-103.9	223.7	210.5	198.1	12.47	16.886		
2,800.0	2,719.4	2,837.6	2,791.3	11.4	8.8	169.43	-116.0	255.4	215.8	202.6	13.16	16.393		
2,900.0	2,811.7	2,937.5	2,885.2	12.2	9.5	168.96	-128.2	287.1	221.1	207.2	13.88	15.930		
3,000.0	2,904.0	3,037.3	2,979.1	13.0	10.1	168.51	-140.4	318.8	226.4	211.8	14.61	15.496		
3,100.0	2,996.3	3,137.2	3,073.0	13.8	10.8	168.08	-152.6	350.5	231.7	216.4	15.36	15.090		
3,200.0	3,088.6	3,237.0	3,166.9	14.6	11.5	167.67	-164.8	382.2	237.1	220.9	16.12	14.710		
3,300.0	3,180.9	3,336.8	3,260.8	15.4	12.2	167.27	-176.9	413.9	242.4	225.5	16.89	14.354		
3,400.0	3,273.3	3,436.7	3,354.7	16.2	12.9	166.90	-189.1	445.6	247.8	230.1	17.67	14.020		
3,500.0	3,365.6	3,536.5	3,448.5	17.1	13.6	166.53	-201.3	477.4	253.1	234.7	18.47	13.706		
3,600.0	3,457.9	3,636.4	3,542.4	17.9	14.3	166.19	-213.5	509.1	258.5	239.2	19.27	13.412		
3,700.0	3,550.2	3,736.2	3,636.3	18.7	15.0	165.86	-225.6	540.8	263.9	243.8	20.09	13.136		
3,800.0	3,642.5	3,836.1	3,730.2	19.5	15.7	165.54	-237.8	572.5	269.3	248.4	20.91	12.876		
3,900.0	3,734.8	3,935.9	3,824.1	20.3	16.4	165.23	-250.0	604.2	274.7	252.9	21.75	12.631		
4,000.0	3,827.1	4,035.7	3,918.0	21.2	17.1	164.94	-262.2	635.9	280.1	257.5	22.59	12.400		
4,100.0	3,919.4	4,135.6	4,011.9	22.0	17.8	164.66	-274.3	667.6	285.5	262.1	23.44	12.182		
4,200.0	4,011.7	4,235.4	4,105.8	22.8	18.5	164.38	-286.5	699.3	290.9	266.7	24.29	11.977		
4,300.0	4,104.0	4,335.3	4,199.6	23.6	19.2	164.12	-298.7	731.0	296.4	271.2	25.15	11.782		
4,400.0	4,196.4	4,435.1	4,293.5	24.5	20.0	163.87	-310.9	762.8	301.8	275.8	26.02	11.598		
4,500.0	4,288.7	4,535.0	4,387.4	25.3	20.7	163.62	-323.1	794.5	307.3	280.4	26.90	11.423		
4,600.0	4,381.0	4,634.8	4,481.3	26.1	21.4	163.39	-335.2	826.2	312.7	284.9	27.78	11.258		
4,700.0	4,473.3	4,734.6	4,575.2	26.9	22.1	163.16	-347.4	857.9	318.2	289.5	28.66	11.100		
4,800.0	4,565.6	4,834.5	4,669.1	27.8	22.8	162.94	-359.6	889.6	323.6	294.1	29.55	10.951		
4,900.0	4,657.9	4,934.3	4,763.0	28.6	23.6	162.73	-371.8	921.3	329.1	298.6	30.45	10.809		
5,000.0	4,750.2	5,034.2	4,856.9	29.4	24.3	162.52	-383.9	953.0	334.5	303.2	31.34	10.673		
5,100.0	4,842.5	5,134.0	4,950.7	30.3	25.0	162.33	-396.1	984.7	340.0	307.8	32.25	10.544		

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

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,200.0	4,934.8	5,233.9	5,044.6	31.1	25.7	162.13	-408.3	1,016.4	345.5	312.3	33.15	10.420	
5,300.0	5,027.1	5,333.7	5,138.5	31.9	26.4	161.95	-420.5	1,048.1	351.0	316.9	34.06	10.303	
5,400.0	5,119.5	5,433.6	5,232.4	32.7	27.2	161.77	-432.6	1,079.9	356.4	321.5	34.98	10.190	
5,500.0	5,211.8	5,533.4	5,326.3	33.6	27.9	161.59	-444.8	1,111.6	361.9	326.0	35.90	10.082	
5,600.0	5,304.1	5,634.1	5,421.1	34.4	28.6	161.55	-456.3	1,143.6	367.4	330.6	36.74	9.999	
5,700.0	5,396.4	5,735.4	5,517.0	35.2	29.1	163.23	-456.6	1,176.0	372.4	335.8	36.63	10.167	
5,800.0	5,489.0	5,833.1	5,608.6	36.0	29.6	-177.36	-443.4	1,206.9	378.0	342.3	35.68	10.592	
5,900.0	5,581.5	5,928.2	5,695.4	36.6	30.0	-155.03	-417.9	1,236.1	384.5	349.6	34.89	11.020	
6,000.0	5,672.2	6,021.1	5,776.4	37.1	30.3	-136.81	-381.6	1,263.4	391.7	357.2	34.45	11.371	
6,100.0	5,759.2	6,112.1	5,850.7	37.6	30.5	-123.30	-335.7	1,288.4	399.3	364.9	34.37	11.616	
6,200.0	5,840.8	6,200.0	5,916.8	37.9	30.6	-113.49	-282.2	1,310.6	406.9	372.4	34.59	11.766	
6,300.0	5,915.5	6,289.2	5,976.9	38.3	30.8	-106.21	-219.5	1,330.8	414.4	379.4	34.97	11.848	
6,400.0	5,981.9	6,375.9	6,027.9	38.5	30.8	-100.80	-151.6	1,347.9	421.2	385.8	35.42	11.892	
6,500.0	6,038.6	6,461.5	6,070.2	38.7	30.9	-96.75	-78.6	1,362.1	427.3	391.5	35.89	11.907	
6,600.0	6,084.5	6,550.0	6,105.0	38.8	31.0	-93.75	1.9	1,373.7	432.4	396.0	36.40	11.879	
6,700.0	6,118.7	6,630.5	6,128.3	38.9	31.0	-91.72	78.5	1,381.5	436.3	399.3	36.98	11.799	
6,800.0	6,140.6	6,714.3	6,143.7	39.0	31.1	-90.44	160.7	1,386.5	438.9	401.1	37.72	11.635	
6,900.0	6,149.7	6,800.0	6,149.9	39.1	31.1	-89.89	246.1	1,388.5	440.0	401.3	38.71	11.368	
6,907.5	6,149.9	6,804.1	6,150.0	39.1	31.1	-89.88	250.2	1,388.5	440.1	401.3	38.78	11.348	
7,000.0	6,150.0	6,895.0	6,150.0	39.1	31.2	-89.87	341.1	1,388.4	440.1	400.3	39.77	11.066	
7,100.0	6,150.0	6,995.0	6,150.0	39.3	31.4	-89.87	441.1	1,388.2	440.1	398.6	41.43	10.621	
7,200.0	6,150.0	7,095.0	6,150.0	39.5	31.8	-89.87	541.1	1,388.1	440.1	396.7	43.38	10.144	
7,300.0	6,150.0	7,195.0	6,150.0	39.8	32.2	-89.87	641.1	1,387.9	440.1	394.5	45.57	9.656	
7,400.0	6,150.0	7,295.0	6,150.0	40.1	32.7	-89.87	741.1	1,387.8	440.1	392.1	47.97	9.173	
7,500.0	6,150.0	7,395.0	6,150.0	40.6	33.4	-89.87	841.1	1,387.6	440.1	389.5	50.55	8.705	
7,600.0	6,150.0	7,495.0	6,150.0	41.1	34.2	-89.87	941.1	1,387.5	440.1	386.8	53.28	8.259	
7,700.0	6,150.0	7,595.0	6,150.0	41.7	35.1	-89.87	1,041.1	1,387.3	440.1	383.9	56.14	7.838	
7,800.0	6,150.0	7,695.0	6,150.0	42.4	36.2	-89.87	1,141.1	1,387.2	440.1	380.9	59.11	7.444	
7,900.0	6,150.0	7,795.0	6,150.0	43.2	37.3	-89.87	1,241.1	1,387.0	440.1	377.9	62.18	7.077	
8,000.0	6,150.0	7,895.0	6,150.0	44.1	38.5	-89.87	1,341.1	1,386.9	440.1	374.7	65.33	6.736	
8,100.0	6,150.0	7,995.0	6,150.0	45.1	39.8	-89.87	1,441.1	1,386.7	440.1	371.5	68.55	6.420	
8,200.0	6,150.0	8,095.0	6,150.0	46.1	41.1	-89.87	1,541.1	1,386.6	440.0	368.2	71.83	6.127	
8,300.0	6,150.0	8,195.0	6,150.0	47.3	42.6	-89.87	1,641.1	1,386.4	440.0	364.9	75.16	5.855	
8,400.0	6,150.0	8,295.0	6,150.0	48.5	44.0	-89.87	1,741.1	1,386.3	440.0	361.5	78.54	5.603	
8,500.0	6,150.0	8,395.0	6,150.0	49.7	45.5	-89.87	1,841.1	1,386.1	440.0	358.1	81.96	5.369	
8,600.0	6,150.0	8,495.0	6,150.0	51.1	47.1	-89.87	1,941.1	1,386.0	440.0	354.6	85.42	5.152	
8,700.0	6,150.0	8,595.0	6,150.0	52.4	48.6	-89.87	2,041.1	1,385.8	440.0	351.1	88.90	4.950	
8,800.0	6,150.0	8,695.0	6,150.0	53.8	50.2	-89.87	2,141.1	1,385.6	440.0	347.6	92.42	4.761	
8,900.0	6,150.0	8,795.0	6,150.0	55.3	51.9	-89.87	2,241.1	1,385.5	440.0	344.1	95.96	4.586	
9,000.0	6,150.0	8,895.0	6,150.0	56.8	53.5	-89.87	2,341.1	1,385.3	440.0	340.5	99.52	4.422	
9,100.0	6,150.0	8,995.0	6,150.0	58.3	55.2	-89.87	2,441.1	1,385.2	440.0	336.9	103.10	4.268	
9,200.0	6,150.0	9,095.0	6,150.0	59.9	56.9	-89.87	2,541.1	1,385.0	440.0	333.3	106.71	4.124	
9,300.0	6,150.0	9,195.0	6,150.0	61.4	58.6	-89.87	2,641.1	1,384.9	440.0	329.7	110.32	3.989	
9,400.0	6,150.0	9,295.0	6,150.0	63.1	60.3	-89.87	2,741.1	1,384.7	440.0	326.1	113.95	3.861	
9,500.0	6,150.0	9,395.0	6,150.0	64.7	62.0	-89.87	2,841.1	1,384.6	440.0	322.4	117.60	3.742	
9,600.0	6,150.0	9,495.0	6,150.0	66.3	63.7	-89.87	2,941.1	1,384.4	440.0	318.8	121.26	3.629	
9,700.0	6,150.0	9,595.0	6,150.0	68.0	65.5	-89.87	3,041.1	1,384.3	440.0	315.1	124.92	3.522	
9,800.0	6,150.0	9,695.0	6,150.0	69.7	67.2	-89.87	3,141.1	1,384.1	440.0	311.4	128.60	3.422	
9,900.0	6,150.0	9,795.0	6,150.0	71.3	69.0	-89.87	3,241.1	1,384.0	440.0	307.7	132.29	3.326	
10,000.0	6,150.0	9,895.0	6,150.0	73.1	70.8	-89.87	3,341.1	1,383.8	440.0	304.0	135.99	3.236	
10,100.0	6,150.0	9,995.0	6,150.0	74.8	72.6	-89.87	3,441.1	1,383.7	440.0	300.3	139.69	3.150	
10,200.0	6,150.0	10,095.0	6,150.0	76.5	74.4	-89.87	3,541.1	1,383.5	440.0	296.6	143.40	3.068	

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



Offset Design      SRC Markham Pad Sec.16-T4N-R68W -   SRC Markham 31-16-9NHZ - 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							
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)			
10,300.0	6,150.0	10,195.0	6,150.0	78.2	76.2	-89.87	3,641.1	1,383.4	440.0	292.9	147.12	2.991		
10,400.0	6,150.0	10,295.0	6,150.0	80.0	78.0	-89.87	3,741.1	1,383.2	440.0	289.2	150.84	2.917		
10,500.0	6,150.0	10,395.0	6,150.0	81.7	79.8	-89.87	3,841.1	1,383.1	440.0	285.4	154.57	2.847		
10,600.0	6,150.0	10,495.0	6,150.0	83.5	81.6	-89.87	3,941.1	1,382.9	440.0	281.7	158.31	2.779		
10,700.0	6,150.0	10,595.0	6,150.0	85.3	83.4	-89.87	4,041.1	1,382.8	440.0	278.0	162.05	2.715		
10,800.0	6,150.0	10,695.0	6,150.0	87.0	85.2	-89.87	4,141.1	1,382.6	440.0	274.2	165.79	2.654		
10,900.0	6,150.0	10,795.0	6,150.0	88.8	87.1	-89.87	4,241.1	1,382.5	440.0	270.5	169.54	2.595		
11,000.0	6,150.0	10,895.0	6,150.0	90.6	88.9	-89.87	4,341.1	1,382.3	440.0	266.7	173.29	2.539		
11,100.0	6,150.0	10,995.0	6,150.0	92.4	90.7	-89.87	4,441.1	1,382.1	440.0	263.0	177.05	2.485		
11,200.0	6,150.0	11,095.0	6,150.0	94.2	92.6	-89.87	4,541.1	1,382.0	440.0	259.2	180.81	2.433		
11,300.0	6,150.0	11,195.0	6,150.0	96.0	94.4	-89.87	4,641.1	1,381.8	440.0	255.4	184.58	2.384		
11,400.0	6,150.0	11,295.0	6,150.0	97.8	96.2	-89.87	4,741.1	1,381.7	440.0	251.7	188.34	2.336		
11,500.0	6,150.0	11,395.0	6,150.0	99.6	98.1	-89.87	4,841.1	1,381.5	440.0	247.9	192.11	2.290		
11,600.0	6,150.0	11,495.0	6,150.0	101.5	99.9	-89.87	4,941.1	1,381.4	440.0	244.1	195.88	2.246		
11,700.0	6,150.0	11,595.0	6,150.0	103.3	101.8	-89.87	5,041.1	1,381.2	440.0	240.3	199.66	2.204		
11,800.0	6,150.0	11,695.0	6,150.0	105.1	103.7	-89.87	5,141.1	1,381.1	440.0	236.6	203.44	2.163		
11,900.0	6,150.0	11,795.0	6,150.0	106.9	105.5	-89.87	5,241.1	1,380.9	440.0	232.8	207.22	2.123		
12,000.0	6,150.0	11,895.0	6,150.0	108.8	107.4	-89.87	5,341.1	1,380.8	440.0	229.0	211.00	2.085		
12,100.0	6,150.0	11,995.0	6,150.0	110.6	109.2	-89.87	5,441.1	1,380.6	440.0	225.2	214.78	2.049		
12,200.0	6,150.0	12,095.0	6,150.0	112.4	111.1	-89.87	5,541.1	1,380.5	440.0	221.4	218.57	2.013		
12,300.0	6,150.0	12,195.0	6,150.0	114.3	113.0	-89.87	5,641.1	1,380.3	440.0	217.6	222.36	1.979		
12,400.0	6,150.0	12,295.0	6,150.0	116.1	114.8	-89.87	5,741.1	1,380.2	440.0	213.8	226.15	1.946		
12,500.0	6,150.0	12,395.0	6,150.0	118.0	116.7	-89.87	5,841.1	1,380.0	440.0	210.0	229.94	1.913		
12,600.0	6,150.0	12,495.0	6,150.0	119.8	118.6	-89.87	5,941.1	1,379.9	440.0	206.3	233.73	1.882		
12,700.0	6,150.0	12,595.0	6,150.0	121.7	120.4	-89.87	6,041.1	1,379.7	440.0	202.5	237.53	1.852		
12,800.0	6,150.0	12,695.0	6,150.0	123.5	122.3	-89.87	6,141.1	1,379.6	440.0	198.7	241.32	1.823		
12,900.0	6,150.0	12,795.0	6,150.0	125.4	124.2	-89.87	6,241.1	1,379.4	440.0	194.9	245.12	1.795		
13,000.0	6,150.0	12,895.0	6,150.0	127.2	126.1	-89.87	6,341.1	1,379.3	440.0	191.1	248.92	1.768		
13,100.0	6,150.0	12,995.0	6,150.0	129.1	128.0	-89.87	6,441.1	1,379.1	440.0	187.3	252.72	1.741		
13,200.0	6,150.0	13,095.0	6,150.0	131.0	129.8	-89.87	6,541.1	1,379.0	440.0	183.5	256.52	1.715		
13,300.0	6,150.0	13,195.0	6,150.0	132.8	131.7	-89.87	6,641.1	1,378.8	440.0	179.6	260.32	1.690		
13,400.0	6,150.0	13,295.0	6,150.0	134.7	133.6	-89.87	6,741.1	1,378.7	440.0	175.8	264.13	1.666		
13,500.0	6,150.0	13,395.0	6,150.0	136.5	135.5	-89.87	6,841.1	1,378.5	440.0	172.0	267.93	1.642		
13,600.0	6,150.0	13,495.0	6,150.0	138.4	137.4	-89.87	6,941.1	1,378.3	440.0	168.2	271.74	1.619		
13,700.0	6,150.0	13,595.0	6,150.0	140.3	139.2	-89.87	7,041.1	1,378.2	440.0	164.4	275.55	1.597		
13,800.0	6,150.0	13,695.0	6,150.0	142.2	141.1	-89.87	7,141.1	1,378.0	440.0	160.6	279.35	1.575		
13,900.0	6,150.0	13,795.0	6,150.0	144.0	143.0	-89.87	7,241.1	1,377.9	440.0	156.8	283.16	1.554		
13,953.5	6,150.0	13,848.5	6,150.0	145.0	144.0	-89.87	7,294.6	1,377.8	440.0	154.8	285.20	1.543		
13,976.5	6,150.0	13,864.6	6,150.0	145.5	144.3	-89.87	7,310.6	1,377.8	440.0	154.1	285.94	1.539 SF		

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.38	0.7	67.5	67.5					
100.0	100.0	100.0	100.0	0.1	0.1	89.38	0.7	67.5	67.5	67.3	0.22	300.277		
200.0	200.0	200.0	200.0	0.3	0.3	89.38	0.7	67.5	67.5	66.8	0.67	100.092		
300.0	300.0	300.0	300.0	0.6	0.6	89.38	0.7	67.5	67.5	66.4	1.12	60.055		
400.0	400.0	400.0	400.0	0.8	0.8	89.38	0.7	67.5	67.5	65.9	1.57	42.897 CC, ES		
500.0	500.0	497.7	497.7	1.0	1.0	89.68	0.4	69.1	69.2	67.2	2.00	34.515		
600.0	600.0	595.2	595.1	1.2	1.2	90.51	-0.7	74.0	74.2	71.7	2.43	30.482		
700.0	700.0	692.2	691.7	1.5	1.4	91.66	-2.4	82.1	82.5	79.6	2.88	28.638		
800.0	800.0	788.6	787.4	1.7	1.7	92.92	-4.8	93.2	94.2	90.8	3.35	28.083		
900.0	900.0	884.1	881.8	1.9	2.0	94.14	-7.8	107.4	109.2	105.3	3.86	28.293		
1,000.0	1,000.0	978.5	974.6	2.1	2.3	95.23	-11.4	124.4	127.5	123.1	4.40	28.949		
1,100.0	1,100.0	1,072.1	1,065.9	2.3	2.7	-10.21	-15.6	144.2	147.4	142.7	4.66	31.636		
1,200.0	1,199.8	1,165.0	1,155.9	2.5	3.1	-9.61	-20.4	166.8	167.0	161.9	5.08	32.860		
1,300.0	1,299.5	1,257.4	1,244.7	2.8	3.6	-9.21	-25.8	192.0	186.5	181.0	5.52	33.783		
1,400.0	1,398.7	1,349.3	1,332.0	3.0	4.2	-8.95	-31.7	219.9	205.7	199.8	5.97	34.455		
1,500.0	1,497.5	1,440.6	1,417.9	3.3	4.8	-8.80	-38.2	250.3	224.7	218.3	6.44	34.904		
1,600.0	1,595.6	1,531.4	1,502.3	3.6	5.4	-8.73	-45.2	283.2	243.4	236.5	6.91	35.214		
1,700.0	1,693.1	1,621.8	1,585.1	3.9	6.2	-8.72	-52.7	318.5	261.9	254.4	7.41	35.329		
1,800.0	1,789.6	1,716.4	1,670.8	4.4	7.0	-8.77	-61.0	357.7	279.5	271.6	7.94	35.186		
1,900.0	1,885.3	1,815.3	1,760.2	4.9	7.9	-8.92	-69.8	399.0	294.1	285.6	8.50	34.579		
2,000.0	1,979.8	1,914.7	1,850.1	5.4	8.8	-9.17	-78.7	440.5	305.2	296.2	9.09	33.583		
2,100.0	2,073.2	2,014.4	1,940.2	6.1	9.7	-9.51	-87.5	482.1	313.0	303.3	9.70	32.273		
2,200.0	2,165.5	2,114.2	2,030.5	6.8	10.6	-9.94	-96.4	523.7	318.1	307.8	10.37	30.670		
2,300.0	2,257.9	2,214.0	2,120.8	7.5	11.5	-10.37	-105.3	565.4	323.1	312.1	11.09	29.150		
2,400.0	2,350.2	2,313.9	2,211.1	8.3	12.4	-10.78	-114.1	607.1	328.2	316.3	11.81	27.775		
2,500.0	2,442.5	2,413.7	2,301.4	9.0	13.3	-11.18	-123.0	648.8	333.2	320.6	12.56	26.527		
2,600.0	2,534.8	2,513.6	2,391.7	9.8	14.2	-11.56	-131.9	690.4	338.2	324.9	13.32	25.393		
2,700.0	2,627.1	2,613.4	2,482.0	10.6	15.1	-11.94	-140.7	732.1	343.3	329.2	14.09	24.359		
2,800.0	2,719.4	2,713.3	2,572.3	11.4	16.1	-12.30	-149.6	773.8	348.4	333.5	14.88	23.413		
2,900.0	2,811.7	2,813.1	2,662.6	12.2	17.0	-12.66	-158.5	815.5	353.5	337.8	15.68	22.547		
3,000.0	2,904.0	2,913.0	2,752.9	13.0	17.9	-13.00	-167.3	857.1	358.6	342.1	16.49	21.750		
3,100.0	2,996.3	3,012.8	2,843.2	13.8	18.8	-13.33	-176.2	898.8	363.7	346.4	17.31	21.016		
3,200.0	3,088.6	3,112.7	2,933.5	14.6	19.8	-13.66	-185.1	940.5	368.8	350.7	18.14	20.337		
3,300.0	3,180.9	3,212.5	3,023.8	15.4	20.7	-13.98	-194.0	982.2	374.0	355.0	18.97	19.709		
3,400.0	3,273.3	3,312.4	3,114.1	16.2	21.6	-14.28	-202.8	1,023.8	379.1	359.3	19.82	19.125		
3,500.0	3,365.6	3,412.2	3,204.4	17.1	22.6	-14.58	-211.7	1,065.5	384.3	363.6	20.68	18.582		
3,600.0	3,457.9	3,512.0	3,294.7	17.9	23.5	-14.87	-220.6	1,107.2	389.5	367.9	21.55	18.076		
3,700.0	3,550.2	3,611.9	3,385.0	18.7	24.4	-15.16	-229.4	1,148.9	394.6	372.2	22.42	17.603		
3,800.0	3,642.5	3,711.7	3,475.3	19.5	25.3	-15.43	-238.3	1,190.5	399.8	376.5	23.30	17.160		
3,900.0	3,734.8	3,811.6	3,565.6	20.3	26.3	-15.70	-247.2	1,232.2	405.0	380.8	24.19	16.744		
4,000.0	3,827.1	3,911.4	3,655.9	21.2	27.2	-15.96	-256.1	1,273.9	410.2	385.2	25.08	16.354		
4,100.0	3,919.4	4,011.3	3,746.2	22.0	28.1	-16.22	-264.9	1,315.6	415.5	389.5	25.99	15.987		
4,200.0	4,011.7	4,111.1	3,836.5	22.8	29.1	-16.47	-273.8	1,357.3	420.7	393.8	26.90	15.641		
4,300.0	4,104.0	4,211.0	3,926.8	23.6	30.0	-16.71	-282.7	1,398.9	425.9	398.1	27.81	15.314		
4,400.0	4,196.4	4,310.8	4,017.1	24.5	30.9	-16.95	-291.5	1,440.6	431.2	402.4	28.73	15.005		
4,500.0	4,288.7	4,410.7	4,107.4	25.3	31.9	-17.18	-300.4	1,482.3	436.4	406.7	29.66	14.713		
4,600.0	4,381.0	4,510.5	4,197.7	26.1	32.8	-17.41	-309.3	1,524.0	441.7	411.1	30.59	14.436		
4,700.0	4,473.3	4,610.4	4,288.0	26.9	33.7	-17.63	-318.1	1,565.6	446.9	415.4	31.53	14.173		
4,800.0	4,565.6	4,710.2	4,378.3	27.8	34.7	-17.85	-327.0	1,607.3	452.2	419.7	32.48	13.923		
4,900.0	4,657.9	4,810.1	4,468.6	28.6	35.6	-18.06	-335.9	1,649.0	457.5	424.0	33.43	13.685		
5,000.0	4,750.2	4,909.9	4,558.9	29.4	36.5	-18.26	-344.8	1,690.7	462.7	428.4	34.38	13.459		
5,100.0	4,842.5	5,009.7	4,649.2	30.3	37.4	-18.46	-353.6	1,732.3	468.0	432.7	35.34	13.243		

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



<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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	4,934.8	5,109.6	4,739.5	31.1	38.4	-18.66	-362.5	1,774.0	473.3	437.0	36.31	13.037	
5,300.0	5,027.1	5,209.4	4,829.8	31.9	39.3	-18.85	-371.4	1,815.7	478.6	441.3	37.28	12.840	
5,400.0	5,119.5	5,309.3	4,920.1	32.7	40.2	-19.04	-380.2	1,857.4	483.9	445.7	38.25	12.652	
5,500.0	5,211.8	5,409.1	5,010.4	33.6	41.2	-19.23	-389.1	1,899.0	489.2	450.0	39.23	12.472	
5,600.0	5,304.1	5,509.0	5,100.7	34.4	42.1	-19.41	-398.0	1,940.7	494.5	454.3	40.21	12.300	
5,700.0	5,396.4	5,608.8	5,191.0	35.2	43.0	-19.58	-406.9	1,982.4	499.9	458.7	41.19	12.135	
5,800.0	5,489.0	5,708.6	5,281.2	36.0	44.0	-3.43	-415.7	2,024.0	504.8	462.9	41.95	12.033	
5,900.0	5,581.5	5,807.0	5,370.2	36.6	44.9	17.19	-424.5	2,065.1	509.0	467.4	41.64	12.224	
6,000.0	5,672.2	5,902.2	5,456.3	37.1	45.8	35.21	-432.9	2,104.8	513.7	473.1	40.64	12.642	
6,100.0	5,759.2	5,992.2	5,537.7	37.6	46.6	49.62	-440.9	2,142.4	521.1	481.5	39.60	13.160	
6,200.0	5,840.8	6,081.5	5,618.5	37.9	47.4	61.18	-447.7	2,179.7	533.7	494.8	38.93	13.709	
6,300.0	5,915.5	6,183.1	5,710.7	38.3	48.2	70.75	-443.7	2,222.2	551.6	512.9	38.72	14.245	
6,400.0	5,981.9	6,296.4	5,811.6	38.5	49.0	78.71	-422.5	2,268.7	573.8	535.0	38.79	14.792	
6,500.0	6,038.6	6,425.1	5,920.9	38.7	49.7	85.53	-377.4	2,319.1	598.7	559.9	38.80	15.429	
6,600.0	6,084.5	6,574.0	6,035.9	38.8	50.4	91.46	-299.5	2,372.0	624.3	585.7	38.55	16.193	
6,700.0	6,118.7	6,747.9	6,148.2	38.9	51.0	96.44	-177.9	2,423.7	647.6	609.6	38.04	17.023	
6,800.0	6,140.6	6,948.7	6,240.5	39.0	51.4	100.10	-5.4	2,466.0	665.3	627.7	37.67	17.661	
6,900.0	6,149.7	7,170.7	6,287.8	39.1	51.7	101.88	209.6	2,487.5	674.0	635.8	38.24	17.628	
7,000.0	6,150.0	7,303.9	6,290.0	39.1	51.7	101.98	342.8	2,488.3	674.5	635.2	39.27	17.174	
7,100.0	6,150.0	7,403.9	6,290.0	39.3	51.8	101.98	442.8	2,488.1	674.5	633.8	40.71	16.567	
7,200.0	6,150.0	7,503.9	6,290.0	39.5	51.9	101.98	542.8	2,488.0	674.5	632.1	42.44	15.893	
7,300.0	6,150.0	7,603.9	6,290.0	39.8	52.1	101.98	642.8	2,487.8	674.5	630.1	44.42	15.184	
7,400.0	6,150.0	7,703.9	6,290.0	40.1	52.3	101.98	742.8	2,487.7	674.5	627.9	46.62	14.468	
7,500.0	6,150.0	7,803.9	6,290.0	40.6	52.6	101.98	842.8	2,487.5	674.5	625.5	49.01	13.762	
7,600.0	6,150.0	7,903.9	6,290.0	41.1	52.9	101.98	942.8	2,487.4	674.5	623.0	51.57	13.079	
7,700.0	6,150.0	8,003.9	6,290.0	41.7	53.3	101.98	1,042.8	2,487.2	674.5	620.3	54.27	12.429	
7,800.0	6,150.0	8,103.9	6,290.0	42.4	53.7	101.98	1,142.8	2,487.1	674.5	617.4	57.09	11.815	
7,900.0	6,150.0	8,203.9	6,290.0	43.2	54.2	101.98	1,242.8	2,486.9	674.5	614.5	60.01	11.240	
8,000.0	6,150.0	8,303.9	6,290.0	44.1	54.8	101.98	1,342.8	2,486.8	674.5	611.5	63.03	10.703	
8,100.0	6,150.0	8,403.9	6,290.0	45.1	55.4	101.98	1,442.8	2,486.6	674.5	608.4	66.12	10.202	
8,200.0	6,150.0	8,503.9	6,290.0	46.1	56.1	101.98	1,542.8	2,486.5	674.5	605.3	69.27	9.737	
8,300.0	6,150.0	8,603.9	6,290.0	47.3	56.9	101.98	1,642.8	2,486.3	674.5	602.0	72.49	9.305	
8,400.0	6,150.0	8,703.9	6,290.0	48.5	57.7	101.98	1,742.8	2,486.1	674.5	598.8	75.76	8.904	
8,500.0	6,150.0	8,803.9	6,290.0	49.7	58.6	101.98	1,842.8	2,486.0	674.5	595.5	79.07	8.531	
8,600.0	6,150.0	8,903.9	6,290.0	51.1	59.5	101.98	1,942.8	2,485.8	674.5	592.1	82.42	8.184	
8,700.0	6,150.0	9,003.9	6,290.0	52.4	60.6	101.98	2,042.8	2,485.7	674.5	588.7	85.80	7.861	
8,800.0	6,150.0	9,103.9	6,290.0	53.8	61.6	101.98	2,142.8	2,485.5	674.5	585.3	89.22	7.560	
8,900.0	6,150.0	9,203.9	6,290.0	55.3	62.8	101.98	2,242.8	2,485.4	674.5	581.9	92.66	7.279	
9,000.0	6,150.0	9,303.9	6,290.0	56.8	63.9	101.98	2,342.8	2,485.2	674.5	578.4	96.13	7.017	
9,100.0	6,150.0	9,403.9	6,290.0	58.3	65.2	101.98	2,442.8	2,485.1	674.5	574.9	99.62	6.771	
9,200.0	6,150.0	9,503.9	6,290.0	59.9	66.4	101.98	2,542.8	2,484.9	674.5	571.4	103.13	6.541	
9,300.0	6,150.0	9,603.9	6,290.0	61.4	67.8	101.98	2,642.8	2,484.8	674.6	567.9	106.66	6.324	
9,400.0	6,150.0	9,703.9	6,290.0	63.1	69.1	101.98	2,742.8	2,484.6	674.6	564.3	110.20	6.121	
9,500.0	6,150.0	9,803.9	6,290.0	64.7	70.5	101.98	2,842.8	2,484.5	674.6	560.8	113.76	5.930	
9,600.0	6,150.0	9,903.9	6,290.0	66.3	71.9	101.98	2,942.8	2,484.3	674.6	557.2	117.33	5.749	
9,700.0	6,150.0	10,003.9	6,290.0	68.0	73.4	101.98	3,042.8	2,484.2	674.6	553.6	120.92	5.579	
9,800.0	6,150.0	10,103.9	6,290.0	69.7	74.9	101.98	3,142.8	2,484.0	674.6	550.0	124.51	5.418	
9,900.0	6,150.0	10,203.9	6,290.0	71.3	76.4	101.98	3,242.8	2,483.9	674.6	546.4	128.11	5.265	
10,000.0	6,150.0	10,303.9	6,290.0	73.1	77.9	101.98	3,342.8	2,483.7	674.6	542.8	131.73	5.121	
10,100.0	6,150.0	10,403.9	6,290.0	74.8	79.5	101.98	3,442.8	2,483.6	674.6	539.2	135.35	4.984	
10,200.0	6,150.0	10,503.9	6,290.0	76.5	81.1	101.98	3,542.8	2,483.4	674.6	535.6	138.98	4.854	
10,300.0	6,150.0	10,603.9	6,290.0	78.2	82.7	101.98	3,642.8	2,483.3	674.6	532.0	142.62	4.730	

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

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	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		
10,400.0	6,150.0	10,703.9	6,290.0	80.0	84.3	101.98	3,742.8	2,483.1	674.6	528.3	146.26	4.612		
10,500.0	6,150.0	10,803.9	6,290.0	81.7	85.9	101.98	3,842.8	2,483.0	674.6	524.7	149.91	4.500		
10,600.0	6,150.0	10,903.9	6,290.0	83.5	87.6	101.98	3,942.8	2,482.8	674.6	521.0	153.57	4.393		
10,700.0	6,150.0	11,003.9	6,290.0	85.3	89.2	101.98	4,042.8	2,482.7	674.6	517.3	157.23	4.290		
10,800.0	6,150.0	11,103.9	6,290.0	87.0	90.9	101.98	4,142.8	2,482.5	674.6	513.7	160.89	4.193		
10,900.0	6,150.0	11,203.9	6,290.0	88.8	92.6	101.98	4,242.8	2,482.3	674.6	510.0	164.56	4.099		
11,000.0	6,150.0	11,303.9	6,290.0	90.6	94.3	101.98	4,342.8	2,482.2	674.6	506.3	168.24	4.010		
11,100.0	6,150.0	11,403.9	6,290.0	92.4	96.0	101.98	4,442.8	2,482.0	674.6	502.7	171.92	3.924		
11,200.0	6,150.0	11,503.9	6,290.0	94.2	97.7	101.98	4,542.8	2,481.9	674.6	499.0	175.60	3.842		
11,300.0	6,150.0	11,603.9	6,290.0	96.0	99.4	101.98	4,642.8	2,481.7	674.6	495.3	179.29	3.763		
11,400.0	6,150.0	11,703.9	6,290.0	97.8	101.2	101.98	4,742.8	2,481.6	674.6	491.6	182.98	3.687		
11,500.0	6,150.0	11,803.9	6,290.0	99.6	102.9	101.98	4,842.8	2,481.4	674.6	487.9	186.67	3.614		
11,600.0	6,150.0	11,903.9	6,290.0	101.5	104.6	101.98	4,942.8	2,481.3	674.6	484.2	190.37	3.544		
11,700.0	6,150.0	12,003.9	6,290.0	103.3	106.4	101.98	5,042.8	2,481.1	674.6	480.5	194.07	3.476		
11,800.0	6,150.0	12,103.9	6,290.0	105.1	108.2	101.98	5,142.8	2,481.0	674.6	476.8	197.77	3.411		
11,900.0	6,150.0	12,203.9	6,290.0	106.9	109.9	101.98	5,242.8	2,480.8	674.6	473.1	201.47	3.348		
12,000.0	6,150.0	12,303.9	6,290.0	108.8	111.7	101.98	5,342.8	2,480.7	674.6	469.4	205.18	3.288		
12,100.0	6,150.0	12,403.9	6,290.0	110.6	113.5	101.98	5,442.8	2,480.5	674.6	465.7	208.89	3.229		
12,200.0	6,150.0	12,503.9	6,290.0	112.4	115.3	101.98	5,542.8	2,480.4	674.6	462.0	212.60	3.173		
12,300.0	6,150.0	12,603.9	6,290.0	114.3	117.0	101.98	5,642.8	2,480.2	674.6	458.3	216.31	3.119		
12,400.0	6,150.0	12,703.9	6,290.0	116.1	118.8	101.98	5,742.8	2,480.1	674.6	454.6	220.03	3.066		
12,500.0	6,150.0	12,803.9	6,290.0	118.0	120.6	101.98	5,842.8	2,479.9	674.6	450.9	223.74	3.015		
12,600.0	6,150.0	12,903.9	6,290.0	119.8	122.4	101.98	5,942.8	2,479.8	674.6	447.1	227.46	2.966		
12,700.0	6,150.0	13,003.9	6,290.0	121.7	124.2	101.98	6,042.8	2,479.6	674.6	443.4	231.18	2.918		
12,800.0	6,150.0	13,103.9	6,290.0	123.5	126.0	101.98	6,142.8	2,479.5	674.6	439.7	234.90	2.872		
12,900.0	6,150.0	13,203.9	6,290.0	125.4	127.9	101.98	6,242.8	2,479.3	674.6	436.0	238.63	2.827		
13,000.0	6,150.0	13,303.9	6,290.0	127.2	129.7	101.98	6,342.8	2,479.2	674.6	432.3	242.35	2.784		
13,100.0	6,150.0	13,403.9	6,290.0	129.1	131.5	101.98	6,442.8	2,479.0	674.6	428.5	246.08	2.741		
13,200.0	6,150.0	13,503.9	6,290.0	131.0	133.3	101.98	6,542.8	2,478.9	674.6	424.8	249.80	2.701		
13,300.0	6,150.0	13,603.9	6,290.0	132.8	135.1	101.98	6,642.8	2,478.7	674.6	421.1	253.53	2.661		
13,400.0	6,150.0	13,703.9	6,290.0	134.7	137.0	101.98	6,742.8	2,478.6	674.6	417.4	257.26	2.622		
13,500.0	6,150.0	13,803.9	6,290.0	136.5	138.8	101.98	6,842.8	2,478.4	674.6	413.6	260.99	2.585		
13,600.0	6,150.0	13,903.9	6,290.0	138.4	140.6	101.98	6,942.8	2,478.2	674.6	409.9	264.72	2.548		
13,700.0	6,150.0	14,003.9	6,290.0	140.3	142.5	101.98	7,042.8	2,478.1	674.6	406.2	268.46	2.513		
13,800.0	6,150.0	14,103.9	6,290.0	142.2	144.3	101.98	7,142.8	2,477.9	674.6	402.4	272.19	2.478		
13,900.0	6,150.0	14,203.9	6,290.0	144.0	146.2	101.98	7,242.8	2,477.8	674.6	398.7	275.93	2.445		
13,976.5	6,150.0	14,280.5	6,290.0	145.5	147.6	101.98	7,319.3	2,477.7	674.6	395.8	278.78	2.420 SF		

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

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		
0.0	0.0	0.0	0.0	0.0	0.0	89.54	0.7	90.1	90.1					
100.0	100.0	100.0	100.0	0.1	0.1	89.54	0.7	90.1	90.1	89.9	0.22	400.772		
200.0	200.0	200.0	200.0	0.3	0.3	89.54	0.7	90.1	90.1	89.4	0.67	133.591 CC, ES		
300.0	300.0	297.0	297.0	0.6	0.5	89.75	0.4	91.7	91.7	90.6	1.11	83.005		
400.0	400.0	393.7	393.6	0.8	0.8	90.32	-0.5	96.5	96.7	95.2	1.54	62.703		
500.0	500.0	490.0	489.5	1.0	1.0	91.15	-2.1	104.5	105.0	103.0	2.00	52.458		
600.0	600.0	585.7	584.5	1.2	1.3	92.11	-4.3	115.5	116.6	114.1	2.49	46.856		
700.0	700.0	680.5	678.2	1.5	1.6	93.09	-7.0	129.5	131.5	128.5	3.01	43.692		
800.0	800.0	774.2	770.4	1.7	1.9	94.02	-10.3	146.4	149.7	146.1	3.57	41.917		
900.0	900.0	866.8	860.8	1.9	2.3	94.86	-14.1	165.9	171.0	166.9	4.17	40.976		
1,000.0	1,000.0	957.9	949.1	2.1	2.8	95.59	-18.4	187.9	195.5	190.7	4.82	40.553		
1,100.0	1,100.0	1,047.9	1,035.6	2.3	3.3	-10.10	-23.2	212.3	221.4	216.7	4.76	46.542		
1,200.0	1,199.8	1,137.3	1,120.7	2.5	3.8	-9.65	-28.4	239.2	247.1	241.9	5.20	47.515		
1,300.0	1,299.5	1,226.0	1,204.2	2.8	4.4	-9.34	-34.1	268.5	272.4	266.7	5.66	48.158		
1,400.0	1,398.7	1,314.1	1,286.2	3.0	5.1	-9.14	-40.3	300.0	297.3	291.2	6.12	48.569		
1,500.0	1,497.5	1,400.0	1,365.2	3.3	5.8	-9.02	-46.8	333.2	321.9	315.3	6.60	48.769		
1,600.0	1,595.6	1,488.5	1,445.5	3.6	6.5	-8.95	-53.9	369.7	346.0	338.9	7.11	48.700		
1,700.0	1,693.1	1,578.9	1,526.4	3.9	7.4	-8.95	-61.6	409.3	369.6	361.9	7.64	48.396		
1,800.0	1,789.6	1,676.7	1,613.6	4.4	8.3	-9.02	-70.1	452.7	390.4	382.2	8.20	47.581		
1,900.0	1,885.3	1,775.1	1,701.4	4.9	9.3	-9.17	-78.7	496.4	407.8	399.0	8.79	46.372		
2,000.0	1,979.8	1,874.1	1,789.7	5.4	10.2	-9.39	-87.2	540.4	421.8	412.4	9.41	44.845		
2,100.0	2,073.2	1,973.5	1,878.4	6.1	11.2	-9.68	-95.9	584.5	432.5	422.4	10.04	43.065		
2,200.0	2,165.5	2,073.2	1,967.2	6.8	12.2	-10.05	-104.5	628.7	440.5	429.8	10.74	41.027		
2,300.0	2,257.9	2,172.8	2,056.1	7.5	13.2	-10.41	-113.1	672.9	448.4	436.9	11.47	39.108		
2,400.0	2,350.2	2,272.5	2,145.0	8.3	14.2	-10.76	-121.8	717.1	456.3	444.1	12.21	37.374		
2,500.0	2,442.5	2,372.1	2,233.9	9.0	15.1	-11.10	-130.4	761.4	464.2	451.2	12.97	35.801		
2,600.0	2,534.8	2,471.8	2,322.7	9.8	16.1	-11.42	-139.0	805.6	472.1	458.4	13.74	34.371		
2,700.0	2,627.1	2,571.4	2,411.6	10.6	17.1	-11.74	-147.7	849.8	480.1	465.6	14.52	33.068		
2,800.0	2,719.4	2,671.1	2,500.5	11.4	18.1	-12.04	-156.3	894.0	488.1	472.7	15.31	31.876		
2,900.0	2,811.7	2,770.7	2,589.4	12.2	19.1	-12.34	-165.0	938.2	496.0	479.9	16.11	30.783		
3,000.0	2,904.0	2,870.4	2,678.3	13.0	20.1	-12.63	-173.6	982.5	504.0	487.1	16.93	29.779		
3,100.0	2,996.3	2,970.0	2,767.1	13.8	21.1	-12.90	-182.2	1,026.7	512.0	494.3	17.75	28.852		
3,200.0	3,088.6	3,069.7	2,856.0	14.6	22.1	-13.17	-190.9	1,070.9	520.0	501.5	18.58	27.996		
3,300.0	3,180.9	3,169.3	2,944.9	15.4	23.1	-13.43	-199.5	1,115.1	528.1	508.7	19.41	27.203		
3,400.0	3,273.3	3,269.0	3,033.8	16.2	24.0	-13.68	-208.1	1,159.3	536.1	515.9	20.26	26.466		
3,500.0	3,365.6	3,368.6	3,122.7	17.1	25.0	-13.93	-216.8	1,203.6	544.2	523.1	21.11	25.779		
3,600.0	3,457.9	3,468.3	3,211.6	17.9	26.0	-14.17	-225.4	1,247.8	552.2	530.3	21.97	25.139		
3,700.0	3,550.2	3,567.9	3,300.4	18.7	27.0	-14.40	-234.1	1,292.0	560.3	537.5	22.83	24.541		
3,800.0	3,642.5	3,667.6	3,389.3	19.5	28.0	-14.62	-242.7	1,336.2	568.4	544.7	23.70	23.980		
3,900.0	3,734.8	3,767.2	3,478.2	20.3	29.0	-14.84	-251.3	1,380.5	576.4	551.9	24.58	23.454		
4,000.0	3,827.1	3,866.9	3,567.1	21.2	30.0	-15.06	-260.0	1,424.7	584.5	559.1	25.46	22.959		
4,100.0	3,919.4	3,966.5	3,656.0	22.0	31.0	-15.26	-268.6	1,468.9	592.6	566.3	26.35	22.493		
4,200.0	4,011.7	4,066.1	3,744.8	22.8	32.0	-15.46	-277.3	1,513.1	600.7	573.5	27.24	22.054		
4,300.0	4,104.0	4,165.8	3,833.7	23.6	33.0	-15.66	-285.9	1,557.3	608.9	580.7	28.14	21.639		
4,400.0	4,196.4	4,265.4	3,922.6	24.5	34.0	-15.85	-294.5	1,601.6	617.0	587.9	29.04	21.246		
4,500.0	4,288.7	4,365.1	4,011.5	25.3	35.0	-16.03	-303.2	1,645.8	625.1	595.2	29.95	20.874		
4,600.0	4,381.0	4,464.7	4,100.4	26.1	36.0	-16.22	-311.8	1,690.0	633.2	602.4	30.86	20.522		
4,700.0	4,473.3	4,564.4	4,189.2	26.9	37.0	-16.39	-320.4	1,734.2	641.4	609.6	31.77	20.187		
4,800.0	4,565.6	4,664.0	4,278.1	27.8	38.0	-16.56	-329.1	1,778.5	649.5	616.8	32.69	19.868		
4,900.0	4,657.9	4,763.7	4,367.0	28.6	38.9	-16.73	-337.7	1,822.7	657.7	624.1	33.61	19.565		
5,000.0	4,750.2	4,863.3	4,455.9	29.4	39.9	-16.89	-346.4	1,866.9	665.8	631.3	34.54	19.276		
5,100.0	4,842.5	4,963.0	4,544.8	30.3	40.9	-17.05	-355.0	1,911.1	674.0	638.5	35.47	19.000		

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

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

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		
5,200.0	4,934.8	5,062.6	4,633.6	31.1	41.9	-17.21	-363.6	1,955.3	682.2	645.7	36.41	18.737		
5,300.0	5,027.1	5,162.3	4,722.5	31.9	42.9	-17.36	-372.3	1,999.6	690.3	653.0	37.34	18.486		
5,400.0	5,119.5	5,261.9	4,811.4	32.7	43.9	-17.51	-380.9	2,043.8	698.5	660.2	38.28	18.245		
5,500.0	5,211.8	5,361.6	4,900.3	33.6	44.9	-17.66	-389.5	2,088.0	706.7	667.5	39.23	18.014		
5,600.0	5,304.1	5,461.2	4,989.2	34.4	45.9	-17.80	-398.2	2,132.2	714.9	674.7	40.18	17.793		
5,700.0	5,396.4	5,560.9	5,078.0	35.2	46.9	-17.94	-406.8	2,176.4	723.1	681.9	41.13	17.581		
5,800.0	5,489.0	5,660.5	5,166.9	36.0	47.9	-2.12	-415.5	2,220.6	731.0	688.9	42.09	17.366		
5,900.0	5,581.5	5,758.7	5,254.5	36.6	48.9	17.66	-424.0	2,264.2	738.5	696.1	42.31	17.455		
6,000.0	5,672.2	5,853.8	5,339.3	37.1	49.8	34.43	-432.2	2,306.4	746.1	704.2	41.92	17.797		
6,100.0	5,759.2	5,943.7	5,419.5	37.6	50.7	47.36	-440.0	2,346.3	755.4	714.1	41.34	18.274		
6,200.0	5,840.8	6,034.8	5,500.8	37.9	51.6	57.33	-445.9	2,386.8	767.9	727.1	40.83	18.806		
6,300.0	5,915.5	6,137.2	5,592.3	38.3	52.4	65.22	-439.7	2,432.3	783.6	743.0	40.59	19.303		
6,400.0	5,981.9	6,251.0	5,691.9	38.5	53.2	71.62	-415.9	2,481.8	801.8	761.2	40.63	19.736		
6,500.0	6,038.6	6,379.7	5,798.8	38.7	54.1	77.02	-368.2	2,534.8	821.5	780.7	40.82	20.125		
6,600.0	6,084.5	6,527.5	5,909.8	38.8	54.8	81.66	-288.2	2,589.9	841.3	800.2	41.09	20.477		
6,700.0	6,118.7	6,698.4	6,016.7	38.9	55.5	85.56	-166.4	2,642.9	859.2	817.8	41.40	20.752		
6,800.0	6,140.6	6,893.6	6,103.3	39.0	55.9	88.46	2.5	2,685.7	872.7	830.8	41.96	20.799		
6,900.0	6,149.7	7,107.9	6,147.7	39.1	56.1	89.91	210.2	2,707.4	879.5	836.3	43.16	20.377		
7,000.0	6,150.0	7,240.9	6,150.0	39.1	56.2	90.00	343.1	2,708.3	879.9	835.4	44.42	19.807		
7,100.0	6,150.0	7,340.9	6,150.0	39.3	56.3	90.00	443.1	2,708.1	879.9	833.9	45.92	19.162		
7,200.0	6,150.0	7,440.9	6,150.0	39.5	56.4	90.00	543.1	2,708.0	879.8	832.2	47.68	18.454		
7,300.0	6,150.0	7,540.9	6,150.0	39.8	56.5	90.00	643.1	2,707.8	879.8	830.2	49.67	17.713		
7,400.0	6,150.0	7,640.9	6,150.0	40.1	56.7	90.00	743.1	2,707.7	879.8	828.0	51.87	16.961		
7,500.0	6,150.0	7,740.9	6,150.0	40.6	56.9	90.00	843.1	2,707.5	879.8	825.6	54.26	16.215		
7,600.0	6,150.0	7,840.9	6,150.0	41.1	57.2	90.00	943.1	2,707.4	879.8	823.0	56.80	15.489		
7,700.0	6,150.0	7,940.9	6,150.0	41.7	57.5	90.00	1,043.1	2,707.2	879.8	820.3	59.49	14.790		
7,800.0	6,150.0	8,040.9	6,150.0	42.4	57.9	90.00	1,143.1	2,707.1	879.8	817.5	62.29	14.124		
7,900.0	6,150.0	8,140.9	6,150.0	43.2	58.3	90.00	1,243.1	2,706.9	879.8	814.6	65.20	13.494		
8,000.0	6,150.0	8,240.9	6,150.0	44.1	58.8	90.00	1,343.1	2,706.7	879.8	811.6	68.20	12.900		
8,100.0	6,150.0	8,340.9	6,150.0	45.1	59.4	90.00	1,443.1	2,706.6	879.8	808.5	71.29	12.342		
8,200.0	6,150.0	8,440.9	6,150.0	46.1	60.0	90.00	1,543.1	2,706.4	879.8	805.4	74.44	11.819		
8,300.0	6,150.0	8,540.9	6,150.0	47.3	60.6	90.00	1,643.1	2,706.3	879.8	802.2	77.65	11.330		
8,400.0	6,150.0	8,640.9	6,150.0	48.5	61.3	90.00	1,743.1	2,706.1	879.8	798.9	80.92	10.872		
8,500.0	6,150.0	8,740.9	6,150.0	49.7	62.1	90.00	1,843.1	2,706.0	879.8	795.6	84.24	10.444		
8,600.0	6,150.0	8,840.9	6,150.0	51.1	62.9	90.00	1,943.1	2,705.8	879.8	792.2	87.60	10.044		
8,700.0	6,150.0	8,940.9	6,150.0	52.4	63.8	90.00	2,043.1	2,705.6	879.8	788.8	91.00	9.668		
8,800.0	6,150.0	9,040.9	6,150.0	53.8	64.8	90.00	2,143.1	2,705.5	879.8	785.4	94.43	9.317		
8,900.0	6,150.0	9,140.9	6,150.0	55.3	65.8	90.00	2,243.1	2,705.3	879.8	781.9	97.89	8.987		
9,000.0	6,150.0	9,240.9	6,150.0	56.8	66.9	90.00	2,343.1	2,705.2	879.8	778.4	101.38	8.678		
9,100.0	6,150.0	9,340.9	6,150.0	58.3	68.0	90.00	2,443.1	2,705.0	879.8	774.9	104.89	8.387		
9,200.0	6,150.0	9,440.9	6,150.0	59.9	69.1	90.00	2,543.1	2,704.9	879.8	771.4	108.43	8.114		
9,300.0	6,150.0	9,540.9	6,150.0	61.4	70.4	90.00	2,643.1	2,704.7	879.8	767.8	111.99	7.856		
9,400.0	6,150.0	9,640.9	6,150.0	63.1	71.6	90.00	2,743.1	2,704.5	879.8	764.2	115.56	7.613		
9,500.0	6,150.0	9,740.9	6,150.0	64.7	72.9	90.00	2,843.1	2,704.4	879.8	760.6	119.15	7.384		
9,600.0	6,150.0	9,840.9	6,150.0	66.3	74.3	90.00	2,943.1	2,704.2	879.8	757.0	122.76	7.167		
9,700.0	6,150.0	9,940.9	6,150.0	68.0	75.6	90.00	3,043.1	2,704.1	879.8	753.4	126.38	6.961		
9,800.0	6,150.0	10,040.9	6,150.0	69.7	77.0	90.00	3,143.1	2,703.9	879.8	749.8	130.01	6.767		
9,900.0	6,150.0	10,140.9	6,150.0	71.3	78.5	90.00	3,243.1	2,703.8	879.8	746.1	133.65	6.582		
10,000.0	6,150.0	10,240.9	6,150.0	73.1	79.9	90.00	3,343.1	2,703.6	879.8	742.5	137.31	6.407		
10,100.0	6,150.0	10,340.9	6,150.0	74.8	81.4	90.00	3,443.1	2,703.4	879.8	738.8	140.97	6.241		
10,200.0	6,150.0	10,440.9	6,150.0	76.5	82.9	90.00	3,543.1	2,703.3	879.8	735.1	144.65	6.082		
10,300.0	6,150.0	10,540.9	6,150.0	78.2	84.5	90.00	3,643.1	2,703.1	879.8	731.4	148.33	5.931		

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

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,400.0	6,150.0	10,640.9	6,150.0	80.0	86.0	90.00	3,743.1	2,703.0	879.8	727.7	152.02	5.787		
10,500.0	6,150.0	10,740.9	6,150.0	81.7	87.6	90.00	3,843.1	2,702.8	879.7	724.0	155.72	5.650		
10,600.0	6,150.0	10,840.9	6,150.0	83.5	89.2	90.00	3,943.1	2,702.7	879.7	720.3	159.42	5.518		
10,700.0	6,150.0	10,940.9	6,150.0	85.3	90.8	90.00	4,043.1	2,702.5	879.7	716.6	163.13	5.393		
10,800.0	6,150.0	11,040.9	6,150.0	87.0	92.4	90.00	4,143.1	2,702.4	879.7	712.9	166.85	5.273		
10,900.0	6,150.0	11,140.9	6,150.0	88.8	94.1	90.00	4,243.1	2,702.2	879.7	709.2	170.57	5.158		
11,000.0	6,150.0	11,240.9	6,150.0	90.6	95.7	90.00	4,343.1	2,702.0	879.7	705.4	174.30	5.047		
11,100.0	6,150.0	11,340.9	6,150.0	92.4	97.4	90.00	4,443.1	2,701.9	879.7	701.7	178.03	4.941		
11,200.0	6,150.0	11,440.9	6,150.0	94.2	99.1	90.00	4,543.1	2,701.7	879.7	698.0	181.77	4.840		
11,300.0	6,150.0	11,540.9	6,150.0	96.0	100.8	90.00	4,643.1	2,701.6	879.7	694.2	185.51	4.742		
11,400.0	6,150.0	11,640.9	6,150.0	97.8	102.5	90.00	4,743.1	2,701.4	879.7	690.5	189.25	4.648		
11,500.0	6,150.0	11,740.9	6,150.0	99.6	104.2	90.00	4,843.1	2,701.3	879.7	686.7	193.00	4.558		
11,600.0	6,150.0	11,840.9	6,150.0	101.5	105.9	90.00	4,943.1	2,701.1	879.7	683.0	196.76	4.471		
11,700.0	6,150.0	11,940.9	6,150.0	103.3	107.6	90.00	5,043.1	2,700.9	879.7	679.2	200.51	4.387		
11,800.0	6,150.0	12,040.9	6,150.0	105.1	109.4	90.00	5,143.1	2,700.8	879.7	675.4	204.27	4.307		
11,900.0	6,150.0	12,140.9	6,150.0	106.9	111.1	90.00	5,243.1	2,700.6	879.7	671.7	208.03	4.229		
12,000.0	6,150.0	12,240.9	6,150.0	108.8	112.8	90.00	5,343.1	2,700.5	879.7	667.9	211.80	4.154		
12,100.0	6,150.0	12,340.9	6,150.0	110.6	114.6	90.00	5,443.1	2,700.3	879.7	664.1	215.56	4.081		
12,200.0	6,150.0	12,440.9	6,150.0	112.4	116.4	90.00	5,543.1	2,700.2	879.7	660.4	219.33	4.011		
12,300.0	6,150.0	12,540.9	6,150.0	114.3	118.1	90.00	5,643.1	2,700.0	879.7	656.6	223.11	3.943		
12,400.0	6,150.0	12,640.9	6,150.0	116.1	119.9	90.00	5,743.1	2,699.8	879.7	652.8	226.88	3.877		
12,500.0	6,150.0	12,740.9	6,150.0	118.0	121.7	90.00	5,843.1	2,699.7	879.7	649.0	230.66	3.814		
12,600.0	6,150.0	12,840.9	6,150.0	119.8	123.5	90.00	5,943.1	2,699.5	879.7	645.2	234.44	3.752		
12,700.0	6,150.0	12,940.9	6,150.0	121.7	125.2	90.00	6,043.1	2,699.4	879.7	641.5	238.22	3.693		
12,800.0	6,150.0	13,040.9	6,150.0	123.5	127.0	90.00	6,143.1	2,699.2	879.7	637.7	242.00	3.635		
12,900.0	6,150.0	13,140.9	6,150.0	125.4	128.8	90.00	6,243.1	2,699.1	879.7	633.9	245.79	3.579		
13,000.0	6,150.0	13,240.9	6,150.0	127.2	130.6	90.00	6,343.1	2,698.9	879.7	630.1	249.57	3.525		
13,100.0	6,150.0	13,340.9	6,150.0	129.1	132.4	90.00	6,443.1	2,698.7	879.7	626.3	253.36	3.472		
13,200.0	6,150.0	13,440.9	6,150.0	131.0	134.2	90.00	6,543.1	2,698.6	879.7	622.5	257.15	3.421		
13,300.0	6,150.0	13,540.9	6,150.0	132.8	136.1	90.00	6,643.1	2,698.4	879.7	618.7	260.94	3.371		
13,400.0	6,150.0	13,640.9	6,150.0	134.7	137.9	90.00	6,743.1	2,698.3	879.7	614.9	264.73	3.323		
13,500.0	6,150.0	13,740.9	6,150.0	136.5	139.7	90.00	6,843.1	2,698.1	879.7	611.1	268.53	3.276		
13,600.0	6,150.0	13,840.9	6,150.0	138.4	141.5	90.00	6,943.1	2,698.0	879.7	607.3	272.32	3.230		
13,700.0	6,150.0	13,940.9	6,150.0	140.3	143.3	90.00	7,043.1	2,697.8	879.7	603.5	276.12	3.186		
13,800.0	6,150.0	14,040.9	6,150.0	142.2	145.2	90.00	7,143.1	2,697.7	879.6	599.7	279.92	3.143		
13,900.0	6,150.0	14,140.9	6,150.0	144.0	147.0	90.00	7,243.1	2,697.5	879.6	595.9	283.72	3.100		
13,976.5	6,150.0	14,217.4	6,150.0	145.5	148.4	90.00	7,319.7	2,697.4	879.6	593.0	286.62	3.069 SF		

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)			
0.0	0.0	0.0	0.0	0.0	0.0	-90.93	-0.4	-22.6	22.6					
100.0	100.0	100.0	100.0	0.1	0.1	-90.93	-0.4	-22.6	22.6	22.4	0.22	100.513		
200.0	200.0	200.0	200.0	0.3	0.3	-90.93	-0.4	-22.6	22.6	21.9	0.67	33.504		
300.0	300.0	300.0	300.0	0.6	0.6	-90.93	-0.4	-22.6	22.6	21.5	1.12	20.103		
400.0	400.0	400.0	400.0	0.8	0.8	-90.93	-0.4	-22.6	22.6	21.0	1.57	14.359		
500.0	500.0	500.0	500.0	1.0	1.0	-90.93	-0.4	-22.6	22.6	20.6	2.02	11.168		
600.0	600.0	600.0	600.0	1.2	1.2	-90.93	-0.4	-22.6	22.6	20.1	2.47	9.138		
700.0	700.0	700.0	700.0	1.5	1.5	-90.93	-0.4	-22.6	22.6	19.7	2.92	7.732		
800.0	800.0	800.0	800.0	1.7	1.7	-90.93	-0.4	-22.6	22.6	19.2	3.37	6.701		
900.0	900.0	900.0	900.0	1.9	1.9	-90.93	-0.4	-22.6	22.6	18.8	3.82	5.913		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-90.93	-0.4	-22.6	22.6	18.3	4.27	5.290 CC		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.4	163.94	-0.4	-22.6	24.3	19.6	4.70	5.161		
1,200.0	1,199.8	1,199.8	1,199.8	2.5	2.6	166.75	-0.4	-22.6	29.3	24.2	5.12	5.733		
1,300.0	1,299.5	1,300.7	1,300.7	2.8	2.8	169.18	-0.9	-20.9	36.2	30.6	5.51	6.561		
1,400.0	1,398.7	1,401.8	1,401.7	3.0	3.0	170.68	-2.6	-15.8	43.0	37.1	5.89	7.303		
1,500.0	1,497.5	1,503.2	1,502.6	3.3	3.2	171.61	-5.4	-7.4	49.9	43.6	6.28	7.947		
1,600.0	1,595.6	1,604.8	1,603.5	3.6	3.4	172.19	-9.3	4.5	56.7	50.0	6.67	8.503		
1,700.0	1,693.1	1,706.7	1,704.1	3.9	3.7	172.52	-14.4	19.8	63.5	56.4	7.07	8.979		
1,800.0	1,789.6	1,808.8	1,804.3	4.4	4.0	172.68	-20.6	38.6	70.3	62.8	7.49	9.382		
1,900.0	1,885.3	1,911.2	1,903.9	4.9	4.4	172.72	-28.0	60.8	76.9	69.0	7.92	9.716		
2,000.0	1,979.8	2,013.8	2,002.9	5.4	4.8	172.65	-36.4	86.4	83.6	75.2	8.37	9.983		
2,100.0	2,073.2	2,116.7	2,101.1	6.1	5.3	172.51	-46.1	115.5	90.1	81.3	8.84	10.190		
2,200.0	2,165.5	2,219.8	2,198.4	6.8	5.9	172.25	-56.8	147.9	95.7	86.3	9.40	10.185		
2,300.0	2,257.9	2,320.1	2,292.3	7.5	6.5	171.83	-67.9	181.5	99.4	89.4	10.01	9.931		
2,400.0	2,350.2	2,420.1	2,385.9	8.3	7.1	171.44	-79.0	214.9	103.0	92.4	10.64	9.685		
2,500.0	2,442.5	2,520.0	2,479.4	9.0	7.8	171.08	-90.0	248.3	106.7	95.4	11.28	9.452		
2,600.0	2,534.8	2,619.9	2,572.9	9.8	8.5	170.74	-101.1	281.7	110.3	98.4	11.95	9.231		
2,700.0	2,627.1	2,719.9	2,666.4	10.6	9.2	170.42	-112.1	315.1	113.9	101.3	12.63	9.024		
2,800.0	2,719.4	2,819.8	2,760.0	11.4	9.9	170.12	-123.2	348.5	117.6	104.3	13.32	8.829		
2,900.0	2,811.7	2,919.7	2,853.5	12.2	10.6	169.84	-134.3	382.0	121.3	107.2	14.02	8.647		
3,000.0	2,904.0	3,019.7	2,947.0	13.0	11.3	169.57	-145.3	415.4	124.9	110.2	14.74	8.476		
3,100.0	2,996.3	3,119.6	3,040.5	13.8	12.0	169.32	-156.4	448.8	128.6	113.1	15.46	8.316		
3,200.0	3,088.6	3,219.5	3,134.1	14.6	12.8	169.09	-167.4	482.2	132.2	116.0	16.19	8.166		
3,300.0	3,180.9	3,319.5	3,227.6	15.4	13.5	168.87	-178.5	515.6	135.9	119.0	16.93	8.025		
3,400.0	3,273.3	3,419.4	3,321.1	16.2	14.2	168.66	-189.6	549.0	139.6	121.9	17.68	7.894		
3,500.0	3,365.6	3,519.3	3,414.6	17.1	15.0	168.45	-200.6	582.5	143.2	124.8	18.43	7.770		
3,600.0	3,457.9	3,619.3	3,508.2	17.9	15.7	168.26	-211.7	615.9	146.9	127.7	19.19	7.654		
3,700.0	3,550.2	3,719.2	3,601.7	18.7	16.4	168.08	-222.7	649.3	150.6	130.6	19.96	7.545		
3,800.0	3,642.5	3,819.1	3,695.2	19.5	17.2	167.91	-233.8	682.7	154.2	133.5	20.73	7.442		
3,900.0	3,734.8	3,919.1	3,788.8	20.3	17.9	167.75	-244.9	716.1	157.9	136.4	21.50	7.345		
4,000.0	3,827.1	4,019.0	3,882.3	21.2	18.7	167.59	-255.9	749.5	161.6	139.3	22.28	7.253		
4,100.0	3,919.4	4,118.9	3,975.8	22.0	19.4	167.44	-267.0	783.0	165.3	142.2	23.06	7.167		
4,200.0	4,011.7	4,218.8	4,069.3	22.8	20.2	167.30	-278.0	816.4	168.9	145.1	23.85	7.085		
4,300.0	4,104.0	4,318.8	4,162.9	23.6	20.9	167.16	-289.1	849.8	172.6	148.0	24.63	7.007		
4,400.0	4,196.4	4,418.7	4,256.4	24.5	21.6	167.03	-300.1	883.2	176.3	150.9	25.43	6.934		
4,500.0	4,288.7	4,518.6	4,349.9	25.3	22.4	166.90	-311.2	916.6	180.0	153.8	26.22	6.864		
4,600.0	4,381.0	4,618.6	4,443.4	26.1	23.1	166.78	-322.3	950.0	183.7	156.6	27.02	6.797		
4,700.0	4,473.3	4,718.5	4,537.0	26.9	23.9	166.66	-333.3	983.5	187.3	159.5	27.82	6.734		
4,800.0	4,565.6	4,818.4	4,630.5	27.8	24.6	166.55	-344.4	1,016.9	191.0	162.4	28.62	6.674		
4,900.0	4,657.9	4,918.4	4,724.0	28.6	25.4	166.44	-355.4	1,050.3	194.7	165.3	29.43	6.617		
5,000.0	4,750.2	5,018.3	4,817.6	29.4	26.1	166.34	-366.5	1,083.7	198.4	168.2	30.23	6.562		
5,100.0	4,842.5	5,118.2	4,911.1	30.3	26.9	166.24	-377.6	1,117.1	202.1	171.0	31.04	6.510		

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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 (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	4,934.8	5,218.2	5,004.6	31.1	27.6	166.14	-388.6	1,150.5	205.8	173.9	31.85	6.460		
5,300.0	5,027.1	5,318.1	5,098.1	31.9	28.4	166.05	-399.7	1,184.0	209.4	176.8	32.67	6.412		
5,400.0	5,119.5	5,418.0	5,191.7	32.7	29.2	165.96	-410.7	1,217.4	213.1	179.7	33.48	6.366		
5,500.0	5,211.8	5,518.0	5,285.2	33.6	29.9	165.87	-421.8	1,250.8	216.8	182.5	34.30	6.322		
5,600.0	5,304.1	5,617.9	5,378.7	34.4	30.7	165.79	-432.9	1,284.2	220.5	185.4	35.11	6.280		
5,700.0	5,396.4	5,717.8	5,472.2	35.2	31.4	165.71	-443.9	1,317.6	224.2	188.3	35.93	6.239		
5,800.0	5,489.0	5,817.6	5,565.6	36.0	32.1	-179.09	-454.5	1,351.0	227.9	190.8	37.05	6.150		
5,900.0	5,581.5	5,917.7	5,659.9	36.6	32.7	-161.67	-454.8	1,384.6	231.7	193.4	38.31	6.048		
6,000.0	5,672.2	6,019.0	5,754.3	37.1	33.2	-148.08	-441.0	1,418.3	235.7	196.4	39.27	6.003		
6,100.0	5,759.2	6,121.5	5,847.0	37.6	33.7	-138.83	-412.8	1,451.4	239.8	199.9	39.87	6.015		
6,200.0	5,840.8	6,225.1	5,935.9	37.9	34.0	-132.84	-370.2	1,483.1	243.9	203.8	40.11	6.080		
6,300.0	5,915.5	6,329.8	6,019.0	38.3	34.3	-128.97	-313.9	1,512.7	247.8	207.7	40.05	6.186		
6,400.0	5,981.9	6,435.6	6,094.1	38.5	34.5	-126.47	-244.6	1,539.4	251.3	211.5	39.80	6.315		
6,500.0	6,038.6	6,542.3	6,159.4	38.7	34.7	-124.83	-163.5	1,562.6	254.5	215.0	39.53	6.439		
6,600.0	6,084.5	6,649.8	6,212.9	38.8	34.8	-123.76	-72.4	1,581.5	257.1	217.7	39.42	6.522		
6,700.0	6,118.7	6,757.9	6,253.2	38.9	34.9	-123.08	26.8	1,595.8	259.1	219.4	39.68	6.529		
6,800.0	6,140.6	6,866.4	6,279.1	39.0	35.0	-122.68	131.7	1,604.8	260.3	219.9	40.43	6.439		
6,900.0	6,149.7	6,975.2	6,289.7	39.1	35.0	-122.48	239.8	1,608.5	260.8	219.0	41.75	6.246		
7,000.0	6,150.0	7,076.8	6,290.0	39.1	35.1	-122.47	341.4	1,608.4	260.8	217.8	43.02	6.062		
7,100.0	6,150.0	7,176.8	6,290.0	39.3	35.3	-122.47	441.4	1,608.3	260.8	216.2	44.63	5.844		
7,200.0	6,150.0	7,276.8	6,290.0	39.5	35.6	-122.47	541.4	1,608.1	260.8	214.4	46.44	5.616		
7,300.0	6,150.0	7,376.8	6,290.0	39.8	35.9	-122.47	641.4	1,608.0	260.8	212.4	48.41	5.387		
7,400.0	6,150.0	7,476.8	6,290.0	40.1	36.4	-122.47	741.4	1,607.8	260.8	210.3	50.53	5.161		
7,500.0	6,150.0	7,576.8	6,290.0	40.6	36.9	-122.47	841.4	1,607.7	260.8	208.0	52.78	4.941		
7,600.0	6,150.0	7,676.8	6,290.0	41.1	37.6	-122.47	941.4	1,607.5	260.8	205.7	55.13	4.730		
7,700.0	6,150.0	7,776.8	6,290.0	41.7	38.3	-122.47	1,041.4	1,607.3	260.8	203.2	57.58	4.529		
7,800.0	6,150.0	7,876.8	6,290.0	42.4	39.2	-122.47	1,141.4	1,607.2	260.8	200.7	60.12	4.338		
7,900.0	6,150.0	7,976.8	6,290.0	43.2	40.1	-122.47	1,241.4	1,607.0	260.8	198.1	62.73	4.157		
8,000.0	6,150.0	8,076.8	6,290.0	44.1	41.2	-122.47	1,341.4	1,606.9	260.8	195.4	65.41	3.987		
8,100.0	6,150.0	8,176.8	6,290.0	45.1	42.3	-122.47	1,441.4	1,606.7	260.8	192.6	68.15	3.827		
8,200.0	6,150.0	8,276.8	6,290.0	46.1	43.5	-122.47	1,541.4	1,606.6	260.8	189.9	70.94	3.676		
8,300.0	6,150.0	8,376.8	6,290.0	47.3	44.8	-122.47	1,641.4	1,606.4	260.8	187.0	73.77	3.535		
8,400.0	6,150.0	8,476.8	6,290.0	48.5	46.1	-122.47	1,741.4	1,606.3	260.8	184.1	76.64	3.403		
8,500.0	6,150.0	8,576.8	6,290.0	49.7	47.5	-122.47	1,841.4	1,606.1	260.8	181.2	79.55	3.278		
8,600.0	6,150.0	8,676.8	6,290.0	51.1	48.9	-122.47	1,941.4	1,606.0	260.8	178.3	82.49	3.161		
8,700.0	6,150.0	8,776.8	6,290.0	52.4	50.4	-122.47	2,041.4	1,605.8	260.8	175.3	85.47	3.051		
8,800.0	6,150.0	8,876.8	6,290.0	53.8	51.9	-122.47	2,141.4	1,605.7	260.8	172.3	88.46	2.948		
8,900.0	6,150.0	8,976.8	6,290.0	55.3	53.5	-122.47	2,241.4	1,605.5	260.8	169.3	91.48	2.851		
9,000.0	6,150.0	9,076.8	6,290.0	56.8	55.0	-122.47	2,341.4	1,605.4	260.8	166.3	94.52	2.759		
9,100.0	6,150.0	9,176.8	6,290.0	58.3	56.6	-122.47	2,441.4	1,605.2	260.8	163.2	97.59	2.672		
9,200.0	6,150.0	9,276.8	6,290.0	59.9	58.3	-122.47	2,541.4	1,605.1	260.8	160.1	100.66	2.591		
9,300.0	6,150.0	9,376.8	6,290.0	61.4	59.9	-122.47	2,641.4	1,604.9	260.8	157.0	103.76	2.513		
9,400.0	6,150.0	9,476.8	6,290.0	63.1	61.6	-122.47	2,741.4	1,604.7	260.8	153.9	106.87	2.440		
9,500.0	6,150.0	9,576.8	6,290.0	64.7	63.2	-122.47	2,841.4	1,604.6	260.8	150.8	109.99	2.371		
9,600.0	6,150.0	9,676.8	6,290.0	66.3	64.9	-122.47	2,941.4	1,604.4	260.8	147.7	113.13	2.305		
9,700.0	6,150.0	9,776.8	6,290.0	68.0	66.6	-122.47	3,041.4	1,604.3	260.8	144.5	116.27	2.243		
9,800.0	6,150.0	9,876.8	6,290.0	69.7	68.4	-122.47	3,141.4	1,604.1	260.8	141.4	119.43	2.184		
9,900.0	6,150.0	9,976.8	6,290.0	71.3	70.1	-122.47	3,241.4	1,604.0	260.8	138.2	122.59	2.127		
10,000.0	6,150.0	10,076.8	6,290.0	73.1	71.8	-122.47	3,341.4	1,603.8	260.8	135.0	125.77	2.073		
10,100.0	6,150.0	10,176.8	6,290.0	74.8	73.6	-122.47	3,441.4	1,603.7	260.8	131.8	128.95	2.022		
10,200.0	6,150.0	10,276.8	6,290.0	76.5	75.3	-122.47	3,541.4	1,603.5	260.8	128.6	132.14	1.973		
10,300.0	6,150.0	10,376.8	6,290.0	78.2	77.1	-122.47	3,641.4	1,603.4	260.8	125.4	135.34	1.927		

Offset Design										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							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor				
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)					
10,400.0	6,150.0	10,476.8	6,290.0	80.0	78.9	-122.47	3,741.4	1,603.2	260.8	122.2	138.54	1.882				
10,500.0	6,150.0	10,576.8	6,290.0	81.7	80.7	-122.47	3,841.4	1,603.1	260.8	119.0	141.75	1.840				
10,600.0	6,150.0	10,676.8	6,290.0	83.5	82.5	-122.47	3,941.4	1,602.9	260.8	115.8	144.97	1.799				
10,700.0	6,150.0	10,776.8	6,290.0	85.3	84.3	-122.47	4,041.4	1,602.8	260.8	112.6	148.19	1.760				
10,800.0	6,150.0	10,876.8	6,290.0	87.0	86.1	-122.47	4,141.4	1,602.6	260.8	109.4	151.41	1.722				
10,900.0	6,150.0	10,976.8	6,290.0	88.8	87.9	-122.47	4,241.4	1,602.5	260.8	106.1	154.64	1.686				
11,000.0	6,150.0	11,076.8	6,290.0	90.6	89.7	-122.47	4,341.4	1,602.3	260.8	102.9	157.88	1.652				
11,100.0	6,150.0	11,176.8	6,290.0	92.4	91.5	-122.47	4,441.4	1,602.2	260.8	99.7	161.12	1.619				
11,200.0	6,150.0	11,276.8	6,290.0	94.2	93.3	-122.47	4,541.4	1,602.0	260.8	96.4	164.36	1.587				
11,300.0	6,150.0	11,376.8	6,290.0	96.0	95.1	-122.47	4,641.4	1,601.8	260.8	93.2	167.61	1.556				
11,400.0	6,150.0	11,476.8	6,290.0	97.8	97.0	-122.47	4,741.4	1,601.7	260.8	89.9	170.86	1.526				
11,500.0	6,150.0	11,576.8	6,290.0	99.6	98.8	-122.47	4,841.4	1,601.5	260.8	86.7	174.11	1.498	Level 3			
11,600.0	6,150.0	11,676.8	6,290.0	101.5	100.6	-122.47	4,941.4	1,601.4	260.8	83.4	177.37	1.470	Level 3			
11,700.0	6,150.0	11,776.8	6,290.0	103.3	102.5	-122.47	5,041.4	1,601.2	260.8	80.1	180.63	1.444	Level 3			
11,800.0	6,150.0	11,876.8	6,290.0	105.1	104.3	-122.47	5,141.4	1,601.1	260.8	76.9	183.89	1.418	Level 3			
11,900.0	6,150.0	11,976.8	6,290.0	106.9	106.1	-122.47	5,241.4	1,600.9	260.8	73.6	187.15	1.393	Level 3			
12,000.0	6,150.0	12,076.8	6,290.0	108.8	108.0	-122.47	5,341.4	1,600.8	260.8	70.3	190.42	1.369	Level 3			
12,100.0	6,150.0	12,176.8	6,290.0	110.6	109.8	-122.47	5,441.4	1,600.6	260.8	67.1	193.69	1.346	Level 3			
12,200.0	6,150.0	12,276.8	6,290.0	112.4	111.7	-122.47	5,541.4	1,600.5	260.8	63.8	196.96	1.324	Level 3			
12,300.0	6,150.0	12,376.8	6,290.0	114.3	113.5	-122.47	5,641.4	1,600.3	260.8	60.5	200.24	1.302	Level 3			
12,400.0	6,150.0	12,476.8	6,290.0	116.1	115.4	-122.47	5,741.4	1,600.2	260.8	57.3	203.51	1.281	Level 3			
12,500.0	6,150.0	12,576.8	6,290.0	118.0	117.3	-122.47	5,841.4	1,600.0	260.8	54.0	206.79	1.261	Level 3			
12,600.0	6,150.0	12,676.8	6,290.0	119.8	119.1	-122.47	5,941.4	1,599.9	260.8	50.7	210.07	1.241	Level 2			
12,700.0	6,150.0	12,776.8	6,290.0	121.7	121.0	-122.47	6,041.4	1,599.7	260.8	47.4	213.35	1.222	Level 2			
12,800.0	6,150.0	12,876.8	6,290.0	123.5	122.8	-122.47	6,141.4	1,599.6	260.8	44.1	216.63	1.204	Level 2			
12,900.0	6,150.0	12,976.8	6,290.0	125.4	124.7	-122.47	6,241.4	1,599.4	260.8	40.8	219.92	1.186	Level 2			
13,000.0	6,150.0	13,076.8	6,290.0	127.2	126.6	-122.47	6,341.4	1,599.2	260.8	37.6	223.20	1.168	Level 2			
13,100.0	6,150.0	13,176.8	6,290.0	129.1	128.4	-122.47	6,441.4	1,599.1	260.8	34.3	226.49	1.151	Level 2			
13,200.0	6,150.0	13,276.8	6,290.0	131.0	130.3	-122.47	6,541.4	1,598.9	260.8	31.0	229.78	1.135	Level 2			
13,300.0	6,150.0	13,376.8	6,290.0	132.8	132.2	-122.47	6,641.4	1,598.8	260.8	27.7	233.07	1.119	Level 2			
13,400.0	6,150.0	13,476.8	6,290.0	134.7	134.1	-122.47	6,741.4	1,598.6	260.8	24.4	236.36	1.103	Level 2			
13,500.0	6,150.0	13,576.8	6,290.0	136.5	135.9	-122.47	6,841.4	1,598.5	260.8	21.1	239.65	1.088	Level 2			
13,600.0	6,150.0	13,676.8	6,290.0	138.4	137.8	-122.47	6,941.4	1,598.3	260.8	17.8	242.95	1.073	Level 2			
13,700.0	6,150.0	13,776.8	6,290.0	140.3	139.7	-122.47	7,041.4	1,598.2	260.8	14.5	246.24	1.059	Level 2			
13,800.0	6,150.0	13,876.8	6,290.0	142.2	141.6	-122.47	7,141.4	1,598.0	260.8	11.2	249.54	1.045	Level 2			
13,900.0	6,150.0	13,976.8	6,290.0	144.0	143.4	-122.47	7,241.4	1,597.9	260.8	7.9	252.84	1.031	Level 2			
13,954.9	6,150.0	14,031.7	6,290.0	145.1	144.5	-122.47	7,296.3	1,597.8	260.8	6.1	254.65	1.024	Level 2			
13,976.5	6,150.0	14,050.0	6,290.0	145.5	144.8	-122.47	7,314.6	1,597.8	260.8	5.5	255.31	1.021	Level 2, ES, SF			



<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.03	0.0	22.6	22.6					
100.0	100.0	100.0	100.0	0.1	0.1	90.03	0.0	22.6	22.6	22.4	0.22	100.500		
200.0	200.0	200.0	200.0	0.3	0.3	90.03	0.0	22.6	22.6	21.9	0.67	33.500		
300.0	300.0	300.0	300.0	0.6	0.6	90.03	0.0	22.6	22.6	21.5	1.12	20.100		
400.0	400.0	400.0	400.0	0.8	0.8	90.03	0.0	22.6	22.6	21.0	1.57	14.357		
500.0	500.0	500.0	500.0	1.0	1.0	90.03	0.0	22.6	22.6	20.6	2.02	11.167		
600.0	600.0	600.0	600.0	1.2	1.2	90.03	0.0	22.6	22.6	20.1	2.47	9.136		
700.0	700.0	700.0	700.0	1.5	1.5	90.03	0.0	22.6	22.6	19.7	2.92	7.731		
800.0	800.0	800.0	800.0	1.7	1.7	90.03	0.0	22.6	22.6	19.2	3.37	6.700 CC		
900.0	900.0	899.2	899.2	1.9	1.9	91.05	-0.4	24.3	24.3	20.5	3.80	6.381		
1,000.0	1,000.0	998.2	998.0	2.1	2.1	93.40	-1.7	29.2	29.3	25.1	4.23	6.941		
1,100.0	1,100.0	1,096.8	1,096.3	2.3	2.3	-10.90	-3.9	37.5	36.1	31.5	4.63	7.803		
1,200.0	1,199.8	1,195.2	1,194.0	2.5	2.5	-9.66	-6.9	48.9	42.9	37.9	5.02	8.543		
1,300.0	1,299.5	1,293.4	1,291.0	2.8	2.8	-8.89	-10.7	63.6	49.7	44.3	5.43	9.156		
1,400.0	1,398.7	1,391.4	1,387.2	3.0	3.1	-8.41	-15.3	81.5	56.4	50.6	5.84	9.663		
1,500.0	1,497.5	1,489.2	1,482.5	3.3	3.5	-8.13	-20.8	102.4	63.1	56.8	6.26	10.077		
1,600.0	1,595.6	1,586.7	1,576.9	3.6	3.9	-8.00	-27.0	126.5	69.6	63.0	6.69	10.409		
1,700.0	1,693.1	1,684.0	1,670.1	3.9	4.4	-7.97	-34.0	153.6	76.2	69.0	7.14	10.667		
1,800.0	1,789.6	1,781.1	1,762.1	4.4	5.0	-8.02	-41.8	183.6	82.6	75.0	7.61	10.855		
1,900.0	1,885.3	1,878.1	1,852.8	4.9	5.6	-8.13	-50.4	216.6	88.9	80.8	8.09	10.989		
2,000.0	1,979.8	1,975.4	1,942.7	5.4	6.3	-8.30	-59.8	252.7	95.1	86.5	8.61	11.050		
2,100.0	2,073.2	2,075.3	2,034.6	6.1	7.1	-8.68	-69.7	290.6	99.0	89.8	9.16	10.807		
2,200.0	2,165.5	2,175.3	2,126.5	6.8	7.9	-9.28	-79.5	328.7	100.2	90.4	9.79	10.237		
2,300.0	2,257.9	2,275.3	2,218.5	7.5	8.7	-9.88	-89.4	366.7	101.2	90.8	10.46	9.676		
2,400.0	2,350.2	2,375.3	2,310.4	8.3	9.5	-10.46	-99.3	404.7	102.3	91.2	11.16	9.166		
2,500.0	2,442.5	2,475.3	2,402.4	9.0	10.3	-11.04	-109.2	442.7	103.4	91.5	11.88	8.701		
2,600.0	2,534.8	2,575.2	2,494.4	9.8	11.1	-11.60	-119.0	480.7	104.5	91.9	12.63	8.277		
2,700.0	2,627.1	2,675.2	2,586.3	10.6	11.9	-12.15	-128.9	518.7	105.6	92.2	13.39	7.888		
2,800.0	2,719.4	2,775.2	2,678.3	11.4	12.7	-12.69	-138.8	556.7	106.7	92.6	14.17	7.533		
2,900.0	2,811.7	2,875.2	2,770.2	12.2	13.6	-13.22	-148.7	594.7	107.9	92.9	14.97	7.207		
3,000.0	2,904.0	2,975.2	2,862.2	13.0	14.4	-13.74	-158.5	632.8	109.0	93.2	15.78	6.906		
3,100.0	2,996.3	3,075.2	2,954.1	13.8	15.2	-14.25	-168.4	670.8	110.1	93.5	16.61	6.629		
3,200.0	3,088.6	3,175.2	3,046.1	14.6	16.1	-14.74	-178.3	708.8	111.3	93.8	17.46	6.373		
3,300.0	3,180.9	3,275.2	3,138.0	15.4	16.9	-15.23	-188.2	746.8	112.4	94.1	18.33	6.136		
3,400.0	3,273.3	3,375.2	3,230.0	16.2	17.8	-15.70	-198.0	784.8	113.6	94.4	19.20	5.916		
3,500.0	3,365.6	3,475.1	3,321.9	17.1	18.6	-16.17	-207.9	822.8	114.8	94.7	20.10	5.712		
3,600.0	3,457.9	3,575.1	3,413.9	17.9	19.4	-16.63	-217.8	860.8	116.0	95.0	21.01	5.521		
3,700.0	3,550.2	3,675.1	3,505.8	18.7	20.3	-17.08	-227.7	898.9	117.2	95.2	21.93	5.343		
3,800.0	3,642.5	3,775.1	3,597.8	19.5	21.1	-17.52	-237.5	936.9	118.4	95.5	22.86	5.177		
3,900.0	3,734.8	3,875.1	3,689.7	20.3	22.0	-17.95	-247.4	974.9	119.6	95.8	23.81	5.021		
4,000.0	3,827.1	3,975.1	3,781.7	21.2	22.8	-18.37	-257.3	1,012.9	120.8	96.0	24.78	4.875		
4,100.0	3,919.4	4,075.1	3,873.6	22.0	23.7	-18.78	-267.2	1,050.9	122.0	96.3	25.75	4.738		
4,200.0	4,011.7	4,175.1	3,965.6	22.8	24.5	-19.18	-277.0	1,088.9	123.2	96.5	26.74	4.609		
4,300.0	4,104.0	4,275.1	4,057.5	23.6	25.4	-19.58	-286.9	1,126.9	124.5	96.7	27.73	4.488		
4,400.0	4,196.4	4,375.0	4,149.5	24.5	26.2	-19.97	-296.8	1,164.9	125.7	97.0	28.74	4.373		
4,500.0	4,288.7	4,475.0	4,241.4	25.3	27.1	-20.35	-306.7	1,203.0	126.9	97.2	29.76	4.265		
4,600.0	4,381.0	4,575.0	4,333.4	26.1	27.9	-20.73	-316.6	1,241.0	128.2	97.4	30.79	4.163		
4,700.0	4,473.3	4,675.0	4,425.3	26.9	28.7	-21.09	-326.4	1,279.0	129.4	97.6	31.83	4.066		
4,800.0	4,565.6	4,775.0	4,517.3	27.8	29.6	-21.45	-336.3	1,317.0	130.7	97.8	32.89	3.974		
4,900.0	4,657.9	4,875.0	4,609.3	28.6	30.4	-21.80	-346.2	1,355.0	132.0	98.0	33.95	3.887		
5,000.0	4,750.2	4,975.0	4,701.2	29.4	31.3	-22.15	-356.1	1,393.0	133.2	98.2	35.02	3.805		
5,100.0	4,842.5	5,075.0	4,793.2	30.3	32.1	-22.49	-365.9	1,431.0	134.5	98.4	36.10	3.726		

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

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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	4,934.8	5,174.9	4,885.1	31.1	33.0	-22.82	-375.8	1,469.1	135.8	98.6	37.19	3.651	
5,300.0	5,027.1	5,274.9	4,977.1	31.9	33.8	-23.15	-385.7	1,507.1	137.1	98.8	38.28	3.580	
5,400.0	5,119.5	5,374.9	5,069.0	32.7	34.7	-23.47	-395.6	1,545.1	138.3	99.0	39.39	3.512	
5,500.0	5,211.8	5,474.9	5,161.0	33.6	35.5	-23.79	-405.4	1,583.1	139.6	99.1	40.50	3.447	
5,600.0	5,304.1	5,574.9	5,252.9	34.4	36.4	-24.10	-415.3	1,621.1	140.9	99.3	41.63	3.386	
5,700.0	5,396.4	5,674.9	5,344.9	35.2	37.2	-24.40	-425.2	1,659.1	142.2	99.5	42.76	3.327	
5,800.0	5,489.0	5,774.7	5,436.7	36.0	38.1	-6.75	-435.1	1,697.1	142.8	100.3	42.58	3.354	
5,870.5	5,554.4	5,844.4	5,500.7	36.4	38.7	11.35	-441.9	1,723.6	142.6	102.2	40.43	3.528	
5,900.0	5,581.5	5,873.1	5,527.2	36.6	38.9	19.25	-444.8	1,734.5	142.7	103.5	39.26	3.636	
6,000.0	5,672.2	5,970.4	5,616.8	37.1	39.7	45.14	-451.9	1,771.5	146.4	110.3	36.08	4.057	
6,100.0	5,759.2	6,071.8	5,710.3	37.6	40.4	66.15	-446.4	1,810.2	155.7	119.5	36.22	4.298	
6,200.0	5,840.8	6,178.1	5,806.5	37.9	41.0	82.36	-425.4	1,849.9	169.4	131.5	37.95	4.464	
6,300.0	5,915.5	6,289.7	5,903.2	38.3	41.5	94.69	-387.1	1,889.8	186.0	146.9	39.11	4.755	
6,400.0	5,981.9	6,407.1	5,997.8	38.5	42.0	103.99	-329.7	1,928.8	203.7	164.9	38.80	5.249	
6,500.0	6,038.6	6,530.5	6,086.5	38.7	42.4	110.91	-252.2	1,965.3	220.9	183.8	37.02	5.966	
6,600.0	6,084.5	6,660.0	6,164.9	38.8	42.7	115.94	-154.6	1,997.5	236.2	202.0	34.22	6.903	
6,700.0	6,118.7	6,794.8	6,227.9	38.9	42.9	119.42	-38.4	2,023.4	248.5	217.4	31.14	7.980	
6,800.0	6,140.6	6,933.9	6,270.6	39.0	43.1	121.54	92.5	2,040.9	256.9	228.1	28.75	8.934	
6,900.0	6,149.7	7,075.6	6,289.3	39.1	43.2	122.43	232.6	2,048.4	260.6	232.6	28.03	9.297	
7,000.0	6,150.0	7,185.2	6,290.0	39.1	43.2	122.47	342.1	2,048.5	260.8	231.9	28.91	9.022	
7,100.0	6,150.0	7,285.2	6,290.0	39.3	43.4	122.47	442.1	2,048.3	260.8	230.5	30.27	8.616	
7,200.0	6,150.0	7,385.2	6,290.0	39.5	43.5	122.47	542.1	2,048.2	260.8	228.9	31.91	8.172	
7,300.0	6,150.0	7,485.2	6,290.0	39.8	43.8	122.47	642.1	2,048.0	260.8	227.0	33.81	7.713	
7,400.0	6,150.0	7,585.2	6,290.0	40.1	44.1	122.47	742.1	2,047.9	260.8	224.9	35.92	7.261	
7,500.0	6,150.0	7,685.2	6,290.0	40.6	44.4	122.47	842.1	2,047.7	260.8	222.6	38.20	6.827	
7,600.0	6,150.0	7,785.2	6,290.0	41.1	44.9	122.47	942.1	2,047.5	260.8	220.2	40.63	6.419	
7,700.0	6,150.0	7,885.2	6,290.0	41.7	45.4	122.47	1,042.1	2,047.4	260.8	217.6	43.17	6.040	
7,800.0	6,150.0	7,985.2	6,290.0	42.4	46.0	122.47	1,142.1	2,047.2	260.8	214.9	45.82	5.691	
7,900.0	6,150.0	8,085.2	6,290.0	43.2	46.7	122.47	1,242.1	2,047.1	260.8	212.2	48.56	5.370	
8,000.0	6,150.0	8,185.2	6,290.0	44.1	47.4	122.47	1,342.1	2,046.9	260.8	209.4	51.36	5.077	
8,100.0	6,150.0	8,285.2	6,290.0	45.1	48.3	122.47	1,442.1	2,046.8	260.8	206.5	54.22	4.809	
8,200.0	6,150.0	8,385.2	6,290.0	46.1	49.2	122.47	1,542.1	2,046.6	260.8	203.6	57.14	4.564	
8,300.0	6,150.0	8,485.2	6,290.0	47.3	50.2	122.47	1,642.1	2,046.4	260.8	200.7	60.10	4.339	
8,400.0	6,150.0	8,585.2	6,290.0	48.5	51.3	122.47	1,742.1	2,046.3	260.8	197.7	63.09	4.133	
8,500.0	6,150.0	8,685.2	6,290.0	49.7	52.4	122.47	1,842.1	2,046.1	260.8	194.6	66.12	3.943	
8,600.0	6,150.0	8,785.2	6,290.0	51.1	53.6	122.47	1,942.1	2,046.0	260.7	191.6	69.18	3.769	
8,700.0	6,150.0	8,885.2	6,290.0	52.4	54.9	122.47	2,042.1	2,045.8	260.7	188.5	72.26	3.608	
8,800.0	6,150.0	8,985.2	6,290.0	53.8	56.2	122.47	2,142.1	2,045.7	260.7	185.4	75.36	3.460	
8,900.0	6,150.0	9,085.2	6,290.0	55.3	57.6	122.48	2,242.1	2,045.5	260.7	182.3	78.48	3.322	
9,000.0	6,150.0	9,185.2	6,290.0	56.8	59.0	122.48	2,342.1	2,045.3	260.7	179.1	81.62	3.194	
9,100.0	6,150.0	9,285.2	6,290.0	58.3	60.4	122.48	2,442.1	2,045.2	260.7	176.0	84.78	3.076	
9,200.0	6,150.0	9,385.2	6,290.0	59.9	61.9	122.48	2,542.1	2,045.0	260.7	172.8	87.94	2.965	
9,300.0	6,150.0	9,485.2	6,290.0	61.4	63.4	122.48	2,642.1	2,044.9	260.7	169.6	91.12	2.861	
9,400.0	6,150.0	9,585.2	6,290.0	63.1	64.9	122.48	2,742.1	2,044.7	260.7	166.4	94.31	2.765	
9,500.0	6,150.0	9,685.2	6,290.0	64.7	66.5	122.48	2,842.1	2,044.6	260.7	163.2	97.51	2.674	
9,600.0	6,150.0	9,785.2	6,290.0	66.3	68.1	122.48	2,942.1	2,044.4	260.7	160.0	100.71	2.589	
9,700.0	6,150.0	9,885.2	6,290.0	68.0	69.7	122.48	3,042.1	2,044.2	260.7	156.8	103.93	2.509	
9,800.0	6,150.0	9,985.2	6,290.0	69.7	71.3	122.48	3,142.1	2,044.1	260.7	153.6	107.15	2.433	
9,900.0	6,150.0	10,085.2	6,290.0	71.3	72.9	122.48	3,242.1	2,043.9	260.7	150.3	110.38	2.362	
10,000.0	6,150.0	10,185.2	6,290.0	73.1	74.6	122.48	3,342.1	2,043.8	260.7	147.1	113.61	2.295	
10,100.0	6,150.0	10,285.2	6,290.0	74.8	76.3	122.48	3,442.1	2,043.6	260.7	143.8	116.86	2.231	
10,200.0	6,150.0	10,385.2	6,290.0	76.5	78.0	122.48	3,542.1	2,043.5	260.7	140.6	120.10	2.171	

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

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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	6,150.0	10,485.2	6,290.0	78.2	79.7	122.48	3,642.1	2,043.3	260.7	137.3	123.35	2.113	
10,400.0	6,150.0	10,585.2	6,290.0	80.0	81.4	122.48	3,742.1	2,043.1	260.7	134.1	126.60	2.059	
10,500.0	6,150.0	10,685.2	6,290.0	81.7	83.1	122.48	3,842.1	2,043.0	260.7	130.8	129.86	2.007	
10,600.0	6,150.0	10,785.2	6,290.0	83.5	84.8	122.48	3,942.1	2,042.8	260.7	127.6	133.13	1.958	
10,700.0	6,150.0	10,885.2	6,290.0	85.3	86.6	122.48	4,042.1	2,042.7	260.7	124.3	136.39	1.911	
10,800.0	6,150.0	10,985.2	6,290.0	87.0	88.3	122.48	4,142.1	2,042.5	260.7	121.0	139.66	1.867	
10,900.0	6,150.0	11,085.2	6,290.0	88.8	90.1	122.48	4,242.1	2,042.4	260.7	117.7	142.93	1.824	
11,000.0	6,150.0	11,185.2	6,290.0	90.6	91.8	122.48	4,342.1	2,042.2	260.7	114.5	146.20	1.783	
11,100.0	6,150.0	11,285.2	6,290.0	92.4	93.6	122.48	4,442.1	2,042.0	260.7	111.2	149.48	1.744	
11,200.0	6,150.0	11,385.2	6,290.0	94.2	95.4	122.48	4,542.1	2,041.9	260.7	107.9	152.76	1.706	
11,300.0	6,150.0	11,485.2	6,290.0	96.0	97.2	122.49	4,642.1	2,041.7	260.7	104.6	156.04	1.671	
11,400.0	6,150.0	11,585.2	6,290.0	97.8	98.9	122.49	4,742.1	2,041.6	260.7	101.3	159.33	1.636	
11,500.0	6,150.0	11,685.2	6,290.0	99.6	100.7	122.49	4,842.1	2,041.4	260.7	98.1	162.61	1.603	
11,600.0	6,150.0	11,785.2	6,290.0	101.5	102.5	122.49	4,942.1	2,041.3	260.7	94.8	165.90	1.571	
11,700.0	6,150.0	11,885.2	6,290.0	103.3	104.3	122.49	5,042.1	2,041.1	260.7	91.5	169.19	1.541	
11,800.0	6,150.0	11,985.2	6,290.0	105.1	106.1	122.49	5,142.1	2,040.9	260.7	88.2	172.48	1.511	
11,900.0	6,150.0	12,085.2	6,290.0	106.9	108.0	122.49	5,242.1	2,040.8	260.7	84.9	175.77	1.483	Level 3
12,000.0	6,150.0	12,185.2	6,290.0	108.8	109.8	122.49	5,342.1	2,040.6	260.6	81.6	179.06	1.456	Level 3
12,100.0	6,150.0	12,285.2	6,290.0	110.6	111.6	122.49	5,442.1	2,040.5	260.6	78.3	182.36	1.429	Level 3
12,200.0	6,150.0	12,385.2	6,290.0	112.4	113.4	122.49	5,542.1	2,040.3	260.6	75.0	185.66	1.404	Level 3
12,300.0	6,150.0	12,485.2	6,290.0	114.3	115.2	122.49	5,642.1	2,040.2	260.6	71.7	188.95	1.379	Level 3
12,400.0	6,150.0	12,585.2	6,290.0	116.1	117.1	122.49	5,742.1	2,040.0	260.6	68.4	192.25	1.356	Level 3
12,500.0	6,150.0	12,685.2	6,290.0	118.0	118.9	122.49	5,842.1	2,039.8	260.6	65.1	195.55	1.333	Level 3
12,600.0	6,150.0	12,785.2	6,290.0	119.8	120.7	122.49	5,942.1	2,039.7	260.6	61.8	198.85	1.311	Level 3
12,700.0	6,150.0	12,885.2	6,290.0	121.7	122.6	122.49	6,042.1	2,039.5	260.6	58.5	202.16	1.289	Level 3
12,800.0	6,150.0	12,985.2	6,290.0	123.5	124.4	122.49	6,142.1	2,039.4	260.6	55.2	205.46	1.268	Level 3
12,900.0	6,150.0	13,085.2	6,290.0	125.4	126.3	122.49	6,242.1	2,039.2	260.6	51.9	208.76	1.248	Level 2
13,000.0	6,150.0	13,185.2	6,290.0	127.2	128.1	122.49	6,342.1	2,039.1	260.6	48.6	212.07	1.229	Level 2
13,100.0	6,150.0	13,285.2	6,290.0	129.1	129.9	122.49	6,442.1	2,038.9	260.6	45.2	215.37	1.210	Level 2
13,200.0	6,150.0	13,385.2	6,290.0	131.0	131.8	122.49	6,542.1	2,038.7	260.6	41.9	218.68	1.192	Level 2
13,300.0	6,150.0	13,485.2	6,290.0	132.8	133.6	122.49	6,642.1	2,038.6	260.6	38.6	221.99	1.174	Level 2
13,400.0	6,150.0	13,585.2	6,290.0	134.7	135.5	122.49	6,742.1	2,038.4	260.6	35.3	225.29	1.157	Level 2
13,500.0	6,150.0	13,685.2	6,290.0	136.5	137.4	122.49	6,842.1	2,038.3	260.6	32.0	228.60	1.140	Level 2
13,600.0	6,150.0	13,785.2	6,290.0	138.4	139.2	122.49	6,942.1	2,038.1	260.6	28.7	231.91	1.124	Level 2
13,700.0	6,150.0	13,885.2	6,290.0	140.3	141.1	122.50	7,042.1	2,038.0	260.6	25.4	235.22	1.108	Level 2
13,800.0	6,150.0	13,985.2	6,290.0	142.2	142.9	122.50	7,142.1	2,037.8	260.6	22.1	238.53	1.092	Level 2
13,900.0	6,150.0	14,085.2	6,290.0	144.0	144.8	122.50	7,242.1	2,037.6	260.6	18.7	241.84	1.078	Level 2
13,905.3	6,150.0	14,090.5	6,290.0	144.1	144.9	122.50	7,247.4	2,037.6	260.6	18.6	242.02	1.077	Level 2
13,976.5	6,150.0	14,161.0	6,290.0	145.5	146.2	122.47	7,318.0	2,037.7	260.7	16.3	244.42	1.067	Level 2, ES, SF

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.54	0.4	44.9	44.9					
100.0	100.0	100.0	100.0	0.1	0.1	89.54	0.4	44.9	44.9	44.7	0.22	199.766		
200.0	200.0	200.0	200.0	0.3	0.3	89.54	0.4	44.9	44.9	44.2	0.67	66.589		
300.0	300.0	300.0	300.0	0.6	0.6	89.54	0.4	44.9	44.9	43.8	1.12	39.953		
400.0	400.0	400.0	400.0	0.8	0.8	89.54	0.4	44.9	44.9	43.3	1.57	28.538		
500.0	500.0	500.0	500.0	1.0	1.0	89.54	0.4	44.9	44.9	42.9	2.02	22.196		
600.0	600.0	600.0	600.0	1.2	1.2	89.54	0.4	44.9	44.9	42.4	2.47	18.161 CC, ES		
700.0	700.0	698.5	698.4	1.5	1.4	90.03	0.0	46.5	46.6	43.7	2.90	16.041		
800.0	800.0	796.7	796.5	1.7	1.6	91.31	-1.2	51.5	51.6	48.3	3.33	15.500		
900.0	900.0	894.5	893.9	1.9	1.9	92.97	-3.1	59.6	60.0	56.2	3.77	15.913		
1,000.0	1,000.0	991.5	990.3	2.1	2.1	94.64	-5.8	70.9	71.8	67.6	4.24	16.952		
1,100.0	1,100.0	1,088.0	1,085.6	2.3	2.4	-10.39	-9.1	85.3	85.2	80.6	4.62	18.458		
1,200.0	1,199.8	1,184.0	1,180.0	2.5	2.7	-9.54	-13.2	102.7	98.6	93.6	5.03	19.619		
1,300.0	1,299.5	1,279.6	1,273.3	2.8	3.1	-8.99	-18.0	123.0	111.9	106.5	5.45	20.548		
1,400.0	1,398.7	1,374.9	1,365.4	3.0	3.5	-8.64	-23.5	146.3	125.1	119.2	5.88	21.283		
1,500.0	1,497.5	1,469.7	1,456.4	3.3	4.0	-8.44	-29.6	172.4	138.1	131.7	6.32	21.849		
1,600.0	1,595.6	1,564.1	1,546.0	3.6	4.6	-8.34	-36.4	201.3	150.9	144.1	6.78	22.266		
1,700.0	1,693.1	1,658.2	1,634.3	3.9	5.2	-8.31	-43.9	233.0	163.6	156.3	7.24	22.577		
1,800.0	1,789.6	1,751.8	1,721.1	4.4	5.9	-8.35	-51.9	267.3	176.0	168.3	7.74	22.737		
1,900.0	1,885.3	1,846.5	1,807.5	4.9	6.6	-8.44	-60.7	304.7	188.3	180.0	8.26	22.792		
2,000.0	1,979.8	1,944.5	1,896.4	5.4	7.4	-8.63	-70.2	345.0	198.8	190.0	8.81	22.556		
2,100.0	2,073.2	2,044.3	1,986.9	6.1	8.3	-8.95	-79.8	385.9	205.9	196.5	9.40	21.911		
2,200.0	2,165.5	2,144.2	2,077.5	6.8	9.2	-9.38	-89.4	426.9	210.3	200.3	10.05	20.929		
2,300.0	2,257.9	2,244.1	2,168.1	7.5	10.1	-9.81	-99.1	467.9	214.6	203.9	10.74	19.975		
2,400.0	2,350.2	2,344.0	2,258.6	8.3	11.0	-10.22	-108.7	508.9	218.9	207.5	11.46	19.107		
2,500.0	2,442.5	2,443.8	2,349.2	9.0	11.9	-10.62	-118.4	549.8	223.3	211.1	12.19	18.318		
2,600.0	2,534.8	2,543.7	2,439.8	9.8	12.8	-11.00	-128.0	590.8	227.6	214.7	12.93	17.597		
2,700.0	2,627.1	2,643.6	2,530.4	10.6	13.7	-11.37	-137.6	631.8	232.0	218.3	13.69	16.939		
2,800.0	2,719.4	2,743.5	2,621.0	11.4	14.6	-11.72	-147.3	672.8	236.3	221.8	14.47	16.336		
2,900.0	2,811.7	2,843.4	2,711.6	12.2	15.5	-12.06	-156.9	713.8	240.7	225.4	15.25	15.783		
3,000.0	2,904.0	2,943.3	2,802.2	13.0	16.4	-12.39	-166.5	754.8	245.0	229.0	16.04	15.274		
3,100.0	2,996.3	3,043.2	2,892.8	13.8	17.3	-12.71	-176.2	795.8	249.4	232.6	16.85	14.804		
3,200.0	3,088.6	3,143.1	2,983.3	14.6	18.2	-13.01	-185.8	836.8	253.8	236.2	17.66	14.370		
3,300.0	3,180.9	3,243.0	3,073.9	15.4	19.1	-13.31	-195.5	877.8	258.2	239.7	18.49	13.968		
3,400.0	3,273.3	3,342.9	3,164.5	16.2	20.0	-13.59	-205.1	918.7	262.6	243.3	19.32	13.594		
3,500.0	3,365.6	3,442.8	3,255.1	17.1	20.9	-13.87	-214.7	959.7	267.0	246.9	20.16	13.246		
3,600.0	3,457.9	3,542.7	3,345.7	17.9	21.8	-14.14	-224.4	1,000.7	271.4	250.4	21.01	12.922		
3,700.0	3,550.2	3,642.6	3,436.3	18.7	22.8	-14.40	-234.0	1,041.7	275.9	254.0	21.86	12.619		
3,800.0	3,642.5	3,742.5	3,526.9	19.5	23.7	-14.65	-243.6	1,082.7	280.3	257.6	22.72	12.335		
3,900.0	3,734.8	3,842.4	3,617.5	20.3	24.6	-14.89	-253.3	1,123.7	284.7	261.1	23.59	12.069		
4,000.0	3,827.1	3,942.3	3,708.0	21.2	25.5	-15.12	-262.9	1,164.7	289.1	264.7	24.46	11.819		
4,100.0	3,919.4	4,042.2	3,798.6	22.0	26.4	-15.35	-272.6	1,205.7	293.6	268.2	25.34	11.583		
4,200.0	4,011.7	4,142.1	3,889.2	22.8	27.3	-15.57	-282.2	1,246.6	298.0	271.8	26.23	11.362		
4,300.0	4,104.0	4,242.0	3,979.8	23.6	28.3	-15.79	-291.8	1,287.6	302.5	275.4	27.12	11.152		
4,400.0	4,196.4	4,341.8	4,070.4	24.5	29.2	-16.00	-301.5	1,328.6	306.9	278.9	28.02	10.954		
4,500.0	4,288.7	4,441.7	4,161.0	25.3	30.1	-16.20	-311.1	1,369.6	311.4	282.5	28.92	10.767		
4,600.0	4,381.0	4,541.6	4,251.6	26.1	31.0	-16.40	-320.7	1,410.6	315.8	286.0	29.83	10.590		
4,700.0	4,473.3	4,641.5	4,342.1	26.9	31.9	-16.59	-330.4	1,451.6	320.3	289.6	30.74	10.421		
4,800.0	4,565.6	4,741.4	4,432.7	27.8	32.8	-16.77	-340.0	1,492.6	324.8	293.1	31.65	10.261		
4,900.0	4,657.9	4,841.3	4,523.3	28.6	33.8	-16.95	-349.6	1,533.6	329.2	296.7	32.57	10.109		
5,000.0	4,750.2	4,941.2	4,613.9	29.4	34.7	-17.13	-359.3	1,574.6	333.7	300.2	33.49	9.964		
5,100.0	4,842.5	5,041.1	4,704.5	30.3	35.6	-17.30	-368.9	1,615.5	338.2	303.8	34.42	9.825		

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

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,200.0	4,934.8	5,141.0	4,795.1	31.1	36.5	-17.47	-378.6	1,656.5	342.7	307.3	35.35	9.694	
5,300.0	5,027.1	5,240.9	4,885.7	31.9	37.4	-17.63	-388.2	1,697.5	347.2	310.9	36.28	9.568	
5,400.0	5,119.5	5,340.8	4,976.3	32.7	38.4	-17.79	-397.8	1,738.5	351.6	314.4	37.22	9.447	
5,500.0	5,211.8	5,440.7	5,066.8	33.6	39.3	-17.95	-407.5	1,779.5	356.1	318.0	38.16	9.332	
5,600.0	5,304.1	5,540.6	5,157.4	34.4	40.2	-18.10	-417.1	1,820.5	360.6	321.5	39.11	9.221	
5,700.0	5,396.4	5,640.5	5,248.0	35.2	41.1	-18.24	-426.7	1,861.5	365.1	325.1	40.05	9.116	
5,800.0	5,489.0	5,740.2	5,338.5	36.0	42.0	-1.83	-436.4	1,902.4	369.4	328.7	40.65	9.086	
5,900.0	5,581.5	5,838.6	5,427.7	36.6	42.9	19.57	-445.9	1,942.8	373.4	333.4	40.01	9.333	
6,000.0	5,672.2	5,937.0	5,517.2	37.1	43.7	38.11	-449.5	1,983.2	378.6	339.6	38.97	9.714	
6,100.0	5,759.2	6,039.0	5,609.6	37.6	44.4	52.10	-439.1	2,025.0	385.2	346.9	38.33	10.049	
6,200.0	5,840.8	6,145.1	5,703.3	37.9	45.1	62.55	-413.2	2,067.4	393.0	354.9	38.11	10.312	
6,300.0	5,915.5	6,255.6	5,796.0	38.3	45.7	70.49	-370.3	2,109.2	401.6	363.4	38.23	10.506	
6,400.0	5,981.9	6,370.8	5,885.0	38.5	46.2	76.63	-309.6	2,149.4	410.6	372.0	38.53	10.655	
6,500.0	6,038.6	6,490.6	5,967.0	38.7	46.6	81.39	-230.7	2,186.4	419.2	380.3	38.90	10.777	
6,600.0	6,084.5	6,614.8	6,038.2	38.8	47.0	84.99	-134.2	2,218.4	427.0	387.7	39.30	10.865	
6,700.0	6,118.7	6,743.1	6,094.6	38.9	47.2	87.59	-22.0	2,243.8	433.3	393.5	39.79	10.889	
6,800.0	6,140.6	6,874.5	6,132.6	39.0	47.4	89.23	102.4	2,260.7	437.6	397.1	40.52	10.801	
6,900.0	6,149.7	7,007.8	6,149.3	39.1	47.4	89.96	234.2	2,268.1	439.7	398.1	41.61	10.565	
7,000.0	6,150.0	7,116.0	6,150.0	39.1	47.5	90.00	342.4	2,268.2	439.8	397.1	42.73	10.293	
7,100.0	6,150.0	7,216.0	6,150.0	39.3	47.6	90.00	442.4	2,268.1	439.8	395.5	44.28	9.933	
7,200.0	6,150.0	7,316.0	6,150.0	39.5	47.7	90.00	542.4	2,267.9	439.8	393.7	46.09	9.541	
7,300.0	6,150.0	7,416.0	6,150.0	39.8	47.9	90.00	642.4	2,267.8	439.8	391.6	48.15	9.134	
7,400.0	6,150.0	7,516.0	6,150.0	40.1	48.2	90.00	742.4	2,267.6	439.8	389.4	50.42	8.724	
7,500.0	6,150.0	7,616.0	6,150.0	40.6	48.5	90.00	842.4	2,267.5	439.8	386.9	52.86	8.320	
7,600.0	6,150.0	7,716.0	6,150.0	41.1	48.9	90.00	942.4	2,267.3	439.8	384.3	55.47	7.929	
7,700.0	6,150.0	7,816.0	6,150.0	41.7	49.3	90.00	1,042.4	2,267.2	439.8	381.6	58.21	7.555	
7,800.0	6,150.0	7,916.0	6,150.0	42.4	49.8	90.00	1,142.4	2,267.0	439.8	378.7	61.07	7.201	
7,900.0	6,150.0	8,016.0	6,150.0	43.2	50.4	90.00	1,242.4	2,266.9	439.8	375.8	64.04	6.868	
8,000.0	6,150.0	8,116.0	6,150.0	44.1	51.0	90.00	1,342.4	2,266.7	439.8	372.7	67.09	6.556	
8,100.0	6,150.0	8,216.0	6,150.0	45.1	51.8	90.00	1,442.4	2,266.6	439.8	369.6	70.22	6.264	
8,200.0	6,150.0	8,316.0	6,150.0	46.1	52.5	90.00	1,542.4	2,266.4	439.8	366.4	73.42	5.991	
8,300.0	6,150.0	8,416.0	6,150.0	47.3	53.4	90.00	1,642.4	2,266.3	439.8	363.2	76.67	5.736	
8,400.0	6,150.0	8,516.0	6,150.0	48.5	54.3	90.00	1,742.4	2,266.1	439.8	359.8	79.98	5.499	
8,500.0	6,150.0	8,616.0	6,150.0	49.7	55.3	90.00	1,842.4	2,266.0	439.8	356.5	83.34	5.278	
8,600.0	6,150.0	8,716.0	6,150.0	51.1	56.4	90.00	1,942.4	2,265.8	439.8	353.1	86.73	5.071	
8,700.0	6,150.0	8,816.0	6,150.0	52.4	57.5	90.00	2,042.4	2,265.7	439.8	349.7	90.16	4.878	
8,800.0	6,150.0	8,916.0	6,150.0	53.8	58.7	90.00	2,142.4	2,265.5	439.8	346.2	93.62	4.698	
8,900.0	6,150.0	9,016.0	6,150.0	55.3	60.0	90.00	2,242.4	2,265.4	439.8	342.7	97.11	4.529	
9,000.0	6,150.0	9,116.0	6,150.0	56.8	61.2	90.00	2,342.4	2,265.2	439.8	339.2	100.63	4.371	
9,100.0	6,150.0	9,216.0	6,150.0	58.3	62.6	90.00	2,442.4	2,265.1	439.8	335.7	104.17	4.222	
9,200.0	6,150.0	9,316.0	6,150.0	59.9	64.0	90.00	2,542.4	2,264.9	439.8	332.1	107.73	4.083	
9,300.0	6,150.0	9,416.0	6,150.0	61.4	65.4	90.00	2,642.4	2,264.8	439.8	328.5	111.31	3.952	
9,400.0	6,150.0	9,516.0	6,150.0	63.1	66.8	90.00	2,742.4	2,264.6	439.8	324.9	114.90	3.828	
9,500.0	6,150.0	9,616.0	6,150.0	64.7	68.3	90.00	2,842.4	2,264.5	439.9	321.3	118.52	3.711	
9,600.0	6,150.0	9,716.0	6,150.0	66.3	69.8	90.00	2,942.4	2,264.3	439.9	317.7	122.14	3.601	
9,700.0	6,150.0	9,816.0	6,150.0	68.0	71.3	90.00	3,042.4	2,264.2	439.9	314.1	125.78	3.497	
9,800.0	6,150.0	9,916.0	6,150.0	69.7	72.9	90.00	3,142.4	2,264.0	439.9	310.4	129.43	3.398	
9,900.0	6,150.0	10,016.0	6,150.0	71.3	74.5	90.00	3,242.4	2,263.9	439.9	306.8	133.09	3.305	
10,000.0	6,150.0	10,116.0	6,150.0	73.1	76.1	90.00	3,342.4	2,263.7	439.9	303.1	136.76	3.216	
10,100.0	6,150.0	10,216.0	6,150.0	74.8	77.7	90.00	3,442.4	2,263.6	439.9	299.4	140.44	3.132	
10,200.0	6,150.0	10,316.0	6,150.0	76.5	79.3	90.00	3,542.4	2,263.4	439.9	295.7	144.13	3.052	
10,300.0	6,150.0	10,416.0	6,150.0	78.2	81.0	90.00	3,642.4	2,263.3	439.9	292.0	147.82	2.976	

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

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,400.0	6,150.0	10,516.0	6,150.0	80.0	82.6	90.00	3,742.4	2,263.1	439.9	288.3	151.52	2.903	
10,500.0	6,150.0	10,616.0	6,150.0	81.7	84.3	90.00	3,842.4	2,263.0	439.9	284.6	155.23	2.834	
10,600.0	6,150.0	10,716.0	6,150.0	83.5	86.0	90.00	3,942.4	2,262.8	439.9	280.9	158.95	2.767	
10,700.0	6,150.0	10,816.0	6,150.0	85.3	87.7	90.00	4,042.4	2,262.6	439.9	277.2	162.67	2.704	
10,800.0	6,150.0	10,916.0	6,150.0	87.0	89.4	90.00	4,142.4	2,262.5	439.9	273.5	166.40	2.644	
10,900.0	6,150.0	11,016.0	6,150.0	88.8	91.1	90.00	4,242.4	2,262.3	439.9	269.8	170.13	2.586	
11,000.0	6,150.0	11,116.0	6,150.0	90.6	92.9	90.00	4,342.4	2,262.2	439.9	266.0	173.87	2.530	
11,100.0	6,150.0	11,216.0	6,150.0	92.4	94.6	90.00	4,442.4	2,262.0	439.9	262.3	177.61	2.477	
11,200.0	6,150.0	11,316.0	6,150.0	94.2	96.4	90.00	4,542.4	2,261.9	439.9	258.5	181.36	2.426	
11,300.0	6,150.0	11,416.0	6,150.0	96.0	98.1	90.00	4,642.4	2,261.7	439.9	254.8	185.10	2.376	
11,400.0	6,150.0	11,516.0	6,150.0	97.8	99.9	90.00	4,742.4	2,261.6	439.9	251.0	188.86	2.329	
11,500.0	6,150.0	11,616.0	6,150.0	99.6	101.7	90.00	4,842.4	2,261.4	439.9	247.3	192.61	2.284	
11,600.0	6,150.0	11,716.0	6,150.0	101.5	103.4	90.00	4,942.4	2,261.3	439.9	243.5	196.37	2.240	
11,700.0	6,150.0	11,816.0	6,150.0	103.3	105.2	90.00	5,042.4	2,261.1	439.9	239.8	200.14	2.198	
11,800.0	6,150.0	11,916.0	6,150.0	105.1	107.0	90.00	5,142.4	2,261.0	439.9	236.0	203.90	2.157	
11,900.0	6,150.0	12,016.0	6,150.0	106.9	108.8	90.00	5,242.4	2,260.8	439.9	232.2	207.67	2.118	
12,000.0	6,150.0	12,116.0	6,150.0	108.8	110.6	90.00	5,342.4	2,260.7	439.9	228.5	211.44	2.081	
12,100.0	6,150.0	12,216.0	6,150.0	110.6	112.4	90.00	5,442.4	2,260.5	439.9	224.7	215.22	2.044	
12,200.0	6,150.0	12,316.0	6,150.0	112.4	114.2	90.00	5,542.4	2,260.4	439.9	220.9	218.99	2.009	
12,300.0	6,150.0	12,416.0	6,150.0	114.3	116.0	90.00	5,642.4	2,260.2	439.9	217.1	222.77	1.975	
12,400.0	6,150.0	12,516.0	6,150.0	116.1	117.8	90.00	5,742.4	2,260.1	439.9	213.4	226.55	1.942	
12,500.0	6,150.0	12,616.0	6,150.0	118.0	119.6	90.00	5,842.4	2,259.9	439.9	209.6	230.34	1.910	
12,600.0	6,150.0	12,716.0	6,150.0	119.8	121.4	90.00	5,942.4	2,259.8	439.9	205.8	234.12	1.879	
12,700.0	6,150.0	12,816.0	6,150.0	121.7	123.3	90.00	6,042.4	2,259.6	439.9	202.0	237.91	1.849	
12,800.0	6,150.0	12,916.0	6,150.0	123.5	125.1	90.00	6,142.4	2,259.5	439.9	198.2	241.69	1.820	
12,900.0	6,150.0	13,016.0	6,150.0	125.4	126.9	90.00	6,242.4	2,259.3	439.9	194.5	245.48	1.792	
13,000.0	6,150.0	13,116.0	6,150.0	127.2	128.8	90.00	6,342.4	2,259.2	439.9	190.7	249.27	1.765	
13,100.0	6,150.0	13,216.0	6,150.0	129.1	130.6	90.00	6,442.4	2,259.0	439.9	186.9	253.07	1.738	
13,200.0	6,150.0	13,316.0	6,150.0	131.0	132.4	90.00	6,542.4	2,258.9	439.9	183.1	256.86	1.713	
13,300.0	6,150.0	13,416.0	6,150.0	132.8	134.3	90.00	6,642.4	2,258.7	439.9	179.3	260.66	1.688	
13,400.0	6,150.0	13,516.0	6,150.0	134.7	136.1	90.00	6,742.4	2,258.6	439.9	175.5	264.45	1.664	
13,500.0	6,150.0	13,616.0	6,150.0	136.5	138.0	90.00	6,842.4	2,258.4	439.9	171.7	268.25	1.640	
13,600.0	6,150.0	13,716.0	6,150.0	138.4	139.8	90.00	6,942.4	2,258.3	440.0	167.9	272.05	1.617	
13,700.0	6,150.0	13,816.0	6,150.0	140.3	141.6	90.00	7,042.4	2,258.1	440.0	164.1	275.85	1.595	
13,800.0	6,150.0	13,916.0	6,150.0	142.2	143.5	90.00	7,142.4	2,258.0	440.0	160.3	279.65	1.573	
13,900.0	6,150.0	14,016.0	6,150.0	144.0	145.3	90.00	7,242.4	2,257.8	440.0	156.5	283.46	1.552	
13,976.5	6,150.0	14,092.5	6,150.0	145.5	146.8	90.00	7,318.9	2,257.7	440.0	153.6	286.37	1.536 SF	



<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4976.0ft (RKB - 13')

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: SRC Markham C-16-9NHZ

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.32°



<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham C-16-9NHZ
<b>Project:</b>	Sec.16-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Reference Site:</b>	SRC Markham Pad Sec.16-T4N-R68W	<b>MD Reference:</b>	WELL @ 4976.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Markham C-16-9NHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (3-31-14)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4976.0ft (RKB - 13')

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: SRC Markham C-16-9NHZ

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.32°

