

# Synergy Resources

Well Name: **SRC Markham R-16-9-CHZ**

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

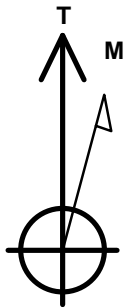
Ground Elevation: 4963.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1357581.41	3136590.78	40.313926	-105.010186	

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

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 2440'FNL & 2122'FWL, SEC.16	1.0	0.0	0.0	Point
BHL 460'FNL & 1140'FEL, SEC.9	6290.0	7322.0	2015.1	Point
LANDING PT. 2200'FNL & 1140'FEL, SEC.16	6290.0	264.6	2026.0	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 R-16-9-CHZ  
Plan#1 (3-31-14)  
8:03, April 09 2014

## ANNOTATIONS

TVD	MD	Annotation
800.0	800.0	KOP - Start Build 2.00
5562.3	5911.3	Start DLS 8.00 TFO -103.52
6290.0	7107.6	Start 7057.2 hold at 7107.6 MD
6290.0	14165.0	TD at 14165.0

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

**BHL 460'FNL & 1140'FEL, SEC.9**

SRC Markham R-16-9-CHZ

Casing Pt. 2200'FNL & 1140'FEL, SEC.16

SRC Markham R-16-9-CHZ

7"

LANDING PT. 2200'FNL & 1140'FEL, SEC.16

**SHL 2440'FNL & 2122'FWL, SEC.16**

460' Setback

Sec.16-T4N-R68W

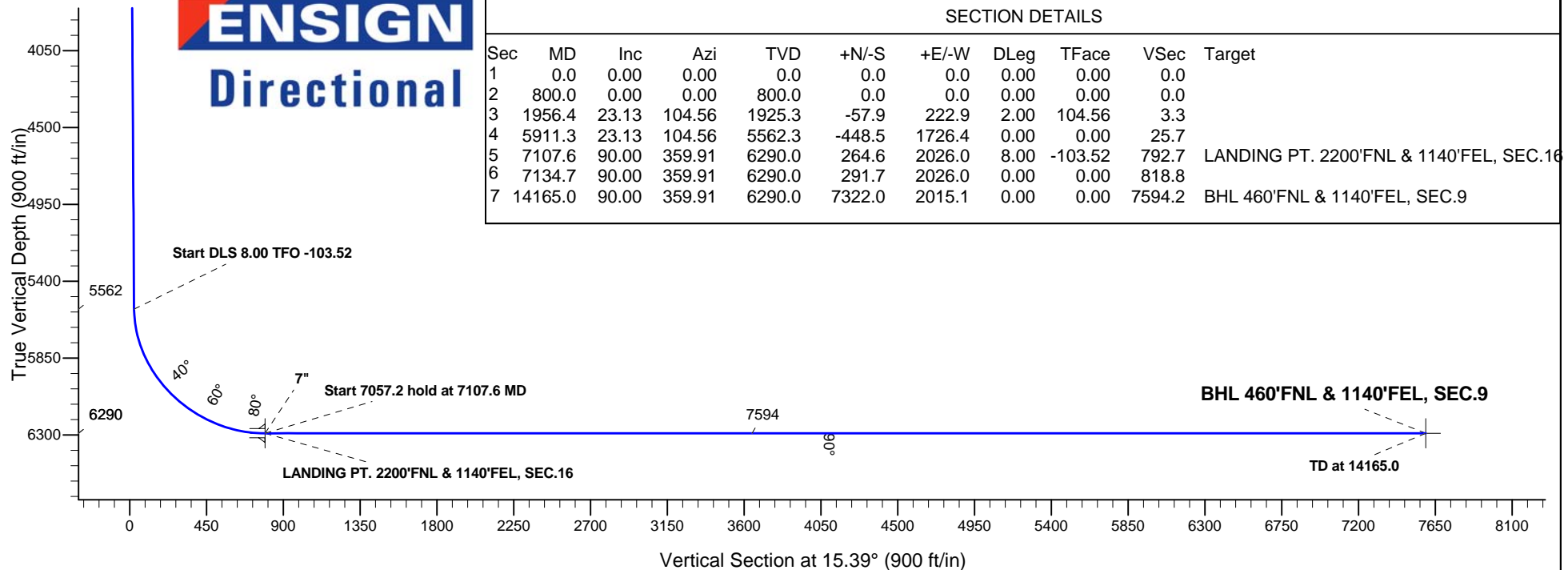
-3000

0

3000

6000

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





## **Synergy Resources**

**Sec.16-T4N-R68W**

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

**SRC Markham R-16-9-CHZ**

**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	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,956.4	23.13	104.56	1,925.3	-57.9	222.9	2.00	2.00	0.00	104.56	
5,911.3	23.13	104.56	5,562.3	-448.5	1,726.4	0.00	0.00	0.00	0.00	
7,107.6	90.00	359.91	6,290.0	264.6	2,026.0	8.00	5.59	-8.75	-103.52	LANDING PT. 2200'
7,134.7	90.00	359.91	6,290.0	291.7	2,026.0	0.00	0.00	0.00	0.00	
14,165.0	90.00	359.91	6,290.0	7,322.0	2,015.1	0.00	0.00	0.00	0.00	BHL 460'FNL & 114'

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Markham R-16-9-CHZ
<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 R-16-9-CHZ	<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; 2122'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
<b>KOP - Start Build 2.00</b>									
900.0	2.00	104.56	900.0	-0.4	1.7	0.0	2.00	2.00	0.00
1,000.0	4.00	104.56	999.8	-1.8	6.8	0.1	2.00	2.00	0.00
1,100.0	6.00	104.56	1,099.5	-3.9	15.2	0.2	2.00	2.00	0.00
1,200.0	8.00	104.56	1,198.7	-7.0	27.0	0.4	2.00	2.00	0.00
1,300.0	10.00	104.56	1,297.5	-10.9	42.1	0.6	2.00	2.00	0.00
1,400.0	12.00	104.56	1,395.6	-15.7	60.6	0.9	2.00	2.00	0.00
1,500.0	14.00	104.56	1,493.1	-21.4	82.4	1.2	2.00	2.00	0.00
1,600.0	16.00	104.56	1,589.6	-27.9	107.4	1.6	2.00	2.00	0.00
1,700.0	18.00	104.56	1,685.3	-35.3	135.7	2.0	2.00	2.00	0.00
1,800.0	20.00	104.56	1,779.8	-43.4	167.2	2.5	2.00	2.00	0.00
1,900.0	22.00	104.56	1,873.2	-52.5	201.9	3.0	2.00	2.00	0.00
1,956.4	23.13	104.56	1,925.3	-57.9	222.9	3.3	2.00	2.00	0.00
2,000.0	23.13	104.56	1,965.3	-62.2	239.4	3.6	0.00	0.00	0.00
2,100.0	23.13	104.56	2,057.3	-72.1	277.4	4.1	0.00	0.00	0.00
2,200.0	23.13	104.56	2,149.3	-82.0	315.5	4.7	0.00	0.00	0.00
2,300.0	23.13	104.56	2,241.2	-91.8	353.5	5.3	0.00	0.00	0.00
2,400.0	23.13	104.56	2,333.2	-101.7	391.5	5.8	0.00	0.00	0.00
2,500.0	23.13	104.56	2,425.2	-111.6	429.5	6.4	0.00	0.00	0.00
2,600.0	23.13	104.56	2,517.1	-121.5	467.5	6.9	0.00	0.00	0.00
2,700.0	23.13	104.56	2,609.1	-131.3	505.5	7.5	0.00	0.00	0.00
2,800.0	23.13	104.56	2,701.0	-141.2	543.6	8.1	0.00	0.00	0.00
2,900.0	23.13	104.56	2,793.0	-151.1	581.6	8.6	0.00	0.00	0.00
3,000.0	23.13	104.56	2,885.0	-161.0	619.6	9.2	0.00	0.00	0.00
3,100.0	23.13	104.56	2,976.9	-170.9	657.6	9.8	0.00	0.00	0.00
3,200.0	23.13	104.56	3,068.9	-180.7	695.6	10.3	0.00	0.00	0.00
3,300.0	23.13	104.56	3,160.9	-190.6	733.7	10.9	0.00	0.00	0.00
3,400.0	23.13	104.56	3,252.8	-200.5	771.7	11.5	0.00	0.00	0.00
3,500.0	23.13	104.56	3,344.8	-210.4	809.7	12.0	0.00	0.00	0.00
3,600.0	23.13	104.56	3,436.7	-220.2	847.7	12.6	0.00	0.00	0.00
3,700.0	23.13	104.56	3,528.7	-230.1	885.7	13.2	0.00	0.00	0.00
3,800.0	23.13	104.56	3,620.7	-240.0	923.7	13.7	0.00	0.00	0.00
3,900.0	23.13	104.56	3,712.6	-249.9	961.8	14.3	0.00	0.00	0.00
4,000.0	23.13	104.56	3,804.6	-259.7	999.8	14.9	0.00	0.00	0.00
4,100.0	23.13	104.56	3,896.6	-269.6	1,037.8	15.4	0.00	0.00	0.00
4,200.0	23.13	104.56	3,988.5	-279.5	1,075.8	16.0	0.00	0.00	0.00
4,300.0	23.13	104.56	4,080.5	-289.4	1,113.8	16.6	0.00	0.00	0.00
4,400.0	23.13	104.56	4,172.4	-299.3	1,151.8	17.1	0.00	0.00	0.00
4,500.0	23.13	104.56	4,264.4	-309.1	1,189.9	17.7	0.00	0.00	0.00
4,600.0	23.13	104.56	4,356.4	-319.0	1,227.9	18.2	0.00	0.00	0.00
4,700.0	23.13	104.56	4,448.3	-328.9	1,265.9	18.8	0.00	0.00	0.00
4,800.0	23.13	104.56	4,540.3	-338.8	1,303.9	19.4	0.00	0.00	0.00
4,900.0	23.13	104.56	4,632.3	-348.6	1,341.9	19.9	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Markham R-16-9-CHZ
<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 R-16-9-CHZ	<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	23.13	104.56	4,724.2	-358.5	1,380.0	20.5	0.00	0.00	0.00	
5,100.0	23.13	104.56	4,816.2	-368.4	1,418.0	21.1	0.00	0.00	0.00	
5,200.0	23.13	104.56	4,908.1	-378.3	1,456.0	21.6	0.00	0.00	0.00	
5,300.0	23.13	104.56	5,000.1	-388.1	1,494.0	22.2	0.00	0.00	0.00	
5,400.0	23.13	104.56	5,092.1	-398.0	1,532.0	22.8	0.00	0.00	0.00	
5,500.0	23.13	104.56	5,184.0	-407.9	1,570.0	23.3	0.00	0.00	0.00	
5,600.0	23.13	104.56	5,276.0	-417.8	1,608.1	23.9	0.00	0.00	0.00	
5,700.0	23.13	104.56	5,368.0	-427.7	1,646.1	24.5	0.00	0.00	0.00	
5,800.0	23.13	104.56	5,459.9	-437.5	1,684.1	25.0	0.00	0.00	0.00	
5,900.0	23.13	104.56	5,551.9	-447.4	1,722.1	25.6	0.00	0.00	0.00	
5,911.3	23.13	104.56	5,562.3	-448.5	1,726.4	25.7	0.00	0.00	0.00	
<b>Start DLS 8.00 TFO -103.52</b>										
6,000.0	22.49	86.28	5,644.1	-451.8	1,760.2	31.5	8.00	-0.72	-20.62	
6,100.0	24.24	66.50	5,736.1	-442.4	1,798.2	50.6	8.00	1.75	-19.78	
6,200.0	28.12	50.56	5,825.9	-419.2	1,835.3	82.9	8.00	3.88	-15.94	
6,300.0	33.39	38.73	5,911.9	-382.7	1,870.8	127.5	8.00	5.27	-11.82	
6,400.0	39.50	30.00	5,992.4	-333.6	1,904.0	183.6	8.00	6.11	-8.73	
6,500.0	46.10	23.34	6,065.7	-272.9	1,934.2	250.1	8.00	6.61	-6.66	
6,600.0	53.02	18.04	6,130.6	-201.7	1,960.9	325.9	8.00	6.91	-5.30	
6,700.0	60.13	13.64	6,185.7	-121.5	1,983.5	409.2	8.00	7.11	-4.40	
6,800.0	67.36	9.83	6,229.9	-33.7	2,001.6	498.6	8.00	7.24	-3.81	
6,900.0	74.68	6.41	6,262.4	59.8	2,014.9	592.4	8.00	7.32	-3.42	
7,000.0	82.05	3.22	6,282.5	157.4	2,023.1	688.5	8.00	7.37	-3.19	
7,100.0	89.44	0.14	6,290.0	257.0	2,026.0	785.4	8.00	7.39	-3.08	
7,107.6	90.00	359.91	6,290.0	264.6	2,026.0	792.7	7.96	7.36	-3.04	
<b>Start 7057.2 hold at 7107.6 MD - 7" - LANDING PT. 2200'FNL &amp; 1140'FEL, SEC.16</b>										
7,134.7	90.00	359.91	6,290.0	291.7	2,026.0	818.8	0.01	0.01	0.00	
7,200.0	90.00	359.91	6,290.0	357.0	2,025.9	881.7	0.00	0.00	0.00	
7,300.0	90.00	359.91	6,290.0	457.0	2,025.7	978.1	0.00	0.00	0.00	
7,400.0	90.00	359.91	6,290.0	557.0	2,025.6	1,074.5	0.00	0.00	0.00	
7,500.0	90.00	359.91	6,290.0	657.0	2,025.4	1,170.8	0.00	0.00	0.00	
7,600.0	90.00	359.91	6,290.0	757.0	2,025.2	1,267.2	0.00	0.00	0.00	
7,700.0	90.00	359.91	6,290.0	857.0	2,025.1	1,363.6	0.00	0.00	0.00	
7,800.0	90.00	359.91	6,290.0	957.0	2,024.9	1,460.0	0.00	0.00	0.00	
7,900.0	90.00	359.91	6,290.0	1,057.0	2,024.8	1,556.3	0.00	0.00	0.00	
8,000.0	90.00	359.91	6,290.0	1,157.0	2,024.6	1,652.7	0.00	0.00	0.00	
8,100.0	90.00	359.91	6,290.0	1,257.0	2,024.5	1,749.1	0.00	0.00	0.00	
8,200.0	90.00	359.91	6,290.0	1,357.0	2,024.3	1,845.5	0.00	0.00	0.00	
8,300.0	90.00	359.91	6,290.0	1,457.0	2,024.1	1,941.8	0.00	0.00	0.00	
8,400.0	90.00	359.91	6,290.0	1,557.0	2,024.0	2,038.2	0.00	0.00	0.00	
8,500.0	90.00	359.91	6,290.0	1,657.0	2,023.8	2,134.6	0.00	0.00	0.00	
8,600.0	90.00	359.91	6,290.0	1,757.0	2,023.7	2,231.0	0.00	0.00	0.00	
8,700.0	90.00	359.91	6,290.0	1,857.0	2,023.5	2,327.3	0.00	0.00	0.00	
8,800.0	90.00	359.91	6,290.0	1,957.0	2,023.4	2,423.7	0.00	0.00	0.00	
8,900.0	90.00	359.91	6,290.0	2,057.0	2,023.2	2,520.1	0.00	0.00	0.00	
9,000.0	90.00	359.91	6,290.0	2,157.0	2,023.0	2,616.4	0.00	0.00	0.00	
9,100.0	90.00	359.91	6,290.0	2,257.0	2,022.9	2,712.8	0.00	0.00	0.00	
9,200.0	90.00	359.91	6,290.0	2,357.0	2,022.7	2,809.2	0.00	0.00	0.00	
9,300.0	90.00	359.91	6,290.0	2,457.0	2,022.6	2,905.6	0.00	0.00	0.00	
9,400.0	90.00	359.91	6,290.0	2,557.0	2,022.4	3,001.9	0.00	0.00	0.00	
9,500.0	90.00	359.91	6,290.0	2,657.0	2,022.3	3,098.3	0.00	0.00	0.00	
9,600.0	90.00	359.91	6,290.0	2,757.0	2,022.1	3,194.7	0.00	0.00	0.00	
9,700.0	90.00	359.91	6,290.0	2,857.0	2,021.9	3,291.1	0.00	0.00	0.00	
9,800.0	90.00	359.91	6,290.0	2,957.0	2,021.8	3,387.4	0.00	0.00	0.00	

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Markham R-16-9-CHZ
<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 R-16-9-CHZ	<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)
9,900.0	90.00	359.91	6,290.0	3,057.0	2,021.6	3,483.8	0.00	0.00	0.00
10,000.0	90.00	359.91	6,290.0	3,157.0	2,021.5	3,580.2	0.00	0.00	0.00
10,100.0	90.00	359.91	6,290.0	3,257.0	2,021.3	3,676.6	0.00	0.00	0.00
10,200.0	90.00	359.91	6,290.0	3,357.0	2,021.2	3,772.9	0.00	0.00	0.00
10,300.0	90.00	359.91	6,290.0	3,457.0	2,021.0	3,869.3	0.00	0.00	0.00
10,400.0	90.00	359.91	6,290.0	3,557.0	2,020.8	3,965.7	0.00	0.00	0.00
10,500.0	90.00	359.91	6,290.0	3,657.0	2,020.7	4,062.1	0.00	0.00	0.00
10,600.0	90.00	359.91	6,290.0	3,757.0	2,020.5	4,158.4	0.00	0.00	0.00
10,700.0	90.00	359.91	6,290.0	3,857.0	2,020.4	4,254.8	0.00	0.00	0.00
10,800.0	90.00	359.91	6,290.0	3,957.0	2,020.2	4,351.2	0.00	0.00	0.00
10,900.0	90.00	359.91	6,290.0	4,057.0	2,020.1	4,447.5	0.00	0.00	0.00
11,000.0	90.00	359.91	6,290.0	4,157.0	2,019.9	4,543.9	0.00	0.00	0.00
11,100.0	90.00	359.91	6,290.0	4,257.0	2,019.7	4,640.3	0.00	0.00	0.00
11,200.0	90.00	359.91	6,290.0	4,357.0	2,019.6	4,736.7	0.00	0.00	0.00
11,300.0	90.00	359.91	6,290.0	4,457.0	2,019.4	4,833.0	0.00	0.00	0.00
11,400.0	90.00	359.91	6,290.0	4,557.0	2,019.3	4,929.4	0.00	0.00	0.00
11,500.0	90.00	359.91	6,290.0	4,657.0	2,019.1	5,025.8	0.00	0.00	0.00
11,600.0	90.00	359.91	6,290.0	4,757.0	2,019.0	5,122.2	0.00	0.00	0.00
11,700.0	90.00	359.91	6,290.0	4,857.0	2,018.8	5,218.5	0.00	0.00	0.00
11,800.0	90.00	359.91	6,290.0	4,957.0	2,018.6	5,314.9	0.00	0.00	0.00
11,900.0	90.00	359.91	6,290.0	5,057.0	2,018.5	5,411.3	0.00	0.00	0.00
12,000.0	90.00	359.91	6,290.0	5,157.0	2,018.3	5,507.7	0.00	0.00	0.00
12,100.0	90.00	359.91	6,290.0	5,257.0	2,018.2	5,604.0	0.00	0.00	0.00
12,200.0	90.00	359.91	6,290.0	5,357.0	2,018.0	5,700.4	0.00	0.00	0.00
12,300.0	90.00	359.91	6,290.0	5,457.0	2,017.9	5,796.8	0.00	0.00	0.00
12,400.0	90.00	359.91	6,290.0	5,557.0	2,017.7	5,893.1	0.00	0.00	0.00
12,500.0	90.00	359.91	6,290.0	5,657.0	2,017.5	5,989.5	0.00	0.00	0.00
12,600.0	90.00	359.91	6,290.0	5,757.0	2,017.4	6,085.9	0.00	0.00	0.00
12,700.0	90.00	359.91	6,290.0	5,857.0	2,017.2	6,182.3	0.00	0.00	0.00
12,800.0	90.00	359.91	6,290.0	5,957.0	2,017.1	6,278.6	0.00	0.00	0.00
12,900.0	90.00	359.91	6,290.0	6,057.0	2,016.9	6,375.0	0.00	0.00	0.00
13,000.0	90.00	359.91	6,290.0	6,157.0	2,016.8	6,471.4	0.00	0.00	0.00
13,100.0	90.00	359.91	6,290.0	6,257.0	2,016.6	6,567.8	0.00	0.00	0.00
13,200.0	90.00	359.91	6,290.0	6,357.0	2,016.4	6,664.1	0.00	0.00	0.00
13,300.0	90.00	359.91	6,290.0	6,457.0	2,016.3	6,760.5	0.00	0.00	0.00
13,400.0	90.00	359.91	6,290.0	6,557.0	2,016.1	6,856.9	0.00	0.00	0.00
13,500.0	90.00	359.91	6,290.0	6,657.0	2,016.0	6,953.3	0.00	0.00	0.00
13,600.0	90.00	359.91	6,290.0	6,757.0	2,015.8	7,049.6	0.00	0.00	0.00
13,700.0	90.00	359.91	6,290.0	6,857.0	2,015.7	7,146.0	0.00	0.00	0.00
13,800.0	90.00	359.91	6,290.0	6,957.0	2,015.5	7,242.4	0.00	0.00	0.00
13,900.0	90.00	359.91	6,290.0	7,057.0	2,015.3	7,338.7	0.00	0.00	0.00
14,000.0	90.00	359.91	6,290.0	7,157.0	2,015.2	7,435.1	0.00	0.00	0.00
14,100.0	90.00	359.91	6,290.0	7,257.0	2,015.0	7,531.5	0.00	0.00	0.00
14,165.0	90.00	359.91	6,290.0	7,321.9	2,014.9	7,594.1	0.00	0.00	0.00
TD at 14165.0 - BHL 460'FNL & 1140'FEL, SEC.9									

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,107.6	6,290.0	7"	7	7-1/2

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Markham R-16-9-CHZ
<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 R-16-9-CHZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan#1 (3-31-14)		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
800.0	800.0	0.0	0.0	KOP - Start Build 2.00
5,911.3	5,562.3	-448.5	1,726.4	Start DLS 8.00 TFO -103.52
7,107.6	6,290.0	264.6	2,026.0	Start 7057.2 hold at 7107.6 MD
14,165.0	6,290.0	7,321.9	2,014.9	TD at 14165.0



## **Synergy Resources**

**Sec.16-T4N-R68W**

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

**SRC Markham R-16-9-CHZ**

**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 R-16-9-CHZ
<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 R-16-9-CHZ	<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> 4/9/2014			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	14,165.0	Plan#1 (3-31-14) (Wellbore #1)	MWD	MWD - Standard

<b>Summary</b>						
<b>Site Name</b>	<b>Reference Measured Depth (ft)</b>	<b>Offset Measured Depth (ft)</b>	<b>Distance Between Centres (ft)</b>	<b>Distance Between Ellipses (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Offset Well - Wellbore - Design</b>						
SRC Markham Pad Sec.16-T4N-R68W						
SRC Markham 31-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)	800.0	801.0	90.1	86.7	26.700	CC, ES
SRC Markham 31-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)	14,165.0	13,947.9	880.0	593.7	3.073	SF
SRC Markham 31-16-9NHZ - Wellbore #1 - Plan #1 (3-31-14)	800.0	801.0	67.5	64.1	20.005	CC, ES
SRC Markham 31-16-9NHZ - Wellbore #1 - Plan #1 (3-31-14)	14,165.0	13,864.6	674.9	396.0	2.420	SF
SRC Markham 41-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)	400.0	400.0	44.9	43.3	28.541	CC, ES
SRC Markham 41-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)	14,165.0	14,283.8	440.0	153.1	1.534	SF
SRC Markham 41-16-9NHZ - Wellbore #1 - Plan #1 (3-31-14)	200.0	200.0	67.5	66.8	100.092	CC, ES
SRC Markham 41-16-9NHZ - Wellbore #1 - Plan #1 (3-31-14)	14,165.0	14,220.8	674.4	389.5	2.367	SF
SRC Markham C-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)	800.0	800.0	45.2	41.8	13.400	CC, ES
SRC Markham C-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)	14,165.0	14,050.0	440.0	153.7	1.537	SF
SRC Markham C-16-9NHZ - Wellbore #1 - Plan #1 (3-31-14)	800.0	800.0	22.6	19.2	6.700	CC
SRC Markham C-16-9NHZ - Wellbore #1 - Plan #1 (3-31-14)	14,165.0	13,976.5	260.8	16.3	1.067	Level 2, ES, SF
SRC Markham R-16-9NHZ - Wellbore #1 - Plan #1 (3-31-14)	600.0	600.0	22.3	19.8	9.025	CC
SRC Markham R-16-9NHZ - Wellbore #1 - Plan #1 (3-31-14)	14,165.0	14,095.8	260.8	3.2	1.012	Level 2, ES, SF

<b>Offset Design</b>	SRC Markham Pad Sec.16-T4N-R68W - SRC Markham 31-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)												<b>Offset Site Error:</b>	0.0ft
<b>Survey Program:</b>	0-MWD												<b>Offset Well Error:</b>	0.0ft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Distance</b>										
<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Reference (ft)</b>	<b>Offset (ft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre +N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Between Centres (ft)</b>	<b>Between Ellipses (ft)</b>	<b>Minimum Separation (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>	
0.0	0.0	1.0	1.0	0.0	0.0	-90.46	-0.7	-90.1	90.1	90.1	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	-90.46	-0.7	-90.1	90.1	89.9	0.23	396.804		
200.0	200.0	201.0	201.0	0.3	0.3	-90.46	-0.7	-90.1	90.1	89.4	0.68	133.147		
300.0	300.0	301.0	301.0	0.6	0.6	-90.46	-0.7	-90.1	90.1	89.0	1.13	79.994		
400.0	400.0	401.0	401.0	0.8	0.8	-90.46	-0.7	-90.1	90.1	88.5	1.58	57.171		
500.0	500.0	501.0	501.0	1.0	1.0	-90.46	-0.7	-90.1	90.1	88.1	2.03	44.481		
600.0	600.0	601.0	601.0	1.2	1.2	-90.46	-0.7	-90.1	90.1	87.6	2.47	36.401		
700.0	700.0	701.0	701.0	1.5	1.5	-90.46	-0.7	-90.1	90.1	87.2	2.92	30.805		
800.0	800.0	801.0	801.0	1.7	1.7	-90.46	-0.7	-90.1	90.1	86.7	3.37	26.700	CC, ES	
900.0	900.0	901.0	901.0	1.9	1.9	165.25	-0.7	-90.1	91.8	88.0	3.81	24.111		
1,000.0	999.8	1,000.8	1,000.8	2.1	2.1	166.02	-0.7	-90.1	96.8	92.6	4.22	22.921		
1,100.0	1,099.5	1,100.5	1,100.5	2.3	2.4	167.13	-0.7	-90.1	105.3	100.7	4.65	22.666		
1,200.0	1,198.7	1,199.7	1,199.7	2.6	2.6	168.40	-0.7	-90.1	117.2	112.2	5.07	23.126		
1,300.0	1,297.5	1,298.5	1,298.5	2.8	2.8	169.71	-0.7	-90.1	132.6	127.1	5.49	24.143		

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

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	1,395.6	1,396.6	1,396.6	3.2	3.0	170.94	-0.7	-90.1	151.4	145.5	5.91	25.602		
1,500.0	1,493.1	1,494.1	1,494.1	3.5	3.2	172.04	-0.7	-90.1	173.7	167.3	6.34	27.413		
1,600.0	1,589.6	1,590.6	1,590.6	4.0	3.5	173.01	-0.7	-90.1	199.4	192.6	6.76	29.509		
1,700.0	1,685.3	1,693.4	1,693.4	4.5	3.7	173.79	-1.3	-88.7	227.1	219.9	7.17	31.680		
1,800.0	1,779.8	1,798.0	1,797.8	5.1	3.9	174.26	-3.5	-83.8	254.8	247.2	7.56	33.692		
1,900.0	1,873.2	1,903.6	1,903.1	5.8	4.1	174.50	-7.3	-75.4	282.4	274.5	7.97	35.443		
2,000.0	1,965.3	2,010.5	2,009.1	6.5	4.3	174.58	-12.7	-63.3	309.7	301.3	8.42	36.761		
2,100.0	2,057.3	2,119.4	2,116.5	7.3	4.6	174.50	-19.9	-47.2	334.0	325.0	8.95	37.325		
2,200.0	2,149.3	2,230.1	2,225.0	8.1	4.9	174.26	-29.0	-27.1	354.6	345.1	9.50	37.332		
2,300.0	2,241.2	2,342.3	2,334.0	8.8	5.3	173.86	-39.9	-2.8	371.6	361.5	10.08	36.852		
2,400.0	2,333.2	2,455.8	2,443.2	9.7	5.8	173.31	-52.7	25.7	384.8	374.1	10.70	35.963		
2,500.0	2,425.2	2,559.2	2,541.6	10.5	6.3	172.73	-65.5	54.3	395.3	384.0	11.33	34.903		
2,600.0	2,517.1	2,658.6	2,636.3	11.3	6.7	172.20	-77.9	81.9	405.7	393.7	11.97	33.900		
2,700.0	2,609.1	2,757.9	2,731.0	12.1	7.3	171.69	-90.3	109.5	416.1	403.5	12.63	32.953		
2,800.0	2,701.0	2,857.3	2,825.6	12.9	7.8	171.20	-102.6	137.1	426.6	413.3	13.31	32.062		
2,900.0	2,793.0	2,956.7	2,920.3	13.8	8.4	170.74	-115.0	164.7	437.1	423.1	14.00	31.222		
3,000.0	2,885.0	3,056.1	3,015.0	14.6	8.9	170.30	-127.4	192.3	447.6	432.9	14.71	30.433		
3,100.0	2,976.9	3,155.5	3,109.6	15.4	9.5	169.88	-139.8	219.9	458.1	442.7	15.43	29.691		
3,200.0	3,068.9	3,254.9	3,204.3	16.3	10.1	169.48	-152.2	247.5	468.7	452.5	16.17	28.994		
3,300.0	3,160.9	3,354.3	3,299.0	17.1	10.7	169.10	-164.6	275.1	479.3	462.4	16.91	28.339		
3,400.0	3,252.8	3,453.7	3,393.7	18.0	11.3	168.73	-177.0	302.7	489.9	472.2	17.67	27.723		
3,500.0	3,344.8	3,553.0	3,488.3	18.8	11.9	168.38	-189.4	330.4	500.5	482.1	18.44	27.143		
3,600.0	3,436.7	3,652.4	3,583.0	19.7	12.5	168.05	-201.8	358.0	511.2	491.9	19.22	26.598		
3,700.0	3,528.7	3,751.8	3,677.7	20.5	13.1	167.73	-214.1	385.6	521.8	501.8	20.01	26.084		
3,800.0	3,620.7	3,851.2	3,772.3	21.3	13.7	167.42	-226.5	413.2	532.5	511.7	20.80	25.599		
3,900.0	3,712.6	3,950.6	3,867.0	22.2	14.4	167.12	-238.9	440.8	543.2	521.6	21.60	25.142		
4,000.0	3,804.6	4,050.0	3,961.7	23.0	15.0	166.83	-251.3	468.4	553.9	531.5	22.42	24.710		
4,100.0	3,896.6	4,149.4	4,056.3	23.9	15.6	166.56	-263.7	496.0	564.6	541.4	23.23	24.301		
4,200.0	3,988.5	4,248.8	4,151.0	24.7	16.2	166.29	-276.1	523.6	575.3	551.3	24.06	23.915		
4,300.0	4,080.5	4,348.2	4,245.7	25.6	16.9	166.04	-288.5	551.2	586.1	561.2	24.89	23.548		
4,400.0	4,172.4	4,447.5	4,340.3	26.4	17.5	165.79	-300.9	578.8	596.8	571.1	25.72	23.201		
4,500.0	4,264.4	4,546.9	4,435.0	27.3	18.1	165.55	-313.3	606.4	607.6	581.0	26.57	22.871		
4,600.0	4,356.4	4,646.3	4,529.7	28.1	18.8	165.33	-325.6	634.1	618.4	590.9	27.41	22.557		
4,700.0	4,448.3	4,745.7	4,624.4	29.0	19.4	165.10	-338.0	661.7	629.1	600.9	28.26	22.259		
4,800.0	4,540.3	4,845.1	4,719.0	29.8	20.0	164.89	-350.4	689.3	639.9	610.8	29.12	21.975		
4,900.0	4,632.3	4,944.5	4,813.7	30.7	20.7	164.68	-362.8	716.9	650.7	620.7	29.98	21.705		
5,000.0	4,724.2	5,043.9	4,908.4	31.5	21.3	164.48	-375.2	744.5	661.5	630.7	30.85	21.447		
5,100.0	4,816.2	5,143.3	5,003.0	32.4	22.0	164.29	-387.6	772.1	672.3	640.6	31.71	21.201		
5,200.0	4,908.1	5,242.6	5,097.7	33.2	22.6	164.10	-400.0	799.7	683.2	650.6	32.59	20.965		
5,300.0	5,000.1	5,342.0	5,192.4	34.1	23.2	163.92	-412.4	827.3	694.0	660.5	33.46	20.740		
5,400.0	5,092.1	5,441.4	5,287.0	34.9	23.9	163.75	-424.7	854.9	704.8	670.5	34.34	20.525		
5,500.0	5,184.0	5,540.8	5,381.7	35.8	24.5	163.57	-437.1	882.5	715.7	680.5	35.22	20.319		
5,600.0	5,276.0	5,640.2	5,476.4	36.6	25.2	163.41	-449.5	910.2	726.5	690.4	36.11	20.121		
5,700.0	5,368.0	5,742.3	5,573.8	37.5	25.7	163.44	-459.7	938.6	737.3	700.4	36.87	19.998		
5,800.0	5,459.9	5,844.4	5,671.8	38.3	26.2	164.49	-456.7	967.1	747.6	710.6	37.02	20.195		
5,900.0	5,551.9	5,941.0	5,763.1	39.2	26.5	166.46	-440.4	993.7	758.2	721.5	36.66	20.679		
6,000.0	5,644.1	6,031.4	5,846.0	39.9	26.8	-173.52	-413.8	1,017.8	770.1	734.2	35.82	21.496		
6,100.0	5,736.1	6,118.5	5,922.2	40.5	27.0	-152.24	-378.0	1,040.0	783.2	747.9	35.22	22.234		
6,200.0	5,825.9	6,200.0	5,989.3	41.1	27.1	-135.07	-336.1	1,059.5	797.0	762.0	35.01	22.764		
6,300.0	5,911.9	6,284.7	6,053.6	41.6	27.2	-122.16	-284.3	1,078.1	811.0	775.9	35.14	23.081		
6,400.0	5,992.4	6,364.8	6,108.7	42.0	27.3	-112.72	-228.5	1,094.1	824.8	789.3	35.51	23.229		
6,500.0	6,065.7	6,443.4	6,156.6	42.3	27.3	-105.69	-167.8	1,108.0	837.7	801.7	35.97	23.286		

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham R-16-9-CHZ
<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 R-16-9-CHZ	<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	6,130.6	6,520.7	6,197.2	42.6	27.3	-100.43	-103.1	1,119.7	849.5	813.0	36.46	23.300	
6,700.0	6,185.7	6,600.0	6,231.7	42.8	27.3	-96.46	-32.5	1,129.6	859.7	822.8	36.92	23.285	
6,800.0	6,229.9	6,672.6	6,256.5	42.9	27.4	-93.60	35.4	1,136.8	868.0	830.6	37.37	23.228	
6,900.0	6,262.4	6,750.0	6,275.6	43.1	27.4	-91.59	110.1	1,142.2	874.3	836.4	37.90	23.068	
7,000.0	6,282.5	6,822.2	6,286.3	43.1	27.4	-90.40	181.5	1,145.2	878.2	839.7	38.57	22.771	
7,100.0	6,290.0	6,897.0	6,290.0	43.2	27.5	-89.94	256.2	1,146.2	879.8	840.4	39.48	22.285	
7,200.0	6,290.0	6,996.5	6,290.0	43.3	27.7	-89.93	355.6	1,146.0	879.9	839.0	40.90	21.513	
7,300.0	6,290.0	7,096.5	6,290.0	43.4	28.0	-89.93	455.6	1,145.9	879.9	837.2	42.61	20.649	
7,400.0	6,290.0	7,196.5	6,290.0	43.6	28.4	-89.93	555.6	1,145.7	879.9	835.3	44.59	19.734	
7,500.0	6,290.0	7,296.5	6,290.0	43.8	29.0	-89.93	655.6	1,145.5	879.9	833.1	46.79	18.802	
7,600.0	6,290.0	7,396.5	6,290.0	44.1	29.7	-89.93	755.6	1,145.4	879.9	830.7	49.20	17.882	
7,700.0	6,290.0	7,496.5	6,290.0	44.5	30.6	-89.93	855.6	1,145.2	879.9	828.1	51.79	16.990	
7,800.0	6,290.0	7,596.5	6,290.0	44.9	31.7	-89.93	955.6	1,145.1	879.9	825.3	54.52	16.140	
7,900.0	6,290.0	7,696.5	6,290.0	45.5	32.8	-89.93	1,055.6	1,144.9	879.9	822.5	57.37	15.336	
8,000.0	6,290.0	7,796.5	6,290.0	46.1	34.0	-89.93	1,155.6	1,144.8	879.9	819.5	60.34	14.582	
8,100.0	6,290.0	7,896.5	6,290.0	46.8	35.4	-89.93	1,255.6	1,144.6	879.9	816.5	63.40	13.879	
8,200.0	6,290.0	7,996.5	6,290.0	47.6	36.7	-89.93	1,355.6	1,144.4	879.9	813.3	66.54	13.224	
8,300.0	6,290.0	8,096.5	6,290.0	48.4	38.2	-89.93	1,455.6	1,144.3	879.9	810.1	69.75	12.615	
8,400.0	6,290.0	8,196.5	6,290.0	49.4	39.7	-89.93	1,555.6	1,144.1	879.9	806.8	73.02	12.050	
8,500.0	6,290.0	8,296.5	6,290.0	50.4	41.2	-89.93	1,655.6	1,144.0	879.9	803.5	76.34	11.525	
8,600.0	6,290.0	8,396.5	6,290.0	51.5	42.8	-89.93	1,755.6	1,143.8	879.9	800.1	79.71	11.038	
8,700.0	6,290.0	8,496.5	6,290.0	52.6	44.4	-89.93	1,855.6	1,143.7	879.9	796.7	83.12	10.585	
8,800.0	6,290.0	8,596.5	6,290.0	53.8	46.0	-89.93	1,955.6	1,143.5	879.9	793.3	86.57	10.163	
8,900.0	6,290.0	8,696.5	6,290.0	55.1	47.6	-89.93	2,055.6	1,143.3	879.9	789.8	90.05	9.771	
9,000.0	6,290.0	8,796.5	6,290.0	56.4	49.3	-89.93	2,155.6	1,143.2	879.9	786.3	93.56	9.405	
9,100.0	6,290.0	8,896.5	6,290.0	57.8	51.0	-89.93	2,255.6	1,143.0	879.9	782.8	97.09	9.062	
9,200.0	6,290.0	8,996.5	6,290.0	59.2	52.7	-89.93	2,355.6	1,142.9	879.9	779.2	100.64	8.742	
9,300.0	6,290.0	9,096.5	6,290.0	60.6	54.4	-89.93	2,455.6	1,142.7	879.9	775.6	104.22	8.442	
9,400.0	6,290.0	9,196.5	6,290.0	62.1	56.1	-89.93	2,555.6	1,142.6	879.9	772.0	107.81	8.161	
9,500.0	6,290.0	9,296.5	6,290.0	63.6	57.9	-89.93	2,655.6	1,142.4	879.9	768.4	111.42	7.897	
9,600.0	6,290.0	9,396.5	6,290.0	65.2	59.6	-89.93	2,755.6	1,142.2	879.9	764.8	115.05	7.648	
9,700.0	6,290.0	9,496.5	6,290.0	66.7	61.4	-89.93	2,855.6	1,142.1	879.9	761.2	118.69	7.413	
9,800.0	6,290.0	9,596.5	6,290.0	68.3	63.2	-89.93	2,955.6	1,141.9	879.9	757.5	122.34	7.192	
9,900.0	6,290.0	9,696.5	6,290.0	69.9	65.0	-89.93	3,055.6	1,141.8	879.9	753.9	126.00	6.983	
10,000.0	6,290.0	9,796.5	6,290.0	71.5	66.8	-89.93	3,155.6	1,141.6	879.9	750.2	129.67	6.785	
10,100.0	6,290.0	9,896.5	6,290.0	73.2	68.6	-89.93	3,255.6	1,141.5	879.9	746.5	133.35	6.598	
10,200.0	6,290.0	9,996.5	6,290.0	74.9	70.4	-89.93	3,355.6	1,141.3	879.9	742.8	137.04	6.420	
10,300.0	6,290.0	10,096.5	6,290.0	76.5	72.2	-89.93	3,455.6	1,141.1	879.9	739.1	140.74	6.252	
10,400.0	6,290.0	10,196.5	6,290.0	78.2	74.0	-89.93	3,555.6	1,141.0	879.9	735.4	144.45	6.091	
10,500.0	6,290.0	10,296.5	6,290.0	79.9	75.8	-89.93	3,655.6	1,140.8	879.9	731.7	148.16	5.938	
10,600.0	6,290.0	10,396.5	6,290.0	81.6	77.6	-89.93	3,755.6	1,140.7	879.9	728.0	151.88	5.793	
10,700.0	6,290.0	10,496.5	6,290.0	83.3	79.5	-89.93	3,855.6	1,140.5	879.9	724.3	155.61	5.654	
10,800.0	6,290.0	10,596.5	6,290.0	85.1	81.3	-89.93	3,955.6	1,140.4	879.9	720.5	159.34	5.522	
10,900.0	6,290.0	10,696.5	6,290.0	86.8	83.1	-89.93	4,055.6	1,140.2	879.9	716.8	163.07	5.395	
11,000.0	6,290.0	10,796.5	6,290.0	88.6	85.0	-89.93	4,155.6	1,140.0	879.9	713.0	166.82	5.274	
11,100.0	6,290.0	10,896.5	6,290.0	90.3	86.8	-89.93	4,255.6	1,139.9	879.9	709.3	170.56	5.159	
11,200.0	6,290.0	10,996.5	6,290.0	92.1	88.7	-89.93	4,355.6	1,139.7	879.9	705.5	174.31	5.048	
11,300.0	6,290.0	11,096.5	6,290.0	93.9	90.5	-89.93	4,455.6	1,139.6	879.9	701.8	178.06	4.941	
11,400.0	6,290.0	11,196.5	6,290.0	95.6	92.4	-89.93	4,555.6	1,139.4	879.9	698.0	181.82	4.839	
11,500.0	6,290.0	11,296.5	6,290.0	97.4	94.2	-89.93	4,655.6	1,139.3	879.9	694.3	185.58	4.741	
11,600.0	6,290.0	11,396.5	6,290.0	99.2	96.1	-89.93	4,755.6	1,139.1	879.9	690.5	189.34	4.647	
11,700.0	6,290.0	11,496.5	6,290.0	101.0	97.9	-89.93	4,855.6	1,138.9	879.9	686.7	193.11	4.556	

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 R-16-9-CHZ
<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 R-16-9-CHZ	<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>Offset Design</b> SRC Markham Pad Sec.16-T4N-R68W - SRC Markham 31-16-9CHZ - Wellbore #1 - Plan #1 (3-31-14)												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	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
11,800.0	6,290.0	11,596.5	6,290.0	102.8	99.8	-89.93	4,955.6	1,138.8	879.9	683.0	196.88	4.469	
11,900.0	6,290.0	11,696.5	6,290.0	104.6	101.7	-89.93	5,055.6	1,138.6	879.9	679.2	200.65	4.385	
12,000.0	6,290.0	11,796.5	6,290.0	106.4	103.5	-89.93	5,155.6	1,138.5	879.9	675.4	204.43	4.304	
12,100.0	6,290.0	11,896.5	6,290.0	108.2	105.4	-89.93	5,255.6	1,138.3	879.9	671.7	208.21	4.226	
12,200.0	6,290.0	11,996.5	6,290.0	110.0	107.3	-89.93	5,355.6	1,138.2	879.9	667.9	211.99	4.151	
12,300.0	6,290.0	12,096.5	6,290.0	111.9	109.1	-89.93	5,455.6	1,138.0	879.9	664.1	215.77	4.078	
12,400.0	6,290.0	12,196.5	6,290.0	113.7	111.0	-89.93	5,555.6	1,137.8	879.9	660.3	219.55	4.008	
12,500.0	6,290.0	12,296.5	6,290.0	115.5	112.9	-89.93	5,655.6	1,137.7	879.9	656.5	223.34	3.940	
12,600.0	6,290.0	12,396.5	6,290.0	117.3	114.8	-89.93	5,755.6	1,137.5	879.9	652.7	227.12	3.874	
12,700.0	6,290.0	12,496.5	6,290.0	119.2	116.6	-89.93	5,855.6	1,137.4	879.9	648.9	230.91	3.810	
12,800.0	6,290.0	12,596.5	6,290.0	121.0	118.5	-89.93	5,955.6	1,137.2	879.9	645.2	234.71	3.749	
12,900.0	6,290.0	12,696.5	6,290.0	122.8	120.4	-89.93	6,055.6	1,137.1	879.9	641.4	238.50	3.689	
13,000.0	6,290.0	12,796.5	6,290.0	124.7	122.3	-89.93	6,155.6	1,136.9	879.9	637.6	242.29	3.631	
13,100.0	6,290.0	12,896.5	6,290.0	126.5	124.2	-89.93	6,255.6	1,136.7	879.9	633.8	246.09	3.575	
13,200.0	6,290.0	12,996.5	6,290.0	128.4	126.1	-89.93	6,355.6	1,136.6	879.9	630.0	249.88	3.521	
13,300.0	6,290.0	13,096.5	6,290.0	130.2	127.9	-89.93	6,455.6	1,136.4	879.9	626.2	253.68	3.468	
13,400.0	6,290.0	13,196.5	6,290.0	132.1	129.8	-89.93	6,555.6	1,136.3	879.9	622.4	257.48	3.417	
13,500.0	6,290.0	13,296.5	6,290.0	133.9	131.7	-89.93	6,655.6	1,136.1	879.9	618.6	261.28	3.367	
13,600.0	6,290.0	13,396.5	6,290.0	135.8	133.6	-89.93	6,755.6	1,136.0	879.9	614.8	265.09	3.319	
13,700.0	6,290.0	13,496.5	6,290.0	137.6	135.5	-89.93	6,855.6	1,135.8	879.9	611.0	268.89	3.272	
13,800.0	6,290.0	13,596.5	6,290.0	139.5	137.4	-89.93	6,955.6	1,135.6	879.9	607.2	272.69	3.227	
13,900.0	6,290.0	13,696.5	6,290.0	141.3	139.3	-89.93	7,055.6	1,135.5	879.9	603.4	276.50	3.182	
14,000.0	6,290.0	13,796.5	6,290.0	143.2	141.2	-89.93	7,155.6	1,135.3	879.9	599.6	280.31	3.139	
14,100.0	6,290.0	13,896.5	6,290.0	145.1	143.1	-89.93	7,255.6	1,135.2	879.9	595.7	284.11	3.097	
14,137.4	6,290.0	13,936.2	6,290.0	145.8	143.8	-89.93	7,295.4	1,135.2	879.8	594.2	285.58	3.081	
14,165.0	6,290.0	13,947.9	6,290.0	146.3	144.0	-89.93	7,307.0	1,135.2	880.0	593.7	286.33	3.073 SF	

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham R-16-9-CHZ
<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 R-16-9-CHZ	<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	-90.62	-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 CC, ES		
900.0	900.0	901.0	901.0	1.9	1.9	165.19	-0.7	-67.5	69.2	65.4	3.81	18.176		
1,000.0	999.8	1,000.8	1,000.8	2.1	2.1	166.20	-0.7	-67.5	74.2	70.0	4.22	17.574		
1,100.0	1,099.5	1,100.5	1,100.5	2.3	2.4	167.60	-0.7	-67.5	82.7	78.1	4.65	17.807		
1,200.0	1,198.7	1,199.7	1,199.7	2.6	2.6	169.14	-0.7	-67.5	94.7	89.6	5.07	18.679		
1,300.0	1,297.5	1,298.5	1,298.5	2.8	2.8	170.62	-0.7	-67.5	110.1	104.6	5.49	20.048		
1,400.0	1,395.6	1,396.6	1,396.6	3.2	3.0	171.95	-0.7	-67.5	129.0	123.0	5.91	21.811		
1,500.0	1,493.1	1,499.1	1,499.1	3.5	3.2	172.99	-1.3	-65.9	149.7	143.4	6.32	23.684		
1,600.0	1,589.6	1,602.6	1,602.4	4.0	3.4	173.64	-3.3	-60.8	170.4	163.7	6.71	25.394		
1,700.0	1,685.3	1,706.8	1,706.2	4.5	3.7	174.01	-6.6	-52.2	191.1	184.0	7.11	26.865		
1,800.0	1,779.8	1,811.9	1,810.5	5.1	3.9	174.18	-11.3	-39.9	211.7	204.1	7.53	28.116		
1,900.0	1,873.2	1,917.8	1,915.0	5.8	4.2	174.21	-17.5	-23.9	232.1	224.2	7.96	29.159		
2,000.0	1,965.3	2,024.6	2,019.7	6.5	4.5	174.14	-25.0	-4.2	252.1	243.7	8.45	29.849		
2,100.0	2,057.3	2,132.8	2,124.8	7.3	4.9	173.93	-34.1	19.5	269.0	260.0	9.00	29.883		
2,200.0	2,149.3	2,242.2	2,230.1	8.1	5.3	173.56	-44.8	47.2	282.3	272.7	9.60	29.413		
2,300.0	2,241.2	2,352.5	2,335.0	8.8	5.9	173.04	-57.0	79.0	291.9	281.6	10.22	28.565		
2,400.0	2,333.2	2,456.4	2,432.9	9.7	6.4	172.43	-69.5	111.7	298.4	287.5	10.86	27.471		
2,500.0	2,425.2	2,556.2	2,526.7	10.5	7.0	171.87	-81.7	143.4	304.7	293.2	11.52	26.444		
2,600.0	2,517.1	2,655.9	2,620.5	11.3	7.6	171.32	-93.9	175.1	311.1	298.9	12.20	25.488		
2,700.0	2,609.1	2,755.7	2,714.3	12.1	8.3	170.80	-106.0	206.8	317.4	304.5	12.91	24.598		
2,800.0	2,701.0	2,855.4	2,808.1	12.9	8.9	170.30	-118.2	238.4	323.8	310.2	13.62	23.770		
2,900.0	2,793.0	2,955.2	2,901.9	13.8	9.6	169.82	-130.4	270.1	330.3	315.9	14.36	22.999		
3,000.0	2,885.0	3,054.9	2,995.7	14.6	10.3	169.36	-142.5	301.8	336.7	321.6	15.11	22.282		
3,100.0	2,976.9	3,154.7	3,089.5	15.4	10.9	168.91	-154.7	333.5	343.2	327.3	15.88	21.613		
3,200.0	3,068.9	3,254.5	3,183.3	16.3	11.6	168.48	-166.9	365.2	349.7	333.0	16.66	20.990		
3,300.0	3,160.9	3,354.2	3,277.1	17.1	12.3	168.07	-179.0	396.9	356.2	338.7	17.45	20.409		
3,400.0	3,252.8	3,454.0	3,370.9	18.0	13.0	167.67	-191.2	428.5	362.7	344.4	18.26	19.865		
3,500.0	3,344.8	3,553.7	3,464.7	18.8	13.7	167.28	-203.4	460.2	369.2	350.1	19.07	19.357		
3,600.0	3,436.7	3,653.5	3,558.5	19.7	14.4	166.91	-215.5	491.9	375.8	355.9	19.90	18.881		
3,700.0	3,528.7	3,753.2	3,652.3	20.5	15.1	166.55	-227.7	523.6	382.3	361.6	20.74	18.435		
3,800.0	3,620.7	3,853.0	3,746.1	21.3	15.8	166.21	-239.9	555.3	388.9	367.3	21.59	18.015		
3,900.0	3,712.6	3,952.8	3,839.9	22.2	16.5	165.87	-252.0	587.0	395.5	373.1	22.45	17.621		
4,000.0	3,804.6	4,052.5	3,933.7	23.0	17.2	165.55	-264.2	618.6	402.1	378.8	23.31	17.250		
4,100.0	3,896.6	4,152.3	4,027.6	23.9	17.9	165.23	-276.4	650.3	408.8	384.6	24.19	16.901		
4,200.0	3,988.5	4,252.0	4,121.4	24.7	18.7	164.93	-288.5	682.0	415.4	390.3	25.07	16.571		
4,300.0	4,080.5	4,351.8	4,215.2	25.6	19.4	164.64	-300.7	713.7	422.0	396.1	25.96	16.259		
4,400.0	4,172.4	4,451.5	4,309.0	26.4	20.1	164.35	-312.9	745.4	428.7	401.8	26.85	15.964		
4,500.0	4,264.4	4,551.3	4,402.8	27.3	20.8	164.07	-325.0	777.1	435.4	407.6	27.76	15.685		
4,600.0	4,356.4	4,651.0	4,496.6	28.1	21.5	163.81	-337.2	808.7	442.0	413.4	28.67	15.420		
4,700.0	4,448.3	4,750.8	4,590.4	29.0	22.2	163.55	-349.4	840.4	448.7	419.1	29.58	15.169		
4,800.0	4,540.3	4,850.6	4,684.2	29.8	23.0	163.29	-361.5	872.1	455.4	424.9	30.50	14.930		
4,900.0	4,632.3	4,950.3	4,778.0	30.7	23.7	163.05	-373.7	903.8	462.1	430.7	31.43	14.703		
5,000.0	4,724.2	5,050.1	4,871.8	31.5	24.4	162.81	-385.9	935.5	468.8	436.5	32.36	14.487		
5,100.0	4,816.2	5,149.8	4,965.6	32.4	25.1	162.58	-398.0	967.2	475.5	442.2	33.30	14.281		

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 R-16-9-CHZ
<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 R-16-9-CHZ	<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	4,908.1	5,249.6	5,059.4	33.2	25.8	162.36	-410.2	998.8	482.3	448.0	34.24	14.084	
5,300.0	5,000.1	5,349.3	5,153.2	34.1	26.6	162.14	-422.4	1,030.5	489.0	453.8	35.19	13.896	
5,400.0	5,092.1	5,449.1	5,247.0	34.9	27.3	161.92	-434.5	1,062.2	495.7	459.6	36.14	13.717	
5,500.0	5,184.0	5,548.8	5,340.8	35.8	28.0	161.72	-446.7	1,093.9	502.5	465.4	37.10	13.546	
5,600.0	5,276.0	5,651.5	5,437.5	36.6	28.7	161.72	-457.3	1,126.5	509.1	471.2	37.93	13.422	
5,700.0	5,368.0	5,755.3	5,535.8	37.5	29.2	163.19	-454.9	1,159.7	514.9	477.0	37.87	13.598	
5,800.0	5,459.9	5,853.6	5,627.6	38.3	29.7	166.04	-438.9	1,190.7	520.8	483.8	37.04	14.060	
5,900.0	5,551.9	5,943.5	5,709.0	39.2	30.0	169.80	-412.7	1,218.1	528.8	492.8	35.93	14.717	
6,000.0	5,644.1	6,025.9	5,780.5	39.9	30.3	-168.60	-379.4	1,242.2	540.3	505.4	34.94	15.465	
6,100.0	5,736.1	6,105.1	5,845.2	40.5	30.5	-145.89	-339.6	1,264.0	554.7	519.9	34.76	15.957	
6,200.0	5,825.9	6,181.5	5,903.4	41.1	30.6	-127.39	-294.1	1,283.5	570.9	535.6	35.29	16.177	
6,300.0	5,911.9	6,255.8	5,955.3	41.6	30.7	-113.46	-243.9	1,301.0	588.0	551.9	36.14	16.269	
6,400.0	5,992.4	6,328.4	6,000.9	42.0	30.8	-103.12	-189.7	1,316.3	605.1	568.1	36.93	16.382	
6,500.0	6,065.7	6,400.0	6,040.6	42.3	30.9	-95.36	-131.6	1,329.6	621.4	584.0	37.39	16.620	
6,600.0	6,130.6	6,469.6	6,073.8	42.6	30.9	-89.53	-71.4	1,340.7	636.3	598.9	37.42	17.006	
6,700.0	6,185.7	6,538.8	6,101.1	42.8	31.0	-85.16	-8.6	1,349.8	649.3	612.2	37.07	17.517	
6,800.0	6,229.9	6,600.0	6,120.4	42.9	31.0	-82.03	49.2	1,356.3	660.0	623.5	36.47	18.098	
6,900.0	6,262.4	6,675.4	6,137.6	43.1	31.0	-79.77	122.3	1,362.0	667.9	631.8	36.06	18.521	
7,000.0	6,282.5	6,750.0	6,147.4	43.1	31.1	-78.42	196.2	1,365.2	673.0	637.0	35.95	18.720	
7,100.0	6,290.0	6,812.3	6,150.0	43.2	31.1	-77.95	258.4	1,365.9	675.0	638.6	36.34	18.572	
7,200.0	6,290.0	6,909.9	6,150.0	43.3	31.3	-77.94	356.0	1,365.8	675.0	637.5	37.46	18.018	
7,300.0	6,290.0	7,009.9	6,150.0	43.4	31.5	-77.94	456.0	1,365.6	675.0	635.9	39.08	17.272	
7,400.0	6,290.0	7,109.9	6,150.0	43.6	31.8	-77.94	556.0	1,365.5	675.0	634.0	40.98	16.471	
7,500.0	6,290.0	7,209.9	6,150.0	43.8	32.3	-77.94	656.0	1,365.3	675.0	631.8	43.13	15.651	
7,600.0	6,290.0	7,309.9	6,150.0	44.1	32.8	-77.94	756.0	1,365.2	675.0	629.5	45.48	14.840	
7,700.0	6,290.0	7,409.9	6,150.0	44.5	33.5	-77.94	856.0	1,365.0	675.0	626.9	48.02	14.055	
7,800.0	6,290.0	7,509.9	6,150.0	44.9	34.3	-77.94	956.0	1,364.9	675.0	624.2	50.71	13.310	
7,900.0	6,290.0	7,609.9	6,150.0	45.5	35.3	-77.94	1,056.0	1,364.7	675.0	621.4	53.53	12.608	
8,000.0	6,290.0	7,709.9	6,150.0	46.1	36.3	-77.94	1,156.0	1,364.6	675.0	618.5	56.46	11.954	
8,100.0	6,290.0	7,809.9	6,150.0	46.8	37.5	-77.94	1,256.0	1,364.4	674.9	615.5	59.49	11.346	
8,200.0	6,290.0	7,909.9	6,150.0	47.6	38.7	-77.94	1,356.0	1,364.3	674.9	612.3	62.59	10.783	
8,300.0	6,290.0	8,009.9	6,150.0	48.4	40.0	-77.94	1,456.0	1,364.1	674.9	609.2	65.77	10.262	
8,400.0	6,290.0	8,109.9	6,150.0	49.4	41.4	-77.94	1,556.0	1,363.9	674.9	605.9	69.00	9.781	
8,500.0	6,290.0	8,209.9	6,150.0	50.4	42.8	-77.94	1,656.0	1,363.8	674.9	602.6	72.29	9.336	
8,600.0	6,290.0	8,309.9	6,150.0	51.5	44.2	-77.94	1,756.0	1,363.6	674.9	599.3	75.62	8.925	
8,700.0	6,290.0	8,409.9	6,150.0	52.6	45.7	-77.94	1,856.0	1,363.5	674.9	595.9	78.99	8.544	
8,800.0	6,290.0	8,509.9	6,150.0	53.8	47.3	-77.94	1,956.0	1,363.3	674.9	592.5	82.40	8.191	
8,900.0	6,290.0	8,609.9	6,150.0	55.1	48.9	-77.94	2,056.0	1,363.2	674.9	589.1	85.83	7.863	
9,000.0	6,290.0	8,709.9	6,150.0	56.4	50.5	-77.94	2,156.0	1,363.0	674.9	585.6	89.29	7.558	
9,100.0	6,290.0	8,809.9	6,150.0	57.8	52.1	-77.94	2,256.0	1,362.9	674.9	582.1	92.78	7.274	
9,200.0	6,290.0	8,909.9	6,150.0	59.2	53.7	-77.94	2,356.0	1,362.7	674.9	578.6	96.29	7.009	
9,300.0	6,290.0	9,009.9	6,150.0	60.6	55.4	-77.94	2,456.0	1,362.6	674.9	575.1	99.81	6.762	
9,400.0	6,290.0	9,109.9	6,150.0	62.1	57.1	-77.94	2,556.0	1,362.4	674.9	571.5	103.36	6.530	
9,500.0	6,290.0	9,209.9	6,150.0	63.6	58.8	-77.94	2,656.0	1,362.3	674.9	568.0	106.91	6.312	
9,600.0	6,290.0	9,309.9	6,150.0	65.2	60.5	-77.94	2,756.0	1,362.1	674.9	564.4	110.49	6.108	
9,700.0	6,290.0	9,409.9	6,150.0	66.7	62.2	-77.94	2,856.0	1,362.0	674.9	560.8	114.07	5.916	
9,800.0	6,290.0	9,509.9	6,150.0	68.3	64.0	-77.94	2,956.0	1,361.8	674.9	557.2	117.67	5.735	
9,900.0	6,290.0	9,609.9	6,150.0	69.9	65.7	-77.94	3,056.0	1,361.7	674.9	553.6	121.27	5.565	
10,000.0	6,290.0	9,709.9	6,150.0	71.5	67.5	-77.94	3,156.0	1,361.5	674.9	550.0	124.89	5.404	
10,100.0	6,290.0	9,809.9	6,150.0	73.2	69.3	-77.94	3,256.0	1,361.4	674.8	546.3	128.52	5.251	
10,200.0	6,290.0	9,909.9	6,150.0	74.9	71.0	-77.94	3,356.0	1,361.2	674.8	542.7	132.15	5.107	
10,300.0	6,290.0	10,009.9	6,150.0	76.5	72.8	-77.94	3,456.0	1,361.1	674.8	539.0	135.79	4.970	

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



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
10,400.0	6,290.0	10,109.9	6,150.0	78.2	74.6	-77.94	3,556.0	1,360.9	674.8	535.4	139.44	4.840	
10,500.0	6,290.0	10,209.9	6,150.0	79.9	76.4	-77.94	3,656.0	1,360.8	674.8	531.7	143.09	4.716	
10,600.0	6,290.0	10,309.9	6,150.0	81.6	78.2	-77.94	3,756.0	1,360.6	674.8	528.1	146.75	4.598	
10,700.0	6,290.0	10,409.9	6,150.0	83.3	80.0	-77.94	3,856.0	1,360.5	674.8	524.4	150.42	4.486	
10,800.0	6,290.0	10,509.9	6,150.0	85.1	81.9	-77.94	3,956.0	1,360.3	674.8	520.7	154.09	4.379	
10,900.0	6,290.0	10,609.9	6,150.0	86.8	83.7	-77.94	4,056.0	1,360.1	674.8	517.0	157.76	4.277	
11,000.0	6,290.0	10,709.9	6,150.0	88.6	85.5	-77.94	4,156.0	1,360.0	674.8	513.4	161.44	4.180	
11,100.0	6,290.0	10,809.9	6,150.0	90.3	87.3	-77.94	4,256.0	1,359.8	674.8	509.7	165.12	4.087	
11,200.0	6,290.0	10,909.9	6,150.0	92.1	89.2	-77.94	4,356.0	1,359.7	674.8	506.0	168.81	3.997	
11,300.0	6,290.0	11,009.9	6,150.0	93.9	91.0	-77.94	4,456.0	1,359.5	674.8	502.3	172.50	3.912	
11,400.0	6,290.0	11,109.9	6,150.0	95.6	92.8	-77.94	4,555.9	1,359.4	674.8	498.6	176.19	3.830	
11,500.0	6,290.0	11,209.9	6,150.0	97.4	94.7	-77.94	4,655.9	1,359.2	674.8	494.9	179.89	3.751	
11,600.0	6,290.0	11,309.9	6,150.0	99.2	96.5	-77.94	4,755.9	1,359.1	674.8	491.2	183.59	3.675	
11,700.0	6,290.0	11,409.9	6,150.0	101.0	98.4	-77.94	4,855.9	1,358.9	674.8	487.5	187.29	3.603	
11,800.0	6,290.0	11,509.9	6,150.0	102.8	100.2	-77.94	4,955.9	1,358.8	674.8	483.8	190.99	3.533	
11,900.0	6,290.0	11,609.9	6,150.0	104.6	102.1	-77.94	5,055.9	1,358.6	674.8	480.1	194.70	3.466	
12,000.0	6,290.0	11,709.9	6,150.0	106.4	103.9	-77.94	5,155.9	1,358.5	674.8	476.3	198.41	3.401	
12,100.0	6,290.0	11,809.9	6,150.0	108.2	105.8	-77.94	5,255.9	1,358.3	674.7	472.6	202.12	3.338	
12,200.0	6,290.0	11,909.9	6,150.0	110.0	107.6	-77.94	5,355.9	1,358.2	674.7	468.9	205.84	3.278	
12,300.0	6,290.0	12,009.9	6,150.0	111.9	109.5	-77.94	5,455.9	1,358.0	674.7	465.2	209.55	3.220	
12,400.0	6,290.0	12,109.9	6,150.0	113.7	111.4	-77.94	5,555.9	1,357.9	674.7	461.5	213.27	3.164	
12,500.0	6,290.0	12,209.9	6,150.0	115.5	113.2	-77.94	5,655.9	1,357.7	674.7	457.7	216.99	3.110	
12,600.0	6,290.0	12,309.9	6,150.0	117.3	115.1	-77.94	5,755.9	1,357.6	674.7	454.0	220.71	3.057	
12,700.0	6,290.0	12,409.9	6,150.0	119.2	117.0	-77.94	5,855.9	1,357.4	674.7	450.3	224.43	3.006	
12,800.0	6,290.0	12,509.9	6,150.0	121.0	118.9	-77.94	5,955.9	1,357.3	674.7	446.6	228.16	2.957	
12,900.0	6,290.0	12,609.9	6,150.0	122.8	120.7	-77.94	6,055.9	1,357.1	674.7	442.8	231.88	2.910	
13,000.0	6,290.0	12,709.9	6,150.0	124.7	122.6	-77.94	6,155.9	1,357.0	674.7	439.1	235.61	2.864	
13,100.0	6,290.0	12,809.9	6,150.0	126.5	124.5	-77.94	6,255.9	1,356.8	674.7	435.4	239.34	2.819	
13,200.0	6,290.0	12,909.9	6,150.0	128.4	126.4	-77.94	6,355.9	1,356.6	674.7	431.6	243.07	2.776	
13,300.0	6,290.0	13,009.9	6,150.0	130.2	128.2	-77.94	6,455.9	1,356.5	674.7	427.9	246.80	2.734	
13,400.0	6,290.0	13,109.9	6,150.0	132.1	130.1	-77.94	6,555.9	1,356.3	674.7	424.2	250.53	2.693	
13,500.0	6,290.0	13,209.9	6,150.0	133.9	132.0	-77.94	6,655.9	1,356.2	674.7	420.4	254.26	2.653	
13,600.0	6,290.0	13,309.9	6,150.0	135.8	133.9	-77.94	6,755.9	1,356.0	674.7	416.7	258.00	2.615	
13,700.0	6,290.0	13,409.9	6,150.0	137.6	135.8	-77.94	6,855.9	1,355.9	674.7	412.9	261.73	2.578	
13,800.0	6,290.0	13,509.9	6,150.0	139.5	137.6	-77.94	6,955.9	1,355.7	674.7	409.2	265.47	2.541	
13,900.0	6,290.0	13,609.9	6,150.0	141.3	139.5	-77.94	7,055.9	1,355.6	674.7	405.5	269.20	2.506	
14,000.0	6,290.0	13,709.9	6,150.0	143.2	141.4	-77.94	7,155.9	1,355.4	674.7	401.7	272.94	2.472	
14,100.0	6,290.0	13,809.9	6,150.0	145.1	143.3	-77.94	7,255.9	1,355.3	674.7	398.0	276.68	2.438	
14,123.8	6,290.0	13,833.7	6,150.0	145.5	143.7	-77.94	7,279.8	1,355.2	674.6	397.1	277.57	2.431	
14,165.0	6,290.0	13,864.6	6,150.0	146.3	144.3	-77.94	7,310.6	1,355.2	674.9	396.0	278.92	2.420	SF

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	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	89.05	0.7	44.9	44.9					
100.0	100.0	100.0	100.0	0.1	0.1	89.05	0.7	44.9	44.9	44.7	0.22	199.786		
200.0	200.0	200.0	200.0	0.3	0.3	89.05	0.7	44.9	44.9	44.2	0.67	66.595		
300.0	300.0	300.0	300.0	0.6	0.6	89.05	0.7	44.9	44.9	43.8	1.12	39.957		
400.0	400.0	400.0	400.0	0.8	0.8	89.05	0.7	44.9	44.9	43.3	1.57	28.541	CC, ES	
500.0	500.0	498.5	498.4	1.0	1.0	89.52	0.4	46.6	46.6	44.6	2.01	23.230		
600.0	600.0	596.7	596.5	1.2	1.2	90.74	-0.7	51.5	51.6	49.2	2.44	21.191		
700.0	700.0	694.4	693.9	1.5	1.4	92.31	-2.4	59.7	60.0	57.2	2.89	20.801		
800.0	800.0	791.5	790.3	1.7	1.7	93.88	-4.8	71.0	71.8	68.5	3.36	21.360		
900.0	900.0	888.0	885.6	1.9	2.0	-9.43	-7.9	85.5	85.3	81.6	3.75	22.756		
1,000.0	999.8	984.0	980.0	2.1	2.3	-8.61	-11.6	102.9	98.7	94.5	4.17	23.679		
1,100.0	1,099.5	1,079.6	1,073.3	2.3	2.7	-8.07	-16.0	123.4	112.0	107.4	4.60	24.344		
1,200.0	1,198.7	1,174.8	1,165.4	2.6	3.2	-7.71	-20.9	146.8	125.1	120.1	5.04	24.803		
1,300.0	1,297.5	1,269.6	1,256.3	2.8	3.7	-7.48	-26.5	173.0	138.1	132.6	5.50	25.093		
1,400.0	1,395.6	1,364.1	1,346.0	3.2	4.3	-7.35	-32.7	202.1	150.9	144.9	5.98	25.239		
1,500.0	1,493.1	1,458.1	1,434.2	3.5	4.9	-7.29	-39.5	233.9	163.5	157.1	6.47	25.263		
1,600.0	1,589.6	1,551.8	1,521.0	4.0	5.6	-7.29	-46.8	268.3	176.0	169.0	6.98	25.202		
1,700.0	1,685.3	1,645.2	1,606.3	4.5	6.4	-7.33	-54.7	305.4	188.2	180.7	7.52	25.027		
1,800.0	1,779.8	1,743.4	1,695.2	5.1	7.2	-7.45	-63.4	346.4	199.2	191.1	8.09	24.607		
1,900.0	1,873.2	1,843.1	1,785.3	5.8	8.1	-7.69	-72.3	388.0	206.7	198.0	8.69	23.778		
2,000.0	1,965.3	1,943.0	1,875.7	6.5	9.0	-8.03	-81.2	429.7	211.2	201.8	9.35	22.597		
2,100.0	2,057.3	2,042.9	1,966.0	7.3	9.9	-8.40	-90.0	471.4	215.1	205.1	10.05	21.403		
2,200.0	2,149.3	2,142.8	2,056.4	8.1	10.8	-8.75	-98.9	513.1	219.0	208.3	10.77	20.335		
2,300.0	2,241.2	2,242.7	2,146.8	8.8	11.7	-9.09	-107.8	554.8	223.0	211.5	11.51	19.378		
2,400.0	2,333.2	2,342.6	2,237.1	9.7	12.7	-9.41	-116.7	596.5	226.9	214.6	12.25	18.518		
2,500.0	2,425.2	2,442.5	2,327.5	10.5	13.6	-9.73	-125.5	638.2	230.8	217.8	13.01	17.741		
2,600.0	2,517.1	2,542.4	2,417.8	11.3	14.5	-10.03	-134.4	679.9	234.8	221.0	13.78	17.037		
2,700.0	2,609.1	2,642.4	2,508.2	12.1	15.4	-10.33	-143.3	721.6	238.8	224.2	14.56	16.397		
2,800.0	2,701.0	2,742.3	2,598.5	12.9	16.3	-10.61	-152.2	763.3	242.7	227.4	15.35	15.813		
2,900.0	2,793.0	2,842.2	2,688.9	13.8	17.3	-10.89	-161.0	805.0	246.7	230.5	16.15	15.278		
3,000.0	2,885.0	2,942.1	2,779.3	14.6	18.2	-11.15	-169.9	846.7	250.7	233.7	16.95	14.787		
3,100.0	2,976.9	3,042.0	2,869.6	15.4	19.1	-11.41	-178.8	888.4	254.7	236.9	17.76	14.335		
3,200.0	3,068.9	3,141.9	2,960.0	16.3	20.0	-11.66	-187.7	930.1	258.6	240.1	18.58	13.918		
3,300.0	3,160.9	3,241.8	3,050.3	17.1	21.0	-11.90	-196.6	971.8	262.6	243.2	19.41	13.531		
3,400.0	3,252.8	3,341.8	3,140.7	18.0	21.9	-12.14	-205.4	1,013.5	266.6	246.4	20.24	13.172		
3,500.0	3,344.8	3,441.7	3,231.1	18.8	22.8	-12.37	-214.3	1,055.2	270.6	249.5	21.08	12.838		
3,600.0	3,436.7	3,541.6	3,321.4	19.7	23.8	-12.59	-223.2	1,096.9	274.6	252.7	21.93	12.526		
3,700.0	3,528.7	3,641.5	3,411.8	20.5	24.7	-12.81	-232.1	1,138.6	278.6	255.9	22.78	12.234		
3,800.0	3,620.7	3,741.4	3,502.1	21.3	25.6	-13.02	-240.9	1,180.3	282.7	259.0	23.63	11.961		
3,900.0	3,712.6	3,841.3	3,592.5	22.2	26.6	-13.22	-249.8	1,222.1	286.7	262.2	24.49	11.705		
4,000.0	3,804.6	3,941.2	3,682.9	23.0	27.5	-13.42	-258.7	1,263.8	290.7	265.3	25.36	11.465		
4,100.0	3,896.6	4,041.2	3,773.2	23.9	28.4	-13.61	-267.6	1,305.5	294.7	268.5	26.23	11.238		
4,200.0	3,988.5	4,141.1	3,863.6	24.7	29.3	-13.80	-276.4	1,347.2	298.7	271.6	27.10	11.024		
4,300.0	4,080.5	4,241.0	3,953.9	25.6	30.3	-13.98	-285.3	1,388.9	302.8	274.8	27.98	10.822		
4,400.0	4,172.4	4,340.9	4,044.3	26.4	31.2	-14.16	-294.2	1,430.6	306.8	277.9	28.86	10.631		
4,500.0	4,264.4	4,440.8	4,134.7	27.3	32.1	-14.33	-303.1	1,472.3	310.8	281.1	29.75	10.449		
4,600.0	4,356.4	4,540.7	4,225.0	28.1	33.1	-14.50	-311.9	1,514.0	314.9	284.2	30.64	10.278		
4,700.0	4,448.3	4,640.6	4,315.4	29.0	34.0	-14.66	-320.8	1,555.7	318.9	287.4	31.53	10.114		
4,800.0	4,540.3	4,740.6	4,405.7	29.8	34.9	-14.82	-329.7	1,597.4	323.0	290.5	32.43	9.959		
4,900.0	4,632.3	4,840.5	4,496.1	30.7	35.9	-14.98	-338.6	1,639.1	327.0	293.7	33.33	9.811		
5,000.0	4,724.2	4,940.4	4,586.5	31.5	36.8	-15.13	-347.5	1,680.8	331.1	296.8	34.23	9.670		
5,100.0	4,816.2	5,040.3	4,676.8	32.4	37.7	-15.28	-356.3	1,722.5	335.1	300.0	35.14	9.536		



<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham R-16-9-CHZ
<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 R-16-9-CHZ	<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	4,908.1	5,140.2	4,767.2	33.2	38.7	-15.43	-365.2	1,764.2	339.2	303.1	36.05	9.408	
5,300.0	5,000.1	5,240.1	4,857.5	34.1	39.6	-15.57	-374.1	1,805.9	343.2	306.3	36.97	9.285	
5,400.0	5,092.1	5,340.0	4,947.9	34.9	40.5	-15.71	-383.0	1,847.6	347.3	309.4	37.88	9.167	
5,500.0	5,184.0	5,440.0	5,038.3	35.8	41.5	-15.84	-391.8	1,889.3	351.3	312.5	38.80	9.055	
5,600.0	5,276.0	5,539.9	5,128.6	36.6	42.4	-15.97	-400.7	1,931.0	355.4	315.7	39.72	8.947	
5,700.0	5,368.0	5,639.8	5,219.0	37.5	43.3	-16.10	-409.6	1,972.7	359.5	318.8	40.65	8.843	
5,800.0	5,459.9	5,739.7	5,309.3	38.3	44.3	-16.23	-418.5	2,014.4	363.5	322.0	41.58	8.744	
5,900.0	5,551.9	5,839.6	5,399.7	39.2	45.2	-16.35	-427.3	2,056.1	367.6	325.1	42.50	8.648	
6,000.0	5,644.1	5,939.4	5,489.9	39.9	46.1	0.98	-436.2	2,097.8	371.4	328.4	42.99	8.640	
6,100.0	5,736.1	6,037.5	5,578.7	40.5	47.0	21.62	-444.9	2,138.7	375.1	332.9	42.20	8.889	
6,200.0	5,825.9	6,136.3	5,668.3	41.1	47.8	39.38	-447.3	2,180.1	380.1	339.0	41.15	9.237	
6,300.0	5,911.9	6,238.9	5,760.7	41.6	48.6	52.89	-435.4	2,222.7	386.6	346.0	40.61	9.521	
6,400.0	5,992.4	6,345.6	5,854.2	42.0	49.3	63.09	-407.8	2,265.8	394.4	353.8	40.54	9.727	
6,500.0	6,065.7	6,456.9	5,946.6	42.3	49.9	70.92	-363.0	2,308.4	402.9	362.1	40.79	9.877	
6,600.0	6,130.6	6,572.9	6,035.1	42.6	50.4	77.00	-300.1	2,349.1	411.7	370.6	41.16	10.002	
6,700.0	6,185.7	6,693.7	6,116.2	42.8	50.8	81.71	-218.9	2,386.4	420.3	378.7	41.52	10.123	
6,800.0	6,229.9	6,819.1	6,186.0	42.9	51.2	85.27	-120.0	2,418.4	427.9	386.0	41.84	10.227	
6,900.0	6,262.4	6,948.4	6,240.4	43.1	51.4	87.80	-5.6	2,443.4	434.0	391.8	42.21	10.281	
7,000.0	6,282.5	7,080.8	6,276.0	43.1	51.6	89.37	120.7	2,459.6	438.0	395.2	42.85	10.223	
7,100.0	6,290.0	7,215.0	6,289.9	43.2	51.7	89.99	253.8	2,465.8	439.8	395.9	43.90	10.017	
7,200.0	6,290.0	7,318.8	6,290.0	43.3	51.7	90.00	357.6	2,465.7	439.8	394.7	45.09	9.755	
7,300.0	6,290.0	7,418.8	6,290.0	43.4	51.8	90.00	457.6	2,465.5	439.8	393.2	46.61	9.436	
7,400.0	6,290.0	7,518.8	6,290.0	43.6	52.0	90.00	557.6	2,465.4	439.8	391.4	48.38	9.090	
7,500.0	6,290.0	7,618.8	6,290.0	43.8	52.1	90.00	657.6	2,465.2	439.8	389.4	50.39	8.728	
7,600.0	6,290.0	7,718.8	6,290.0	44.1	52.4	90.00	757.6	2,465.1	439.8	387.2	52.61	8.361	
7,700.0	6,290.0	7,818.8	6,290.0	44.5	52.6	90.00	857.6	2,464.9	439.8	384.8	55.00	7.997	
7,800.0	6,290.0	7,918.8	6,290.0	44.9	53.0	90.00	957.6	2,464.8	439.8	382.3	57.55	7.643	
7,900.0	6,290.0	8,018.8	6,290.0	45.5	53.4	90.00	1,057.6	2,464.6	439.8	379.6	60.23	7.302	
8,000.0	6,290.0	8,118.8	6,290.0	46.1	53.8	90.00	1,157.6	2,464.4	439.8	376.8	63.04	6.977	
8,100.0	6,290.0	8,218.8	6,290.0	46.8	54.3	90.00	1,257.6	2,464.3	439.8	373.9	65.95	6.669	
8,200.0	6,290.0	8,318.8	6,290.0	47.6	54.9	90.00	1,357.6	2,464.1	439.8	370.9	68.95	6.379	
8,300.0	6,290.0	8,418.8	6,290.0	48.4	55.5	90.00	1,457.6	2,464.0	439.9	367.8	72.03	6.106	
8,400.0	6,290.0	8,518.8	6,290.0	49.4	56.2	90.00	1,557.6	2,463.8	439.9	364.7	75.18	5.850	
8,500.0	6,290.0	8,618.8	6,290.0	50.4	57.0	90.00	1,657.6	2,463.7	439.9	361.5	78.40	5.611	
8,600.0	6,290.0	8,718.8	6,290.0	51.5	57.8	90.00	1,757.6	2,463.5	439.9	358.2	81.66	5.386	
8,700.0	6,290.0	8,818.8	6,290.0	52.6	58.7	90.00	1,857.6	2,463.4	439.9	354.9	84.98	5.176	
8,800.0	6,290.0	8,918.8	6,290.0	53.8	59.7	90.00	1,957.6	2,463.2	439.9	351.5	88.34	4.979	
8,900.0	6,290.0	9,018.8	6,290.0	55.1	60.7	90.00	2,057.6	2,463.1	439.9	348.1	91.73	4.795	
9,000.0	6,290.0	9,118.8	6,290.0	56.4	61.8	90.00	2,157.6	2,462.9	439.9	344.7	95.16	4.622	
9,100.0	6,290.0	9,218.8	6,290.0	57.8	62.9	90.00	2,257.6	2,462.8	439.9	341.3	98.62	4.460	
9,200.0	6,290.0	9,318.8	6,290.0	59.2	64.1	90.00	2,357.6	2,462.6	439.9	337.8	102.11	4.308	
9,300.0	6,290.0	9,418.8	6,290.0	60.6	65.4	90.00	2,457.6	2,462.5	439.9	334.3	105.62	4.165	
9,400.0	6,290.0	9,518.8	6,290.0	62.1	66.6	90.00	2,557.6	2,462.3	439.9	330.8	109.16	4.030	
9,500.0	6,290.0	9,618.8	6,290.0	63.6	68.0	90.00	2,657.6	2,462.2	439.9	327.2	112.71	3.903	
9,600.0	6,290.0	9,718.8	6,290.0	65.2	69.3	90.00	2,757.6	2,462.0	439.9	323.6	116.28	3.783	
9,700.0	6,290.0	9,818.8	6,290.0	66.7	70.7	90.00	2,857.6	2,461.9	439.9	320.1	119.87	3.670	
9,800.0	6,290.0	9,918.8	6,290.0	68.3	72.2	90.00	2,957.6	2,461.7	439.9	316.5	123.47	3.563	
9,900.0	6,290.0	10,018.8	6,290.0	69.9	73.6	90.00	3,057.6	2,461.6	439.9	312.8	127.09	3.462	
10,000.0	6,290.0	10,118.8	6,290.0	71.5	75.1	90.00	3,157.6	2,461.4	439.9	309.2	130.72	3.365	
10,100.0	6,290.0	10,218.8	6,290.0	73.2	76.6	90.00	3,257.6	2,461.3	439.9	305.6	134.37	3.274	
10,200.0	6,290.0	10,318.8	6,290.0	74.9	78.2	90.00	3,357.6	2,461.1	439.9	301.9	138.02	3.188	
10,300.0	6,290.0	10,418.8	6,290.0	76.5	79.7	90.00	3,457.6	2,461.0	440.0	298.3	141.68	3.105	

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 R-16-9-CHZ
<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 R-16-9-CHZ	<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	6,290.0	10,518.8	6,290.0	78.2	81.3	90.00	3,557.6	2,460.8	440.0	294.6	145.35	3.027		
10,500.0	6,290.0	10,618.8	6,290.0	79.9	82.9	90.00	3,657.6	2,460.6	440.0	290.9	149.04	2.952		
10,600.0	6,290.0	10,718.8	6,290.0	81.6	84.5	90.00	3,757.6	2,460.5	440.0	287.2	152.72	2.881		
10,700.0	6,290.0	10,818.8	6,290.0	83.3	86.2	90.00	3,857.6	2,460.3	440.0	283.6	156.42	2.813		
10,800.0	6,290.0	10,918.8	6,290.0	85.1	87.8	90.00	3,957.6	2,460.2	440.0	279.9	160.12	2.748		
10,900.0	6,290.0	11,018.8	6,290.0	86.8	89.5	90.00	4,057.6	2,460.0	440.0	276.2	163.83	2.686		
11,000.0	6,290.0	11,118.8	6,290.0	88.6	91.1	90.00	4,157.6	2,459.9	440.0	272.4	167.55	2.626		
11,100.0	6,290.0	11,218.8	6,290.0	90.3	92.8	90.00	4,257.6	2,459.7	440.0	268.7	171.27	2.569		
11,200.0	6,290.0	11,318.8	6,290.0	92.1	94.5	90.00	4,357.6	2,459.6	440.0	265.0	174.99	2.514		
11,300.0	6,290.0	11,418.8	6,290.0	93.9	96.2	90.00	4,457.6	2,459.4	440.0	261.3	178.73	2.462		
11,400.0	6,290.0	11,518.8	6,290.0	95.6	97.9	90.00	4,557.6	2,459.3	440.0	257.5	182.46	2.412		
11,500.0	6,290.0	11,618.8	6,290.0	97.4	99.7	90.00	4,657.6	2,459.1	440.0	253.8	186.20	2.363		
11,600.0	6,290.0	11,718.8	6,290.0	99.2	101.4	90.00	4,757.6	2,459.0	440.0	250.1	189.94	2.317		
11,700.0	6,290.0	11,818.8	6,290.0	101.0	103.1	90.00	4,857.6	2,458.8	440.0	246.3	193.69	2.272		
11,800.0	6,290.0	11,918.8	6,290.0	102.8	104.9	90.00	4,957.6	2,458.7	440.0	242.6	197.44	2.229		
11,900.0	6,290.0	12,018.8	6,290.0	104.6	106.7	90.00	5,057.6	2,458.5	440.0	238.8	201.20	2.187		
12,000.0	6,290.0	12,118.8	6,290.0	106.4	108.4	90.00	5,157.6	2,458.4	440.0	235.1	204.96	2.147		
12,100.0	6,290.0	12,218.8	6,290.0	108.2	110.2	90.00	5,257.6	2,458.2	440.0	231.3	208.72	2.108		
12,200.0	6,290.0	12,318.8	6,290.0	110.0	112.0	90.00	5,357.6	2,458.1	440.1	227.6	212.48	2.071		
12,300.0	6,290.0	12,418.8	6,290.0	111.9	113.7	90.00	5,457.6	2,457.9	440.1	223.8	216.25	2.035		
12,400.0	6,290.0	12,518.8	6,290.0	113.7	115.5	90.00	5,557.6	2,457.8	440.1	220.0	220.02	2.000		
12,500.0	6,290.0	12,618.8	6,290.0	115.5	117.3	90.00	5,657.6	2,457.6	440.1	216.3	223.79	1.966		
12,600.0	6,290.0	12,718.8	6,290.0	117.3	119.1	90.00	5,757.6	2,457.5	440.1	212.5	227.56	1.934		
12,700.0	6,290.0	12,818.8	6,290.0	119.2	120.9	90.00	5,857.6	2,457.3	440.1	208.7	231.34	1.902		
12,800.0	6,290.0	12,918.8	6,290.0	121.0	122.7	90.00	5,957.6	2,457.2	440.1	205.0	235.12	1.872		
12,900.0	6,290.0	13,018.8	6,290.0	122.8	124.5	90.00	6,057.6	2,457.0	440.1	201.2	238.90	1.842		
13,000.0	6,290.0	13,118.8	6,290.0	124.7	126.3	90.00	6,157.6	2,456.9	440.1	197.4	242.68	1.813		
13,100.0	6,290.0	13,218.8	6,290.0	126.5	128.1	90.00	6,257.6	2,456.7	440.1	193.6	246.46	1.786		
13,200.0	6,290.0	13,318.8	6,290.0	128.4	129.9	90.00	6,357.6	2,456.5	440.1	189.9	250.25	1.759		
13,300.0	6,290.0	13,418.8	6,290.0	130.2	131.8	90.00	6,457.6	2,456.4	440.1	186.1	254.04	1.732		
13,400.0	6,290.0	13,518.8	6,290.0	132.1	133.6	90.00	6,557.6	2,456.2	440.1	182.3	257.82	1.707		
13,500.0	6,290.0	13,618.8	6,290.0	133.9	135.4	90.00	6,657.6	2,456.1	440.1	178.5	261.61	1.682		
13,600.0	6,290.0	13,718.8	6,290.0	135.8	137.2	90.00	6,757.6	2,455.9	440.1	174.7	265.41	1.658		
13,700.0	6,290.0	13,818.8	6,290.0	137.6	139.1	90.00	6,857.6	2,455.8	440.1	170.9	269.20	1.635		
13,800.0	6,290.0	13,918.8	6,290.0	139.5	140.9	90.00	6,957.6	2,455.6	440.1	167.1	272.99	1.612		
13,900.0	6,290.0	14,018.8	6,290.0	141.3	142.7	90.00	7,057.6	2,455.5	440.1	163.3	276.79	1.590		
14,000.0	6,290.0	14,118.8	6,290.0	143.2	144.6	90.00	7,157.6	2,455.3	440.1	159.6	280.59	1.569		
14,100.0	6,290.0	14,218.8	6,290.0	145.1	146.4	90.00	7,257.6	2,455.2	440.1	155.8	284.39	1.548		
14,164.8	6,290.0	14,283.6	6,290.0	146.3	147.6	90.00	7,322.4	2,455.1	440.2	153.3	286.85	1.534		
14,165.0	6,290.0	14,283.8	6,290.0	146.3	147.6	90.00	7,322.6	2,455.1	440.0	153.1	286.86	1.534 SF		

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 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 CC, ES	
300.0	300.0	297.7	297.7	0.6	0.5	89.66	0.4	69.1	69.2	68.1	1.11	62.491	
400.0	400.0	395.2	395.0	0.8	0.8	90.42	-0.5	74.0	74.2	72.6	1.55	47.992	
500.0	500.0	492.2	491.7	1.0	1.0	91.48	-2.1	82.1	82.5	80.5	2.01	41.114	
600.0	600.0	588.6	587.4	1.2	1.3	92.65	-4.3	93.3	94.3	91.8	2.50	37.718	
700.0	700.0	684.1	681.8	1.5	1.6	93.77	-7.1	107.5	109.3	106.3	3.03	36.115	
800.0	800.0	778.5	774.6	1.7	1.9	94.78	-10.4	124.6	127.6	124.0	3.59	35.499	
900.0	900.0	872.0	865.9	1.9	2.4	-8.95	-14.3	144.5	147.5	143.7	3.82	38.591	
1,000.0	999.8	964.9	955.9	2.1	2.8	-8.38	-18.7	167.1	167.1	162.9	4.26	39.263	
1,100.0	1,099.5	1,057.3	1,044.6	2.3	3.3	-8.00	-23.7	192.5	186.6	181.9	4.71	39.641	
1,200.0	1,198.7	1,149.2	1,131.9	2.6	3.9	-7.74	-29.1	220.4	205.8	200.7	5.17	39.792	
1,300.0	1,297.5	1,240.5	1,217.8	2.8	4.5	-7.58	-35.1	250.9	224.8	219.1	5.66	39.747	
1,400.0	1,395.6	1,331.4	1,302.2	3.2	5.2	-7.49	-41.5	283.9	243.4	237.3	6.14	39.627	
1,500.0	1,493.1	1,421.7	1,385.0	3.5	5.9	-7.45	-48.5	319.3	261.8	255.2	6.66	39.285	
1,600.0	1,589.6	1,511.6	1,466.3	4.0	6.7	-7.46	-55.8	357.1	279.9	272.7	7.20	38.864	
1,700.0	1,685.3	1,606.9	1,551.4	4.5	7.6	-7.52	-64.1	399.2	297.0	289.2	7.78	38.179	
1,800.0	1,779.8	1,706.0	1,639.7	5.1	8.6	-7.66	-72.6	443.1	310.8	302.5	8.38	37.074	
1,900.0	1,873.2	1,805.4	1,728.4	5.8	9.6	-7.88	-81.3	487.3	321.3	312.3	9.01	35.643	
2,000.0	1,965.3	1,905.1	1,817.3	6.5	10.5	-8.18	-89.9	531.5	328.6	318.9	9.69	33.913	
2,100.0	2,057.3	2,004.9	1,906.3	7.3	11.5	-8.49	-98.6	575.8	335.4	325.0	10.41	32.210	
2,200.0	2,149.3	2,104.6	1,995.3	8.1	12.5	-8.79	-107.2	620.1	342.2	331.1	11.15	30.690	
2,300.0	2,241.2	2,204.4	2,084.2	8.8	13.5	-9.07	-115.9	664.3	349.1	337.2	11.90	29.329	
2,400.0	2,333.2	2,304.1	2,173.2	9.7	14.5	-9.35	-124.5	708.6	355.9	343.2	12.66	28.105	
2,500.0	2,425.2	2,403.9	2,262.2	10.5	15.5	-9.61	-133.1	752.9	362.7	349.3	13.43	27.001	
2,600.0	2,517.1	2,503.6	2,351.2	11.3	16.4	-9.87	-141.8	797.1	369.6	355.4	14.21	26.001	
2,700.0	2,609.1	2,603.4	2,440.1	12.1	17.4	-10.12	-150.4	841.4	376.4	361.4	15.00	25.091	
2,800.0	2,701.0	2,703.1	2,529.1	12.9	18.4	-10.35	-159.1	885.7	383.3	367.5	15.80	24.261	
2,900.0	2,793.0	2,802.9	2,618.1	13.8	19.4	-10.58	-167.7	929.9	390.2	373.6	16.60	23.501	
3,000.0	2,885.0	2,902.6	2,707.0	14.6	20.4	-10.80	-176.4	974.2	397.0	379.6	17.41	22.803	
3,100.0	2,976.9	3,002.4	2,796.0	15.4	21.4	-11.02	-185.0	1,018.5	403.9	385.7	18.23	22.160	
3,200.0	3,068.9	3,102.1	2,885.0	16.3	22.4	-11.23	-193.7	1,062.7	410.8	391.7	19.05	21.565	
3,300.0	3,160.9	3,201.9	2,974.0	17.1	23.4	-11.43	-202.3	1,107.0	417.7	397.8	19.88	21.015	
3,400.0	3,252.8	3,301.6	3,062.9	18.0	24.4	-11.62	-211.0	1,151.3	424.6	403.9	20.71	20.503	
3,500.0	3,344.8	3,401.4	3,151.9	18.8	25.4	-11.81	-219.6	1,195.5	431.5	409.9	21.54	20.027	
3,600.0	3,436.7	3,501.1	3,240.9	19.7	26.4	-11.99	-228.3	1,239.8	438.4	416.0	22.39	19.582	
3,700.0	3,528.7	3,600.9	3,329.9	20.5	27.4	-12.16	-236.9	1,284.1	445.3	422.0	23.23	19.167	
3,800.0	3,620.7	3,700.6	3,418.8	21.3	28.3	-12.33	-245.6	1,328.3	452.2	428.1	24.08	18.777	
3,900.0	3,712.6	3,800.4	3,507.8	22.2	29.3	-12.50	-254.2	1,372.6	459.1	434.2	24.93	18.412	
4,000.0	3,804.6	3,900.1	3,596.8	23.0	30.3	-12.66	-262.9	1,416.9	466.0	440.2	25.79	18.068	
4,100.0	3,896.6	3,999.9	3,685.7	23.9	31.3	-12.81	-271.5	1,461.1	472.9	446.3	26.65	17.744	
4,200.0	3,988.5	4,099.7	3,774.7	24.7	32.3	-12.96	-280.1	1,505.4	479.9	452.3	27.52	17.438	
4,300.0	4,080.5	4,199.4	3,863.7	25.6	33.3	-13.11	-288.8	1,549.7	486.8	458.4	28.39	17.149	
4,400.0	4,172.4	4,299.2	3,952.7	26.4	34.3	-13.25	-297.4	1,593.9	493.7	464.5	29.26	16.875	
4,500.0	4,264.4	4,398.9	4,041.6	27.3	35.3	-13.39	-306.1	1,638.2	500.6	470.5	30.13	16.616	
4,600.0	4,356.4	4,498.7	4,130.6	28.1	36.3	-13.53	-314.7	1,682.5	507.6	476.6	31.01	16.370	
4,700.0	4,448.3	4,598.4	4,219.6	29.0	37.3	-13.66	-323.4	1,726.7	514.5	482.6	31.89	16.136	
4,800.0	4,540.3	4,698.2	4,308.6	29.8	38.3	-13.79	-332.0	1,771.0	521.5	488.7	32.77	15.913	
4,900.0	4,632.3	4,797.9	4,397.5	30.7	39.3	-13.91	-340.7	1,815.3	528.4	494.7	33.65	15.701	
5,000.0	4,724.2	4,897.7	4,486.5	31.5	40.3	-14.03	-349.3	1,859.5	535.3	500.8	34.54	15.499	
5,100.0	4,816.2	4,997.4	4,575.5	32.4	41.3	-14.15	-358.0	1,903.8	542.3	506.9	35.43	15.306	

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham R-16-9-CHZ
<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 R-16-9-CHZ	<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	4,908.1	5,097.2	4,664.4	33.2	42.3	-14.27	-366.6	1,948.1	549.2	512.9	36.32	15.121	
5,300.0	5,000.1	5,196.9	4,753.4	34.1	43.3	-14.38	-375.3	1,992.3	556.2	519.0	37.22	14.945	
5,400.0	5,092.1	5,296.7	4,842.4	34.9	44.3	-14.49	-383.9	2,036.6	563.2	525.0	38.11	14.776	
5,500.0	5,184.0	5,396.4	4,931.4	35.8	45.3	-14.59	-392.6	2,080.9	570.1	531.1	39.01	14.614	
5,600.0	5,276.0	5,496.2	5,020.3	36.6	46.3	-14.70	-401.2	2,125.1	577.1	537.2	39.91	14.459	
5,700.0	5,368.0	5,595.9	5,109.3	37.5	47.3	-14.80	-409.8	2,169.4	584.0	543.2	40.81	14.310	
5,800.0	5,459.9	5,695.7	5,198.3	38.3	48.2	-14.90	-418.5	2,213.7	591.0	549.3	41.72	14.166	
5,900.0	5,551.9	5,795.4	5,287.3	39.2	49.2	-15.00	-427.1	2,257.9	598.0	555.3	42.62	14.029	
6,000.0	5,644.1	5,895.0	5,376.1	39.9	50.2	1.82	-435.8	2,302.1	604.8	561.3	43.43	13.925	
6,100.0	5,736.1	5,993.1	5,463.6	40.5	51.2	21.14	-444.2	2,345.7	611.5	568.1	43.40	14.091	
6,200.0	5,825.9	6,092.1	5,552.2	41.1	52.0	37.03	-444.2	2,389.7	618.8	575.8	43.06	14.370	
6,300.0	5,911.9	6,194.6	5,642.9	41.6	52.8	48.74	-429.9	2,434.8	626.7	583.9	42.81	14.638	
6,400.0	5,992.4	6,300.8	5,734.1	42.0	53.6	57.26	-400.0	2,480.2	634.9	592.2	42.72	14.861	
6,500.0	6,065.7	6,411.1	5,823.5	42.3	54.2	63.56	-353.4	2,524.5	643.2	600.4	42.82	15.019	
6,600.0	6,130.6	6,525.5	5,908.4	42.6	54.8	68.29	-289.4	2,566.6	651.2	608.0	43.13	15.098	
6,700.0	6,185.7	6,644.2	5,985.6	42.8	55.3	71.86	-208.1	2,604.9	658.5	614.9	43.63	15.095	
6,800.0	6,229.9	6,766.8	6,051.7	42.9	55.6	74.52	-110.3	2,637.6	664.9	620.6	44.32	15.003	
6,900.0	6,262.4	6,892.9	6,103.1	43.1	55.9	76.39	1.9	2,663.0	669.8	624.6	45.21	14.817	
7,000.0	6,282.5	7,021.6	6,136.5	43.1	56.1	77.54	124.9	2,679.4	673.1	626.8	46.33	14.528	
7,100.0	6,290.0	7,152.0	6,149.8	43.2	56.2	78.01	254.2	2,685.8	674.5	626.8	47.71	14.138	
7,200.0	6,290.0	7,255.7	6,150.0	43.3	56.2	78.02	358.0	2,685.7	674.5	625.5	49.04	13.753	
7,300.0	6,290.0	7,355.7	6,150.0	43.4	56.3	78.02	458.0	2,685.5	674.5	623.9	50.60	13.331	
7,400.0	6,290.0	7,455.7	6,150.0	43.6	56.4	78.02	558.0	2,685.4	674.5	622.1	52.38	12.878	
7,500.0	6,290.0	7,555.7	6,150.0	43.8	56.5	78.02	658.0	2,685.2	674.5	620.2	54.36	12.408	
7,600.0	6,290.0	7,655.7	6,150.0	44.1	56.7	78.02	758.0	2,685.1	674.5	618.0	56.52	11.933	
7,700.0	6,290.0	7,755.7	6,150.0	44.5	57.0	78.02	858.0	2,684.9	674.5	615.7	58.85	11.461	
7,800.0	6,290.0	7,855.7	6,150.0	44.9	57.3	78.02	958.0	2,684.8	674.5	613.2	61.32	11.000	
7,900.0	6,290.0	7,955.7	6,150.0	45.5	57.6	78.02	1,058.0	2,684.6	674.5	610.6	63.92	10.553	
8,000.0	6,290.0	8,055.7	6,150.0	46.1	58.0	78.02	1,158.0	2,684.4	674.5	607.9	66.63	10.123	
8,100.0	6,290.0	8,155.7	6,150.0	46.8	58.4	78.02	1,258.0	2,684.3	674.5	605.1	69.44	9.714	
8,200.0	6,290.0	8,255.7	6,150.0	47.6	58.9	78.02	1,358.0	2,684.1	674.5	602.2	72.33	9.325	
8,300.0	6,290.0	8,355.7	6,150.0	48.4	59.5	78.02	1,458.0	2,684.0	674.5	599.2	75.31	8.957	
8,400.0	6,290.0	8,455.7	6,150.0	49.4	60.1	78.02	1,558.0	2,683.8	674.5	596.2	78.35	8.609	
8,500.0	6,290.0	8,555.7	6,150.0	50.4	60.7	78.02	1,658.0	2,683.7	674.5	593.1	81.45	8.281	
8,600.0	6,290.0	8,655.7	6,150.0	51.5	61.4	78.02	1,758.0	2,683.5	674.5	589.9	84.61	7.972	
8,700.0	6,290.0	8,755.7	6,150.0	52.6	62.2	78.02	1,858.0	2,683.3	674.5	586.7	87.81	7.681	
8,800.0	6,290.0	8,855.7	6,150.0	53.8	63.1	78.02	1,958.0	2,683.2	674.5	583.5	91.06	7.407	
8,900.0	6,290.0	8,955.7	6,150.0	55.1	64.0	78.02	2,058.0	2,683.0	674.5	580.2	94.35	7.149	
9,000.0	6,290.0	9,055.7	6,150.0	56.4	64.9	78.02	2,158.0	2,682.9	674.5	576.8	97.67	6.906	
9,100.0	6,290.0	9,155.7	6,150.0	57.8	66.0	78.02	2,258.0	2,682.7	674.5	573.5	101.02	6.677	
9,200.0	6,290.0	9,255.7	6,150.0	59.2	67.0	78.02	2,358.0	2,682.6	674.5	570.1	104.41	6.461	
9,300.0	6,290.0	9,355.7	6,150.0	60.6	68.2	78.02	2,458.0	2,682.4	674.5	566.7	107.81	6.256	
9,400.0	6,290.0	9,455.7	6,150.0	62.1	69.3	78.02	2,558.0	2,682.2	674.5	563.3	111.25	6.063	
9,500.0	6,290.0	9,555.7	6,150.0	63.6	70.5	78.02	2,658.0	2,682.1	674.5	559.8	114.70	5.881	
9,600.0	6,290.0	9,655.7	6,150.0	65.2	71.8	78.02	2,758.0	2,681.9	674.5	556.4	118.17	5.708	
9,700.0	6,290.0	9,755.7	6,150.0	66.7	73.1	78.02	2,858.0	2,681.8	674.5	552.9	121.66	5.544	
9,800.0	6,290.0	9,855.7	6,150.0	68.3	74.5	78.02	2,958.0	2,681.6	674.5	549.4	125.17	5.389	
9,900.0	6,290.0	9,955.7	6,150.0	69.9	75.8	78.02	3,058.0	2,681.5	674.5	545.8	128.69	5.242	
10,000.0	6,290.0	10,055.7	6,150.0	71.5	77.2	78.02	3,158.0	2,681.3	674.5	542.3	132.22	5.102	
10,100.0	6,290.0	10,155.7	6,150.0	73.2	78.7	78.02	3,258.0	2,681.2	674.5	538.8	135.77	4.968	
10,200.0	6,290.0	10,255.7	6,150.0	74.9	80.1	78.02	3,358.0	2,681.0	674.5	535.2	139.33	4.841	
10,300.0	6,290.0	10,355.7	6,150.0	76.5	81.6	78.02	3,458.0	2,680.8	674.5	531.6	142.90	4.720	

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 R-16-9-CHZ
<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 R-16-9-CHZ	<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		
10,400.0	6,290.0	10,455.7	6,150.0	78.2	83.2	78.02	3,558.0	2,680.7	674.5	528.0	146.48	4.605		
10,500.0	6,290.0	10,555.7	6,150.0	79.9	84.7	78.02	3,658.0	2,680.5	674.5	524.5	150.07	4.495		
10,600.0	6,290.0	10,655.7	6,150.0	81.6	86.3	78.02	3,758.0	2,680.4	674.5	520.9	153.66	4.390		
10,700.0	6,290.0	10,755.7	6,150.0	83.3	87.8	78.02	3,858.0	2,680.2	674.5	517.3	157.27	4.289		
10,800.0	6,290.0	10,855.7	6,150.0	85.1	89.4	78.02	3,958.0	2,680.1	674.5	513.6	160.88	4.193		
10,900.0	6,290.0	10,955.7	6,150.0	86.8	91.1	78.02	4,058.0	2,679.9	674.5	510.0	164.50	4.100		
11,000.0	6,290.0	11,055.7	6,150.0	88.6	92.7	78.02	4,158.0	2,679.7	674.5	506.4	168.13	4.012		
11,100.0	6,290.0	11,155.7	6,150.0	90.3	94.3	78.02	4,258.0	2,679.6	674.5	502.8	171.76	3.927		
11,200.0	6,290.0	11,255.7	6,150.0	92.1	96.0	78.02	4,358.0	2,679.4	674.5	499.1	175.40	3.846		
11,300.0	6,290.0	11,355.7	6,150.0	93.9	97.6	78.02	4,458.0	2,679.3	674.5	495.5	179.05	3.767		
11,400.0	6,290.0	11,455.7	6,150.0	95.6	99.3	78.02	4,558.0	2,679.1	674.5	491.8	182.70	3.692		
11,500.0	6,290.0	11,555.7	6,150.0	97.4	101.0	78.02	4,658.0	2,679.0	674.5	488.2	186.35	3.620		
11,600.0	6,290.0	11,655.7	6,150.0	99.2	102.7	78.02	4,758.0	2,678.8	674.5	484.5	190.01	3.550		
11,700.0	6,290.0	11,755.7	6,150.0	101.0	104.4	78.02	4,858.0	2,678.6	674.5	480.9	193.67	3.483		
11,800.0	6,290.0	11,855.7	6,150.0	102.8	106.2	78.02	4,958.0	2,678.5	674.5	477.2	197.34	3.418		
11,900.0	6,290.0	11,955.7	6,150.0	104.6	107.9	78.02	5,058.0	2,678.3	674.5	473.5	201.01	3.356		
12,000.0	6,290.0	12,055.7	6,150.0	106.4	109.6	78.02	5,158.0	2,678.2	674.5	469.8	204.69	3.295		
12,100.0	6,290.0	12,155.7	6,150.0	108.2	111.4	78.02	5,258.0	2,678.0	674.5	466.2	208.36	3.237		
12,200.0	6,290.0	12,255.7	6,150.0	110.0	113.1	78.02	5,358.0	2,677.9	674.5	462.5	212.04	3.181		
12,300.0	6,290.0	12,355.7	6,150.0	111.9	114.9	78.02	5,458.0	2,677.7	674.5	458.8	215.73	3.127		
12,400.0	6,290.0	12,455.7	6,150.0	113.7	116.6	78.02	5,558.0	2,677.5	674.5	455.1	219.42	3.074		
12,500.0	6,290.0	12,555.7	6,150.0	115.5	118.4	78.02	5,658.0	2,677.4	674.5	451.4	223.11	3.023		
12,600.0	6,290.0	12,655.7	6,150.0	117.3	120.2	78.02	5,758.0	2,677.2	674.5	447.7	226.80	2.974		
12,700.0	6,290.0	12,755.7	6,150.0	119.2	121.9	78.02	5,858.0	2,677.1	674.5	444.0	230.49	2.926		
12,800.0	6,290.0	12,855.7	6,150.0	121.0	123.7	78.02	5,958.0	2,676.9	674.5	440.3	234.19	2.880		
12,900.0	6,290.0	12,955.7	6,150.0	122.8	125.5	78.02	6,058.0	2,676.8	674.5	436.6	237.89	2.835		
13,000.0	6,290.0	13,055.7	6,150.0	124.7	127.3	78.02	6,158.0	2,676.6	674.5	432.9	241.59	2.792		
13,100.0	6,290.0	13,155.7	6,150.0	126.5	129.1	78.02	6,258.0	2,676.5	674.5	429.2	245.30	2.750		
13,200.0	6,290.0	13,255.7	6,150.0	128.4	130.9	78.02	6,358.0	2,676.3	674.5	425.5	249.00	2.709		
13,300.0	6,290.0	13,355.7	6,150.0	130.2	132.7	78.02	6,458.0	2,676.1	674.5	421.8	252.71	2.669		
13,400.0	6,290.0	13,455.7	6,150.0	132.1	134.5	78.02	6,558.0	2,676.0	674.5	418.1	256.42	2.631		
13,500.0	6,290.0	13,555.7	6,150.0	133.9	136.3	78.02	6,658.0	2,675.8	674.5	414.4	260.13	2.593		
13,600.0	6,290.0	13,655.7	6,150.0	135.8	138.1	78.02	6,758.0	2,675.7	674.5	410.7	263.85	2.557		
13,700.0	6,290.0	13,755.7	6,150.0	137.6	140.0	78.02	6,858.0	2,675.5	674.5	407.0	267.56	2.521		
13,800.0	6,290.0	13,855.7	6,150.0	139.5	141.8	78.02	6,958.0	2,675.4	674.5	403.3	271.28	2.487		
13,900.0	6,290.0	13,955.7	6,150.0	141.3	143.6	78.02	7,058.0	2,675.2	674.5	399.5	275.00	2.453		
14,000.0	6,290.0	14,055.7	6,150.0	143.2	145.4	78.02	7,158.0	2,675.0	674.5	395.8	278.72	2.420		
14,100.0	6,290.0	14,155.7	6,150.0	145.1	147.3	78.02	7,258.0	2,674.9	674.5	392.1	282.44	2.388		
14,165.0	6,290.0	14,220.7	6,150.0	146.3	148.4	78.02	7,323.0	2,674.8	674.5	389.7	284.86	2.368		
14,165.0	6,290.0	14,220.8	6,150.0	146.3	148.4	78.02	7,323.0	2,674.8	674.4	389.5	284.85	2.367 SF		

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham R-16-9-CHZ
<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 R-16-9-CHZ	<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	-90.45	-0.4	-45.2	45.2					
100.0	100.0	100.0	100.0	0.1	0.1	-90.45	-0.4	-45.2	45.2	45.0	0.22	201.006		
200.0	200.0	200.0	200.0	0.3	0.3	-90.45	-0.4	-45.2	45.2	44.5	0.67	67.002		
300.0	300.0	300.0	300.0	0.6	0.6	-90.45	-0.4	-45.2	45.2	44.1	1.12	40.201		
400.0	400.0	400.0	400.0	0.8	0.8	-90.45	-0.4	-45.2	45.2	43.6	1.57	28.715		
500.0	500.0	500.0	500.0	1.0	1.0	-90.45	-0.4	-45.2	45.2	43.2	2.02	22.334		
600.0	600.0	600.0	600.0	1.2	1.2	-90.45	-0.4	-45.2	45.2	42.7	2.47	18.273		
700.0	700.0	700.0	700.0	1.5	1.5	-90.45	-0.4	-45.2	45.2	42.3	2.92	15.462		
800.0	800.0	800.0	800.0	1.7	1.7	-90.45	-0.4	-45.2	45.2	41.8	3.37	13.400 CC, ES		
900.0	900.0	900.0	900.0	1.9	1.9	165.53	-0.4	-45.2	46.9	43.1	3.80	12.321		
1,000.0	999.8	999.8	999.8	2.1	2.1	166.95	-0.4	-45.2	52.0	47.7	4.22	12.303		
1,100.0	1,099.5	1,099.5	1,099.5	2.3	2.4	168.78	-0.4	-45.2	60.5	55.8	4.64	13.022		
1,200.0	1,198.7	1,198.7	1,198.7	2.6	2.6	170.62	-0.4	-45.2	72.5	67.4	5.07	14.305		
1,300.0	1,297.5	1,300.4	1,300.4	2.8	2.8	172.05	-0.9	-43.5	86.3	80.8	5.47	15.768		
1,400.0	1,395.6	1,402.7	1,402.6	3.2	3.0	172.94	-2.6	-38.4	100.1	94.2	5.86	17.076		
1,500.0	1,493.1	1,505.6	1,505.0	3.5	3.2	173.50	-5.5	-29.7	113.8	107.6	6.26	18.188		
1,600.0	1,589.6	1,608.9	1,607.5	4.0	3.5	173.82	-9.5	-17.5	127.5	120.9	6.67	19.125		
1,700.0	1,685.3	1,712.8	1,710.0	4.5	3.7	173.97	-14.7	-1.7	141.1	134.1	7.09	19.901		
1,800.0	1,779.8	1,817.2	1,812.4	5.1	4.0	173.99	-21.2	17.7	154.6	147.1	7.53	20.529		
1,900.0	1,873.2	1,922.1	1,914.5	5.8	4.4	173.93	-28.8	40.8	168.0	160.0	7.99	21.017		
2,000.0	1,965.3	2,027.6	2,016.1	6.5	4.9	173.78	-37.7	67.5	180.9	172.4	8.51	21.251		
2,100.0	2,057.3	2,133.9	2,117.5	7.3	5.4	173.49	-47.8	98.1	190.7	181.6	9.10	20.962		
2,200.0	2,149.3	2,240.2	2,217.5	8.1	6.0	173.02	-59.0	132.1	196.9	187.2	9.73	20.244		
2,300.0	2,241.2	2,340.1	2,311.0	8.8	6.6	172.52	-70.1	165.5	201.6	191.3	10.37	19.448		
2,400.0	2,333.2	2,439.9	2,404.4	9.7	7.3	172.05	-81.1	198.9	206.4	195.3	11.03	18.710		
2,500.0	2,425.2	2,539.8	2,497.9	10.5	7.9	171.60	-92.2	232.3	211.1	199.4	11.71	18.028		
2,600.0	2,517.1	2,639.7	2,591.4	11.3	8.6	171.16	-103.2	265.7	215.8	203.4	12.40	17.398		
2,700.0	2,609.1	2,739.6	2,684.9	12.1	9.3	170.75	-114.3	299.1	220.6	207.4	13.12	16.817		
2,800.0	2,701.0	2,839.4	2,778.3	12.9	10.0	170.35	-125.4	332.5	225.3	211.5	13.84	16.279		
2,900.0	2,793.0	2,939.3	2,871.8	13.8	10.7	169.97	-136.4	365.9	230.1	215.5	14.58	15.781		
3,000.0	2,885.0	3,039.2	2,965.3	14.6	11.5	169.61	-147.5	399.3	234.9	219.5	15.33	15.320		
3,100.0	2,976.9	3,139.1	3,058.8	15.4	12.2	169.26	-158.5	432.7	239.6	223.6	16.09	14.892		
3,200.0	3,068.9	3,238.9	3,152.2	16.3	12.9	168.92	-169.6	466.1	244.4	227.6	16.86	14.495		
3,300.0	3,160.9	3,338.8	3,245.7	17.1	13.6	168.60	-180.6	499.5	249.2	231.6	17.65	14.125		
3,400.0	3,252.8	3,438.7	3,339.2	18.0	14.4	168.29	-191.7	532.9	254.1	235.6	18.44	13.780		
3,500.0	3,344.8	3,538.6	3,432.6	18.8	15.1	167.99	-202.7	566.3	258.9	239.6	19.24	13.457		
3,600.0	3,436.7	3,638.4	3,526.1	19.7	15.8	167.70	-213.8	599.7	263.7	243.7	20.04	13.156		
3,700.0	3,528.7	3,738.3	3,619.6	20.5	16.6	167.42	-224.8	633.1	268.5	247.7	20.86	12.873		
3,800.0	3,620.7	3,838.2	3,713.1	21.3	17.3	167.15	-235.9	666.5	273.4	251.7	21.68	12.608		
3,900.0	3,712.6	3,938.1	3,806.5	22.2	18.1	166.89	-246.9	699.9	278.2	255.7	22.51	12.359		
4,000.0	3,804.6	4,037.9	3,900.0	23.0	18.8	166.64	-258.0	733.3	283.1	259.7	23.35	12.124		
4,100.0	3,896.6	4,137.8	3,993.5	23.9	19.5	166.40	-269.0	766.7	287.9	263.7	24.19	11.903		
4,200.0	3,988.5	4,237.7	4,087.0	24.7	20.3	166.17	-280.1	800.1	292.8	267.7	25.04	11.695		
4,300.0	4,080.5	4,337.6	4,180.4	25.6	21.0	165.94	-291.2	833.5	297.6	271.8	25.89	11.498		
4,400.0	4,172.4	4,437.4	4,273.9	26.4	21.8	165.72	-302.2	866.9	302.5	275.8	26.75	11.311		
4,500.0	4,264.4	4,537.3	4,367.4	27.3	22.5	165.51	-313.3	900.3	307.4	279.8	27.61	11.134		
4,600.0	4,356.4	4,637.2	4,460.9	28.1	23.3	165.31	-324.3	933.7	312.3	283.8	28.47	10.966		
4,700.0	4,448.3	4,737.1	4,554.3	29.0	24.0	165.11	-335.4	967.1	317.1	287.8	29.35	10.807		
4,800.0	4,540.3	4,836.9	4,647.8	29.8	24.8	164.91	-346.4	1,000.5	322.0	291.8	30.22	10.656		
4,900.0	4,632.3	4,936.8	4,741.3	30.7	25.5	164.73	-357.5	1,033.9	326.9	295.8	31.10	10.511		
5,000.0	4,724.2	5,036.7	4,834.8	31.5	26.3	164.54	-368.5	1,067.3	331.8	299.8	31.98	10.374		
5,100.0	4,816.2	5,136.6	4,928.2	32.4	27.0	164.37	-379.6	1,100.7	336.7	303.8	32.87	10.243		

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 R-16-9-CHZ
<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 R-16-9-CHZ	<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	4,908.1	5,236.4	5,021.7	33.2	27.8	164.20	-390.6	1,134.1	341.6	307.8	33.76	10.118	
5,300.0	5,000.1	5,336.3	5,115.2	34.1	28.5	164.03	-401.7	1,167.5	346.5	311.8	34.66	9.998	
5,400.0	5,092.1	5,436.2	5,208.7	34.9	29.3	163.87	-412.7	1,200.9	351.4	315.9	35.55	9.884	
5,500.0	5,184.0	5,536.1	5,302.1	35.8	30.0	163.71	-423.8	1,234.3	356.3	319.9	36.45	9.775	
5,600.0	5,276.0	5,635.9	5,395.6	36.6	30.8	163.56	-434.8	1,267.6	361.2	323.9	37.36	9.670	
5,700.0	5,368.0	5,735.8	5,489.1	37.5	31.5	163.41	-445.9	1,301.0	366.1	327.9	38.26	9.569	
5,800.0	5,459.9	5,836.8	5,583.8	38.3	32.2	163.49	-455.6	1,334.9	371.0	332.0	39.02	9.507	
5,900.0	5,551.9	5,937.7	5,678.6	39.2	32.8	165.41	-453.2	1,368.7	375.5	336.8	38.70	9.701	
6,000.0	5,644.1	6,034.7	5,768.8	39.9	33.3	-174.33	-437.6	1,400.9	380.6	343.0	37.64	10.110	
6,100.0	5,736.1	6,129.3	5,853.9	40.5	33.7	-152.87	-410.0	1,431.3	386.8	349.9	36.88	10.487	
6,200.0	5,825.9	6,221.6	5,933.0	41.1	34.0	-135.48	-371.9	1,459.5	393.7	357.1	36.57	10.765	
6,300.0	5,911.9	6,311.9	6,005.3	41.6	34.3	-122.51	-324.4	1,485.2	401.0	364.3	36.67	10.935	
6,400.0	5,992.4	6,400.0	6,069.9	42.0	34.5	-112.98	-269.2	1,508.2	408.4	371.4	37.03	11.028	
6,500.0	6,065.7	6,487.6	6,127.4	42.3	34.6	-105.88	-206.3	1,528.6	415.6	378.1	37.51	11.078	
6,600.0	6,130.6	6,573.6	6,176.3	42.6	34.7	-100.57	-137.9	1,546.0	422.3	384.3	37.98	11.117	
6,700.0	6,185.7	6,658.5	6,216.7	42.8	34.8	-96.59	-64.6	1,560.3	428.1	389.8	38.40	11.151	
6,800.0	6,229.9	6,742.7	6,248.4	42.9	34.9	-93.69	12.5	1,571.5	433.0	394.2	38.79	11.163	
6,900.0	6,262.4	6,826.2	6,271.2	43.1	34.9	-91.68	92.4	1,579.5	436.7	397.4	39.27	11.122	
7,000.0	6,282.5	6,909.4	6,285.1	43.1	35.0	-90.48	174.2	1,584.3	439.1	399.2	39.90	11.005	
7,100.0	6,290.0	6,995.6	6,290.0	43.2	35.1	-90.00	260.2	1,586.0	440.1	399.2	40.83	10.777	
7,133.9	6,290.2	7,025.5	6,290.0	43.2	35.1	-89.97	290.1	1,585.9	440.2	399.0	41.15	10.696	
7,200.0	6,290.0	7,091.7	6,290.0	43.3	35.2	-90.00	356.3	1,585.8	440.1	398.1	41.93	10.495	
7,300.0	6,290.0	7,191.7	6,290.0	43.4	35.3	-90.00	456.3	1,585.7	440.1	396.5	43.56	10.103	
7,400.0	6,290.0	7,291.7	6,290.0	43.6	35.6	-90.00	556.3	1,585.5	440.1	394.6	45.46	9.680	
7,500.0	6,290.0	7,391.7	6,290.0	43.8	36.0	-90.00	656.3	1,585.3	440.1	392.5	47.60	9.245	
7,600.0	6,290.0	7,491.7	6,290.0	44.1	36.4	-90.00	756.3	1,585.2	440.0	390.1	49.94	8.811	
7,700.0	6,290.0	7,591.7	6,290.0	44.5	37.0	-90.00	856.3	1,585.0	440.0	387.6	52.46	8.388	
7,800.0	6,290.0	7,691.7	6,290.0	44.9	37.7	-90.00	956.3	1,584.9	440.0	384.9	55.13	7.981	
7,900.0	6,290.0	7,791.7	6,290.0	45.5	38.4	-90.00	1,056.3	1,584.7	440.0	382.1	57.94	7.595	
8,000.0	6,290.0	7,891.7	6,290.0	46.1	39.3	-90.00	1,156.3	1,584.6	440.0	379.2	60.85	7.231	
8,100.0	6,290.0	7,991.7	6,290.0	46.8	40.3	-90.00	1,256.3	1,584.4	440.0	376.2	63.87	6.890	
8,200.0	6,290.0	8,091.7	6,290.0	47.6	41.3	-90.00	1,356.3	1,584.3	440.0	373.1	66.97	6.571	
8,300.0	6,290.0	8,191.7	6,290.0	48.4	42.5	-90.00	1,456.3	1,584.1	440.0	369.9	70.14	6.273	
8,400.0	6,290.0	8,291.7	6,290.0	49.4	43.7	-90.00	1,556.3	1,584.0	440.0	366.6	73.38	5.997	
8,500.0	6,290.0	8,391.7	6,290.0	50.4	45.0	-90.00	1,656.3	1,583.8	440.0	363.3	76.67	5.739	
8,600.0	6,290.0	8,491.7	6,290.0	51.5	46.3	-90.00	1,756.3	1,583.7	440.0	360.0	80.01	5.499	
8,700.0	6,290.0	8,591.7	6,290.0	52.6	47.7	-90.00	1,856.3	1,583.5	440.0	356.6	83.40	5.276	
8,800.0	6,290.0	8,691.7	6,290.0	53.8	49.2	-90.00	1,956.3	1,583.4	440.0	353.2	86.82	5.068	
8,900.0	6,290.0	8,791.7	6,290.0	55.1	50.6	-90.00	2,056.3	1,583.2	440.0	349.7	90.27	4.874	
9,000.0	6,290.0	8,891.7	6,290.0	56.4	52.2	-90.00	2,156.3	1,583.1	440.0	346.2	93.76	4.693	
9,100.0	6,290.0	8,991.7	6,290.0	57.8	53.7	-90.00	2,256.3	1,582.9	440.0	342.7	97.27	4.523	
9,200.0	6,290.0	9,091.7	6,290.0	59.2	55.3	-90.00	2,356.3	1,582.7	440.0	339.2	100.81	4.365	
9,300.0	6,290.0	9,191.7	6,290.0	60.6	56.9	-90.00	2,456.3	1,582.6	440.0	335.6	104.37	4.216	
9,400.0	6,290.0	9,291.7	6,290.0	62.1	58.5	-90.00	2,556.3	1,582.4	440.0	332.0	107.94	4.076	
9,500.0	6,290.0	9,391.7	6,290.0	63.6	60.2	-90.00	2,656.3	1,582.3	440.0	328.4	111.54	3.945	
9,600.0	6,290.0	9,491.7	6,290.0	65.2	61.8	-90.00	2,756.3	1,582.1	440.0	324.8	115.15	3.821	
9,700.0	6,290.0	9,591.7	6,290.0	66.7	63.5	-90.00	2,856.3	1,582.0	440.0	321.2	118.78	3.704	
9,800.0	6,290.0	9,691.7	6,290.0	68.3	65.2	-90.00	2,956.3	1,581.8	440.0	317.5	122.41	3.594	
9,900.0	6,290.0	9,791.7	6,290.0	69.9	66.9	-90.00	3,056.3	1,581.7	440.0	313.9	126.07	3.490	
10,000.0	6,290.0	9,891.7	6,290.0	71.5	68.6	-90.00	3,156.3	1,581.5	439.9	310.2	129.73	3.391	
10,100.0	6,290.0	9,991.7	6,290.0	73.2	70.4	-90.00	3,256.3	1,581.4	439.9	306.5	133.40	3.298	
10,200.0	6,290.0	10,091.7	6,290.0	74.9	72.1	-90.00	3,356.3	1,581.2	439.9	302.9	137.08	3.209	

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

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	6,290.0	10,191.7	6,290.0	76.5	73.8	-90.00	3,456.3	1,581.1	439.9	299.2	140.77	3.125	
10,400.0	6,290.0	10,291.7	6,290.0	78.2	75.6	-90.00	3,556.3	1,580.9	439.9	295.5	144.47	3.045	
10,500.0	6,290.0	10,391.7	6,290.0	79.9	77.4	-90.00	3,656.3	1,580.8	439.9	291.8	148.17	2.969	
10,600.0	6,290.0	10,491.7	6,290.0	81.6	79.2	-90.00	3,756.3	1,580.6	439.9	288.0	151.88	2.896	
10,700.0	6,290.0	10,591.7	6,290.0	83.3	80.9	-90.00	3,856.3	1,580.5	439.9	284.3	155.60	2.827	
10,800.0	6,290.0	10,691.7	6,290.0	85.1	82.7	-90.00	3,956.3	1,580.3	439.9	280.6	159.32	2.761	
10,900.0	6,290.0	10,791.7	6,290.0	86.8	84.5	-90.00	4,056.3	1,580.2	439.9	276.9	163.05	2.698	
11,000.0	6,290.0	10,891.7	6,290.0	88.6	86.3	-90.00	4,156.3	1,580.0	439.9	273.1	166.79	2.638	
11,100.0	6,290.0	10,991.7	6,290.0	90.3	88.1	-90.00	4,256.3	1,579.8	439.9	269.4	170.53	2.580	
11,200.0	6,290.0	11,091.7	6,290.0	92.1	89.9	-90.00	4,356.3	1,579.7	439.9	265.6	174.27	2.524	
11,300.0	6,290.0	11,191.7	6,290.0	93.9	91.8	-90.00	4,456.3	1,579.5	439.9	261.9	178.02	2.471	
11,400.0	6,290.0	11,291.7	6,290.0	95.6	93.6	-90.00	4,556.3	1,579.4	439.9	258.1	181.77	2.420	
11,500.0	6,290.0	11,391.7	6,290.0	97.4	95.4	-90.00	4,656.3	1,579.2	439.9	254.4	185.52	2.371	
11,600.0	6,290.0	11,491.7	6,290.0	99.2	97.2	-90.00	4,756.3	1,579.1	439.9	250.6	189.28	2.324	
11,700.0	6,290.0	11,591.7	6,290.0	101.0	99.1	-90.00	4,856.3	1,578.9	439.9	246.8	193.04	2.279	
11,800.0	6,290.0	11,691.7	6,290.0	102.8	100.9	-90.00	4,956.3	1,578.8	439.9	243.1	196.81	2.235	
11,900.0	6,290.0	11,791.7	6,290.0	104.6	102.7	-90.00	5,056.3	1,578.6	439.9	239.3	200.58	2.193	
12,000.0	6,290.0	11,891.7	6,290.0	106.4	104.6	-90.00	5,156.3	1,578.5	439.9	235.5	204.35	2.153	
12,100.0	6,290.0	11,991.7	6,290.0	108.2	106.4	-90.00	5,256.3	1,578.3	439.9	231.7	208.12	2.113	
12,200.0	6,290.0	12,091.7	6,290.0	110.0	108.3	-90.00	5,356.3	1,578.2	439.9	228.0	211.90	2.076	
12,300.0	6,290.0	12,191.7	6,290.0	111.9	110.1	-90.00	5,456.3	1,578.0	439.8	224.2	215.67	2.039	
12,400.0	6,290.0	12,291.7	6,290.0	113.7	112.0	-90.00	5,556.3	1,577.9	439.8	220.4	219.45	2.004	
12,500.0	6,290.0	12,391.7	6,290.0	115.5	113.8	-90.00	5,656.3	1,577.7	439.8	216.6	223.24	1.970	
12,600.0	6,290.0	12,491.7	6,290.0	117.3	115.7	-90.00	5,756.3	1,577.6	439.8	212.8	227.02	1.937	
12,700.0	6,290.0	12,591.7	6,290.0	119.2	117.5	-90.00	5,856.3	1,577.4	439.8	209.0	230.81	1.906	
12,800.0	6,290.0	12,691.7	6,290.0	121.0	119.4	-90.00	5,956.3	1,577.2	439.8	205.2	234.59	1.875	
12,900.0	6,290.0	12,791.7	6,290.0	122.8	121.3	-90.00	6,056.3	1,577.1	439.8	201.4	238.38	1.845	
13,000.0	6,290.0	12,891.7	6,290.0	124.7	123.1	-90.00	6,156.3	1,576.9	439.8	197.6	242.18	1.816	
13,100.0	6,290.0	12,991.7	6,290.0	126.5	125.0	-90.00	6,256.3	1,576.8	439.8	193.8	245.97	1.788	
13,200.0	6,290.0	13,091.7	6,290.0	128.4	126.9	-90.00	6,356.3	1,576.6	439.8	190.0	249.76	1.761	
13,300.0	6,290.0	13,191.7	6,290.0	130.2	128.7	-90.00	6,456.3	1,576.5	439.8	186.2	253.56	1.735	
13,400.0	6,290.0	13,291.7	6,290.0	132.1	130.6	-90.00	6,556.3	1,576.3	439.8	182.4	257.36	1.709	
13,500.0	6,290.0	13,391.7	6,290.0	133.9	132.5	-90.00	6,656.3	1,576.2	439.8	178.6	261.15	1.684	
13,600.0	6,290.0	13,491.7	6,290.0	135.8	134.3	-90.00	6,756.3	1,576.0	439.8	174.8	264.95	1.660	
13,700.0	6,290.0	13,591.7	6,290.0	137.6	136.2	-90.00	6,856.3	1,575.9	439.8	171.0	268.75	1.636	
13,800.0	6,290.0	13,691.7	6,290.0	139.5	138.1	-90.00	6,956.3	1,575.7	439.8	167.2	272.56	1.614	
13,900.0	6,290.0	13,791.7	6,290.0	141.3	140.0	-90.00	7,056.3	1,575.6	439.8	163.4	276.36	1.591	
14,000.0	6,290.0	13,891.7	6,290.0	143.2	141.8	-90.00	7,156.3	1,575.4	439.8	159.6	280.16	1.570	
14,100.0	6,290.0	13,991.7	6,290.0	145.1	143.7	-90.00	7,256.3	1,575.3	439.8	155.8	283.97	1.549	
14,127.6	6,290.0	14,019.3	6,290.0	145.6	144.2	-90.00	7,283.9	1,575.2	439.8	154.8	285.02	1.543	
14,165.0	6,290.0	14,050.0	6,290.0	146.3	144.8	-90.00	7,314.6	1,575.2	440.0	153.7	286.32	1.537 SF	



<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham R-16-9-CHZ
<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 R-16-9-CHZ	<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	-89.97	0.0	-22.6	22.6					
100.0	100.0	100.0	100.0	0.1	0.1	-89.97	0.0	-22.6	22.6	22.4	0.22	100.500		
200.0	200.0	200.0	200.0	0.3	0.3	-89.97	0.0	-22.6	22.6	21.9	0.67	33.500		
300.0	300.0	300.0	300.0	0.6	0.6	-89.97	0.0	-22.6	22.6	21.5	1.12	20.100		
400.0	400.0	400.0	400.0	0.8	0.8	-89.97	0.0	-22.6	22.6	21.0	1.57	14.357		
500.0	500.0	500.0	500.0	1.0	1.0	-89.97	0.0	-22.6	22.6	20.6	2.02	11.167		
600.0	600.0	600.0	600.0	1.2	1.2	-89.97	0.0	-22.6	22.6	20.1	2.47	9.136		
700.0	700.0	700.0	700.0	1.5	1.5	-89.97	0.0	-22.6	22.6	19.7	2.92	7.731		
800.0	800.0	800.0	800.0	1.7	1.7	-89.97	0.0	-22.6	22.6	19.2	3.37	6.700 CC		
900.0	900.0	900.0	900.0	1.9	1.9	166.49	0.0	-22.6	24.3	20.5	3.80	6.384		
1,000.0	999.8	999.8	999.8	2.1	2.1	168.86	0.0	-22.6	29.4	25.2	4.22	6.962		
1,100.0	1,099.5	1,100.7	1,100.7	2.3	2.3	170.90	-0.5	-20.9	36.3	31.6	4.63	7.841		
1,200.0	1,198.7	1,201.9	1,201.7	2.6	2.5	172.14	-2.0	-15.8	43.1	38.1	5.01	8.606		
1,300.0	1,297.5	1,303.3	1,302.7	2.8	2.8	172.90	-4.5	-7.2	50.0	44.6	5.41	9.244		
1,400.0	1,395.6	1,404.9	1,403.5	3.2	3.0	173.37	-8.0	4.8	56.9	51.0	5.82	9.774		
1,500.0	1,493.1	1,506.8	1,504.1	3.5	3.3	173.62	-12.6	20.3	63.6	57.4	6.24	10.208		
1,600.0	1,589.6	1,608.9	1,604.3	4.0	3.6	173.73	-18.1	39.3	70.4	63.7	6.67	10.556		
1,700.0	1,685.3	1,711.3	1,704.0	4.5	4.0	173.73	-24.7	61.7	77.1	69.9	7.12	10.827		
1,800.0	1,779.8	1,813.9	1,803.0	5.1	4.4	173.65	-32.3	87.6	83.7	76.1	7.59	11.025		
1,900.0	1,873.2	1,916.8	1,901.2	5.8	4.9	173.51	-40.9	117.0	90.2	82.1	8.08	11.154		
2,000.0	1,965.3	2,020.0	1,998.5	6.5	5.5	173.29	-50.5	149.8	96.3	87.6	8.63	11.151		
2,100.0	2,057.3	2,123.4	2,094.8	7.3	6.2	172.83	-61.2	186.1	99.4	90.1	9.27	10.723		
2,200.0	2,149.3	2,223.6	2,187.4	8.1	6.9	172.22	-72.0	223.1	100.4	90.5	9.92	10.119		
2,300.0	2,241.2	2,323.6	2,279.7	8.8	7.7	171.62	-82.8	260.0	101.5	90.9	10.61	9.568		
2,400.0	2,333.2	2,423.6	2,372.0	9.7	8.4	171.03	-93.6	296.9	102.6	91.3	11.31	9.067		
2,500.0	2,425.2	2,523.6	2,464.3	10.5	9.2	170.46	-104.5	333.8	103.7	91.6	12.04	8.610		
2,600.0	2,517.1	2,623.6	2,556.6	11.3	10.0	169.90	-115.3	370.7	104.8	92.0	12.79	8.193		
2,700.0	2,609.1	2,723.6	2,648.9	12.1	10.8	169.35	-126.1	407.6	105.9	92.3	13.55	7.812		
2,800.0	2,701.0	2,823.6	2,741.2	12.9	11.6	168.82	-136.9	444.5	107.0	92.7	14.34	7.462		
2,900.0	2,793.0	2,923.6	2,833.5	13.8	12.4	168.29	-147.7	481.4	108.1	93.0	15.14	7.141		
3,000.0	2,885.0	3,023.6	2,925.8	14.6	13.2	167.77	-158.6	518.3	109.3	93.3	15.96	6.846		
3,100.0	2,976.9	3,123.5	3,018.1	15.4	14.0	167.27	-169.4	555.2	110.4	93.6	16.80	6.573		
3,200.0	3,068.9	3,223.5	3,110.4	16.3	14.8	166.78	-180.2	592.1	111.6	93.9	17.65	6.321		
3,300.0	3,160.9	3,323.5	3,202.7	17.1	15.6	166.29	-191.0	629.0	112.7	94.2	18.52	6.088		
3,400.0	3,252.8	3,423.5	3,295.0	18.0	16.4	165.82	-201.8	665.9	113.9	94.5	19.40	5.871		
3,500.0	3,344.8	3,523.5	3,387.3	18.8	17.3	165.35	-212.6	702.8	115.1	94.8	20.30	5.670		
3,600.0	3,436.7	3,623.5	3,479.6	19.7	18.1	164.90	-223.5	739.7	116.3	95.1	21.21	5.482		
3,700.0	3,528.7	3,723.5	3,571.9	20.5	18.9	164.45	-234.3	776.6	117.5	95.3	22.13	5.307		
3,800.0	3,620.7	3,823.5	3,664.2	21.3	19.7	164.02	-245.1	813.5	118.7	95.6	23.07	5.143		
3,900.0	3,712.6	3,923.5	3,756.5	22.2	20.5	163.59	-255.9	850.4	119.9	95.8	24.03	4.989		
4,000.0	3,804.6	4,023.4	3,848.8	23.0	21.4	163.17	-266.7	887.3	121.1	96.1	24.99	4.845		
4,100.0	3,896.6	4,123.4	3,941.1	23.9	22.2	162.76	-277.5	924.2	122.3	96.3	25.97	4.710		
4,200.0	3,988.5	4,223.4	4,033.4	24.7	23.0	162.36	-288.4	961.1	123.5	96.6	26.96	4.582		
4,300.0	4,080.5	4,323.4	4,125.7	25.6	23.8	161.96	-299.2	998.0	124.8	96.8	27.96	4.462		
4,400.0	4,172.4	4,423.4	4,218.0	26.4	24.7	161.57	-310.0	1,034.9	126.0	97.0	28.97	4.349		
4,500.0	4,264.4	4,523.4	4,310.3	27.3	25.5	161.19	-320.8	1,071.8	127.2	97.2	29.99	4.242		
4,600.0	4,356.4	4,623.4	4,402.6	28.1	26.3	160.82	-331.6	1,108.7	128.5	97.5	31.03	4.141		
4,700.0	4,448.3	4,723.4	4,494.9	29.0	27.1	160.46	-342.5	1,145.6	129.7	97.7	32.07	4.046		
4,800.0	4,540.3	4,823.4	4,587.2	29.8	28.0	160.10	-353.3	1,182.4	131.0	97.9	33.12	3.955		
4,900.0	4,632.3	4,923.3	4,679.5	30.7	28.8	159.75	-364.1	1,219.3	132.3	98.1	34.19	3.869		
5,000.0	4,724.2	5,023.3	4,771.8	31.5	29.6	159.40	-374.9	1,256.2	133.5	98.3	35.26	3.787		
5,100.0	4,816.2	5,123.3	4,864.1	32.4	30.4	159.06	-385.7	1,293.1	134.8	98.5	36.34	3.709		

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 R-16-9-CHZ
<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 R-16-9-CHZ	<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 C-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	4,908.1	5,223.3	4,956.4	33.2	31.3	158.73	-396.5	1,330.0	136.1	98.7	37.43	3.635		
5,300.0	5,000.1	5,323.3	5,048.7	34.1	32.1	158.41	-407.4	1,366.9	137.4	98.8	38.53	3.565		
5,400.0	5,092.1	5,423.3	5,141.0	34.9	32.9	158.09	-418.2	1,403.8	138.7	99.0	39.64	3.498		
5,500.0	5,184.0	5,523.3	5,233.3	35.8	33.8	157.77	-429.0	1,440.7	140.0	99.2	40.76	3.434		
5,600.0	5,276.0	5,623.3	5,325.5	36.6	34.6	157.47	-439.8	1,477.6	141.2	99.4	41.88	3.372		
5,700.0	5,368.0	5,723.4	5,418.0	37.5	35.4	157.17	-450.6	1,514.6	142.5	99.5	43.01	3.314		
5,800.0	5,459.9	5,826.0	5,513.2	38.3	36.1	160.11	-453.6	1,552.6	142.7	100.8	41.97	3.401		
5,844.4	5,500.7	5,870.5	5,554.4	38.7	36.4	163.19	-450.3	1,569.1	142.6	102.2	40.43	3.527		
5,900.0	5,551.9	5,924.6	5,604.1	39.2	36.7	168.39	-442.6	1,589.0	143.1	105.0	38.09	3.757		
6,000.0	5,644.1	6,017.9	5,688.1	39.9	37.2	-163.95	-419.9	1,622.5	148.1	112.3	35.75	4.143		
6,100.0	5,736.1	6,108.0	5,765.9	40.5	37.6	-136.19	-387.0	1,653.5	157.8	120.3	37.51	4.206		
6,200.0	5,825.9	6,195.5	5,837.3	41.1	37.9	-113.87	-345.2	1,682.0	170.6	129.6	40.96	4.165		
6,300.0	5,911.9	6,280.6	5,901.7	41.6	38.2	-97.25	-295.9	1,707.6	185.1	141.3	43.78	4.227		
6,400.0	5,992.4	6,363.9	5,959.0	42.0	38.4	-85.13	-240.1	1,730.4	199.9	154.9	44.97	4.445		
6,500.0	6,065.7	6,445.5	6,009.0	42.3	38.6	-76.27	-178.7	1,750.3	214.2	169.8	44.41	4.824		
6,600.0	6,130.6	6,525.9	6,051.5	42.6	38.7	-69.78	-112.7	1,767.2	227.3	185.0	42.32	5.371		
6,700.0	6,185.7	6,605.2	6,086.5	42.8	38.8	-65.04	-43.0	1,781.1	238.6	199.5	39.11	6.101		
6,800.0	6,229.9	6,683.6	6,113.9	42.9	38.9	-61.66	29.7	1,791.9	247.9	212.5	35.34	7.014		
6,900.0	6,262.4	6,761.5	6,133.6	43.1	39.0	-59.38	104.5	1,799.7	254.7	223.1	31.68	8.042		
7,000.0	6,282.5	6,838.9	6,145.7	43.1	39.0	-58.03	180.9	1,804.4	259.1	230.1	28.97	8.943		
7,100.0	6,290.0	6,916.2	6,150.0	43.2	39.1	-57.54	257.9	1,806.0	260.8	232.6	28.15	9.264		
7,200.0	6,290.0	7,014.8	6,150.0	43.3	39.2	-57.53	356.6	1,805.8	260.8	231.7	29.09	8.964		
7,300.0	6,290.0	7,114.8	6,150.0	43.4	39.3	-57.53	456.6	1,805.7	260.8	230.3	30.49	8.552		
7,400.0	6,290.0	7,214.8	6,150.0	43.6	39.5	-57.53	556.6	1,805.5	260.8	228.6	32.18	8.104		
7,500.0	6,290.0	7,314.8	6,150.0	43.8	39.8	-57.53	656.6	1,805.4	260.8	226.7	34.11	7.646		
7,600.0	6,290.0	7,414.8	6,150.0	44.1	40.2	-57.53	756.6	1,805.2	260.8	224.5	36.24	7.195		
7,700.0	6,290.0	7,514.8	6,150.0	44.5	40.6	-57.53	856.6	1,805.1	260.8	222.2	38.55	6.765		
7,800.0	6,290.0	7,614.8	6,150.0	44.9	41.2	-57.53	956.6	1,804.9	260.8	219.8	40.99	6.361		
7,900.0	6,290.0	7,714.8	6,150.0	45.5	41.8	-57.53	1,056.6	1,804.8	260.8	217.2	43.56	5.987		
8,000.0	6,290.0	7,814.8	6,150.0	46.1	42.5	-57.53	1,156.6	1,804.6	260.8	214.5	46.22	5.642		
8,100.0	6,290.0	7,914.8	6,150.0	46.8	43.3	-57.53	1,256.6	1,804.5	260.8	211.8	48.97	5.325		
8,200.0	6,290.0	8,014.8	6,150.0	47.6	44.2	-57.53	1,356.6	1,804.3	260.8	209.0	51.78	5.036		
8,300.0	6,290.0	8,114.8	6,150.0	48.4	45.2	-57.53	1,456.6	1,804.1	260.8	206.1	54.65	4.771		
8,400.0	6,290.0	8,214.8	6,150.0	49.4	46.3	-57.53	1,556.6	1,804.0	260.8	203.2	57.58	4.529		
8,500.0	6,290.0	8,314.8	6,150.0	50.4	47.4	-57.53	1,656.6	1,803.8	260.8	200.2	60.54	4.307		
8,600.0	6,290.0	8,414.8	6,150.0	51.5	48.7	-57.53	1,756.6	1,803.7	260.8	197.2	63.54	4.104		
8,700.0	6,290.0	8,514.8	6,150.0	52.6	49.9	-57.53	1,856.6	1,803.5	260.8	194.2	66.57	3.917		
8,800.0	6,290.0	8,614.8	6,150.0	53.8	51.3	-57.53	1,956.6	1,803.4	260.7	191.1	69.63	3.745		
8,900.0	6,290.0	8,714.8	6,150.0	55.1	52.6	-57.53	2,056.6	1,803.2	260.7	188.0	72.72	3.586		
9,000.0	6,290.0	8,814.8	6,150.0	56.4	54.1	-57.53	2,156.6	1,803.1	260.7	184.9	75.82	3.439		
9,100.0	6,290.0	8,914.8	6,150.0	57.8	55.5	-57.52	2,256.6	1,802.9	260.7	181.8	78.95	3.303		
9,200.0	6,290.0	9,014.8	6,150.0	59.2	57.0	-57.52	2,356.6	1,802.8	260.7	178.6	82.09	3.176		
9,300.0	6,290.0	9,114.8	6,150.0	60.6	58.5	-57.52	2,456.6	1,802.6	260.7	175.5	85.24	3.059		
9,400.0	6,290.0	9,214.8	6,150.0	62.1	60.1	-57.52	2,556.6	1,802.5	260.7	172.3	88.41	2.949		
9,500.0	6,290.0	9,314.8	6,150.0	63.6	61.7	-57.52	2,656.6	1,802.3	260.7	169.1	91.59	2.847		
9,600.0	6,290.0	9,414.8	6,150.0	65.2	63.3	-57.52	2,756.6	1,802.2	260.7	165.9	94.78	2.751		
9,700.0	6,290.0	9,514.8	6,150.0	66.7	64.9	-57.52	2,856.6	1,802.0	260.7	162.7	97.98	2.661		
9,800.0	6,290.0	9,614.8	6,150.0	68.3	66.6	-57.52	2,956.6	1,801.8	260.7	159.5	101.19	2.577		
9,900.0	6,290.0	9,714.8	6,150.0	69.9	68.2	-57.52	3,056.6	1,801.7	260.7	156.3	104.41	2.497		
10,000.0	6,290.0	9,814.8	6,150.0	71.5	69.9	-57.52	3,156.6	1,801.5	260.7	153.1	107.63	2.422		
10,100.0	6,290.0	9,914.8	6,150.0	73.2	71.6	-57.52	3,256.6	1,801.4	260.7	149.9	110.86	2.352		
10,200.0	6,290.0	10,014.8	6,150.0	74.9	73.3	-57.52	3,356.6	1,801.2	260.7	146.6	114.09	2.285		

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 R-16-9-CHZ
<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 R-16-9-CHZ	<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	
10,300.0	6,290.0	10,114.8	6,150.0	76.5	75.0	-57.52	3,456.6	1,801.1	260.7	143.4	117.34	2.222	
10,400.0	6,290.0	10,214.8	6,150.0	78.2	76.7	-57.52	3,556.6	1,800.9	260.7	140.1	120.58	2.162	
10,500.0	6,290.0	10,314.8	6,150.0	79.9	78.5	-57.52	3,656.6	1,800.8	260.7	136.9	123.83	2.105	
10,600.0	6,290.0	10,414.8	6,150.0	81.6	80.2	-57.52	3,756.6	1,800.6	260.7	133.6	127.09	2.051	
10,700.0	6,290.0	10,514.8	6,150.0	83.3	82.0	-57.52	3,856.6	1,800.5	260.7	130.3	130.35	2.000	
10,800.0	6,290.0	10,614.8	6,150.0	85.1	83.8	-57.52	3,956.6	1,800.3	260.7	127.1	133.61	1.951	
10,900.0	6,290.0	10,714.8	6,150.0	86.8	85.5	-57.52	4,056.6	1,800.2	260.7	123.8	136.87	1.905	
11,000.0	6,290.0	10,814.8	6,150.0	88.6	87.3	-57.52	4,156.6	1,800.0	260.7	120.5	140.14	1.860	
11,100.0	6,290.0	10,914.8	6,150.0	90.3	89.1	-57.52	4,256.6	1,799.8	260.7	117.3	143.41	1.818	
11,200.0	6,290.0	11,014.8	6,150.0	92.1	90.9	-57.52	4,356.6	1,799.7	260.7	114.0	146.69	1.777	
11,300.0	6,290.0	11,114.8	6,150.0	93.9	92.7	-57.52	4,456.6	1,799.5	260.7	110.7	149.97	1.738	
11,400.0	6,290.0	11,214.8	6,150.0	95.6	94.5	-57.52	4,556.6	1,799.4	260.7	107.4	153.25	1.701	
11,500.0	6,290.0	11,314.8	6,150.0	97.4	96.3	-57.51	4,656.6	1,799.2	260.7	104.1	156.53	1.665	
11,600.0	6,290.0	11,414.8	6,150.0	99.2	98.1	-57.51	4,756.6	1,799.1	260.7	100.9	159.81	1.631	
11,700.0	6,290.0	11,514.8	6,150.0	101.0	99.9	-57.51	4,856.6	1,798.9	260.7	97.6	163.10	1.598	
11,800.0	6,290.0	11,614.8	6,150.0	102.8	101.7	-57.51	4,956.6	1,798.8	260.7	94.3	166.39	1.567	
11,900.0	6,290.0	11,714.8	6,150.0	104.6	103.5	-57.51	5,056.6	1,798.6	260.7	91.0	169.67	1.536	
12,000.0	6,290.0	11,814.8	6,150.0	106.4	105.4	-57.51	5,156.6	1,798.5	260.7	87.7	172.97	1.507	
12,100.0	6,290.0	11,914.8	6,150.0	108.2	107.2	-57.51	5,256.6	1,798.3	260.7	84.4	176.26	1.479 Level 3	
12,200.0	6,290.0	12,014.8	6,150.0	110.0	109.0	-57.51	5,356.6	1,798.2	260.6	81.1	179.55	1.452 Level 3	
12,300.0	6,290.0	12,114.8	6,150.0	111.9	110.9	-57.51	5,456.6	1,798.0	260.6	77.8	182.85	1.425 Level 3	
12,400.0	6,290.0	12,214.8	6,150.0	113.7	112.7	-57.51	5,556.6	1,797.9	260.6	74.5	186.14	1.400 Level 3	
12,500.0	6,290.0	12,314.8	6,150.0	115.5	114.6	-57.51	5,656.6	1,797.7	260.6	71.2	189.44	1.376 Level 3	
12,600.0	6,290.0	12,414.8	6,150.0	117.3	116.4	-57.51	5,756.6	1,797.5	260.6	67.9	192.74	1.352 Level 3	
12,700.0	6,290.0	12,514.8	6,150.0	119.2	118.2	-57.51	5,856.6	1,797.4	260.6	64.6	196.04	1.329 Level 3	
12,800.0	6,290.0	12,614.8	6,150.0	121.0	120.1	-57.51	5,956.6	1,797.2	260.6	61.3	199.34	1.307 Level 3	
12,900.0	6,290.0	12,714.8	6,150.0	122.8	121.9	-57.51	6,056.6	1,797.1	260.6	58.0	202.64	1.286 Level 3	
13,000.0	6,290.0	12,814.8	6,150.0	124.7	123.8	-57.51	6,156.6	1,796.9	260.6	54.7	205.95	1.265 Level 3	
13,100.0	6,290.0	12,914.8	6,150.0	126.5	125.7	-57.51	6,256.6	1,796.8	260.6	51.4	209.25	1.245 Level 2	
13,200.0	6,290.0	13,014.8	6,150.0	128.4	127.5	-57.51	6,356.6	1,796.6	260.6	48.1	212.56	1.226 Level 2	
13,300.0	6,290.0	13,114.8	6,150.0	130.2	129.4	-57.51	6,456.6	1,796.5	260.6	44.8	215.86	1.207 Level 2	
13,400.0	6,290.0	13,214.8	6,150.0	132.1	131.2	-57.51	6,556.6	1,796.3	260.6	41.4	219.17	1.189 Level 2	
13,500.0	6,290.0	13,314.8	6,150.0	133.9	133.1	-57.51	6,656.6	1,796.2	260.6	38.1	222.48	1.171 Level 2	
13,600.0	6,290.0	13,414.8	6,150.0	135.8	135.0	-57.51	6,756.6	1,796.0	260.6	34.8	225.78	1.154 Level 2	
13,700.0	6,290.0	13,514.8	6,150.0	137.6	136.8	-57.51	6,856.6	1,795.9	260.6	31.5	229.09	1.138 Level 2	
13,800.0	6,290.0	13,614.8	6,150.0	139.5	138.7	-57.51	6,956.6	1,795.7	260.6	28.2	232.40	1.121 Level 2	
13,900.0	6,290.0	13,714.8	6,150.0	141.3	140.6	-57.50	7,056.6	1,795.5	260.6	24.9	235.71	1.106 Level 2	
14,000.0	6,290.0	13,814.8	6,150.0	143.2	142.4	-57.50	7,156.6	1,795.4	260.6	21.6	239.02	1.090 Level 2	
14,100.0	6,290.0	13,914.8	6,150.0	145.1	144.3	-57.50	7,256.6	1,795.2	260.6	18.3	242.33	1.075 Level 2	
14,131.4	6,290.0	13,946.3	6,150.0	145.7	144.9	-57.50	7,288.0	1,795.2	260.6	17.2	243.37	1.071 Level 2	
14,165.0	6,290.0	13,976.5	6,150.0	146.3	145.5	-57.53	7,318.3	1,795.1	260.8	16.3	244.48	1.067 Level 2, ES, SF	

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Markham R-16-9-CHZ
<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 R-16-9-CHZ	<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	89.03	0.4	22.3	22.3					
100.0	100.0	100.0	100.0	0.1	0.1	89.03	0.4	22.3	22.3	22.1	0.22	99.273		
200.0	200.0	200.0	200.0	0.3	0.3	89.03	0.4	22.3	22.3	21.6	0.67	33.091		
300.0	300.0	300.0	300.0	0.6	0.6	89.03	0.4	22.3	22.3	21.2	1.12	19.855		
400.0	400.0	400.0	400.0	0.8	0.8	89.03	0.4	22.3	22.3	20.7	1.57	14.182		
500.0	500.0	500.0	500.0	1.0	1.0	89.03	0.4	22.3	22.3	20.3	2.02	11.030		
600.0	600.0	600.0	600.0	1.2	1.2	89.03	0.4	22.3	22.3	19.8	2.47	9.025 CC		
700.0	700.0	699.2	699.2	1.5	1.4	90.04	0.0	24.0	24.0	21.1	2.90	8.261		
800.0	800.0	798.2	798.0	1.7	1.6	92.35	-1.2	29.0	29.1	25.7	3.33	8.725		
900.0	900.0	896.8	896.3	1.9	1.9	-10.19	-3.1	37.3	35.9	32.1	3.74	9.588		
1,000.0	999.8	995.3	994.0	2.1	2.1	-8.93	-5.9	48.8	42.7	38.5	4.14	10.294		
1,100.0	1,099.5	1,093.5	1,091.0	2.3	2.4	-8.12	-9.3	63.6	49.4	44.9	4.56	10.844		
1,200.0	1,198.7	1,191.5	1,187.3	2.6	2.7	-7.58	-13.5	81.5	56.1	51.1	4.98	11.269		
1,300.0	1,297.5	1,289.2	1,282.6	2.8	3.1	-7.24	-18.5	102.6	62.8	57.3	5.42	11.589		
1,400.0	1,395.6	1,386.8	1,376.9	3.2	3.6	-7.03	-24.2	126.8	69.3	63.5	5.87	11.820		
1,500.0	1,493.1	1,484.1	1,470.1	3.5	4.1	-6.92	-30.6	154.1	75.8	69.5	6.33	11.973		
1,600.0	1,589.6	1,581.2	1,562.2	4.0	4.7	-6.89	-37.7	184.3	82.2	75.4	6.82	12.057		
1,700.0	1,685.3	1,678.2	1,652.9	4.5	5.3	-6.91	-45.5	217.5	88.6	81.2	7.32	12.094		
1,800.0	1,779.8	1,774.9	1,742.2	5.1	6.0	-6.98	-54.0	253.6	94.8	86.9	7.86	12.059		
1,900.0	1,873.2	1,872.3	1,830.9	5.8	6.8	-7.10	-63.2	292.7	100.8	92.3	8.42	11.967		
2,000.0	1,965.3	1,972.2	1,921.5	6.5	7.7	-7.38	-72.8	333.7	104.5	95.5	9.04	11.560		
2,100.0	2,057.3	2,072.2	2,012.2	7.3	8.6	-7.68	-82.5	374.7	107.8	98.0	9.72	11.083		
2,200.0	2,149.3	2,172.1	2,102.8	8.1	9.4	-7.97	-92.1	415.8	111.0	100.6	10.42	10.652		
2,300.0	2,241.2	2,272.1	2,193.4	8.8	10.3	-8.23	-101.8	456.8	114.2	103.1	11.13	10.261		
2,400.0	2,333.2	2,372.0	2,284.1	9.7	11.2	-8.49	-111.4	497.8	117.5	105.6	11.86	9.908		
2,500.0	2,425.2	2,471.9	2,374.7	10.5	12.1	-8.73	-121.1	538.8	120.7	108.1	12.59	9.587		
2,600.0	2,517.1	2,571.9	2,465.3	11.3	13.0	-8.96	-130.7	579.8	124.0	110.6	13.34	9.295		
2,700.0	2,609.1	2,671.8	2,556.0	12.1	13.9	-9.17	-140.3	620.8	127.2	113.1	14.09	9.029		
2,800.0	2,701.0	2,771.8	2,646.6	12.9	14.8	-9.38	-150.0	661.8	130.5	115.6	14.85	8.785		
2,900.0	2,793.0	2,871.7	2,737.2	13.8	15.7	-9.58	-159.6	702.8	133.7	118.1	15.62	8.562		
3,000.0	2,885.0	2,971.7	2,827.9	14.6	16.6	-9.76	-169.3	743.8	137.0	120.6	16.39	8.356		
3,100.0	2,976.9	3,071.6	2,918.5	15.4	17.5	-9.94	-178.9	784.8	140.2	123.1	17.17	8.166		
3,200.0	3,068.9	3,171.6	3,009.1	16.3	18.5	-10.11	-188.5	825.9	143.5	125.5	17.96	7.991		
3,300.0	3,160.9	3,271.5	3,099.8	17.1	19.4	-10.27	-198.2	866.9	146.7	128.0	18.75	7.828		
3,400.0	3,252.8	3,371.5	3,190.4	18.0	20.3	-10.43	-207.8	907.9	150.0	130.5	19.54	7.677		
3,500.0	3,344.8	3,471.4	3,281.0	18.8	21.2	-10.58	-217.5	948.9	153.3	132.9	20.34	7.536		
3,600.0	3,436.7	3,571.4	3,371.7	19.7	22.1	-10.72	-227.1	989.9	156.5	135.4	21.14	7.405		
3,700.0	3,528.7	3,671.3	3,462.3	20.5	23.0	-10.85	-236.8	1,030.9	159.8	137.8	21.94	7.282		
3,800.0	3,620.7	3,771.2	3,552.9	21.3	23.9	-10.99	-246.4	1,071.9	163.0	140.3	22.75	7.167		
3,900.0	3,712.6	3,871.2	3,643.6	22.2	24.9	-11.11	-256.0	1,112.9	166.3	142.7	23.56	7.058		
4,000.0	3,804.6	3,971.1	3,734.2	23.0	25.8	-11.23	-265.7	1,153.9	169.6	145.2	24.37	6.957		
4,100.0	3,896.6	4,071.1	3,824.8	23.9	26.7	-11.35	-275.3	1,194.9	172.8	147.6	25.19	6.861		
4,200.0	3,988.5	4,171.0	3,915.5	24.7	27.6	-11.46	-285.0	1,235.9	176.1	150.1	26.01	6.770		
4,300.0	4,080.5	4,271.0	4,006.1	25.6	28.5	-11.57	-294.6	1,277.0	179.4	152.5	26.83	6.685		
4,400.0	4,172.4	4,370.9	4,096.7	26.4	29.4	-11.67	-304.3	1,318.0	182.6	155.0	27.65	6.604		
4,500.0	4,264.4	4,470.9	4,187.4	27.3	30.4	-11.77	-313.9	1,359.0	185.9	157.4	28.48	6.527		
4,600.0	4,356.4	4,570.8	4,278.0	28.1	31.3	-11.87	-323.5	1,400.0	189.1	159.8	29.30	6.455		
4,700.0	4,448.3	4,670.8	4,368.7	29.0	32.2	-11.97	-333.2	1,441.0	192.4	162.3	30.13	6.386		
4,800.0	4,540.3	4,770.7	4,459.3	29.8	33.1	-12.06	-342.8	1,482.0	195.7	164.7	30.96	6.320		
4,900.0	4,632.3	4,870.7	4,549.9	30.7	34.0	-12.14	-352.5	1,523.0	199.0	167.2	31.80	6.257		
5,000.0	4,724.2	4,970.6	4,640.6	31.5	35.0	-12.23	-362.1	1,564.0	202.2	169.6	32.63	6.198		
5,100.0	4,816.2	5,070.5	4,731.2	32.4	35.9	-12.31	-371.7	1,605.0	205.5	172.0	33.46	6.141		

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 R-16-9-CHZ
<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 R-16-9-CHZ	<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	4,908.1	5,170.5	4,821.8	33.2	36.8	-12.39	-381.4	1,646.0	208.8	174.5	34.30	6.086	
5,300.0	5,000.1	5,270.4	4,912.5	34.1	37.7	-12.47	-391.0	1,687.0	212.0	176.9	35.14	6.034	
5,400.0	5,092.1	5,370.4	5,003.1	34.9	38.6	-12.54	-400.7	1,728.1	215.3	179.3	35.98	5.984	
5,500.0	5,184.0	5,470.3	5,093.7	35.8	39.5	-12.61	-410.3	1,769.1	218.6	181.8	36.82	5.936	
5,600.0	5,276.0	5,570.3	5,184.4	36.6	40.5	-12.69	-420.0	1,810.1	221.8	184.2	37.66	5.891	
5,700.0	5,368.0	5,670.2	5,275.0	37.5	41.4	-12.75	-429.6	1,851.1	225.1	186.6	38.50	5.847	
5,800.0	5,459.9	5,770.2	5,365.6	38.3	42.3	-12.82	-439.2	1,892.1	228.4	189.0	39.35	5.804	
5,900.0	5,551.9	5,870.2	5,456.3	39.2	43.2	-12.99	-448.5	1,933.1	231.7	191.4	40.23	5.758	
6,000.0	5,644.1	5,969.8	5,547.1	39.9	43.9	2.40	-447.8	1,974.2	235.0	193.3	41.68	5.637	
6,100.0	5,736.1	6,068.8	5,636.2	40.5	44.6	19.11	-433.4	2,014.5	238.4	195.4	42.93	5.553	
6,200.0	5,825.9	6,167.0	5,722.1	41.1	45.2	32.05	-405.9	2,053.3	241.8	197.9	43.86	5.512	
6,300.0	5,911.9	6,264.7	5,803.3	41.6	45.7	40.95	-366.1	2,089.9	245.2	200.7	44.45	5.515	
6,400.0	5,992.4	6,361.8	5,878.4	42.0	46.2	46.84	-314.9	2,123.8	248.4	203.7	44.69	5.557	
6,500.0	6,065.7	6,458.4	5,946.2	42.3	46.5	50.72	-253.3	2,154.4	251.3	206.7	44.65	5.628	
6,600.0	6,130.6	6,554.5	6,005.5	42.6	46.8	53.29	-182.7	2,181.1	254.0	209.5	44.46	5.713	
6,700.0	6,185.7	6,650.0	6,055.5	42.8	47.0	55.01	-104.5	2,203.6	256.3	212.0	44.25	5.792	
6,800.0	6,229.9	6,745.8	6,095.6	42.9	47.2	56.15	-19.5	2,221.6	258.1	213.9	44.22	5.838	
6,900.0	6,262.4	6,841.1	6,124.9	43.1	47.3	56.88	70.1	2,234.7	259.5	214.9	44.52	5.828	
7,000.0	6,282.5	6,936.2	6,143.1	43.1	47.4	57.31	163.0	2,242.8	260.3	215.0	45.28	5.749	
7,100.0	6,290.0	7,031.3	6,149.9	43.2	47.5	57.49	257.8	2,245.8	260.6	214.0	46.54	5.599	
7,200.0	6,290.0	7,130.8	6,150.0	43.3	47.5	57.50	357.3	2,245.6	260.6	212.6	47.92	5.437	
7,300.0	6,290.0	7,230.8	6,150.0	43.4	47.6	57.50	457.3	2,245.5	260.6	211.1	49.52	5.262	
7,400.0	6,290.0	7,330.8	6,150.0	43.6	47.8	57.50	557.3	2,245.3	260.6	209.3	51.28	5.081	
7,500.0	6,290.0	7,430.8	6,150.0	43.8	48.0	57.50	657.3	2,245.2	260.6	207.4	53.19	4.899	
7,600.0	6,290.0	7,530.8	6,150.0	44.1	48.2	57.50	757.3	2,245.0	260.6	205.3	55.24	4.717	
7,700.0	6,290.0	7,630.8	6,150.0	44.5	48.6	57.50	857.3	2,244.9	260.6	203.2	57.41	4.539	
7,800.0	6,290.0	7,730.8	6,150.0	44.9	48.9	57.50	957.3	2,244.7	260.6	200.9	59.69	4.366	
7,900.0	6,290.0	7,830.8	6,150.0	45.5	49.4	57.51	1,057.3	2,244.6	260.6	198.5	62.06	4.199	
8,000.0	6,290.0	7,930.8	6,150.0	46.1	49.9	57.51	1,157.3	2,244.4	260.6	196.1	64.52	4.039	
8,100.0	6,290.0	8,030.8	6,150.0	46.8	50.5	57.51	1,257.3	2,244.3	260.6	193.6	67.05	3.887	
8,200.0	6,290.0	8,130.8	6,150.0	47.6	51.1	57.51	1,357.3	2,244.1	260.6	191.0	69.65	3.742	
8,300.0	6,290.0	8,230.8	6,150.0	48.4	51.9	57.51	1,457.3	2,244.0	260.6	188.3	72.31	3.604	
8,400.0	6,290.0	8,330.8	6,150.0	49.4	52.7	57.51	1,557.3	2,243.8	260.6	185.6	75.03	3.474	
8,500.0	6,290.0	8,430.8	6,150.0	50.4	53.5	57.51	1,657.3	2,243.7	260.6	182.8	77.79	3.350	
8,600.0	6,290.0	8,530.8	6,150.0	51.5	54.5	57.51	1,757.3	2,243.5	260.6	180.0	80.60	3.234	
8,700.0	6,290.0	8,630.8	6,150.0	52.6	55.5	57.51	1,857.3	2,243.4	260.6	177.2	83.45	3.123	
8,800.0	6,290.0	8,730.8	6,150.0	53.8	56.6	57.51	1,957.3	2,243.2	260.6	174.3	86.33	3.019	
8,900.0	6,290.0	8,830.8	6,150.0	55.1	57.7	57.51	2,057.3	2,243.1	260.7	171.4	89.24	2.921	
9,000.0	6,290.0	8,930.8	6,150.0	56.4	58.9	57.51	2,157.3	2,242.9	260.7	168.5	92.18	2.828	
9,100.0	6,290.0	9,030.8	6,150.0	57.8	60.1	57.51	2,257.3	2,242.8	260.7	165.5	95.15	2.739	
9,200.0	6,290.0	9,130.8	6,150.0	59.2	61.4	57.51	2,357.3	2,242.6	260.7	162.5	98.14	2.656	
9,300.0	6,290.0	9,230.8	6,150.0	60.6	62.8	57.52	2,457.3	2,242.5	260.7	159.5	101.16	2.577	
9,400.0	6,290.0	9,330.8	6,150.0	62.1	64.2	57.52	2,557.3	2,242.3	260.7	156.5	104.19	2.502	
9,500.0	6,290.0	9,430.8	6,150.0	63.6	65.6	57.52	2,657.3	2,242.2	260.7	153.4	107.24	2.431	
9,600.0	6,290.0	9,530.8	6,150.0	65.2	67.0	57.52	2,757.3	2,242.0	260.7	150.4	110.31	2.363	
9,700.0	6,290.0	9,630.8	6,150.0	66.7	68.5	57.52	2,857.3	2,241.9	260.7	147.3	113.39	2.299	
9,800.0	6,290.0	9,730.8	6,150.0	68.3	70.0	57.52	2,957.3	2,241.7	260.7	144.2	116.49	2.238	
9,900.0	6,290.0	9,830.8	6,150.0	69.9	71.6	57.52	3,057.3	2,241.5	260.7	141.1	119.60	2.180	
10,000.0	6,290.0	9,930.8	6,150.0	71.5	73.1	57.52	3,157.3	2,241.4	260.7	138.0	122.72	2.124	
10,100.0	6,290.0	10,030.8	6,150.0	73.2	74.7	57.52	3,257.3	2,241.2	260.7	134.9	125.85	2.072	
10,200.0	6,290.0	10,130.8	6,150.0	74.9	76.3	57.52	3,357.3	2,241.1	260.7	131.7	128.99	2.021	
10,300.0	6,290.0	10,230.8	6,150.0	76.5	77.9	57.52	3,457.3	2,240.9	260.7	128.6	132.15	1.973	

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 R-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				
10,400.0	6,290.0	10,330.8	6,150.0	78.2	79.6	57.52	3,557.3	2,240.8	260.7	125.4	135.31	1.927				
10,500.0	6,290.0	10,430.8	6,150.0	79.9	81.2	57.52	3,657.3	2,240.6	260.7	122.3	138.48	1.883				
10,600.0	6,290.0	10,530.8	6,150.0	81.6	82.9	57.52	3,757.3	2,240.5	260.7	119.1	141.65	1.841				
10,700.0	6,290.0	10,630.8	6,150.0	83.3	84.6	57.52	3,857.3	2,240.3	260.7	115.9	144.84	1.800				
10,800.0	6,290.0	10,730.8	6,150.0	85.1	86.3	57.53	3,957.3	2,240.2	260.7	112.7	148.03	1.761				
10,900.0	6,290.0	10,830.8	6,150.0	86.8	88.0	57.53	4,057.3	2,240.0	260.8	109.5	151.23	1.724				
11,000.0	6,290.0	10,930.8	6,150.0	88.6	89.7	57.53	4,157.3	2,239.9	260.8	106.3	154.43	1.688				
11,100.0	6,290.0	11,030.8	6,150.0	90.3	91.4	57.53	4,257.3	2,239.7	260.8	103.1	157.64	1.654				
11,200.0	6,290.0	11,130.8	6,150.0	92.1	93.1	57.53	4,357.3	2,239.6	260.8	99.9	160.86	1.621				
11,300.0	6,290.0	11,230.8	6,150.0	93.9	94.9	57.53	4,457.3	2,239.4	260.8	96.7	164.07	1.589				
11,400.0	6,290.0	11,330.8	6,150.0	95.6	96.6	57.53	4,557.3	2,239.3	260.8	93.5	167.30	1.559				
11,500.0	6,290.0	11,430.8	6,150.0	97.4	98.4	57.53	4,657.3	2,239.1	260.8	90.3	170.53	1.529				
11,600.0	6,290.0	11,530.8	6,150.0	99.2	100.1	57.53	4,757.3	2,239.0	260.8	87.0	173.76	1.501				
11,700.0	6,290.0	11,630.8	6,150.0	101.0	101.9	57.53	4,857.3	2,238.8	260.8	83.8	177.00	1.473	Level 3			
11,800.0	6,290.0	11,730.8	6,150.0	102.8	103.7	57.53	4,957.3	2,238.7	260.8	80.6	180.24	1.447	Level 3			
11,900.0	6,290.0	11,830.8	6,150.0	104.6	105.5	57.53	5,057.3	2,238.5	260.8	77.3	183.48	1.421	Level 3			
12,000.0	6,290.0	11,930.8	6,150.0	106.4	107.3	57.53	5,157.3	2,238.4	260.8	74.1	186.73	1.397	Level 3			
12,100.0	6,290.0	12,030.8	6,150.0	108.2	109.1	57.53	5,257.3	2,238.2	260.8	70.8	189.98	1.373	Level 3			
12,200.0	6,290.0	12,130.8	6,150.0	110.0	110.8	57.54	5,357.3	2,238.1	260.8	67.6	193.23	1.350	Level 3			
12,300.0	6,290.0	12,230.8	6,150.0	111.9	112.7	57.54	5,457.3	2,237.9	260.8	64.3	196.49	1.327	Level 3			
12,400.0	6,290.0	12,330.8	6,150.0	113.7	114.5	57.54	5,557.3	2,237.8	260.8	61.1	199.74	1.306	Level 3			
12,500.0	6,290.0	12,430.8	6,150.0	115.5	116.3	57.54	5,657.3	2,237.6	260.8	57.8	203.01	1.285	Level 3			
12,600.0	6,290.0	12,530.8	6,150.0	117.3	118.1	57.54	5,757.3	2,237.5	260.8	54.6	206.27	1.265	Level 3			
12,700.0	6,290.0	12,630.8	6,150.0	119.2	119.9	57.54	5,857.3	2,237.3	260.8	51.3	209.54	1.245	Level 2			
12,800.0	6,290.0	12,730.8	6,150.0	121.0	121.7	57.54	5,957.3	2,237.2	260.8	48.0	212.80	1.226	Level 2			
12,900.0	6,290.0	12,830.8	6,150.0	122.8	123.5	57.54	6,057.3	2,237.0	260.8	44.8	216.08	1.207	Level 2			
13,000.0	6,290.0	12,930.8	6,150.0	124.7	125.4	57.54	6,157.3	2,236.9	260.9	41.5	219.35	1.189	Level 2			
13,100.0	6,290.0	13,030.8	6,150.0	126.5	127.2	57.54	6,257.3	2,236.7	260.9	38.2	222.62	1.172	Level 2			
13,200.0	6,290.0	13,130.8	6,150.0	128.4	129.0	57.54	6,357.3	2,236.6	260.9	35.0	225.90	1.155	Level 2			
13,300.0	6,290.0	13,230.8	6,150.0	130.2	130.9	57.54	6,457.3	2,236.4	260.9	31.7	229.18	1.138	Level 2			
13,400.0	6,290.0	13,330.8	6,150.0	132.1	132.7	57.54	6,557.3	2,236.3	260.9	28.4	232.46	1.122	Level 2			
13,500.0	6,290.0	13,430.8	6,150.0	133.9	134.5	57.54	6,657.3	2,236.1	260.9	25.1	235.74	1.107	Level 2			
13,600.0	6,290.0	13,530.8	6,150.0	135.8	136.4	57.55	6,757.3	2,236.0	260.9	21.9	239.02	1.091	Level 2			
13,700.0	6,290.0	13,630.8	6,150.0	137.6	138.2	57.55	6,857.3	2,235.8	260.9	18.6	242.31	1.077	Level 2			
13,800.0	6,290.0	13,730.8	6,150.0	139.5	140.1	57.55	6,957.3	2,235.7	260.9	15.3	245.59	1.062	Level 2			
13,900.0	6,290.0	13,830.8	6,150.0	141.3	141.9	57.55	7,057.3	2,235.5	260.9	12.0	248.88	1.048	Level 2			
14,000.0	6,290.0	13,930.8	6,150.0	143.2	143.8	57.55	7,157.3	2,235.4	260.9	8.7	252.17	1.035	Level 2			
14,100.0	6,290.0	14,030.8	6,150.0	145.1	145.6	57.55	7,257.3	2,235.2	260.9	5.4	255.46	1.021	Level 2			
14,164.8	6,290.0	14,095.6	6,150.0	146.3	146.8	57.55	7,322.1	2,235.1	260.9	3.3	257.59	1.013	Level 2			
14,165.0	6,290.0	14,095.8	6,150.0	146.3	146.8	57.53	7,322.3	2,235.1	260.8	3.2	257.56	1.012 Level 2, ES, SF				



Reference Depths are relative to WELL @ 4976.0ft (RKB - 13')	Coordinates are relative to: SRC Markham R-16-9-CHZ
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 °	Grid Convergence at Surface is: 0.32°



**Company:** Synergy Resources  
**Project:** Sec.16-T4N-R68W  
**Reference Site:** SRC Markham Pad Sec.16-T4N-R68W  
**Site Error:** 0.0ft  
**Reference Well:** SRC Markham R-16-9-CHZ  
**Well Error:** 0.0ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Plan#1 (3-31-14)

**Local Co-ordinate Reference:** Well SRC Markham R-16-9-CHZ  
**TVD Reference:** WELL @ 4976.0ft (RKB - 13')  
**MD Reference:** WELL @ 4976.0ft (RKB - 13')  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** Landmark  
**Offset TVD Reference:** 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 R-16-9-CHZ

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.32°

