

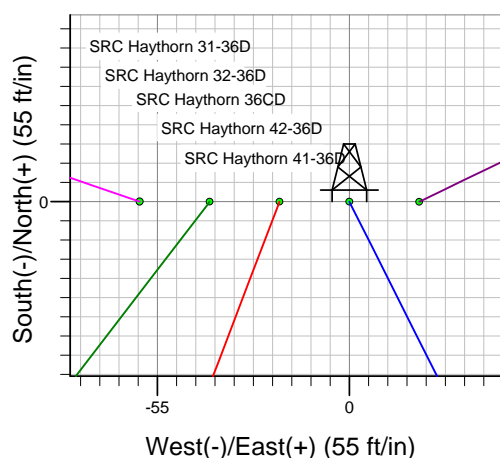
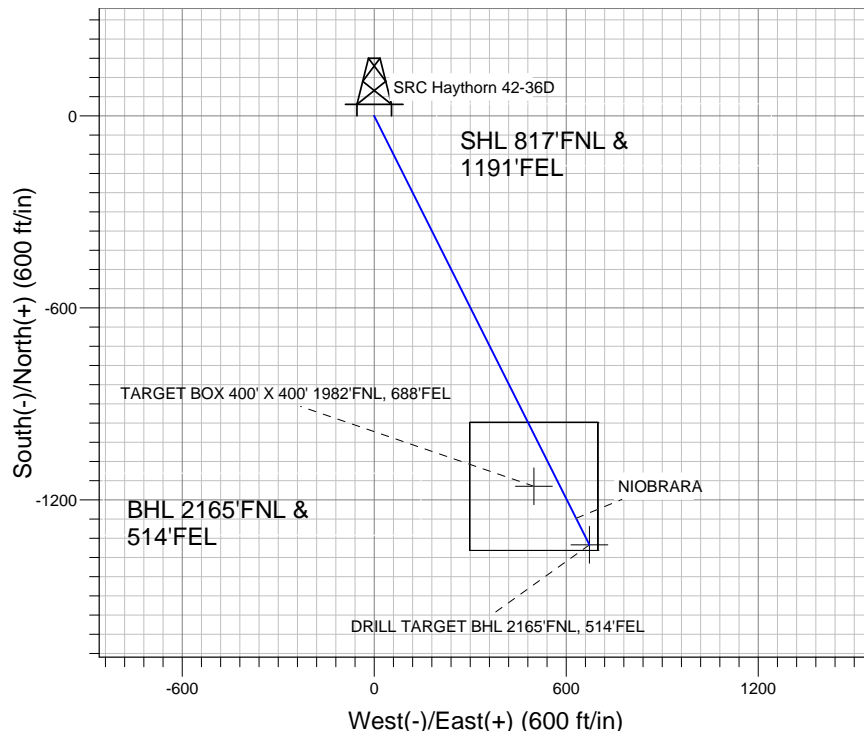
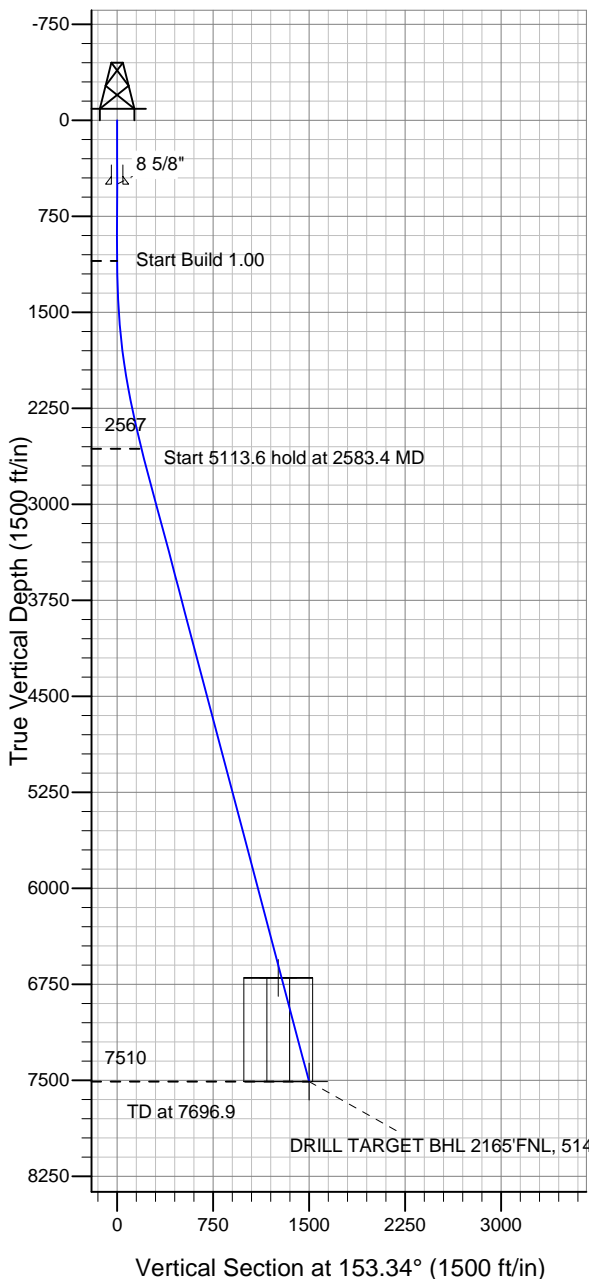
### Well Name: SRC Haythorn 42-36D

Surface Location: SRC Haythorn 31-36D Pad Sec.36-T7N-R66W  
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4853.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1439386.56	3216757.96	40.536900	-104.720139	
Original Well Elev WELL @ 4866.0ft (Original Well Elev)						

## Synergy Resources



SRC Haythorn 31-36D Pad Sec.36-T7N-R66W  
SRC Haythorn 42-36D  
Plan #1 (2-16-11)  
18:06, February 17 2011



Azimuths to True North  
Magnetic North: 8.85°

Magnetic Field  
Strength: 53263.4nT  
Dip Angle: 67.19°  
Date: 2/16/2011  
Model: IGRF200510

### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BOX 400' X 400' 1982'FNL, 688'FEL	6700.0	-1157.7	499.0	40.533722	-104.718344	Rectangle (Sides: L400.0 W400.0)
DRILL TARGET BHL 2165'FNL, 514'FEL	7510.0	-1340.7	673.0	40.533220	-104.717718	Point

### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1100.0	0.00	0.00	1100.0	0.0	0.0	0.00	0.00	0.0	
3	2583.4	14.83	153.34	2566.8	-170.7	85.7	1.00	153.34	190.9	
4	7696.9	14.83	153.34	7510.0	-1340.7	673.0	0.00	0.00	1500.1	DRILL TARGET BHL 2165'FNL, 514'FEL



## **Synergy Resources**

**SEC.36-T7N-R66W**

**SRC Haythorn 31-36D Pad Sec.36-T7N-R66W**

**SRC Haythorn 42-36D**

**Wellbore #1**

**Plan: Plan #1 (2-16-11)**

## **Standard Planning Report**

**17 February, 2011**

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,583.4	14.83	153.34	2,566.8	-170.7	85.7	1.00	1.00	0.00	153.34	
7,696.9	14.83	153.34	7,510.0	-1,340.7	673.0	0.00	0.00	0.00	0.00	DRILL TARGET BH

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Haythorn 42-36D
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Project:</b>	SEC.36-T7N-R66W	<b>MD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Site:</b>	SRC Haythorn 31-36D Pad Sec.36-T7N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Haythorn 42-36D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (2-16-11)		

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
40.0	0.00	0.00	40.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	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
240.0	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	0.00
280.0	0.00	0.00	280.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
360.0	0.00	0.00	360.0	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
440.0	0.00	0.00	440.0	0.0	0.0	0.0	0.00	0.00	0.00
480.0	0.00	0.00	480.0	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
8 5/8"									
520.0	0.00	0.00	520.0	0.0	0.0	0.0	0.00	0.00	0.00
560.0	0.00	0.00	560.0	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
640.0	0.00	0.00	640.0	0.0	0.0	0.0	0.00	0.00	0.00
680.0	0.00	0.00	680.0	0.0	0.0	0.0	0.00	0.00	0.00
720.0	0.00	0.00	720.0	0.0	0.0	0.0	0.00	0.00	0.00
760.0	0.00	0.00	760.0	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
840.0	0.00	0.00	840.0	0.0	0.0	0.0	0.00	0.00	0.00
880.0	0.00	0.00	880.0	0.0	0.0	0.0	0.00	0.00	0.00
920.0	0.00	0.00	920.0	0.0	0.0	0.0	0.00	0.00	0.00
960.0	0.00	0.00	960.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,040.0	0.00	0.00	1,040.0	0.0	0.0	0.0	0.00	0.00	0.00
1,080.0	0.00	0.00	1,080.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,120.0	0.20	153.34	1,120.0	0.0	0.0	0.0	1.00	1.00	0.00
1,160.0	0.60	153.34	1,160.0	-0.3	0.1	0.3	1.00	1.00	0.00
1,200.0	1.00	153.34	1,200.0	-0.8	0.4	0.9	1.00	1.00	0.00
1,240.0	1.40	153.34	1,240.0	-1.5	0.8	1.7	1.00	1.00	0.00
1,280.0	1.80	153.34	1,280.0	-2.5	1.3	2.8	1.00	1.00	0.00
1,320.0	2.20	153.34	1,319.9	-3.8	1.9	4.2	1.00	1.00	0.00
1,360.0	2.60	153.34	1,359.9	-5.3	2.6	5.9	1.00	1.00	0.00
1,400.0	3.00	153.34	1,399.9	-7.0	3.5	7.9	1.00	1.00	0.00
1,440.0	3.40	153.34	1,439.8	-9.0	4.5	10.1	1.00	1.00	0.00
1,480.0	3.80	153.34	1,479.7	-11.3	5.7	12.6	1.00	1.00	0.00
1,520.0	4.20	153.34	1,519.6	-13.8	6.9	15.4	1.00	1.00	0.00
1,560.0	4.60	153.34	1,559.5	-16.5	8.3	18.5	1.00	1.00	0.00
1,600.0	5.00	153.34	1,599.4	-19.5	9.8	21.8	1.00	1.00	0.00
1,640.0	5.40	153.34	1,639.2	-22.7	11.4	25.4	1.00	1.00	0.00
1,680.0	5.80	153.34	1,679.0	-26.2	13.2	29.3	1.00	1.00	0.00
1,720.0	6.20	153.34	1,718.8	-30.0	15.0	33.5	1.00	1.00	0.00
1,760.0	6.60	153.34	1,758.5	-33.9	17.0	38.0	1.00	1.00	0.00
1,800.0	7.00	153.34	1,798.3	-38.2	19.2	42.7	1.00	1.00	0.00
1,840.0	7.40	153.34	1,837.9	-42.6	21.4	47.7	1.00	1.00	0.00
1,880.0	7.80	153.34	1,877.6	-47.4	23.8	53.0	1.00	1.00	0.00
1,920.0	8.20	153.34	1,917.2	-52.4	26.3	58.6	1.00	1.00	0.00
1,960.0	8.60	153.34	1,956.8	-57.6	28.9	64.4	1.00	1.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Haythorn 42-36D
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Project:</b>	SEC.36-T7N-R66W	<b>MD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Site:</b>	SRC Haythorn 31-36D Pad Sec.36-T7N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Haythorn 42-36D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (2-16-11)		

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)	
2,000.0	9.00	153.34	1,996.3	-63.0	31.6	70.5	1.00	1.00	0.00	
2,040.0	9.40	153.34	2,035.8	-68.8	34.5	76.9	1.00	1.00	0.00	
2,080.0	9.80	153.34	2,075.2	-74.7	37.5	83.6	1.00	1.00	0.00	
2,120.0	10.20	153.34	2,114.6	-80.9	40.6	90.6	1.00	1.00	0.00	
2,160.0	10.60	153.34	2,154.0	-87.4	43.9	97.8	1.00	1.00	0.00	
2,200.0	11.00	153.34	2,193.3	-94.1	47.2	105.3	1.00	1.00	0.00	
2,240.0	11.40	153.34	2,232.5	-101.0	50.7	113.0	1.00	1.00	0.00	
2,280.0	11.80	153.34	2,271.7	-108.2	54.3	121.1	1.00	1.00	0.00	
2,320.0	12.20	153.34	2,310.8	-115.6	58.1	129.4	1.00	1.00	0.00	
2,360.0	12.60	153.34	2,349.9	-123.3	61.9	138.0	1.00	1.00	0.00	
2,400.0	13.00	153.34	2,388.9	-131.2	65.9	146.8	1.00	1.00	0.00	
2,440.0	13.40	153.34	2,427.8	-139.4	70.0	156.0	1.00	1.00	0.00	
2,480.0	13.80	153.34	2,466.7	-147.8	74.2	165.4	1.00	1.00	0.00	
2,520.0	14.20	153.34	2,505.5	-156.5	78.5	175.1	1.00	1.00	0.00	
2,560.0	14.60	153.34	2,544.3	-165.3	83.0	185.0	1.00	1.00	0.00	
2,583.4	14.83	153.34	2,566.8	-170.7	85.7	190.9	1.00	1.00	0.00	
2,600.0	14.83	153.34	2,582.9	-174.5	87.6	195.2	0.00	0.00	0.00	
2,640.0	14.83	153.34	2,621.6	-183.6	92.2	205.4	0.00	0.00	0.00	
2,680.0	14.83	153.34	2,660.3	-192.8	96.8	215.7	0.00	0.00	0.00	
2,720.0	14.83	153.34	2,698.9	-201.9	101.4	225.9	0.00	0.00	0.00	
2,760.0	14.83	153.34	2,737.6	-211.1	106.0	236.2	0.00	0.00	0.00	
2,800.0	14.83	153.34	2,776.3	-220.2	110.5	246.4	0.00	0.00	0.00	
2,840.0	14.83	153.34	2,814.9	-229.4	115.1	256.6	0.00	0.00	0.00	
2,880.0	14.83	153.34	2,853.6	-238.5	119.7	266.9	0.00	0.00	0.00	
2,920.0	14.83	153.34	2,892.3	-247.7	124.3	277.1	0.00	0.00	0.00	
2,960.0	14.83	153.34	2,930.9	-256.8	128.9	287.4	0.00	0.00	0.00	
3,000.0	14.83	153.34	2,969.6	-266.0	133.5	297.6	0.00	0.00	0.00	
3,040.0	14.83	153.34	3,008.3	-275.1	138.1	307.9	0.00	0.00	0.00	
3,080.0	14.83	153.34	3,046.9	-284.3	142.7	318.1	0.00	0.00	0.00	
3,120.0	14.83	153.34	3,085.6	-293.4	147.3	328.3	0.00	0.00	0.00	
3,160.0	14.83	153.34	3,124.3	-302.6	151.9	338.6	0.00	0.00	0.00	
3,200.0	14.83	153.34	3,162.9	-311.7	156.5	348.8	0.00	0.00	0.00	
3,240.0	14.83	153.34	3,201.6	-320.9	161.1	359.1	0.00	0.00	0.00	
3,280.0	14.83	153.34	3,240.3	-330.0	165.7	369.3	0.00	0.00	0.00	
3,320.0	14.83	153.34	3,278.9	-339.2	170.3	379.5	0.00	0.00	0.00	
3,360.0	14.83	153.34	3,317.6	-348.4	174.9	389.8	0.00	0.00	0.00	
3,400.0	14.83	153.34	3,356.3	-357.5	179.5	400.0	0.00	0.00	0.00	
3,440.0	14.83	153.34	3,394.9	-366.7	184.1	410.3	0.00	0.00	0.00	
3,480.0	14.83	153.34	3,433.6	-375.8	188.6	420.5	0.00	0.00	0.00	
3,520.0	14.83	153.34	3,472.3	-385.0	193.2	430.7	0.00	0.00	0.00	
3,560.0	14.83	153.34	3,510.9	-394.1	197.8	441.0	0.00	0.00	0.00	
3,600.0	14.83	153.34	3,549.6	-403.3	202.4	451.2	0.00	0.00	0.00	
3,640.0	14.83	153.34	3,588.3	-412.4	207.0	461.5	0.00	0.00	0.00	
3,680.0	14.83	153.34	3,626.9	-421.6	211.6	471.7	0.00	0.00	0.00	
3,720.0	14.83	153.34	3,665.6	-430.7	216.2	481.9	0.00	0.00	0.00	
3,760.0	14.83	153.34	3,704.3	-439.9	220.8	492.2	0.00	0.00	0.00	
3,800.0	14.83	153.34	3,742.9	-449.0	225.4	502.4	0.00	0.00	0.00	
3,840.0	14.83	153.34	3,781.6	-458.2	230.0	512.7	0.00	0.00	0.00	
3,880.0	14.83	153.34	3,820.3	-467.3	234.6	522.9	0.00	0.00	0.00	
3,920.0	14.83	153.34	3,858.9	-476.5	239.2	533.1	0.00	0.00	0.00	
3,960.0	14.83	153.34	3,897.6	-485.6	243.8	543.4	0.00	0.00	0.00	
4,000.0	14.83	153.34	3,936.3	-494.8	248.4	553.6	0.00	0.00	0.00	
4,040.0	14.83	153.34	3,974.9	-503.9	253.0	563.9	0.00	0.00	0.00	

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Haythorn 42-36D
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Project:</b>	SEC.36-T7N-R66W	<b>MD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Site:</b>	SRC Haythorn 31-36D Pad	<b>North Reference:</b>	True
	Sec.36-T7N-R66W		
<b>Well:</b>	SRC Haythorn 42-36D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (2-16-11)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,080.0	14.83	153.34	4,013.6	-513.1	257.6	574.1	0.00	0.00	0.00
4,120.0	14.83	153.34	4,052.3	-522.2	262.2	584.3	0.00	0.00	0.00
4,160.0	14.83	153.34	4,090.9	-531.4	266.7	594.6	0.00	0.00	0.00
4,200.0	14.83	153.34	4,129.6	-540.5	271.3	604.8	0.00	0.00	0.00
4,240.0	14.83	153.34	4,168.3	-549.7	275.9	615.1	0.00	0.00	0.00
4,280.0	14.83	153.34	4,206.9	-558.9	280.5	625.3	0.00	0.00	0.00
4,320.0	14.83	153.34	4,245.6	-568.0	285.1	635.5	0.00	0.00	0.00
4,360.0	14.83	153.34	4,284.3	-577.2	289.7	645.8	0.00	0.00	0.00
4,400.0	14.83	153.34	4,322.9	-586.3	294.3	656.0	0.00	0.00	0.00
4,440.0	14.83	153.34	4,361.6	-595.5	298.9	666.3	0.00	0.00	0.00
4,480.0	14.83	153.34	4,400.3	-604.6	303.5	676.5	0.00	0.00	0.00
4,520.0	14.83	153.34	4,438.9	-613.8	308.1	686.8	0.00	0.00	0.00
4,560.0	14.83	153.34	4,477.6	-622.9	312.7	697.0	0.00	0.00	0.00
4,600.0	14.83	153.34	4,516.3	-632.1	317.3	707.2	0.00	0.00	0.00
4,640.0	14.83	153.34	4,554.9	-641.2	321.9	717.5	0.00	0.00	0.00
4,680.0	14.83	153.34	4,593.6	-650.4	326.5	727.7	0.00	0.00	0.00
4,720.0	14.83	153.34	4,632.3	-659.5	331.1	738.0	0.00	0.00	0.00
4,760.0	14.83	153.34	4,670.9	-668.7	335.7	748.2	0.00	0.00	0.00
4,800.0	14.83	153.34	4,709.6	-677.8	340.3	758.4	0.00	0.00	0.00
4,840.0	14.83	153.34	4,748.3	-687.0	344.8	768.7	0.00	0.00	0.00
4,880.0	14.83	153.34	4,786.9	-696.1	349.4	778.9	0.00	0.00	0.00
4,920.0	14.83	153.34	4,825.6	-705.3	354.0	789.2	0.00	0.00	0.00
4,960.0	14.83	153.34	4,864.3	-714.4	358.6	799.4	0.00	0.00	0.00
5,000.0	14.83	153.34	4,902.9	-723.6	363.2	809.6	0.00	0.00	0.00
5,040.0	14.83	153.34	4,941.6	-732.7	367.8	819.9	0.00	0.00	0.00
5,080.0	14.83	153.34	4,980.3	-741.9	372.4	830.1	0.00	0.00	0.00
5,120.0	14.83	153.34	5,018.9	-751.0	377.0	840.4	0.00	0.00	0.00
5,160.0	14.83	153.34	5,057.6	-760.2	381.6	850.6	0.00	0.00	0.00
5,200.0	14.83	153.34	5,096.3	-769.4	386.2	860.8	0.00	0.00	0.00
5,240.0	14.83	153.34	5,134.9	-778.5	390.8	871.1	0.00	0.00	0.00
5,280.0	14.83	153.34	5,173.6	-787.7	395.4	881.3	0.00	0.00	0.00
5,320.0	14.83	153.34	5,212.3	-796.8	400.0	891.6	0.00	0.00	0.00
5,360.0	14.83	153.34	5,250.9	-806.0	404.6	901.8	0.00	0.00	0.00
5,400.0	14.83	153.34	5,289.6	-815.1	409.2	912.0	0.00	0.00	0.00
5,440.0	14.83	153.34	5,328.3	-824.3	413.8	922.3	0.00	0.00	0.00
5,480.0	14.83	153.34	5,366.9	-833.4	418.3	932.5	0.00	0.00	0.00
5,520.0	14.83	153.34	5,405.6	-842.6	422.9	942.8	0.00	0.00	0.00
5,560.0	14.83	153.34	5,444.3	-851.7	427.5	953.0	0.00	0.00	0.00
5,600.0	14.83	153.34	5,483.0	-860.9	432.1	963.2	0.00	0.00	0.00
5,640.0	14.83	153.34	5,521.6	-870.0	436.7	973.5	0.00	0.00	0.00
5,680.0	14.83	153.34	5,560.3	-879.2	441.3	983.7	0.00	0.00	0.00
5,720.0	14.83	153.34	5,599.0	-888.3	445.9	994.0	0.00	0.00	0.00
5,760.0	14.83	153.34	5,637.6	-897.5	450.5	1,004.2	0.00	0.00	0.00
5,800.0	14.83	153.34	5,676.3	-906.6	455.1	1,014.4	0.00	0.00	0.00
5,840.0	14.83	153.34	5,715.0	-915.8	459.7	1,024.7	0.00	0.00	0.00
5,880.0	14.83	153.34	5,753.6	-924.9	464.3	1,034.9	0.00	0.00	0.00
5,920.0	14.83	153.34	5,792.3	-934.1	468.9	1,045.2	0.00	0.00	0.00
5,960.0	14.83	153.34	5,831.0	-943.2	473.5	1,055.4	0.00	0.00	0.00
6,000.0	14.83	153.34	5,869.6	-952.4	478.1	1,065.6	0.00	0.00	0.00
6,040.0	14.83	153.34	5,908.3	-961.5	482.7	1,075.9	0.00	0.00	0.00
6,080.0	14.83	153.34	5,947.0	-970.7	487.3	1,086.1	0.00	0.00	0.00
6,120.0	14.83	153.34	5,985.6	-979.9	491.9	1,096.4	0.00	0.00	0.00
6,160.0	14.83	153.34	6,024.3	-989.0	496.4	1,106.6	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Haythorn 42-36D
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Project:</b>	SEC.36-T7N-R66W	<b>MD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Site:</b>	SRC Haythorn 31-36D Pad Sec.36-T7N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Haythorn 42-36D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (2-16-11)		

#### 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)
6,200.0	14.83	153.34	6,063.0	-998.2	501.0	1,116.9	0.00	0.00	0.00
6,240.0	14.83	153.34	6,101.6	-1,007.3	505.6	1,127.1	0.00	0.00	0.00
6,280.0	14.83	153.34	6,140.3	-1,016.5	510.2	1,137.3	0.00	0.00	0.00
6,320.0	14.83	153.34	6,179.0	-1,025.6	514.8	1,147.6	0.00	0.00	0.00
6,360.0	14.83	153.34	6,217.6	-1,034.8	519.4	1,157.8	0.00	0.00	0.00
6,400.0	14.83	153.34	6,256.3	-1,043.9	524.0	1,168.1	0.00	0.00	0.00
6,440.0	14.83	153.34	6,295.0	-1,053.1	528.6	1,178.3	0.00	0.00	0.00
6,480.0	14.83	153.34	6,333.6	-1,062.2	533.2	1,188.5	0.00	0.00	0.00
6,520.0	14.83	153.34	6,372.3	-1,071.4	537.8	1,198.8	0.00	0.00	0.00
6,560.0	14.83	153.34	6,411.0	-1,080.5	542.4	1,209.0	0.00	0.00	0.00
6,600.0	14.83	153.34	6,449.6	-1,089.7	547.0	1,219.3	0.00	0.00	0.00
6,640.0	14.83	153.34	6,488.3	-1,098.8	551.6	1,229.5	0.00	0.00	0.00
6,680.0	14.83	153.34	6,527.0	-1,108.0	556.2	1,239.7	0.00	0.00	0.00
6,720.0	14.83	153.34	6,565.6	-1,117.1	560.8	1,250.0	0.00	0.00	0.00
6,760.0	14.83	153.34	6,604.3	-1,126.3	565.4	1,260.2	0.00	0.00	0.00
6,800.0	14.83	153.34	6,643.0	-1,135.4	570.0	1,270.5	0.00	0.00	0.00
6,840.0	14.83	153.34	6,681.6	-1,144.6	574.5	1,280.7	0.00	0.00	0.00
6,852.1	14.83	153.34	6,693.3	-1,147.4	575.9	1,283.8	0.00	0.00	0.00
<b>TARGET BOX 400' X 400' 1982'FNL, 688'FEL</b>									
6,880.0	14.83	153.34	6,720.3	-1,153.7	579.1	1,290.9	0.00	0.00	0.00
6,920.0	14.83	153.34	6,759.0	-1,162.9	583.7	1,301.2	0.00	0.00	0.00
6,960.0	14.83	153.34	6,797.6	-1,172.0	588.3	1,311.4	0.00	0.00	0.00
7,000.0	14.83	153.34	6,836.3	-1,181.2	592.9	1,321.7	0.00	0.00	0.00
7,040.0	14.83	153.34	6,875.0	-1,190.3	597.5	1,331.9	0.00	0.00	0.00
7,080.0	14.83	153.34	6,913.6	-1,199.5	602.1	1,342.1	0.00	0.00	0.00
7,120.0	14.83	153.34	6,952.3	-1,208.7	606.7	1,352.4	0.00	0.00	0.00
7,160.0	14.83	153.34	6,991.0	-1,217.8	611.3	1,362.6	0.00	0.00	0.00
7,200.0	14.83	153.34	7,029.6	-1,227.0	615.9	1,372.9	0.00	0.00	0.00
7,240.0	14.83	153.34	7,068.3	-1,236.1	620.5	1,383.1	0.00	0.00	0.00
7,280.0	14.83	153.34	7,107.0	-1,245.3	625.1	1,393.3	0.00	0.00	0.00
7,320.0	14.83	153.34	7,145.6	-1,254.4	629.7	1,403.6	0.00	0.00	0.00
7,334.9	14.83	153.34	7,160.0	-1,257.8	631.4	1,407.4	0.00	0.00	0.00
<b>NIORARA</b>									
7,360.0	14.83	153.34	7,184.3	-1,263.6	634.3	1,413.8	0.00	0.00	0.00
7,400.0	14.83	153.34	7,223.0	-1,272.7	638.9	1,424.1	0.00	0.00	0.00
7,440.0	14.83	153.34	7,261.6	-1,281.9	643.5	1,434.3	0.00	0.00	0.00
7,480.0	14.83	153.34	7,300.3	-1,291.0	648.1	1,444.5	0.00	0.00	0.00
7,520.0	14.83	153.34	7,339.0	-1,300.2	652.6	1,454.8	0.00	0.00	0.00
7,560.0	14.83	153.34	7,377.6	-1,309.3	657.2	1,465.0	0.00	0.00	0.00
7,600.0	14.83	153.34	7,416.3	-1,318.5	661.8	1,475.3	0.00	0.00	0.00
7,640.0	14.83	153.34	7,455.0	-1,327.6	666.4	1,485.5	0.00	0.00	0.00
7,680.0	14.83	153.34	7,493.6	-1,336.8	671.0	1,495.7	0.00	0.00	0.00
7,696.9	14.83	153.34	7,510.0	-1,340.7	673.0	1,500.1	0.00	0.00	0.00
<b>DRILL TARGET BHL 2165'FNL, 514'FEL</b>									

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well SRC Haythorn 42-36D
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Project:</b>	SEC.36-T7N-R66W	<b>MD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Site:</b>	SRC Haythorn 31-36D Pad Sec.36-T7N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	SRC Haythorn 42-36D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (2-16-11)		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
TARGET BOX 400' X	0.00	0.00	6,700.0	-1,157.7	499.0	1,438,233.33	3,217,267.10	40.533722	-104.718344
- plan misses target center by 77.9ft at 6852.1ft MD (6693.3 TVD, -1147.4 N, 575.9 E)									
- Rectangle (sides W400.0 H400.0 D810.0)									
DRILL TARGET BHL	0.00	0.00	7,510.0	-1,340.7	673.0	1,438,051.91	3,217,442.67	40.533220	-104.717718
- plan hits target center									
- Point									

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(ft)	(ft)	Name	(")	(")
	500.0	500.0	8 5/8"	8-5/8	12-1/4

Formations					
	Measured Depth	Vertical Depth			Dip
	(ft)	(ft)	Name	Lithology	(°)
	7,334.9	7,160.0	NIOBRARA		0.00





## **Directional**

### **Synergy Resources**

**SEC.36-T7N-R66W**

**SRC Haythorn 31-36D Pad Sec.36-T7N-R66W**

**SRC Haythorn 42-36D**

**Wellbore #1**

**Plan #1 (2-16-11)**

## **Anticollision Report**

**17 February, 2011**

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Haythorn 42-36D
<b>Project:</b>	SEC.36-T7N-R66W	<b>TVD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Reference Site:</b>	SRC Haythorn 31-36D Pad Sec.36-T7N-R66W	<b>MD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Haythorn 42-36D	<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 (2-16-11)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1 (2-16-11)		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<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 10,000.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>	<b>Date</b> 2/17/2011			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	7,696.9	Plan #1 (2-16-11) (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 Haythorn 31-36D Pad Sec.36-T7N-R66W						
SRC Haythorn 36CD - Wellbore #1 - Plan #1 (2-16-11)	1,100.0	1,100.0	20.0	15.3	4.240	CC
SRC Haythorn 36CD - Wellbore #1 - Plan #1 (2-16-11)	1,200.0	1,200.0	20.4	15.3	3.971	ES
SRC Haythorn 36CD - Wellbore #1 - Plan #1 (2-16-11)	1,300.0	1,300.0	21.8	16.3	3.934	SF
SRC Haythorn 41-36D - Wellbore #1 - Plan #1 (2-16-11)	700.0	699.0	20.0	17.1	6.854	CC, ES
SRC Haythorn 41-36D - Wellbore #1 - Plan #1 (2-16-11)	900.0	898.3	23.2	19.4	6.100	SF

Offset Design		SRC Haythorn 31-36D Pad Sec.36-T7N-R66W - SRC Haythorn 36CD - Wellbore #1 - Plan #1 (2-16-11)									Offset Site Error:		0.0 ft		
Survey Program: 0-MWVD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-89.98	0.0	-20.0	20.0						
100.0	100.0	100.0	100.0	0.1	0.1	-89.98	0.0	-20.0	20.0	19.8	0.22	89.039			
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	0.0	-20.0	20.0	19.3	0.67	29.680			
300.0	300.0	300.0	300.0	0.6	0.6	-89.98	0.0	-20.0	20.0	18.9	1.12	17.808			
400.0	400.0	400.0	400.0	0.8	0.8	-89.98	0.0	-20.0	20.0	18.4	1.57	12.720			
500.0	500.0	500.0	500.0	1.0	1.0	-89.98	0.0	-20.0	20.0	18.0	2.02	9.893			
600.0	600.0	600.0	600.0	1.2	1.2	-89.98	0.0	-20.0	20.0	17.5	2.47	8.094			
700.0	700.0	700.0	700.0	1.5	1.5	-89.98	0.0	-20.0	20.0	17.1	2.92	6.849			
800.0	800.0	800.0	800.0	1.7	1.7	-89.98	0.0	-20.0	20.0	16.6	3.37	5.936			
900.0	900.0	900.0	900.0	1.9	1.9	-89.98	0.0	-20.0	20.0	16.2	3.82	5.238			
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-89.98	0.0	-20.0	20.0	15.7	4.27	4.686			
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-89.98	0.0	-20.0	20.0	15.3	4.72	4.240	CC		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	118.86	0.0	-20.0	20.4	15.3	5.14	3.971	ES		
1,300.0	1,300.0	1,300.0	1,300.0	2.7	2.8	124.89	0.0	-20.0	21.8	16.3	5.54	3.934	SF		
1,400.0	1,399.9	1,399.8	1,399.8	2.9	3.0	131.22	-0.8	-20.3	24.6	18.7	5.92	4.161			
1,500.0	1,499.7	1,499.7	1,499.6	3.1	3.2	135.13	-3.2	-21.3	29.0	22.7	6.28	4.618			
1,600.0	1,599.4	1,599.5	1,599.4	3.3	3.4	137.04	-7.3	-22.8	34.8	28.1	6.66	5.222			
1,700.0	1,698.9	1,699.2	1,698.9	3.5	3.6	137.60	-13.0	-25.0	41.9	34.8	7.06	5.933			
1,800.0	1,798.3	1,798.9	1,798.3	3.8	3.8	137.32	-20.3	-27.8	50.2	42.7	7.47	6.722			
1,900.0	1,897.4	1,898.4	1,897.4	4.0	4.0	137.05	-28.7	-31.0	59.8	51.9	7.91	7.570			
2,000.0	1,996.3	1,997.8	1,996.4	4.3	4.2	137.76	-37.2	-34.2	70.8	62.4	8.36	8.465			

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 Haythorn 42-36D
<b>Project:</b>	SEC.36-T7N-R66W	<b>TVD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Reference Site:</b>	SRC Haythorn 31-36D Pad Sec.36-T7N-R66W	<b>MD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Haythorn 42-36D	<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 (2-16-11)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SRC Haythorn 31-36D Pad Sec.36-T7N-R66W - SRC Haythorn 36CD - Wellbore #1 - Plan #1 (2-16-11)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
2,100.0	2,094.9	2,097.1	2,095.2	4.6	4.4	139.05		-45.6	-37.4	83.0	74.1	8.83	9.402	
2,200.0	2,193.3	2,196.1	2,193.8	5.0	4.6	140.66		-54.1	-40.7	96.6	87.3	9.30	10.379	
2,300.0	2,291.2	2,294.9	2,292.2	5.3	4.9	142.39		-62.5	-43.9	111.6	101.8	9.79	11.397	
2,400.0	2,388.9	2,393.5	2,390.3	5.7	5.1	144.16		-70.9	-47.1	128.1	117.8	10.29	12.453	
2,500.0	2,486.1	2,491.7	2,488.2	6.1	5.4	145.88		-79.3	-50.3	146.1	135.3	10.79	13.547	
2,583.4	2,566.8	2,573.4	2,569.5	6.5	5.6	147.26		-86.2	-52.9	162.3	151.1	11.21	14.485	
2,600.0	2,582.9	2,589.7	2,585.8	6.6	5.6	147.55		-87.6	-53.5	165.7	154.4	11.29	14.670	
2,700.0	2,679.6	2,687.5	2,683.2	7.0	5.9	149.03		-95.9	-56.6	185.8	174.0	11.82	15.718	
2,800.0	2,776.3	2,785.4	2,780.6	7.5	6.1	150.22		-104.3	-59.8	206.1	193.8	12.36	16.676	
2,900.0	2,872.9	2,883.2	2,878.1	8.0	6.4	151.20		-112.6	-63.0	226.5	213.6	12.90	17.552	
3,000.0	2,969.6	2,981.0	2,975.5	8.5	6.6	152.01		-120.9	-66.2	246.9	233.4	13.45	18.354	
3,100.0	3,066.3	3,078.9	3,072.9	9.0	6.9	152.70		-129.3	-69.4	267.3	253.3	14.00	19.091	
3,200.0	3,162.9	3,176.7	3,170.4	9.5	7.2	153.30		-137.6	-72.6	287.8	273.3	14.56	19.769	
3,300.0	3,259.6	3,274.6	3,267.8	10.0	7.4	153.81		-146.0	-75.7	308.3	293.2	15.12	20.395	
3,400.0	3,356.3	3,372.4	3,365.2	10.5	7.7	154.26		-154.3	-78.9	328.8	313.2	15.68	20.973	
3,500.0	3,452.9	3,470.2	3,462.6	11.0	8.0	154.66		-162.6	-82.1	349.4	333.1	16.24	21.509	
3,600.0	3,549.6	3,568.1	3,560.1	11.6	8.2	155.01		-171.0	-85.3	369.9	353.1	16.81	22.006	
3,700.0	3,646.3	3,665.9	3,657.5	12.1	8.5	155.33		-179.3	-88.5	390.5	373.1	17.38	22.470	
3,800.0	3,742.9	3,763.8	3,754.9	12.6	8.8	155.61		-187.6	-91.7	411.1	393.1	17.95	22.902	
3,900.0	3,839.6	3,861.6	3,852.4	13.1	9.0	155.87		-196.0	-94.8	431.7	413.1	18.52	23.305	
4,000.0	3,936.3	3,959.4	3,949.8	13.7	9.3	156.11		-204.3	-98.0	452.3	433.2	19.10	23.683	
4,100.0	4,032.9	4,057.3	4,047.2	14.2	9.6	156.32		-212.6	-101.2	472.9	453.2	19.67	24.037	
4,200.0	4,129.6	4,155.1	4,144.7	14.7	9.8	156.52		-221.0	-104.4	493.5	473.2	20.25	24.370	
4,300.0	4,226.3	4,253.0	4,242.1	15.3	10.1	156.70		-229.3	-107.6	514.1	493.3	20.83	24.683	
4,400.0	4,322.9	4,350.8	4,339.5	15.8	10.4	156.86		-237.7	-110.7	534.7	513.3	21.41	24.978	
4,500.0	4,419.6	4,448.6	4,437.0	16.3	10.7	157.02		-246.0	-113.9	555.3	533.3	21.99	25.257	
4,600.0	4,516.3	4,546.5	4,534.4	16.9	10.9	157.16		-254.3	-117.1	575.9	553.4	22.57	25.520	
4,700.0	4,612.9	4,644.3	4,631.8	17.4	11.2	157.29		-262.7	-120.3	596.6	573.4	23.15	25.770	
4,800.0	4,709.6	4,742.2	4,729.3	18.0	11.5	157.42		-271.0	-123.5	617.2	593.5	23.73	26.006	
4,900.0	4,806.3	4,840.0	4,826.7	18.5	11.8	157.53		-279.3	-126.7	637.8	613.5	24.32	26.230	
5,000.0	4,902.9	4,937.8	4,924.1	19.0	12.0	157.64		-287.7	-129.8	658.5	633.6	24.90	26.443	
5,100.0	4,999.6	5,035.7	5,021.6	19.6	12.3	157.74		-296.0	-133.0	679.1	653.6	25.49	26.646	
5,200.0	5,096.3	5,133.5	5,119.0	20.1	12.6	157.84		-304.3	-136.2	699.7	673.7	26.07	26.838	
5,300.0	5,192.9	5,231.4	5,216.4	20.7	12.9	157.93		-312.7	-139.4	720.4	693.7	26.66	27.022	
5,400.0	5,289.6	5,329.2	5,313.9	21.2	13.1	158.02		-321.0	-142.6	741.0	713.8	27.25	27.198	
5,500.0	5,386.3	5,427.0	5,411.3	21.7	13.4	158.10		-329.4	-145.8	761.7	733.8	27.83	27.365	
5,600.0	5,483.0	5,524.9	5,508.7	22.3	13.7	158.17		-337.7	-148.9	782.3	753.9	28.42	27.526	
5,700.0	5,579.6	5,622.7	5,606.2	22.8	14.0	158.25		-346.0	-152.1	803.0	774.0	29.01	27.679	
5,800.0	5,676.3	5,720.6	5,703.6	23.4	14.2	158.31		-354.4	-155.3	823.6	794.0	29.60	27.826	
5,900.0	5,773.0	5,818.4	5,801.0	23.9	14.5	158.38		-362.7	-158.5	844.3	814.1	30.19	27.967	
6,000.0	5,869.6	5,916.2	5,898.5	24.5	14.8	158.44		-371.0	-161.7	864.9	834.1	30.78	28.102	
6,100.0	5,966.3	6,014.1	5,995.9	25.0	15.1	158.50		-379.4	-164.9	885.6	854.2	31.37	28.231	
6,200.0	6,063.0	6,111.9	6,093.3	25.5	15.3	158.56		-387.7	-168.0	906.2	874.3	31.96	28.356	
6,300.0	6,159.6	6,209.8	6,190.8	26.1	15.6	158.61		-396.0	-171.2	926.9	894.3	32.55	28.476	
6,400.0	6,256.3	6,307.6	6,288.2	26.6	15.9	158.67		-404.4	-174.4	947.5	914.4	33.14	28.591	
6,500.0	6,353.0	6,405.5	6,385.6	27.2	16.2	158.72		-412.7	-177.6	968.2	934.4	33.73	28.702	
6,600.0	6,449.6	6,503.3	6,483.1	27.7	16.5	158.76		-421.1	-180.8	988.8	954.5	34.32	28.809	
6,700.0	6,546.3	6,601.1	6,580.5	28.3	16.7	158.81		-429.4	-183.9	1,009.5	974.6	34.92	28.912	
6,800.0	6,643.0	6,699.0	6,677.9	28.8	17.0	158.85		-437.7	-187.1	1,030.1	994.6	35.51	29.011	
6,900.0	6,739.6	6,796.8	6,775.4	29.4	17.3	158.90		-446.1	-190.3	1,050.8	1,014.7	36.10	29.107	
7,000.0	6,836.3	6,894.7	6,872.8	29.9	17.6	158.94		-454.4	-193.5	1,071.5	1,034.8	36.69	29.200	

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 Haythorn 42-36D
<b>Project:</b>	SEC.36-T7N-R66W	<b>TVD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Reference Site:</b>	SRC Haythorn 31-36D Pad Sec.36-T7N-R66W	<b>MD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Haythorn 42-36D	<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 (2-16-11)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design										SRC Haythorn 31-36D Pad Sec.36-T7N-R66W - SRC Haythorn 36CD - Wellbore #1 - Plan #1 (2-16-11)				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 +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning				
7,100.0	6,933.0	6,992.5	6,970.2	30.4	17.8	158.98	-462.7	-196.7	1,092.1	1,054.8	37.29	29.289					
7,200.0	7,029.6	7,090.3	7,067.7	31.0	18.1	159.01	-471.1	-199.9	1,112.8	1,074.9	37.88	29.376					
7,300.0	7,126.3	7,188.2	7,165.1	31.5	18.4	159.05	-479.4	-203.0	1,133.4	1,095.0	38.47	29.459					
7,400.0	7,223.0	7,286.0	7,262.5	32.1	18.7	159.08	-487.7	-206.2	1,154.1	1,115.0	39.07	29.540					
7,500.0	7,319.6	7,383.9	7,360.0	32.6	19.0	159.12	-496.1	-209.4	1,174.7	1,135.1	39.66	29.618					
7,600.0	7,416.3	7,481.7	7,457.4	33.2	19.2	159.15	-504.4	-212.6	1,195.4	1,155.2	40.26	29.694					
7,696.9	7,510.0	7,534.5	7,510.0	33.7	19.4	159.17	-508.9	-214.3	1,216.2	1,175.4	40.72	29.866					

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Haythorn 42-36D
<b>Project:</b>	SEC.36-T7N-R66W	<b>TVD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Reference Site:</b>	SRC Haythorn 31-36D Pad Sec.36-T7N-R66W	<b>MD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Haythorn 42-36D	<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 (2-16-11)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SRC Haythorn 31-36D Pad Sec.36-T7N-R66W - SRC Haythorn 41-36D - Wellbore #1 - Plan #1 (2-16-11)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	90.03	0.0	20.0	20.0					
100.0	100.0	99.0	99.0	0.1	0.1	90.03	0.0	20.0	20.0	19.8	0.22	89.485		
200.0	200.0	199.0	199.0	0.3	0.3	90.03	0.0	20.0	20.0	19.3	0.67	29.779		
300.0	300.0	299.0	299.0	0.6	0.6	90.03	0.0	20.0	20.0	18.9	1.12	17.843		
400.0	400.0	399.0	399.0	0.8	0.8	90.03	0.0	20.0	20.0	18.4	1.57	12.738		
500.0	500.0	499.0	499.0	1.0	1.0	90.03	0.0	20.0	20.0	18.0	2.02	9.904		
600.0	600.0	599.0	599.0	1.2	1.2	90.03	0.0	20.0	20.0	17.5	2.47	8.102		
700.0	700.0	699.0	699.0	1.5	1.5	90.03	0.0	20.0	20.0	17.1	2.92	6.854 CC, ES		
800.0	800.0	798.7	798.7	1.7	1.7	89.01	0.4	20.8	20.8	17.4	3.36	6.184		
900.0	900.0	898.3	898.3	1.9	1.9	86.33	1.5	23.1	23.2	19.4	3.80	6.100 SF		
1,000.0	1,000.0	997.8	997.7	2.1	2.1	82.92	3.4	27.0	27.2	23.0	4.24	6.424		
1,100.0	1,100.0	1,097.1	1,096.8	2.4	2.3	79.56	6.0	32.4	33.0	28.3	4.68	7.054		
1,200.0	1,200.0	1,196.2	1,195.6	2.6	2.6	-77.80	9.3	39.3	40.4	35.3	5.10	7.927		
1,300.0	1,300.0	1,294.9	1,293.9	2.7	2.8	-82.81	13.4	47.8	49.4	43.9	5.49	8.985		
1,400.0	1,399.9	1,393.7	1,392.0	2.9	3.1	-87.95	18.2	57.7	60.1	54.2	5.90	10.181		
1,500.0	1,499.7	1,492.8	1,490.5	3.1	3.3	-92.88	23.1	67.9	71.6	65.3	6.33	11.321		
1,600.0	1,599.4	1,591.9	1,588.9	3.3	3.6	-97.57	28.0	78.1	83.8	77.0	6.77	12.378		
1,700.0	1,698.9	1,690.8	1,687.1	3.5	3.9	-102.04	33.0	88.3	96.7	89.5	7.22	13.382		
1,800.0	1,798.3	1,789.5	1,785.2	3.8	4.2	-106.28	37.9	98.5	110.5	102.8	7.70	14.353		
1,900.0	1,897.4	1,888.0	1,883.1	4.0	4.5	-110.28	42.8	108.6	125.5	117.3	8.20	15.307		
2,000.0	1,996.3	1,986.3	1,980.7	4.3	4.7	-114.03	47.7	118.8	141.6	132.9	8.71	16.257		
2,100.0	2,094.9	2,084.3	2,078.1	4.6	5.0	-117.52	52.5	128.9	159.1	149.8	9.24	17.210		
2,200.0	2,193.3	2,182.0	2,175.2	5.0	5.3	-120.77	57.4	138.9	177.9	168.1	9.79	18.174		
2,300.0	2,291.2	2,279.4	2,271.9	5.3	5.6	-123.77	62.3	149.0	198.2	187.8	10.35	19.153		
2,400.0	2,388.9	2,376.4	2,368.3	5.7	5.9	-126.55	67.1	159.0	220.0	209.0	10.92	20.149		
2,500.0	2,486.1	2,473.1	2,464.3	6.1	6.2	-129.10	71.9	168.9	243.3	231.8	11.49	21.165		
2,583.4	2,566.8	2,553.3	2,544.0	6.5	6.4	-131.08	75.9	177.2	263.9	251.9	11.98	22.026		
2,600.0	2,582.9	2,569.3	2,559.9	6.6	6.5	-131.48	76.7	178.8	268.1	256.0	12.08	22.194		
2,700.0	2,679.6	2,665.4	2,655.3	7.0	6.8	-133.69	81.5	188.7	293.8	281.1	12.69	23.160		
2,800.0	2,776.3	2,761.4	2,750.8	7.5	7.1	-135.53	86.2	198.6	319.8	306.5	13.29	24.063		
2,900.0	2,872.9	2,857.5	2,846.2	8.0	7.3	-137.11	91.0	208.5	346.1	332.2	13.90	24.904		
3,000.0	2,969.6	2,953.6	2,941.7	8.5	7.6	-138.46	95.8	218.4	372.6	358.1	14.51	25.687		
3,100.0	3,066.3	3,049.7	3,037.1	9.0	7.9	-139.63	100.6	228.3	399.3	384.1	15.11	26.417		
3,200.0	3,162.9	3,145.7	3,132.6	9.5	8.2	-140.65	105.4	238.2	426.1	410.3	15.72	27.098		
3,300.0	3,259.6	3,241.8	3,228.0	10.0	8.5	-141.56	110.1	248.2	453.0	436.6	16.33	27.734		
3,400.0	3,356.3	3,337.9	3,323.4	10.5	8.8	-142.36	114.9	258.1	480.0	463.0	16.94	28.327		
3,500.0	3,452.9	3,434.0	3,418.9	11.0	9.1	-143.08	119.7	268.0	507.1	489.5	17.56	28.883		
3,600.0	3,549.6	3,530.1	3,514.3	11.6	9.4	-143.72	124.5	277.9	534.2	516.1	18.17	29.404		
3,700.0	3,646.3	3,626.1	3,609.8	12.1	9.7	-144.31	129.3	287.8	561.4	542.6	18.78	29.893		
3,800.0	3,742.9	3,722.2	3,705.2	12.6	10.0	-144.84	134.1	297.7	588.7	569.3	19.39	30.353		
3,900.0	3,839.6	3,818.3	3,800.7	13.1	10.3	-145.32	138.8	307.6	616.0	596.0	20.01	30.785		
4,000.0	3,936.3	3,914.4	3,896.1	13.7	10.6	-145.76	143.6	317.5	643.3	622.7	20.62	31.193		
4,100.0	4,032.9	4,010.4	3,991.6	14.2	10.9	-146.17	148.4	327.4	670.7	649.5	21.24	31.578		
4,200.0	4,129.6	4,106.5	4,087.0	14.7	11.2	-146.54	153.2	337.3	698.1	676.2	21.86	31.942		
4,300.0	4,226.3	4,202.6	4,182.5	15.3	11.5	-146.89	158.0	347.2	725.5	703.0	22.47	32.286		
4,400.0	4,322.9	4,298.7	4,277.9	15.8	11.7	-147.21	162.7	357.1	753.0	729.9	23.09	32.612		
4,500.0	4,419.6	4,394.8	4,373.4	16.3	12.0	-147.51	167.5	367.0	780.4	756.7	23.71	32.922		
4,600.0	4,516.3	4,490.8	4,468.8	16.9	12.3	-147.78	172.3	376.9	807.9	783.6	24.32	33.216		
4,700.0	4,612.9	4,586.9	4,564.2	17.4	12.6	-148.04	177.1	386.8	835.4	810.5	24.94	33.495		
4,800.0	4,709.6	4,683.0	4,659.7	18.0	12.9	-148.29	181.9	396.7	862.9	837.4	25.56	33.761		
4,900.0	4,806.3	4,779.1	4,755.1	18.5	13.2	-148.51	186.6	406.6	890.5	864.3	26.18	34.015		

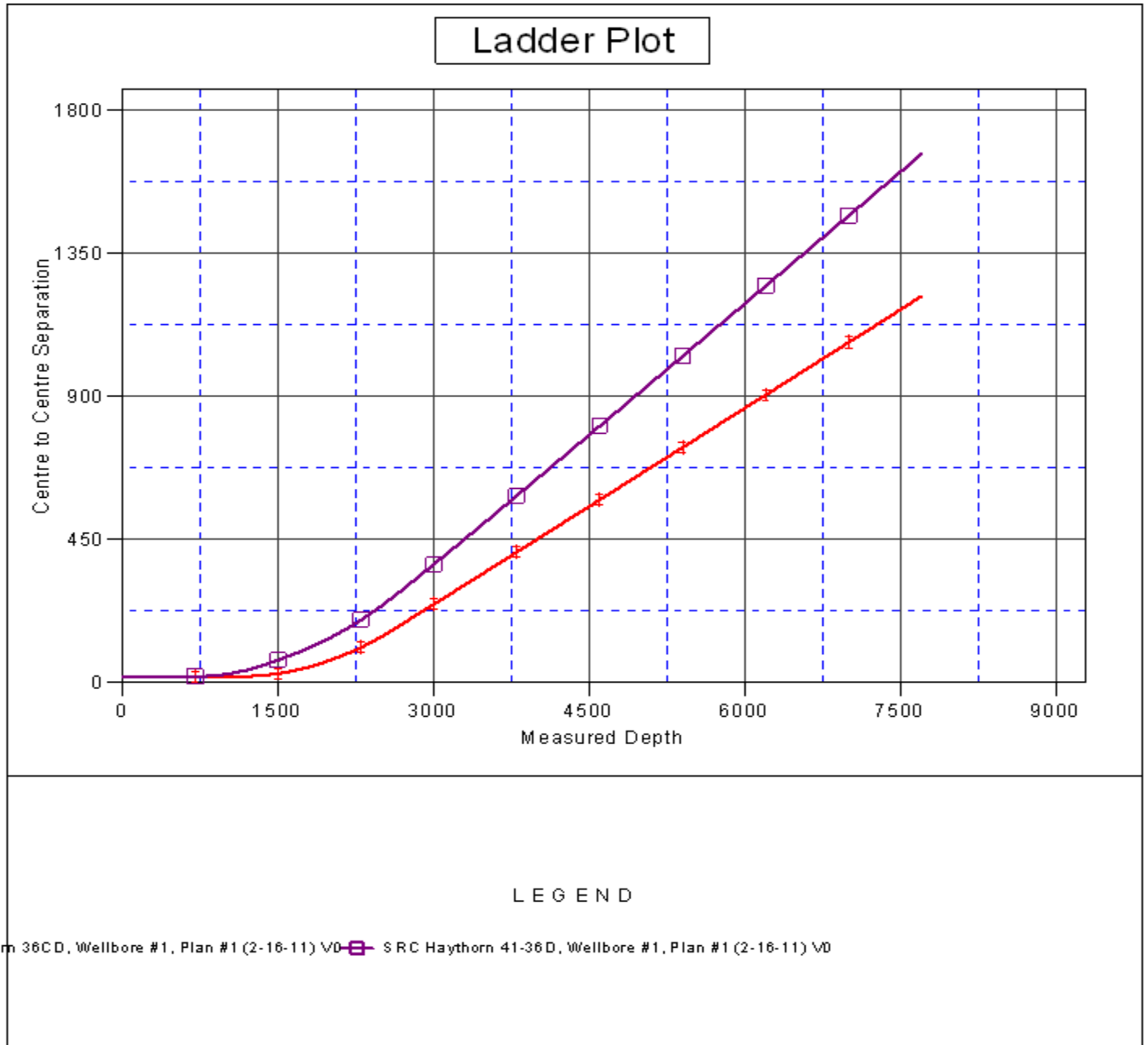
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Haythorn 42-36D
<b>Project:</b>	SEC.36-T7N-R66W	<b>TVD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Reference Site:</b>	SRC Haythorn 31-36D Pad Sec.36-T7N-R66W	<b>MD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Haythorn 42-36D	<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 (2-16-11)	<b>Offset TVD Reference:</b>	Offset Datum

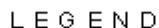
Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.0	4,902.9	4,875.1	4,850.6	19.0	13.5	-148.73	191.4	416.5	918.0	891.2	26.80	34.257		
5,100.0	4,999.6	4,971.2	4,946.0	19.6	13.8	-148.93	196.2	426.4	945.6	918.1	27.42	34.488		
5,200.0	5,096.3	5,067.3	5,041.5	20.1	14.1	-149.12	201.0	436.3	973.1	945.1	28.04	34.708		
5,300.0	5,192.9	5,163.4	5,136.9	20.7	14.4	-149.30	205.8	446.2	1,000.7	972.0	28.66	34.920		
5,400.0	5,289.6	5,259.4	5,232.4	21.2	14.7	-149.47	210.6	456.1	1,028.3	999.0	29.28	35.122		
5,500.0	5,386.3	5,355.5	5,327.8	21.7	15.0	-149.63	215.3	466.0	1,055.9	1,026.0	29.90	35.316		
5,600.0	5,483.0	5,451.6	5,423.3	22.3	15.3	-149.79	220.1	475.9	1,083.5	1,052.9	30.52	35.501		
5,700.0	5,579.6	5,547.7	5,518.7	22.8	15.6	-149.93	224.9	485.8	1,111.1	1,079.9	31.14	35.680		
5,800.0	5,676.3	5,643.8	5,614.2	23.4	15.9	-150.07	229.7	495.7	1,138.7	1,106.9	31.76	35.851		
5,900.0	5,773.0	5,739.8	5,709.6	23.9	16.2	-150.20	234.5	505.6	1,166.3	1,133.9	32.38	36.015		
6,000.0	5,869.6	5,835.9	5,805.0	24.5	16.5	-150.33	239.2	515.5	1,193.9	1,160.9	33.01	36.174		
6,100.0	5,966.3	5,932.0	5,900.5	25.0	16.8	-150.45	244.0	525.4	1,221.5	1,187.9	33.63	36.326		
6,200.0	6,063.0	6,028.1	5,995.9	25.5	17.1	-150.56	248.8	535.3	1,249.2	1,214.9	34.25	36.473		
6,300.0	6,159.6	6,124.1	6,091.4	26.1	17.4	-150.67	253.6	545.2	1,276.8	1,241.9	34.87	36.614		
6,400.0	6,256.3	6,220.2	6,186.8	26.6	17.7	-150.78	258.4	555.1	1,304.5	1,269.0	35.49	36.751		
6,500.0	6,353.0	6,316.3	6,282.3	27.2	18.0	-150.88	263.1	565.0	1,332.1	1,296.0	36.12	36.882		
6,600.0	6,449.6	6,412.4	6,377.7	27.7	18.3	-150.98	267.9	574.9	1,359.7	1,323.0	36.74	37.009		
6,700.0	6,546.3	6,508.5	6,473.2	28.3	18.6	-151.07	272.7	584.8	1,387.4	1,350.0	37.36	37.132		
6,800.0	6,643.0	6,604.5	6,568.6	28.8	18.8	-151.16	277.5	594.7	1,415.0	1,377.1	37.99	37.250		
6,900.0	6,739.6	6,700.6	6,664.1	29.4	19.1	-151.24	282.3	604.6	1,442.7	1,404.1	38.61	37.365		
7,000.0	6,836.3	6,796.7	6,759.5	29.9	19.4	-151.33	287.1	614.5	1,470.4	1,431.1	39.24	37.476		
7,100.0	6,933.0	6,892.8	6,854.9	30.4	19.7	-151.41	291.8	624.4	1,498.0	1,458.2	39.86	37.583		
7,200.0	7,029.6	6,988.8	6,950.4	31.0	20.0	-151.48	296.6	634.3	1,525.7	1,485.2	40.48	37.687		
7,300.0	7,126.3	7,084.9	7,045.8	31.5	20.3	-151.56	301.4	644.2	1,553.4	1,512.3	41.11	37.787		
7,400.0	7,223.0	7,181.0	7,141.3	32.1	20.6	-151.63	306.2	654.1	1,581.0	1,539.3	41.73	37.885		
7,500.0	7,319.6	7,277.1	7,236.7	32.6	20.9	-151.70	311.0	664.0	1,608.7	1,566.3	42.36	37.979		
7,600.0	7,416.3	7,373.1	7,332.2	33.2	21.2	-151.76	315.7	673.9	1,636.4	1,593.4	42.98	38.071		
7,696.9	7,510.0	7,466.3	7,424.7	33.7	21.5	-151.83	320.4	683.5	1,663.2	1,619.6	43.59	38.157		

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Haythorn 42-36D
<b>Project:</b>	SEC.36-T7N-R66W	<b>TVD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Reference Site:</b>	SRC Haythorn 31-36D Pad Sec.36-T7N-R66W	<b>MD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SRC Haythorn 42-36D	<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 (2-16-11)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4866.0ft (Original Well Elev) Coordinates are relative to: SRC Haythorn 42-36D  
 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: 0.50°



Reference Depths are relative to WELL @ 4866.0ft (Original Well Elev) Coordinates are relative to: SRC Haythorn 42-36D  
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: 0.50°



ion 36CD, Wellbore #1, Plan #1 (2-16-11) V0 - SRC Haythorn 41-36D, Wellbore #1, Plan #1 (2-16-11) V0