

Well Name: SRC Margil 44-34D

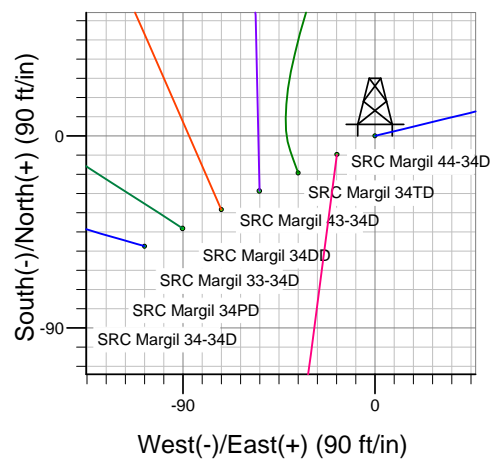
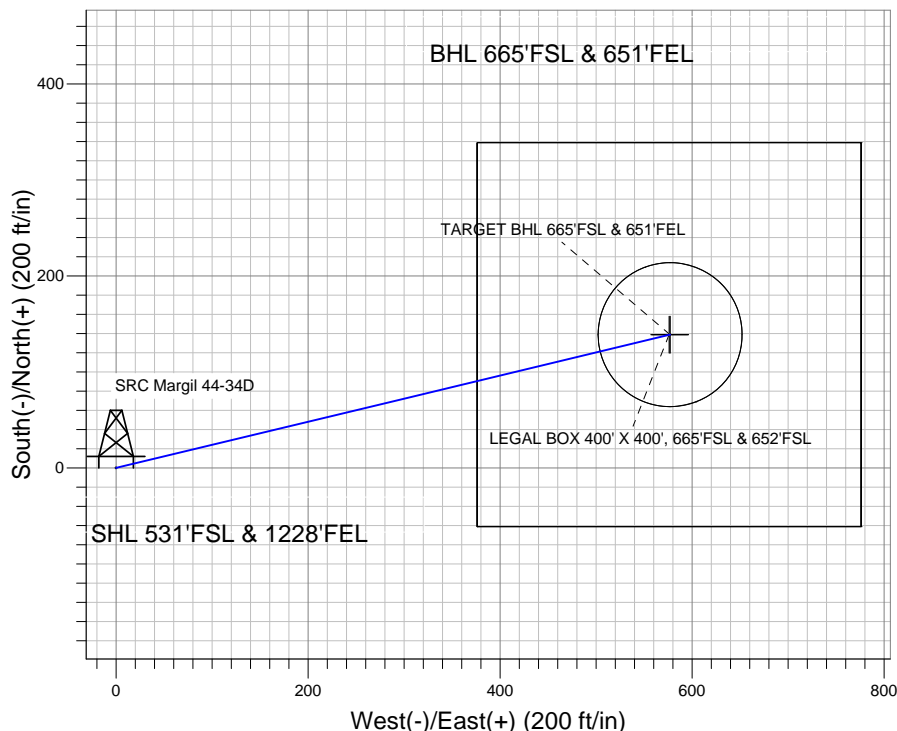
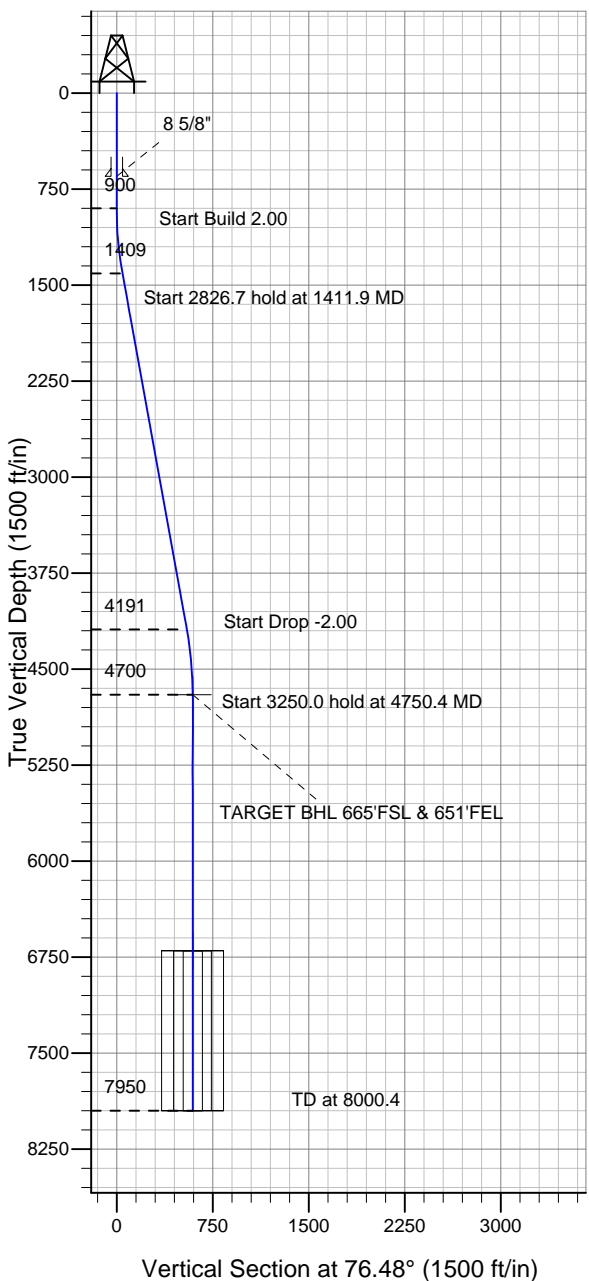
Surface Location: SRC Margil 34-34D Pad Sec.34-T4N-R68W
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone

Ground Elevation: 5091.0

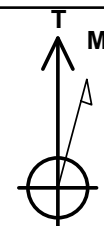
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1339464.74	3143924.70	40.264081	-104.984265	

Original Well Elev WELL @ 5104.0ft (Original Well Elev)

Synergy Resources



SRC Margil 34-34D Pad Sec.34-T4N-R68W
 SRC Margil 44-34D
 Plan #1 (12-28-11)
 11:30, December 29 2011



Azimuths to True North
 Magnetic North: 8.90°

Magnetic Field
 Strength: 52977.4snT
 Dip Angle: 66.89°
 Date: 12/28/2011
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 665'FSL & 651'FEL	4700.0	138.8	577.1	40.264462	-104.982197	Point
LEGAL BOX 400' X 400', 665'FSL & 652'FSL	6700.0	138.8	576.1	40.264462	-104.982201	Rectangle (Sides: L400.0 W400.0)
TARGET CIRCLE 665'FSL & 651'FEL	6700.0	138.8	577.1	40.264462	-104.982197	Circle (Radius: 75.0)

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	900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.0	
3	1411.9	10.24	76.48	1409.2	10.7	44.3	2.00	76.48	45.6	
4	4238.6	10.24	76.48	4190.8	128.1	532.8	0.00	0.00	548.0	
5	4750.4	0.00	0.00	4700.0	138.8	577.1	2.00	180.00	593.6	TARGET BHL 665'FSL & 651'FEL
6	8000.4	0.00	0.00	7950.0	138.8	577.1	0.00	0.00	593.6	



Directional

Synergy Resources

SEC.34-T4N-R68W

SRC Margil 34-34D Pad Sec.34-T4N-R68W

SRC Margil 44-34D

Wellbore #1

Plan: Plan #1 (12-28-11)

Standard Planning Report

29 December, 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	
900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,411.9	10.24	76.48	1,409.2	10.7	44.3	2.00	2.00	0.00	76.48	
4,238.6	10.24	76.48	4,190.8	128.1	532.8	0.00	0.00	0.00	0.00	
4,750.4	0.00	0.00	4,700.0	138.8	577.1	2.00	-2.00	0.00	180.00	TARGET BHL 665'±
8,000.4	0.00	0.00	7,950.0	138.8	577.1	0.00	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Margil 44-34D
Company:	Synergy Resources	TVD Reference:	WELL @ 5104.0ft (Original Well Elev)
Project:	SEC.34-T4N-R68W	MD Reference:	WELL @ 5104.0ft (Original Well Elev)
Site:	SRC Margil 34-34D Pad Sec.34-T4N-R68W	North Reference:	True
Well:	SRC Margil 44-34D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (12-28-11)		

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
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
650.0	0.00	0.00	650.0	0.0	0.0	0.0	0.00	0.00	0.00
8 5/8"									
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
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
920.0	0.40	76.48	920.0	0.0	0.1	0.1	2.00	2.00	0.00
960.0	1.20	76.48	960.0	0.1	0.6	0.6	2.00	2.00	0.00
1,000.0	2.00	76.48	1,000.0	0.4	1.7	1.7	2.00	2.00	0.00
1,040.0	2.80	76.48	1,039.9	0.8	3.3	3.4	2.00	2.00	0.00
1,080.0	3.60	76.48	1,079.9	1.3	5.5	5.7	2.00	2.00	0.00
1,120.0	4.40	76.48	1,119.8	2.0	8.2	8.4	2.00	2.00	0.00
1,160.0	5.20	76.48	1,159.6	2.8	11.5	11.8	2.00	2.00	0.00
1,200.0	6.00	76.48	1,199.5	3.7	15.3	15.7	2.00	2.00	0.00
1,240.0	6.80	76.48	1,239.2	4.7	19.6	20.2	2.00	2.00	0.00
1,280.0	7.60	76.48	1,278.9	5.9	24.5	25.2	2.00	2.00	0.00
1,320.0	8.40	76.48	1,318.5	7.2	29.9	30.7	2.00	2.00	0.00
1,360.0	9.20	76.48	1,358.0	8.6	35.8	36.9	2.00	2.00	0.00
1,400.0	10.00	76.48	1,397.5	10.2	42.3	43.5	2.00	2.00	0.00
1,411.9	10.24	76.48	1,409.2	10.7	44.3	45.6	2.00	2.00	0.00
1,440.0	10.24	76.48	1,436.8	11.8	49.2	50.6	0.00	0.00	0.00
1,480.0	10.24	76.48	1,476.2	13.5	56.1	57.7	0.00	0.00	0.00
1,520.0	10.24	76.48	1,515.6	15.2	63.0	64.8	0.00	0.00	0.00
1,560.0	10.24	76.48	1,554.9	16.8	69.9	71.9	0.00	0.00	0.00
1,600.0	10.24	76.48	1,594.3	18.5	76.9	79.0	0.00	0.00	0.00
1,640.0	10.24	76.48	1,633.6	20.1	83.8	86.2	0.00	0.00	0.00
1,680.0	10.24	76.48	1,673.0	21.8	90.7	93.3	0.00	0.00	0.00
1,720.0	10.24	76.48	1,712.4	23.5	97.6	100.4	0.00	0.00	0.00
1,760.0	10.24	76.48	1,751.7	25.1	104.5	107.5	0.00	0.00	0.00
1,800.0	10.24	76.48	1,791.1	26.8	111.4	114.6	0.00	0.00	0.00
1,840.0	10.24	76.48	1,830.5	28.5	118.3	121.7	0.00	0.00	0.00
1,880.0	10.24	76.48	1,869.8	30.1	125.2	128.8	0.00	0.00	0.00
1,920.0	10.24	76.48	1,909.2	31.8	132.1	135.9	0.00	0.00	0.00
1,960.0	10.24	76.48	1,948.6	33.4	139.1	143.0	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Margil 44-34D
Company:	Synergy Resources	TVD Reference:	WELL @ 5104.0ft (Original Well Elev)
Project:	SEC.34-T4N-R68W	MD Reference:	WELL @ 5104.0ft (Original Well Elev)
Site:	SRC Margil 34-34D Pad Sec.34-T4N-R68W	North Reference:	True
Well:	SRC Margil 44-34D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (12-28-11)		

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	10.24	76.48	1,987.9	35.1	146.0	150.1	0.00	0.00	0.00
2,040.0	10.24	76.48	2,027.3	36.8	152.9	157.2	0.00	0.00	0.00
2,080.0	10.24	76.48	2,066.6	38.4	159.8	164.4	0.00	0.00	0.00
2,120.0	10.24	76.48	2,106.0	40.1	166.7	171.5	0.00	0.00	0.00
2,160.0	10.24	76.48	2,145.4	41.8	173.6	178.6	0.00	0.00	0.00
2,200.0	10.24	76.48	2,184.7	43.4	180.5	185.7	0.00	0.00	0.00
2,240.0	10.24	76.48	2,224.1	45.1	187.4	192.8	0.00	0.00	0.00
2,280.0	10.24	76.48	2,263.5	46.7	194.4	199.9	0.00	0.00	0.00
2,320.0	10.24	76.48	2,302.8	48.4	201.3	207.0	0.00	0.00	0.00
2,360.0	10.24	76.48	2,342.2	50.1	208.2	214.1	0.00	0.00	0.00
2,400.0	10.24	76.48	2,381.5	51.7	215.1	221.2	0.00	0.00	0.00
2,440.0	10.24	76.48	2,420.9	53.4	222.0	228.3	0.00	0.00	0.00
2,480.0	10.24	76.48	2,460.3	55.1	228.9	235.4	0.00	0.00	0.00
2,520.0	10.24	76.48	2,499.6	56.7	235.8	242.6	0.00	0.00	0.00
2,560.0	10.24	76.48	2,539.0	58.4	242.7	249.7	0.00	0.00	0.00
2,600.0	10.24	76.48	2,578.4	60.0	249.7	256.8	0.00	0.00	0.00
2,640.0	10.24	76.48	2,617.7	61.7	256.6	263.9	0.00	0.00	0.00
2,680.0	10.24	76.48	2,657.1	63.4	263.5	271.0	0.00	0.00	0.00
2,720.0	10.24	76.48	2,696.5	65.0	270.4	278.1	0.00	0.00	0.00
2,760.0	10.24	76.48	2,735.8	66.7	277.3	285.2	0.00	0.00	0.00
2,800.0	10.24	76.48	2,775.2	68.4	284.2	292.3	0.00	0.00	0.00
2,840.0	10.24	76.48	2,814.5	70.0	291.1	299.4	0.00	0.00	0.00
2,880.0	10.24	76.48	2,853.9	71.7	298.0	306.5	0.00	0.00	0.00
2,920.0	10.24	76.48	2,893.3	73.3	304.9	313.6	0.00	0.00	0.00
2,960.0	10.24	76.48	2,932.6	75.0	311.9	320.8	0.00	0.00	0.00
3,000.0	10.24	76.48	2,972.0	76.7	318.8	327.9	0.00	0.00	0.00
3,040.0	10.24	76.48	3,011.4	78.3	325.7	335.0	0.00	0.00	0.00
3,080.0	10.24	76.48	3,050.7	80.0	332.6	342.1	0.00	0.00	0.00
3,120.0	10.24	76.48	3,090.1	81.7	339.5	349.2	0.00	0.00	0.00
3,160.0	10.24	76.48	3,129.5	83.3	346.4	356.3	0.00	0.00	0.00
3,200.0	10.24	76.48	3,168.8	85.0	353.3	363.4	0.00	0.00	0.00
3,240.0	10.24	76.48	3,208.2	86.6	360.2	370.5	0.00	0.00	0.00
3,280.0	10.24	76.48	3,247.5	88.3	367.2	377.6	0.00	0.00	0.00
3,320.0	10.24	76.48	3,286.9	90.0	374.1	384.7	0.00	0.00	0.00
3,360.0	10.24	76.48	3,326.3	91.6	381.0	391.8	0.00	0.00	0.00
3,400.0	10.24	76.48	3,365.6	93.3	387.9	399.0	0.00	0.00	0.00
3,440.0	10.24	76.48	3,405.0	95.0	394.8	406.1	0.00	0.00	0.00
3,480.0	10.24	76.48	3,444.4	96.6	401.7	413.2	0.00	0.00	0.00
3,520.0	10.24	76.48	3,483.7	98.3	408.6	420.3	0.00	0.00	0.00
3,560.0	10.24	76.48	3,523.1	99.9	415.5	427.4	0.00	0.00	0.00
3,600.0	10.24	76.48	3,562.4	101.6	422.4	434.5	0.00	0.00	0.00
3,640.0	10.24	76.48	3,601.8	103.3	429.4	441.6	0.00	0.00	0.00
3,680.0	10.24	76.48	3,641.2	104.9	436.3	448.7	0.00	0.00	0.00
3,720.0	10.24	76.48	3,680.5	106.6	443.2	455.8	0.00	0.00	0.00
3,760.0	10.24	76.48	3,719.9	108.3	450.1	462.9	0.00	0.00	0.00
3,800.0	10.24	76.48	3,759.3	109.9	457.0	470.0	0.00	0.00	0.00
3,840.0	10.24	76.48	3,798.6	111.6	463.9	477.2	0.00	0.00	0.00
3,880.0	10.24	76.48	3,838.0	113.2	470.8	484.3	0.00	0.00	0.00
3,920.0	10.24	76.48	3,877.4	114.9	477.7	491.4	0.00	0.00	0.00
3,960.0	10.24	76.48	3,916.7	116.6	484.7	498.5	0.00	0.00	0.00
4,000.0	10.24	76.48	3,956.1	118.2	491.6	505.6	0.00	0.00	0.00
4,040.0	10.24	76.48	3,995.4	119.9	498.5	512.7	0.00	0.00	0.00
4,080.0	10.24	76.48	4,034.8	121.6	505.4	519.8	0.00	0.00	0.00
4,120.0	10.24	76.48	4,074.2	123.2	512.3	526.9	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Margil 44-34D
Company:	Synergy Resources	TVD Reference:	WELL @ 5104.0ft (Original Well Elev)
Project:	SEC.34-T4N-R68W	MD Reference:	WELL @ 5104.0ft (Original Well Elev)
Site:	SRC Margil 34-34D Pad Sec.34-T4N-R68W	North Reference:	True
Well:	SRC Margil 44-34D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (12-28-11)		

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)
4,160.0	10.24	76.48	4,113.5	124.9	519.2	534.0	0.00	0.00	0.00
4,200.0	10.24	76.48	4,152.9	126.5	526.1	541.1	0.00	0.00	0.00
4,238.6	10.24	76.48	4,190.8	128.1	532.8	548.0	0.00	0.00	0.00
4,240.0	10.21	76.48	4,192.3	128.2	533.0	548.2	2.00	-2.00	0.00
4,280.0	9.41	76.48	4,231.7	129.8	539.7	555.1	2.00	-2.00	0.00
4,320.0	8.61	76.48	4,271.2	131.3	545.8	561.3	2.00	-2.00	0.00
4,360.0	7.81	76.48	4,310.8	132.6	551.3	567.0	2.00	-2.00	0.00
4,400.0	7.01	76.48	4,350.4	133.8	556.3	572.2	2.00	-2.00	0.00
4,440.0	6.21	76.48	4,390.2	134.9	560.8	576.8	2.00	-2.00	0.00
4,480.0	5.41	76.48	4,430.0	135.8	564.7	580.8	2.00	-2.00	0.00
4,520.0	4.61	76.48	4,469.8	136.6	568.1	584.3	2.00	-2.00	0.00
4,560.0	3.81	76.48	4,509.7	137.3	571.0	587.3	2.00	-2.00	0.00
4,600.0	3.01	76.48	4,549.6	137.9	573.3	589.6	2.00	-2.00	0.00
4,640.0	2.21	76.48	4,589.6	138.3	575.1	591.5	2.00	-2.00	0.00
4,680.0	1.41	76.48	4,629.6	138.6	576.3	592.7	2.00	-2.00	0.00
4,720.0	0.61	76.48	4,669.6	138.8	577.0	593.4	2.00	-2.00	0.00
4,750.4	0.00	0.00	4,700.0	138.8	577.1	593.6	2.00	-2.00	-251.24
TARGET BHL 665'FSL & 651'FEL									
4,760.0	0.00	0.00	4,709.6	138.8	577.1	593.6	0.00	0.00	0.00
4,800.0	0.00	0.00	4,749.6	138.8	577.1	593.6	0.00	0.00	0.00
4,840.0	0.00	0.00	4,789.6	138.8	577.1	593.6	0.00	0.00	0.00
4,880.0	0.00	0.00	4,829.6	138.8	577.1	593.6	0.00	0.00	0.00
4,920.0	0.00	0.00	4,869.6	138.8	577.1	593.6	0.00	0.00	0.00
4,960.0	0.00	0.00	4,909.6	138.8	577.1	593.6	0.00	0.00	0.00
5,000.0	0.00	0.00	4,949.6	138.8	577.1	593.6	0.00	0.00	0.00
5,040.0	0.00	0.00	4,989.6	138.8	577.1	593.6	0.00	0.00	0.00
5,080.0	0.00	0.00	5,029.6	138.8	577.1	593.6	0.00	0.00	0.00
5,120.0	0.00	0.00	5,069.6	138.8	577.1	593.6	0.00	0.00	0.00
5,160.0	0.00	0.00	5,109.6	138.8	577.1	593.6	0.00	0.00	0.00
5,200.0	0.00	0.00	5,149.6	138.8	577.1	593.6	0.00	0.00	0.00
5,240.0	0.00	0.00	5,189.6	138.8	577.1	593.6	0.00	0.00	0.00
5,280.0	0.00	0.00	5,229.6	138.8	577.1	593.6	0.00	0.00	0.00
5,320.0	0.00	0.00	5,269.6	138.8	577.1	593.6	0.00	0.00	0.00
5,360.0	0.00	0.00	5,309.6	138.8	577.1	593.6	0.00	0.00	0.00
5,400.0	0.00	0.00	5,349.6	138.8	577.1	593.6	0.00	0.00	0.00
5,440.0	0.00	0.00	5,389.6	138.8	577.1	593.6	0.00	0.00	0.00
5,480.0	0.00	0.00	5,429.6	138.8	577.1	593.6	0.00	0.00	0.00
5,520.0	0.00	0.00	5,469.6	138.8	577.1	593.6	0.00	0.00	0.00
5,560.0	0.00	0.00	5,509.6	138.8	577.1	593.6	0.00	0.00	0.00
5,600.0	0.00	0.00	5,549.6	138.8	577.1	593.6	0.00	0.00	0.00
5,640.0	0.00	0.00	5,589.6	138.8	577.1	593.6	0.00	0.00	0.00
5,680.0	0.00	0.00	5,629.6	138.8	577.1	593.6	0.00	0.00	0.00
5,720.0	0.00	0.00	5,669.6	138.8	577.1	593.6	0.00	0.00	0.00
5,760.0	0.00	0.00	5,709.6	138.8	577.1	593.6	0.00	0.00	0.00
5,800.0	0.00	0.00	5,749.6	138.8	577.1	593.6	0.00	0.00	0.00
5,840.0	0.00	0.00	5,789.6	138.8	577.1	593.6	0.00	0.00	0.00
5,880.0	0.00	0.00	5,829.6	138.8	577.1	593.6	0.00	0.00	0.00
5,920.0	0.00	0.00	5,869.6	138.8	577.1	593.6	0.00	0.00	0.00
5,960.0	0.00	0.00	5,909.6	138.8	577.1	593.6	0.00	0.00	0.00
6,000.0	0.00	0.00	5,949.6	138.8	577.1	593.6	0.00	0.00	0.00
6,040.0	0.00	0.00	5,989.6	138.8	577.1	593.6	0.00	0.00	0.00
6,080.0	0.00	0.00	6,029.6	138.8	577.1	593.6	0.00	0.00	0.00
6,120.0	0.00	0.00	6,069.6	138.8	577.1	593.6	0.00	0.00	0.00
6,160.0	0.00	0.00	6,109.6	138.8	577.1	593.6	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Margil 44-34D
Company:	Synergy Resources	TVD Reference:	WELL @ 5104.0ft (Original Well Elev)
Project:	SEC.34-T4N-R68W	MD Reference:	WELL @ 5104.0ft (Original Well Elev)
Site:	SRC Margil 34-34D Pad Sec.34-T4N-R68W	North Reference:	True
Well:	SRC Margil 44-34D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (12-28-11)		

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	0.00	0.00	6,149.6	138.8	577.1	593.6	0.00	0.00	0.00
6,240.0	0.00	0.00	6,189.6	138.8	577.1	593.6	0.00	0.00	0.00
6,280.0	0.00	0.00	6,229.6	138.8	577.1	593.6	0.00	0.00	0.00
6,320.0	0.00	0.00	6,269.6	138.8	577.1	593.6	0.00	0.00	0.00
6,360.0	0.00	0.00	6,309.6	138.8	577.1	593.6	0.00	0.00	0.00
6,400.0	0.00	0.00	6,349.6	138.8	577.1	593.6	0.00	0.00	0.00
6,440.0	0.00	0.00	6,389.6	138.8	577.1	593.6	0.00	0.00	0.00
6,480.0	0.00	0.00	6,429.6	138.8	577.1	593.6	0.00	0.00	0.00
6,520.0	0.00	0.00	6,469.6	138.8	577.1	593.6	0.00	0.00	0.00
6,560.0	0.00	0.00	6,509.6	138.8	577.1	593.6	0.00	0.00	0.00
6,600.0	0.00	0.00	6,549.6	138.8	577.1	593.6	0.00	0.00	0.00
6,640.0	0.00	0.00	6,589.6	138.8	577.1	593.6	0.00	0.00	0.00
6,680.0	0.00	0.00	6,629.6	138.8	577.1	593.6	0.00	0.00	0.00
6,720.0	0.00	0.00	6,669.6	138.8	577.1	593.6	0.00	0.00	0.00
6,750.4	0.00	0.00	6,700.0	138.8	577.1	593.6	0.00	0.00	0.00
LEGAL BOX 400' X 400', 665'FSL & 652'FSL - TARGET CIRCLE 665'FSL & 651'FEL									
6,760.0	0.00	0.00	6,709.6	138.8	577.1	593.6	0.00	0.00	0.00
6,800.0	0.00	0.00	6,749.6	138.8	577.1	593.6	0.00	0.00	0.00
6,840.0	0.00	0.00	6,789.6	138.8	577.1	593.6	0.00	0.00	0.00
6,880.0	0.00	0.00	6,829.6	138.8	577.1	593.6	0.00	0.00	0.00
6,920.0	0.00	0.00	6,869.6	138.8	577.1	593.6	0.00	0.00	0.00
6,960.0	0.00	0.00	6,909.6	138.8	577.1	593.6	0.00	0.00	0.00
7,000.0	0.00	0.00	6,949.6	138.8	577.1	593.6	0.00	0.00	0.00
7,040.0	0.00	0.00	6,989.6	138.8	577.1	593.6	0.00	0.00	0.00
7,080.0	0.00	0.00	7,029.6	138.8	577.1	593.6	0.00	0.00	0.00
7,120.0	0.00	0.00	7,069.6	138.8	577.1	593.6	0.00	0.00	0.00
7,160.0	0.00	0.00	7,109.6	138.8	577.1	593.6	0.00	0.00	0.00
7,200.0	0.00	0.00	7,149.6	138.8	577.1	593.6	0.00	0.00	0.00
7,240.0	0.00	0.00	7,189.6	138.8	577.1	593.6	0.00	0.00	0.00
7,280.0	0.00	0.00	7,229.6	138.8	577.1	593.6	0.00	0.00	0.00
7,320.0	0.00	0.00	7,269.6	138.8	577.1	593.6	0.00	0.00	0.00
7,360.0	0.00	0.00	7,309.6	138.8	577.1	593.6	0.00	0.00	0.00
7,400.0	0.00	0.00	7,349.6	138.8	577.1	593.6	0.00	0.00	0.00
7,440.0	0.00	0.00	7,389.6	138.8	577.1	593.6	0.00	0.00	0.00
7,480.0	0.00	0.00	7,429.6	138.8	577.1	593.6	0.00	0.00	0.00
7,520.0	0.00	0.00	7,469.6	138.8	577.1	593.6	0.00	0.00	0.00
7,560.0	0.00	0.00	7,509.6	138.8	577.1	593.6	0.00	0.00	0.00
7,600.0	0.00	0.00	7,549.6	138.8	577.1	593.6	0.00	0.00	0.00
7,640.0	0.00	0.00	7,589.6	138.8	577.1	593.6	0.00	0.00	0.00
7,680.0	0.00	0.00	7,629.6	138.8	577.1	593.6	0.00	0.00	0.00
7,720.0	0.00	0.00	7,669.6	138.8	577.1	593.6	0.00	0.00	0.00
7,760.0	0.00	0.00	7,709.6	138.8	577.1	593.6	0.00	0.00	0.00
7,800.0	0.00	0.00	7,749.6	138.8	577.1	593.6	0.00	0.00	0.00
7,840.0	0.00	0.00	7,789.6	138.8	577.1	593.6	0.00	0.00	0.00
7,880.0	0.00	0.00	7,829.6	138.8	577.1	593.6	0.00	0.00	0.00
7,920.0	0.00	0.00	7,869.6	138.8	577.1	593.6	0.00	0.00	0.00
7,960.0	0.00	0.00	7,909.6	138.8	577.1	593.6	0.00	0.00	0.00
8,000.0	0.00	0.00	7,949.6	138.8	577.1	593.6	0.00	0.00	0.00
8,000.4	0.00	0.00	7,950.0	138.8	577.1	593.6	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Margil 44-34D
Company:	Synergy Resources	TVD Reference:	WELL @ 5104.0ft (Original Well Elev)
Project:	SEC.34-T4N-R68W	MD Reference:	WELL @ 5104.0ft (Original Well Elev)
Site:	SRC Margil 34-34D Pad Sec.34-T4N-R68W	North Reference:	True
Well:	SRC Margil 44-34D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (12-28-11)		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")
650.0	650.0	8 5/8"		8-5/8	12-1/4



Directional

Synergy Resources

SEC.34-T4N-R68W

SRC Margil 34-34D Pad Sec.34-T4N-R68W

SRC Margil 44-34D

Wellbore #1

Plan #1 (12-28-11)

Anticollision Report

29 December, 2011

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Margil 44-34D
Project:	SEC.34-T4N-R68W	TVD Reference:	WELL @ 5104.0ft (Original Well Elev)
Reference Site:	SRC Margil 34-34D Pad Sec.34-T4N-R68W	MD Reference:	WELL @ 5104.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Margil 44-34D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-28-11)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (12-28-11)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 12/29/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	8,000.4	Plan #1 (12-28-11) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SRC Margil 34-34D Pad Sec.34-T4N-R68W						
SRC Margil 34TD - Wellbore #1 - Plan #1 (12-28-11)	900.0	900.0	19.9	16.1	5.204	CC, ES
SRC Margil 34TD - Wellbore #1 - Plan #1 (12-28-11)	1,000.0	1,000.0	21.6	17.3	5.069	SF
SRC Margil 43-34D - Wellbore #1 - Plan #1 (12-28-11)	351.9	351.9	39.8	38.4	29.134	CC
SRC Margil 43-34D - Wellbore #1 - Plan #1 (12-28-11)	400.0	400.0	39.9	38.3	25.133	ES
SRC Margil 43-34D - Wellbore #1 - Plan #1 (12-28-11)	800.0	798.1	54.0	50.4	15.075	SF

Offset Design												
SRC Margil 34-34D Pad Sec.34-T4N-R68W - SRC Margil 34TD - Wellbore #1 - Plan #1 (12-28-11)												
Survey Program: 0-MWD												
Reference		Offset		Semi Major Axis			Distance					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	-116.08	-8.7	-17.9	19.9	19.9	0.00	N/A
100.0	100.0	100.0	100.0	0.1	0.1	-116.08	-8.7	-17.9	19.9	19.7	0.22	88.476
200.0	200.0	200.0	200.0	0.3	0.3	-116.08	-8.7	-17.9	19.9	19.2	0.67	29.492
300.0	300.0	300.0	300.0	0.6	0.6	-116.08	-8.7	-17.9	19.9	18.8	1.12	17.695
400.0	400.0	400.0	400.0	0.8	0.8	-116.08	-8.7	-17.9	19.9	18.3	1.57	12.639
500.0	500.0	500.0	500.0	1.0	1.0	-116.08	-8.7	-17.9	19.9	17.9	2.02	9.831
600.0	600.0	600.0	600.0	1.2	1.2	-116.08	-8.7	-17.9	19.9	17.4	2.47	8.043
700.0	700.0	700.0	700.0	1.5	1.5	-116.08	-8.7	-17.9	19.9	17.0	2.92	6.806
800.0	800.0	800.0	800.0	1.7	1.7	-116.08	-8.7	-17.9	19.9	16.5	3.37	5.898
900.0	900.0	900.0	900.0	1.9	1.9	-116.08	-8.7	-17.9	19.9	16.1	3.82	5.204 CC, ES
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	168.44	-8.7	-17.9	21.6	17.3	4.26	5.069 SF
1,100.0	1,099.8	1,099.8	1,099.8	2.3	2.4	170.67	-8.7	-17.9	26.7	22.1	4.69	5.703
1,200.0	1,199.5	1,199.5	1,199.5	2.6	2.6	172.94	-8.7	-17.9	35.4	30.3	5.12	6.913
1,300.0	1,298.7	1,298.7	1,298.7	2.8	2.8	174.72	-8.7	-17.9	47.5	41.9	5.54	8.569
1,400.0	1,397.5	1,397.5	1,397.5	3.1	3.0	176.01	-8.7	-17.9	63.1	57.1	5.96	10.577
1,411.9	1,409.2	1,409.1	1,409.1	3.1	3.1	176.12	-8.8	-17.9	65.2	59.2	6.01	10.841
1,500.0	1,495.9	1,494.8	1,494.7	3.4	3.2	175.85	-10.3	-18.1	81.5	75.1	6.38	12.772
1,600.0	1,594.3	1,591.4	1,591.2	3.7	3.4	174.04	-15.1	-18.7	101.3	94.5	6.78	14.940
1,700.0	1,692.7	1,687.1	1,686.7	4.1	3.6	171.47	-23.0	-19.7	122.8	115.6	7.20	17.058
1,800.0	1,791.1	1,781.9	1,780.7	4.4	3.8	168.59	-33.9	-21.1	146.2	138.5	7.64	19.134
1,900.0	1,889.5	1,875.3	1,873.2	4.8	4.0	165.63	-47.8	-22.9	171.6	163.5	8.10	21.179
2,000.0	1,987.9	1,970.7	1,967.1	5.2	4.2	162.90	-63.8	-25.0	198.7	190.1	8.60	23.112

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Margil 44-34D
Project:	SEC.34-T4N-R68W	TVD Reference:	WELL @ 5104.0ft (Original Well Elev)
Reference Site:	SRC Margil 34-34D Pad Sec.34-T4N-R68W	MD Reference:	WELL @ 5104.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Margil 44-34D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-28-11)	Offset TVD Reference:	Offset Datum

Offset Design SRC Margil 34-34D Pad Sec.34-T4N-R68W - SRC Margil 34TD - Wellbore #1 - Plan #1 (12-28-11)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
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		
2,100.0	2,086.3	2,066.6	2,061.6	5.5	4.5	160.80	-80.0	-27.2	226.1	217.0	9.10	24.841		
2,200.0	2,184.7	2,162.5	2,156.1	5.9	4.7	159.16	-96.2	-29.3	253.7	244.0	9.62	26.378		
2,300.0	2,283.1	2,258.3	2,250.6	6.3	5.0	157.83	-112.5	-31.4	281.4	271.3	10.14	27.741		
2,400.0	2,381.5	2,354.2	2,345.0	6.7	5.3	156.75	-128.7	-33.5	309.3	298.6	10.68	28.964		
2,500.0	2,480.0	2,450.1	2,439.5	7.1	5.6	155.84	-144.9	-35.6	337.3	326.0	11.22	30.056		
2,600.0	2,578.4	2,546.0	2,534.0	7.4	6.0	155.07	-161.1	-37.7	365.3	353.5	11.77	31.037		
2,700.0	2,676.8	2,641.9	2,628.5	7.8	6.3	154.41	-177.3	-39.8	393.4	381.1	12.32	31.921		
2,800.0	2,775.2	2,737.8	2,723.0	8.2	6.6	153.84	-193.5	-41.9	421.5	408.6	12.88	32.721		
2,900.0	2,873.6	2,833.7	2,817.5	8.6	7.0	153.34	-209.7	-44.1	449.7	436.2	13.44	33.447		
3,000.0	2,972.0	2,929.5	2,911.9	9.0	7.3	152.90	-225.9	-46.2	477.8	463.8	14.01	34.108		
3,100.0	3,070.4	3,025.4	3,006.4	9.4	7.6	152.51	-242.1	-48.3	506.1	491.5	14.58	34.711		
3,200.0	3,168.8	3,121.3	3,100.9	9.8	8.0	152.16	-258.3	-50.4	534.3	519.1	15.15	35.265		
3,300.0	3,267.2	3,217.2	3,195.4	10.2	8.3	151.85	-274.5	-52.5	562.5	546.8	15.72	35.773		
3,400.0	3,365.6	3,313.1	3,289.9	10.6	8.7	151.56	-290.7	-54.6	590.8	574.5	16.30	36.242		
3,500.0	3,464.0	3,409.0	3,384.3	11.0	9.0	151.30	-306.9	-56.7	619.1	602.2	16.88	36.675		
3,600.0	3,562.4	3,504.8	3,478.8	11.4	9.4	151.06	-323.1	-58.9	647.3	629.9	17.46	37.077		
3,700.0	3,660.9	3,600.7	3,573.3	11.8	9.8	150.85	-339.3	-61.0	675.6	657.6	18.04	37.449		
3,800.0	3,759.3	3,696.6	3,667.8	12.2	10.1	150.65	-355.5	-63.1	703.9	685.3	18.62	37.796		
3,900.0	3,857.7	3,792.5	3,762.3	12.6	10.5	150.46	-371.7	-65.2	732.2	713.0	19.21	38.120		
4,000.0	3,956.1	3,888.4	3,856.8	13.0	10.9	150.29	-388.0	-67.3	760.5	740.8	19.79	38.422		
4,100.0	4,054.5	3,984.3	3,951.2	13.4	11.2	150.14	-404.2	-69.4	788.9	768.5	20.38	38.705		
4,200.0	4,152.9	4,089.9	4,055.3	13.8	11.6	149.99	-421.7	-71.7	817.0	796.0	20.98	38.932		
4,238.6	4,190.8	4,137.6	4,102.5	13.9	11.7	149.97	-428.6	-72.6	827.2	806.0	21.21	38.993		
4,300.0	4,251.4	4,214.4	4,178.8	14.2	11.9	150.14	-438.2	-73.9	842.0	820.4	21.59	39.003		
4,400.0	4,350.4	4,341.7	4,305.5	14.4	12.2	150.44	-449.5	-75.3	861.0	838.9	22.12	38.926		
4,500.0	4,449.9	4,470.9	4,434.6	14.7	12.5	150.75	-455.4	-76.1	873.6	851.0	22.60	38.662		
4,600.0	4,549.6	4,586.0	4,549.6	14.9	12.6	151.05	-456.1	-76.2	880.1	857.1	23.00	38.269		
4,700.0	4,649.6	4,685.9	4,649.6	15.0	12.8	151.19	-456.1	-76.2	883.2	859.9	23.34	37.845		
4,750.4	4,700.0	4,736.3	4,700.0	15.1	12.9	-132.32	-456.1	-76.2	883.6	860.1	23.50	37.602		
4,800.0	4,749.6	4,785.9	4,749.6	15.1	12.9	-132.32	-456.1	-76.2	883.6	859.9	23.67	37.334		
4,900.0	4,849.6	4,885.9	4,849.6	15.3	13.1	-132.32	-456.1	-76.2	883.6	859.6	24.02	36.785		
5,000.0	4,949.6	4,985.9	4,949.6	15.4	13.3	-132.32	-456.1	-76.2	883.6	859.2	24.38	36.246		
5,100.0	5,049.6	5,085.9	5,049.6	15.6	13.4	-132.32	-456.1	-76.2	883.6	858.9	24.74	35.719		
5,200.0	5,149.6	5,185.9	5,149.6	15.8	13.6	-132.32	-456.1	-76.2	883.6	858.5	25.10	35.203		
5,300.0	5,249.6	5,285.9	5,249.6	15.9	13.7	-132.32	-456.1	-76.2	883.6	858.1	25.47	34.697		
5,400.0	5,349.6	5,385.9	5,349.6	16.1	13.9	-132.32	-456.1	-76.2	883.6	857.8	25.83	34.203		
5,500.0	5,449.6	5,485.9	5,449.6	16.2	14.1	-132.32	-456.1	-76.2	883.6	857.4	26.20	33.719		
5,600.0	5,549.6	5,585.9	5,549.6	16.4	14.2	-132.32	-456.1	-76.2	883.6	857.0	26.58	33.246		
5,700.0	5,649.6	5,685.9	5,649.6	16.5	14.4	-132.32	-456.1	-76.2	883.6	856.7	26.95	32.782		
5,800.0	5,749.6	5,785.9	5,749.6	16.7	14.6	-132.32	-456.1	-76.2	883.6	856.3	27.33	32.329		
5,900.0	5,849.6	5,885.9	5,849.6	16.9	14.7	-132.32	-456.1	-76.2	883.6	855.9	27.71	31.886		
6,000.0	5,949.6	5,985.9	5,949.6	17.0	14.9	-132.32	-456.1	-76.2	883.6	855.5	28.09	31.453		
6,100.0	6,049.6	6,085.9	6,049.6	17.2	15.1	-132.32	-456.1	-76.2	883.6	855.1	28.48	31.029		
6,200.0	6,149.6	6,185.9	6,149.6	17.4	15.3	-132.32	-456.1	-76.2	883.6	854.7	28.86	30.614		
6,300.0	6,249.6	6,285.9	6,249.6	17.5	15.4	-132.32	-456.1	-76.2	883.6	854.4	29.25	30.208		
6,400.0	6,349.6	6,385.9	6,349.6	17.7	15.6	-132.32	-456.1	-76.2	883.6	854.0	29.64	29.811		
6,500.0	6,449.6	6,485.9	6,449.6	17.9	15.8	-132.32	-456.1	-76.2	883.6	853.6	30.03	29.423		
6,600.0	6,549.6	6,585.9	6,549.6	18.1	16.0	-132.32	-456.1	-76.2	883.6	853.2	30.42	29.043		
6,700.0	6,649.6	6,685.9	6,649.6	18.2	16.1	-132.32	-456.1	-76.2	883.6	852.8	30.82	28.672		
6,800.0	6,749.6	6,785.9	6,749.6	18.4	16.3	-132.32	-456.1	-76.2	883.6	852.4	31.21	28.308		
6,900.0	6,849.6	6,885.9	6,849.6	18.6	16.5	-132.32	-456.1	-76.2	883.6	852.0	31.61	27.952		
7,000.0	6,949.6	6,985.9	6,949.6	18.8	16.7	-132.32	-456.1	-76.2	883.6	851.6	32.01	27.604		

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

Company: Synergy Resources
Project: SEC.34-T4N-R68W
Reference Site: SRC Margil 34-34D Pad Sec.34-T4N-R68W
Site Error: 0.0ft
Reference Well: SRC Margil 44-34D
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (12-28-11)

Local Co-ordinate Reference: Well SRC Margil 44-34D
TVD Reference: WELL @ 5104.0ft (Original Well Elev)
MD Reference: WELL @ 5104.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

Offset Design													Offset Site Error:	0.0 ft
SRC Margil 34-34D Pad Sec.34-T4N-R68W - SRC Margil 34TD - Wellbore #1 - Plan #1 (12-28-11)													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
7,100.0	7,049.6	7,085.9	7,049.6	18.9	16.9	-132.32	-456.1	-76.2	883.6	851.2	32.41	27.264		
7,200.0	7,149.6	7,185.9	7,149.6	19.1	17.1	-132.32	-456.1	-76.2	883.6	850.8	32.81	26.930		
7,300.0	7,249.6	7,285.9	7,249.6	19.3	17.2	-132.32	-456.1	-76.2	883.6	850.4	33.21	26.604		
7,400.0	7,349.6	7,385.9	7,349.6	19.5	17.4	-132.32	-456.1	-76.2	883.6	850.0	33.62	26.285		
7,500.0	7,449.6	7,485.9	7,449.6	19.7	17.6	-132.32	-456.1	-76.2	883.6	849.6	34.02	25.972		
7,600.0	7,549.6	7,585.9	7,549.6	19.8	17.8	-132.32	-456.1	-76.2	883.6	849.2	34.43	25.666		
7,700.0	7,649.6	7,685.9	7,649.6	20.0	18.0	-132.32	-456.1	-76.2	883.6	848.8	34.83	25.366		
7,800.0	7,749.6	7,785.9	7,749.6	20.2	18.2	-132.32	-456.1	-76.2	883.6	848.4	35.24	25.072		
7,900.0	7,849.6	7,885.9	7,849.6	20.4	18.4	-132.32	-456.1	-76.2	883.6	848.0	35.65	24.785		
8,000.4	7,950.0	7,986.3	7,950.0	20.6	18.6	-132.32	-456.1	-76.2	883.6	847.5	36.06	24.502		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Margil 44-34D
Project:	SEC.34-T4N-R68W	TVD Reference:	WELL @ 5104.0ft (Original Well Elev)
Reference Site:	SRC Margil 34-34D Pad Sec.34-T4N-R68W	MD Reference:	WELL @ 5104.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Margil 44-34D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-28-11)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0ft
Survey Program: 0-MWD												Offset Well Error:	0.0ft
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	-115.78	-17.4	-36.0	40.0				
100.0	100.0	100.0	100.0	0.1	0.1	-115.78	-17.4	-36.0	40.0	39.8	0.22	177.880	
200.0	200.0	200.0	200.0	0.3	0.3	-115.78	-17.4	-36.0	40.0	39.3	0.67	59.293	
300.0	300.0	300.1	300.1	0.6	0.6	-113.28	-15.7	-36.6	39.8	38.7	1.13	35.376	
351.9	351.9	351.9	351.9	0.7	0.7	-110.00	-13.6	-37.4	39.8	38.4	1.37	29.134 CC	
400.0	400.0	400.0	399.8	0.8	0.8	-105.76	-10.8	-38.4	39.9	38.3	1.59	25.133 ES	
500.0	500.0	500.0	499.5	1.0	1.0	-93.77	-2.7	-41.0	41.1	39.0	2.05	19.985	
600.0	600.0	600.2	599.0	1.2	1.3	-78.77	8.3	-41.9	42.7	40.2	2.52	16.926	
700.0	700.0	699.6	697.5	1.5	1.6	-61.60	22.0	-40.8	46.4	43.4	3.03	15.320	
800.0	800.0	798.1	794.6	1.7	1.9	-44.47	38.3	-37.6	54.0	50.4	3.58	15.075 SF	
900.0	900.0	895.5	890.0	1.9	2.3	-29.73	57.1	-32.6	66.5	62.3	4.19	15.883	
1,000.0	1,000.0	991.7	983.7	2.1	2.7	-95.50	78.2	-25.7	84.0	79.6	4.46	18.843	
1,100.0	1,099.8	1,086.9	1,075.5	2.3	3.2	-88.95	101.5	-17.0	105.5	100.6	4.94	21.358	
1,200.0	1,199.5	1,181.1	1,165.6	2.6	3.7	-84.97	126.9	-6.7	129.7	124.3	5.45	23.802	
1,300.0	1,298.7	1,275.5	1,255.0	2.8	4.2	-82.56	154.6	5.4	156.0	150.0	6.00	25.975	
1,400.0	1,397.5	1,371.9	1,346.2	3.1	4.8	-81.65	183.4	18.1	182.3	175.7	6.61	27.562	
1,411.9	1,409.2	1,383.4	1,357.1	3.1	4.9	-81.62	186.8	19.6	185.4	178.7	6.69	27.709	
1,500.0	1,495.9	1,468.5	1,437.5	3.4	5.4	-81.91	212.2	30.7	208.3	201.0	7.29	28.592	
1,600.0	1,594.3	1,565.0	1,528.8	3.7	6.0	-82.16	241.0	43.4	234.3	226.3	7.99	29.341	
1,700.0	1,692.7	1,661.6	1,620.1	4.1	6.6	-82.37	269.7	56.1	260.3	251.6	8.71	29.897	
1,800.0	1,791.1	1,758.1	1,711.4	4.4	7.2	-82.54	298.5	68.8	286.4	276.9	9.45	30.316	
1,900.0	1,889.5	1,854.7	1,802.6	4.8	7.8	-82.68	327.3	81.4	312.4	302.2	10.20	30.636	
2,000.0	1,987.9	1,951.2	1,893.9	5.2	8.4	-82.80	356.1	94.1	338.5	327.5	10.96	30.883	
2,100.0	2,086.3	2,047.8	1,985.2	5.5	9.0	-82.90	384.9	106.8	364.5	352.8	11.73	31.077	
2,200.0	2,184.7	2,144.3	2,076.5	5.9	9.7	-82.99	413.6	119.5	390.5	378.0	12.50	31.230	
2,300.0	2,283.1	2,240.9	2,167.8	6.3	10.3	-83.07	442.4	132.1	416.6	403.3	13.29	31.353	
2,400.0	2,381.5	2,337.4	2,259.1	6.7	10.9	-83.14	471.2	144.8	442.6	428.5	14.07	31.451	
2,500.0	2,480.0	2,434.0	2,350.3	7.1	11.5	-83.20	500.0	157.5	468.6	453.8	14.86	31.531	
2,600.0	2,578.4	2,530.5	2,441.6	7.4	12.1	-83.25	528.8	170.2	494.7	479.0	15.66	31.597	
2,700.0	2,676.8	2,627.1	2,532.9	7.8	12.8	-83.30	557.5	182.8	520.7	504.3	16.45	31.651	
2,800.0	2,775.2	2,723.6	2,624.2	8.2	13.4	-83.35	586.3	195.5	546.8	529.5	17.25	31.695	
2,900.0	2,873.6	2,820.2	2,715.5	8.6	14.0	-83.39	615.1	208.2	572.8	554.8	18.05	31.732	
3,000.0	2,972.0	2,916.7	2,806.8	9.0	14.6	-83.42	643.9	220.9	598.8	580.0	18.85	31.763	
3,100.0	3,070.4	3,013.3	2,898.0	9.4	15.2	-83.46	672.7	233.5	624.9	605.2	19.66	31.789	
3,200.0	3,168.8	3,109.8	2,989.3	9.8	15.9	-83.49	701.4	246.2	650.9	630.5	20.46	31.810	
3,300.0	3,267.2	3,206.4	3,080.6	10.2	16.5	-83.52	730.2	258.9	677.0	655.7	21.27	31.828	
3,400.0	3,365.6	3,302.9	3,171.9	10.6	17.1	-83.54	759.0	271.6	703.0	680.9	22.08	31.843	
3,500.0	3,464.0	3,399.5	3,263.2	11.0	17.7	-83.57	787.8	284.3	729.1	706.2	22.89	31.856	
3,600.0	3,562.4	3,496.0	3,354.5	11.4	18.4	-83.59	816.6	296.9	755.1	731.4	23.70	31.866	
3,700.0	3,660.9	3,592.6	3,445.7	11.8	19.0	-83.61	845.3	309.6	781.1	756.6	24.51	31.875	
3,800.0	3,759.3	3,689.1	3,537.0	12.2	19.6	-83.63	874.1	322.3	807.2	781.9	25.32	31.882	
3,900.0	3,857.7	3,785.7	3,628.3	12.6	20.2	-83.65	902.9	335.0	833.2	807.1	26.13	31.888	
4,000.0	3,956.1	3,882.2	3,719.6	13.0	20.8	-83.67	931.7	347.6	859.3	832.3	26.94	31.893	
4,100.0	4,054.5	3,978.8	3,810.9	13.4	21.5	-83.68	960.5	360.3	885.3	857.6	27.75	31.897	
4,200.0	4,152.9	4,075.3	3,902.2	13.8	22.1	-83.70	989.2	373.0	911.4	882.8	28.57	31.901	
4,238.6	4,190.8	4,112.6	3,937.4	13.9	22.3	-83.71	1,000.3	377.9	921.4	892.5	28.88	31.902	
4,300.0	4,251.4	4,171.8	3,993.4	14.2	22.7	-84.00	1,018.0	385.7	937.5	908.1	29.39	31.894	
4,400.0	4,350.4	4,268.2	4,084.5	14.4	23.3	-84.33	1,046.7	398.3	963.9	933.8	30.12	32.000	
4,500.0	4,449.9	4,364.3	4,175.4	14.7	24.0	-84.46	1,075.4	410.9	990.7	959.9	30.78	32.186	
4,600.0	4,549.6	4,460.0	4,265.9	14.9	24.6	-84.43	1,103.9	423.5	1,017.9	986.6	31.37	32.449	
4,700.0	4,649.6	4,555.2	4,355.8	15.0	25.2	-84.24	1,132.3	436.0	1,045.6	1,013.7	31.89	32.791	
4,750.4	4,700.0	4,602.9	4,401.0	15.1	25.5	-7.62	1,146.5	442.3	1,059.7	1,027.6	32.12	32.992	

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Margil 44-34D
Project:	SEC.34-T4N-R68W	TVD Reference:	WELL @ 5104.0ft (Original Well Elev)
Reference Site:	SRC Margil 34-34D Pad Sec.34-T4N-R68W	MD Reference:	WELL @ 5104.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Margil 44-34D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-28-11)	Offset TVD Reference:	Offset Datum

Offset Design SRC Margil 34-34D Pad Sec.34-T4N-R68W - SRC Margil 43-34D - Wellbore #1 - Plan #1 (12-28-11)												Offset Site Error:	0.0ft
Survey Program: 0-MWD												Offset Well Error:	0.0ft
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
4,800.0	4,749.6	4,649.8	4,445.3	15.1	25.8	-7.18	1,160.5	448.4	1,073.8	1,041.5	32.29	33.256	
4,900.0	4,849.6	4,744.3	4,534.7	15.3	26.4	-6.32	1,188.7	460.8	1,102.2	1,069.6	32.64	33.772	
5,000.0	4,949.6	4,838.9	4,624.1	15.4	27.0	-5.51	1,216.9	473.2	1,130.9	1,097.9	32.99	34.281	
5,100.0	5,049.6	4,933.4	4,713.5	15.6	27.6	-4.73	1,245.0	485.6	1,159.8	1,126.4	33.34	34.783	
5,200.0	5,149.6	5,028.0	4,802.9	15.8	28.3	-3.99	1,273.2	498.1	1,188.8	1,155.1	33.70	35.277	
5,300.0	5,249.6	5,122.5	4,892.3	15.9	28.9	-3.28	1,301.4	510.5	1,218.1	1,184.0	34.06	35.762	
5,400.0	5,349.6	5,227.3	4,991.3	16.1	29.5	-2.54	1,332.5	524.2	1,247.4	1,213.0	34.44	36.225	
5,500.0	5,449.6	5,386.6	5,143.7	16.2	30.3	-1.59	1,374.9	542.8	1,273.8	1,239.0	34.85	36.547	
5,600.0	5,549.6	5,550.9	5,303.4	16.4	30.9	-0.84	1,410.4	558.5	1,295.3	1,260.1	35.25	36.743	
5,700.0	5,649.6	5,719.3	5,469.0	16.5	31.5	-0.29	1,438.1	570.7	1,311.8	1,276.1	35.66	36.788	
5,800.0	5,749.6	5,890.8	5,639.2	16.7	31.9	0.08	1,457.0	579.0	1,322.8	1,286.8	36.05	36.690	
5,900.0	5,849.6	6,064.1	5,812.2	16.9	32.2	0.26	1,466.7	583.3	1,328.4	1,292.0	36.43	36.460	
6,000.0	5,949.6	6,201.5	5,949.6	17.0	32.3	0.29	1,467.9	583.8	1,329.1	1,292.3	36.77	36.148	
6,100.0	6,049.6	6,301.5	6,049.6	17.2	32.4	0.29	1,467.9	583.8	1,329.1	1,292.0	37.08	35.848	
6,200.0	6,149.6	6,401.5	6,149.6	17.4	32.5	0.29	1,467.9	583.8	1,329.1	1,291.7	37.39	35.550	
6,300.0	6,249.6	6,501.5	6,249.6	17.5	32.5	0.29	1,467.9	583.8	1,329.1	1,291.4	37.70	35.255	
6,400.0	6,349.6	6,601.5	6,349.6	17.7	32.6	0.29	1,467.9	583.8	1,329.1	1,291.1	38.02	34.961	
6,500.0	6,449.6	6,701.5	6,449.6	17.9	32.7	0.29	1,467.9	583.8	1,329.1	1,290.8	38.34	34.671	
6,600.0	6,549.6	6,801.5	6,549.6	18.1	32.8	0.29	1,467.9	583.8	1,329.1	1,290.5	38.66	34.382	
6,700.0	6,649.6	6,901.5	6,649.6	18.2	32.9	0.29	1,467.9	583.8	1,329.1	1,290.1	38.98	34.097	
6,800.0	6,749.6	7,001.5	6,749.6	18.4	33.0	0.29	1,467.9	583.8	1,329.1	1,289.8	39.31	33.814	
6,900.0	6,849.6	7,101.5	6,849.6	18.6	33.1	0.29	1,467.9	583.8	1,329.1	1,289.5	39.64	33.533	
7,000.0	6,949.6	7,201.5	6,949.6	18.8	33.2	0.29	1,467.9	583.8	1,329.1	1,289.1	39.97	33.256	
7,100.0	7,049.6	7,301.5	7,049.6	18.9	33.3	0.29	1,467.9	583.8	1,329.1	1,288.8	40.30	32.981	
7,200.0	7,149.6	7,401.5	7,149.6	19.1	33.4	0.29	1,467.9	583.8	1,329.1	1,288.5	40.64	32.708	
7,300.0	7,249.6	7,501.5	7,249.6	19.3	33.5	0.29	1,467.9	583.8	1,329.1	1,288.1	40.97	32.439	
7,400.0	7,349.6	7,601.5	7,349.6	19.5	33.6	0.29	1,467.9	583.8	1,329.1	1,287.8	41.31	32.172	
7,500.0	7,449.6	7,701.5	7,449.6	19.7	33.7	0.29	1,467.9	583.8	1,329.1	1,287.5	41.65	31.908	
7,600.0	7,549.6	7,801.5	7,549.6	19.8	33.8	0.29	1,467.9	583.8	1,329.1	1,287.1	42.00	31.647	
7,700.0	7,649.6	7,901.5	7,649.6	20.0	33.9	0.29	1,467.9	583.8	1,329.1	1,286.8	42.34	31.389	
7,800.0	7,749.6	8,001.5	7,749.6	20.2	34.0	0.29	1,467.9	583.8	1,329.1	1,286.4	42.69	31.133	
7,900.0	7,849.6	8,101.5	7,849.6	20.4	34.1	0.29	1,467.9	583.8	1,329.1	1,286.1	43.04	30.880	
8,000.4	7,950.0	8,201.9	7,950.0	20.6	34.2	0.29	1,467.9	583.8	1,329.1	1,285.7	43.39	30.629	

Company: Synergy Resources
Project: SEC.34-T4N-R68W
Reference Site: SRC Margil 34-34D Pad Sec.34-T4N-R68W
Site Error: 0.0ft
Reference Well: SRC Margil 44-34D
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (12-28-11)

Local Co-ordinate Reference: Well SRC Margil 44-34D
TVD Reference: WELL @ 5104.0ft (Original Well Elev)
MD Reference: WELL @ 5104.0ft (Original Well Elev)
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 @ 5104.0ft (Original Well Elev) Coordinates are relative to: SRC Margil 44-34D
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: 0.33°



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