

ENSIGN

Directional

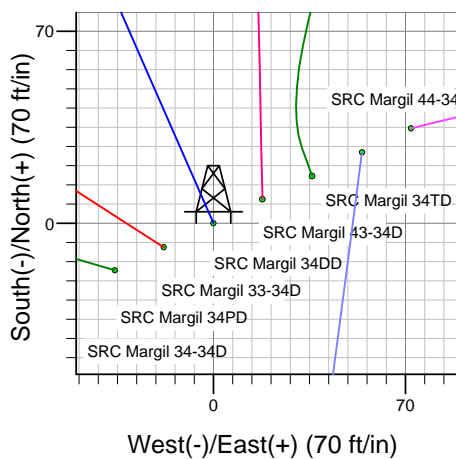
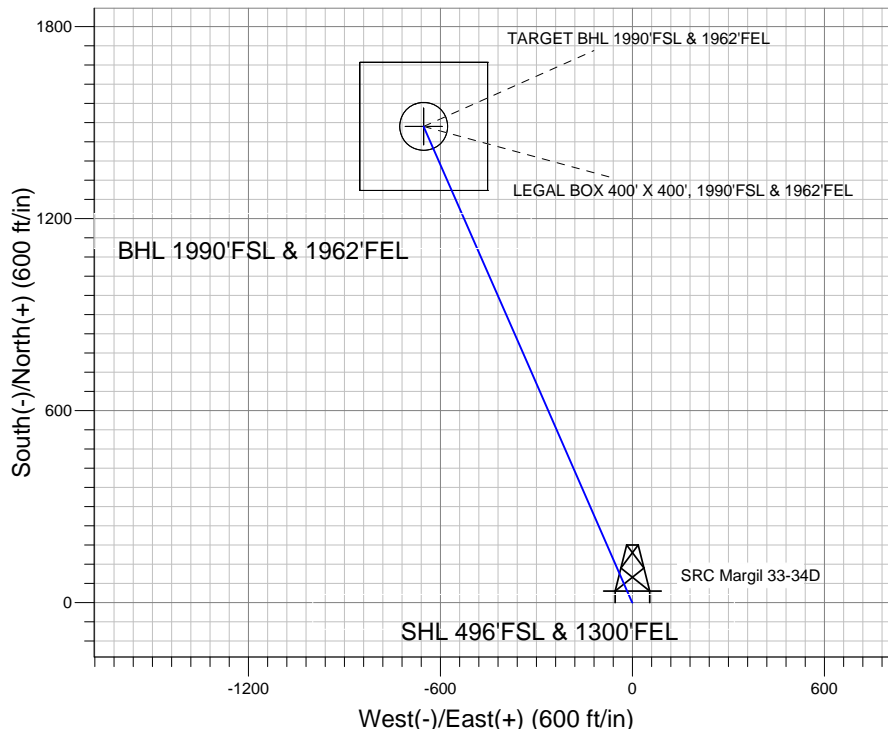
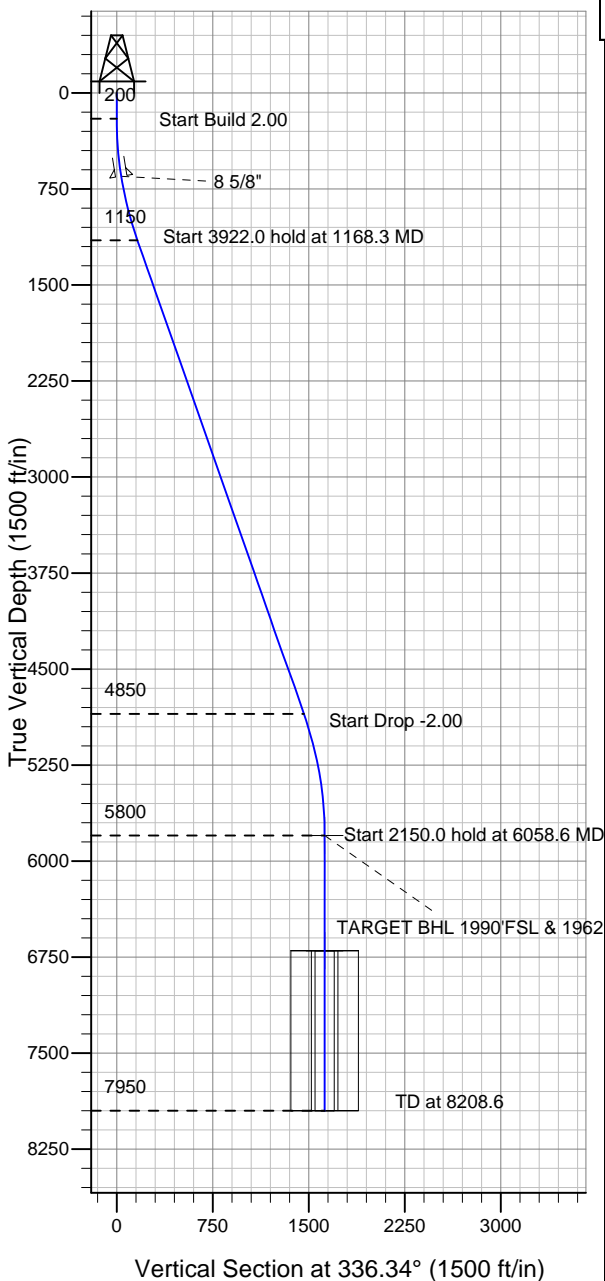
Well Name: SRC Margil 33-34D

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

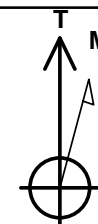
Ground Elevation: 5091.0

+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1339429.72 3143852.91 40.263986 -104.984523
Original Well Elev WELL @ 5104.0ft (Original Well Elev)

Synergy Resources



SRC Margil 34-34D Pad Sec.34-T4N-R68W
SRC Margil 33-34D
Plan #1 (12-28-11)
9:59, December 29 2011



Azimuths to True North
Magnetic North: 8.90°

Magnetic Field
Strength: 52977.3snT
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 1990'FSL & 1962'FEL	5800.0	1488.2	-651.9	40.268071	-104.986859	Point
LEGAL BOX 400' X 400', 1990'FSL & 1962'FEL	6700.0	1488.2	-651.9	40.268071	-104.986859	Rectangle (Sides: L400.0 W400.0)
TARGET CIRCLE 1990'FSL & 1962'FEL	6700.0	1488.2	-651.9	40.268071	-104.986859	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	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	1168.3	19.37	336.34	1150.0	148.5	-65.0	2.00	336.34	162.1	
4	5090.3	19.37	336.34	4850.0	1339.7	-586.9	0.00	0.00	1462.6	
5	6058.6	0.00	0.00	5800.0	1488.2	-651.9	2.00	180.00	1624.7	TARGET BHL 1990'FSL & 1962'FEL
6	8208.6	0.00	0.00	7950.0	1488.2	-651.9	0.00	0.00	1624.7	



Directional

Synergy Resources

SEC.34-T4N-R68W

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

SRC Margil 33-34D

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,168.3	19.37	336.34	1,150.0	148.5	-65.0	2.00	2.00	0.00	336.34	
5,090.3	19.37	336.34	4,850.0	1,339.7	-586.9	0.00	0.00	0.00	0.00	
6,058.6	0.00	0.00	5,800.0	1,488.2	-651.9	2.00	-2.00	0.00	180.00	TARGET BHL 1990
8,208.6	0.00	0.00	7,950.0	1,488.2	-651.9	0.00	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Margil 33-34D
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 33-34D	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	0.80	336.34	240.0	0.3	-0.1	0.3	2.00	2.00	0.00
280.0	1.60	336.34	280.0	1.0	-0.4	1.1	2.00	2.00	0.00
320.0	2.40	336.34	320.0	2.3	-1.0	2.5	2.00	2.00	0.00
360.0	3.20	336.34	359.9	4.1	-1.8	4.5	2.00	2.00	0.00
400.0	4.00	336.34	399.8	6.4	-2.8	7.0	2.00	2.00	0.00
440.0	4.80	336.34	439.7	9.2	-4.0	10.0	2.00	2.00	0.00
480.0	5.60	336.34	479.6	12.5	-5.5	13.7	2.00	2.00	0.00
520.0	6.40	336.34	519.3	16.4	-7.2	17.9	2.00	2.00	0.00
560.0	7.20	336.34	559.1	20.7	-9.1	22.6	2.00	2.00	0.00
600.0	8.00	336.34	598.7	25.5	-11.2	27.9	2.00	2.00	0.00
640.0	8.80	336.34	638.3	30.9	-13.5	33.7	2.00	2.00	0.00
651.9	9.04	336.34	650.0	32.6	-14.3	35.6	2.00	2.00	0.00
8 5/8"									
680.0	9.60	336.34	677.8	36.7	-16.1	40.1	2.00	2.00	0.00
720.0	10.40	336.34	717.1	43.1	-18.9	47.1	2.00	2.00	0.00
760.0	11.20	336.34	756.4	50.0	-21.9	54.6	2.00	2.00	0.00
800.0	12.00	336.34	795.6	57.3	-25.1	62.6	2.00	2.00	0.00
840.0	12.80	336.34	834.7	65.2	-28.6	71.2	2.00	2.00	0.00
880.0	13.60	336.34	873.6	73.6	-32.2	80.3	2.00	2.00	0.00
920.0	14.40	336.34	912.4	82.4	-36.1	90.0	2.00	2.00	0.00
960.0	15.20	336.34	951.1	91.8	-40.2	100.2	2.00	2.00	0.00
1,000.0	16.00	336.34	989.6	101.7	-44.5	111.0	2.00	2.00	0.00
1,040.0	16.80	336.34	1,028.0	112.0	-49.1	122.3	2.00	2.00	0.00
1,080.0	17.60	336.34	1,066.2	122.8	-53.8	134.1	2.00	2.00	0.00
1,120.0	18.40	336.34	1,104.3	134.2	-58.8	146.5	2.00	2.00	0.00
1,160.0	19.20	336.34	1,142.1	146.0	-63.9	159.3	2.00	2.00	0.00
1,168.3	19.37	336.34	1,150.0	148.5	-65.0	162.1	2.00	2.00	0.00
1,200.0	19.37	336.34	1,179.9	158.1	-69.3	172.6	0.00	0.00	0.00
1,240.0	19.37	336.34	1,217.6	170.2	-74.6	185.9	0.00	0.00	0.00
1,280.0	19.37	336.34	1,255.3	182.4	-79.9	199.1	0.00	0.00	0.00
1,320.0	19.37	336.34	1,293.1	194.5	-85.2	212.4	0.00	0.00	0.00
1,360.0	19.37	336.34	1,330.8	206.7	-90.5	225.7	0.00	0.00	0.00
1,400.0	19.37	336.34	1,368.6	218.8	-95.9	238.9	0.00	0.00	0.00
1,440.0	19.37	336.34	1,406.3	231.0	-101.2	252.2	0.00	0.00	0.00
1,480.0	19.37	336.34	1,444.0	243.1	-106.5	265.5	0.00	0.00	0.00
1,520.0	19.37	336.34	1,481.8	255.3	-111.8	278.7	0.00	0.00	0.00
1,560.0	19.37	336.34	1,519.5	267.4	-117.2	292.0	0.00	0.00	0.00
1,600.0	19.37	336.34	1,557.2	279.6	-122.5	305.2	0.00	0.00	0.00
1,640.0	19.37	336.34	1,595.0	291.7	-127.8	318.5	0.00	0.00	0.00
1,680.0	19.37	336.34	1,632.7	303.9	-133.1	331.8	0.00	0.00	0.00
1,720.0	19.37	336.34	1,670.5	316.0	-138.4	345.0	0.00	0.00	0.00
1,760.0	19.37	336.34	1,708.2	328.2	-143.8	358.3	0.00	0.00	0.00
1,800.0	19.37	336.34	1,745.9	340.3	-149.1	371.6	0.00	0.00	0.00
1,840.0	19.37	336.34	1,783.7	352.5	-154.4	384.8	0.00	0.00	0.00
1,880.0	19.37	336.34	1,821.4	364.6	-159.7	398.1	0.00	0.00	0.00
1,920.0	19.37	336.34	1,859.1	376.8	-165.1	411.4	0.00	0.00	0.00
1,960.0	19.37	336.34	1,896.9	388.9	-170.4	424.6	0.00	0.00	0.00
2,000.0	19.37	336.34	1,934.6	401.1	-175.7	437.9	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Margil 33-34D
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 33-34D	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)
2,040.0	19.37	336.34	1,972.3	413.2	-181.0	451.1	0.00	0.00	0.00
2,080.0	19.37	336.34	2,010.1	425.4	-186.3	464.4	0.00	0.00	0.00
2,120.0	19.37	336.34	2,047.8	437.5	-191.7	477.7	0.00	0.00	0.00
2,160.0	19.37	336.34	2,085.6	449.7	-197.0	490.9	0.00	0.00	0.00
2,200.0	19.37	336.34	2,123.3	461.8	-202.3	504.2	0.00	0.00	0.00
2,240.0	19.37	336.34	2,161.0	474.0	-207.6	517.5	0.00	0.00	0.00
2,280.0	19.37	336.34	2,198.8	486.1	-212.9	530.7	0.00	0.00	0.00
2,320.0	19.37	336.34	2,236.5	498.3	-218.3	544.0	0.00	0.00	0.00
2,360.0	19.37	336.34	2,274.2	510.4	-223.6	557.3	0.00	0.00	0.00
2,400.0	19.37	336.34	2,312.0	522.6	-228.9	570.5	0.00	0.00	0.00
2,440.0	19.37	336.34	2,349.7	534.7	-234.2	583.8	0.00	0.00	0.00
2,480.0	19.37	336.34	2,387.5	546.9	-239.6	597.1	0.00	0.00	0.00
2,520.0	19.37	336.34	2,425.2	559.0	-244.9	610.3	0.00	0.00	0.00
2,560.0	19.37	336.34	2,462.9	571.2	-250.2	623.6	0.00	0.00	0.00
2,600.0	19.37	336.34	2,500.7	583.3	-255.5	636.8	0.00	0.00	0.00
2,640.0	19.37	336.34	2,538.4	595.5	-260.8	650.1	0.00	0.00	0.00
2,680.0	19.37	336.34	2,576.1	607.6	-266.2	663.4	0.00	0.00	0.00
2,720.0	19.37	336.34	2,613.9	619.8	-271.5	676.6	0.00	0.00	0.00
2,760.0	19.37	336.34	2,651.6	631.9	-276.8	689.9	0.00	0.00	0.00
2,800.0	19.37	336.34	2,689.3	644.1	-282.1	703.2	0.00	0.00	0.00
2,840.0	19.37	336.34	2,727.1	656.2	-287.5	716.4	0.00	0.00	0.00
2,880.0	19.37	336.34	2,764.8	668.4	-292.8	729.7	0.00	0.00	0.00
2,920.0	19.37	336.34	2,802.6	680.5	-298.1	743.0	0.00	0.00	0.00
2,960.0	19.37	336.34	2,840.3	692.7	-303.4	756.2	0.00	0.00	0.00
3,000.0	19.37	336.34	2,878.0	704.8	-308.7	769.5	0.00	0.00	0.00
3,040.0	19.37	336.34	2,915.8	717.0	-314.1	782.8	0.00	0.00	0.00
3,080.0	19.37	336.34	2,953.5	729.1	-319.4	796.0	0.00	0.00	0.00
3,120.0	19.37	336.34	2,991.2	741.3	-324.7	809.3	0.00	0.00	0.00
3,160.0	19.37	336.34	3,029.0	753.4	-330.0	822.5	0.00	0.00	0.00
3,200.0	19.37	336.34	3,066.7	765.6	-335.4	835.8	0.00	0.00	0.00
3,240.0	19.37	336.34	3,104.4	777.7	-340.7	849.1	0.00	0.00	0.00
3,280.0	19.37	336.34	3,142.2	789.9	-346.0	862.3	0.00	0.00	0.00
3,320.0	19.37	336.34	3,179.9	802.0	-351.3	875.6	0.00	0.00	0.00
3,360.0	19.37	336.34	3,217.7	814.2	-356.6	888.9	0.00	0.00	0.00
3,400.0	19.37	336.34	3,255.4	826.3	-362.0	902.1	0.00	0.00	0.00
3,440.0	19.37	336.34	3,293.1	838.5	-367.3	915.4	0.00	0.00	0.00
3,480.0	19.37	336.34	3,330.9	850.6	-372.6	928.7	0.00	0.00	0.00
3,520.0	19.37	336.34	3,368.6	862.8	-377.9	941.9	0.00	0.00	0.00
3,560.0	19.37	336.34	3,406.3	874.9	-383.3	955.2	0.00	0.00	0.00
3,600.0	19.37	336.34	3,444.1	887.1	-388.6	968.4	0.00	0.00	0.00
3,640.0	19.37	336.34	3,481.8	899.2	-393.9	981.7	0.00	0.00	0.00
3,680.0	19.37	336.34	3,519.6	911.4	-399.2	995.0	0.00	0.00	0.00
3,720.0	19.37	336.34	3,557.3	923.5	-404.5	1,008.2	0.00	0.00	0.00
3,760.0	19.37	336.34	3,595.0	935.7	-409.9	1,021.5	0.00	0.00	0.00
3,800.0	19.37	336.34	3,632.8	947.8	-415.2	1,034.8	0.00	0.00	0.00
3,840.0	19.37	336.34	3,670.5	960.0	-420.5	1,048.0	0.00	0.00	0.00
3,880.0	19.37	336.34	3,708.2	972.1	-425.8	1,061.3	0.00	0.00	0.00
3,920.0	19.37	336.34	3,746.0	984.3	-431.2	1,074.6	0.00	0.00	0.00
3,960.0	19.37	336.34	3,783.7	996.4	-436.5	1,087.8	0.00	0.00	0.00
4,000.0	19.37	336.34	3,821.4	1,008.6	-441.8	1,101.1	0.00	0.00	0.00
4,040.0	19.37	336.34	3,859.2	1,020.7	-447.1	1,114.4	0.00	0.00	0.00
4,080.0	19.37	336.34	3,896.9	1,032.9	-452.4	1,127.6	0.00	0.00	0.00
4,120.0	19.37	336.34	3,934.7	1,045.0	-457.8	1,140.9	0.00	0.00	0.00
4,160.0	19.37	336.34	3,972.4	1,057.2	-463.1	1,154.1	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Margil 33-34D
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 33-34D	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)
4,200.0	19.37	336.34	4,010.1	1,069.3	-468.4	1,167.4	0.00	0.00	0.00
4,240.0	19.37	336.34	4,047.9	1,081.5	-473.7	1,180.7	0.00	0.00	0.00
4,280.0	19.37	336.34	4,085.6	1,093.6	-479.1	1,193.9	0.00	0.00	0.00
4,320.0	19.37	336.34	4,123.3	1,105.8	-484.4	1,207.2	0.00	0.00	0.00
4,360.0	19.37	336.34	4,161.1	1,117.9	-489.7	1,220.5	0.00	0.00	0.00
4,400.0	19.37	336.34	4,198.8	1,130.1	-495.0	1,233.7	0.00	0.00	0.00
4,440.0	19.37	336.34	4,236.6	1,142.2	-500.3	1,247.0	0.00	0.00	0.00
4,480.0	19.37	336.34	4,274.3	1,154.4	-505.7	1,260.3	0.00	0.00	0.00
4,520.0	19.37	336.34	4,312.0	1,166.5	-511.0	1,273.5	0.00	0.00	0.00
4,560.0	19.37	336.34	4,349.8	1,178.7	-516.3	1,286.8	0.00	0.00	0.00
4,600.0	19.37	336.34	4,387.5	1,190.8	-521.6	1,300.0	0.00	0.00	0.00
4,640.0	19.37	336.34	4,425.2	1,203.0	-526.9	1,313.3	0.00	0.00	0.00
4,680.0	19.37	336.34	4,463.0	1,215.1	-532.3	1,326.6	0.00	0.00	0.00
4,720.0	19.37	336.34	4,500.7	1,227.3	-537.6	1,339.8	0.00	0.00	0.00
4,760.0	19.37	336.34	4,538.4	1,239.4	-542.9	1,353.1	0.00	0.00	0.00
4,800.0	19.37	336.34	4,576.2	1,251.6	-548.2	1,366.4	0.00	0.00	0.00
4,840.0	19.37	336.34	4,613.9	1,263.7	-553.6	1,379.6	0.00	0.00	0.00
4,880.0	19.37	336.34	4,651.7	1,275.9	-558.9	1,392.9	0.00	0.00	0.00
4,920.0	19.37	336.34	4,689.4	1,288.0	-564.2	1,406.2	0.00	0.00	0.00
4,960.0	19.37	336.34	4,727.1	1,300.2	-569.5	1,419.4	0.00	0.00	0.00
5,000.0	19.37	336.34	4,764.9	1,312.3	-574.8	1,432.7	0.00	0.00	0.00
5,040.0	19.37	336.34	4,802.6	1,324.5	-580.2	1,446.0	0.00	0.00	0.00
5,080.0	19.37	336.34	4,840.3	1,336.6	-585.5	1,459.2	0.00	0.00	0.00
5,090.3	19.37	336.34	4,850.0	1,339.7	-586.9	1,462.6	0.00	0.00	0.00
5,120.0	18.77	336.34	4,878.1	1,348.6	-590.8	1,472.3	2.00	-2.00	0.00
5,160.0	17.97	336.34	4,916.1	1,360.2	-595.8	1,484.9	2.00	-2.00	0.00
5,200.0	17.17	336.34	4,954.2	1,371.2	-600.7	1,497.0	2.00	-2.00	0.00
5,240.0	16.37	336.34	4,992.5	1,381.8	-605.3	1,508.6	2.00	-2.00	0.00
5,280.0	15.57	336.34	5,031.0	1,391.9	-609.7	1,519.6	2.00	-2.00	0.00
5,320.0	14.77	336.34	5,069.6	1,401.5	-613.9	1,530.0	2.00	-2.00	0.00
5,360.0	13.97	336.34	5,108.3	1,410.6	-617.9	1,540.0	2.00	-2.00	0.00
5,400.0	13.17	336.34	5,147.2	1,419.2	-621.7	1,549.4	2.00	-2.00	0.00
5,440.0	12.37	336.34	5,186.2	1,427.3	-625.2	1,558.2	2.00	-2.00	0.00
5,480.0	11.57	336.34	5,225.4	1,434.9	-628.5	1,566.5	2.00	-2.00	0.00
5,520.0	10.77	336.34	5,264.6	1,442.0	-631.6	1,574.2	2.00	-2.00	0.00
5,560.0	9.97	336.34	5,303.9	1,448.6	-634.5	1,581.4	2.00	-2.00	0.00
5,600.0	9.17	336.34	5,343.4	1,454.7	-637.2	1,588.1	2.00	-2.00	0.00
5,640.0	8.37	336.34	5,382.9	1,460.2	-639.6	1,594.2	2.00	-2.00	0.00
5,680.0	7.57	336.34	5,422.5	1,465.3	-641.9	1,599.7	2.00	-2.00	0.00
5,720.0	6.77	336.34	5,462.2	1,469.9	-643.9	1,604.7	2.00	-2.00	0.00
5,760.0	5.97	336.34	5,502.0	1,474.0	-645.7	1,609.2	2.00	-2.00	0.00
5,800.0	5.17	336.34	5,541.8	1,477.5	-647.2	1,613.1	2.00	-2.00	0.00
5,840.0	4.37	336.34	5,581.6	1,480.6	-648.6	1,616.4	2.00	-2.00	0.00
5,880.0	3.57	336.34	5,621.5	1,483.1	-649.7	1,619.2	2.00	-2.00	0.00
5,920.0	2.77	336.34	5,661.5	1,485.1	-650.6	1,621.4	2.00	-2.00	0.00
5,960.0	1.97	336.34	5,701.4	1,486.6	-651.2	1,623.0	2.00	-2.00	0.00
6,000.0	1.17	336.34	5,741.4	1,487.6	-651.7	1,624.1	2.00	-2.00	0.00
6,040.0	0.37	336.34	5,781.4	1,488.1	-651.9	1,624.7	2.00	-2.00	0.00
6,058.6	0.00	0.00	5,800.0	1,488.2	-651.9	1,624.7	2.00	-2.00	127.37
TARGET BHL 1990'FSL & 1962'FEL									
6,080.0	0.00	0.00	5,821.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,120.0	0.00	0.00	5,861.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,160.0	0.00	0.00	5,901.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,200.0	0.00	0.00	5,941.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Margil 33-34D
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 33-34D	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)
6,240.0	0.00	0.00	5,981.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,280.0	0.00	0.00	6,021.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,320.0	0.00	0.00	6,061.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,360.0	0.00	0.00	6,101.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,141.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,440.0	0.00	0.00	6,181.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,480.0	0.00	0.00	6,221.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,520.0	0.00	0.00	6,261.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,560.0	0.00	0.00	6,301.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,341.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,640.0	0.00	0.00	6,381.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,680.0	0.00	0.00	6,421.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,720.0	0.00	0.00	6,461.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,760.0	0.00	0.00	6,501.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,541.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,840.0	0.00	0.00	6,581.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,880.0	0.00	0.00	6,621.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,920.0	0.00	0.00	6,661.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
6,958.6	0.00	0.00	6,700.0	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
LEGAL BOX 400' X 400', 1990'FSL & 1962'FEL - TARGET CIRCLE 1990'FSL & 1962'FEL									
6,960.0	0.00	0.00	6,701.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,741.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,040.0	0.00	0.00	6,781.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,080.0	0.00	0.00	6,821.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,120.0	0.00	0.00	6,861.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,160.0	0.00	0.00	6,901.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,200.0	0.00	0.00	6,941.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,240.0	0.00	0.00	6,981.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,280.0	0.00	0.00	7,021.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,320.0	0.00	0.00	7,061.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,360.0	0.00	0.00	7,101.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,141.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,440.0	0.00	0.00	7,181.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,480.0	0.00	0.00	7,221.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,520.0	0.00	0.00	7,261.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,560.0	0.00	0.00	7,301.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,341.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,640.0	0.00	0.00	7,381.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,680.0	0.00	0.00	7,421.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,720.0	0.00	0.00	7,461.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,760.0	0.00	0.00	7,501.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,541.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,840.0	0.00	0.00	7,581.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,880.0	0.00	0.00	7,621.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,920.0	0.00	0.00	7,661.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
7,960.0	0.00	0.00	7,701.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,741.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
8,040.0	0.00	0.00	7,781.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
8,080.0	0.00	0.00	7,821.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
8,120.0	0.00	0.00	7,861.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
8,160.0	0.00	0.00	7,901.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
8,200.0	0.00	0.00	7,941.4	1,488.2	-651.9	1,624.7	0.00	0.00	0.00
8,208.6	0.00	0.00	7,950.0	1,488.2	-651.9	1,624.7	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Margil 33-34D
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 33-34D	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 (")
651.9	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 33-34D

Wellbore #1

Plan #1 (12-28-11)

Anticollision Report

29 December, 2011

Offset Design		SRC Margil 34-34D Pad Sec.34-T4N-R68W - SRC Margil 34DD - Wellbore #1 - Plan #1 (12-28-11)											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		
1,900.0	1,840.3	1,906.9	1,894.7	8.7	4.8	166.17	140.2	15.0	295.9	286.3	9.52	31.090		
2,000.0	1,934.6	2,005.7	1,991.0	9.3	5.2	165.19	162.6	14.5	310.2	300.0	10.21	30.371		
2,100.0	2,029.0	2,104.6	2,087.2	10.0	5.6	164.28	184.9	14.0	324.6	313.7	10.93	29.706		
2,200.0	2,123.3	2,203.4	2,183.5	10.7	6.0	163.46	207.3	13.5	339.1	327.4	11.66	29.090		
2,300.0	2,217.6	2,302.2	2,279.8	11.3	6.4	162.70	229.6	13.0	353.6	341.2	12.40	28.521		
2,400.0	2,312.0	2,401.1	2,376.0	12.0	6.8	162.00	252.0	12.5	368.3	355.1	13.15	27.996		
2,500.0	2,406.3	2,499.9	2,472.3	12.7	7.3	161.36	274.3	12.0	382.9	369.0	13.92	27.511		
2,600.0	2,500.7	2,598.7	2,568.6	13.3	7.7	160.76	296.7	11.5	397.6	382.9	14.69	27.063		
2,700.0	2,595.0	2,697.6	2,664.8	14.0	8.2	160.21	319.0	11.0	412.3	396.9	15.47	26.648		
2,800.0	2,689.3	2,796.4	2,761.1	14.7	8.6	159.69	341.4	10.5	427.1	410.9	16.26	26.263		
2,900.0	2,783.7	2,895.2	2,857.4	15.3	9.1	159.21	363.7	10.0	441.9	424.9	17.06	25.906		
3,000.0	2,878.0	2,994.0	2,953.7	16.0	9.5	158.76	386.1	9.5	456.8	438.9	17.86	25.574		
3,100.0	2,972.4	3,092.9	3,049.9	16.7	10.0	158.34	408.4	9.0	471.6	453.0	18.67	25.265		
3,200.0	3,066.7	3,191.7	3,146.2	17.3	10.4	157.94	430.8	8.6	486.5	467.0	19.48	24.977		
3,300.0	3,161.1	3,290.5	3,242.5	18.0	10.9	157.57	453.1	8.1	501.4	481.1	20.29	24.707		
3,400.0	3,255.4	3,389.4	3,338.7	18.7	11.3	157.22	475.5	7.6	516.3	495.2	21.11	24.455		
3,500.0	3,349.7	3,488.2	3,435.0	19.4	11.8	156.89	497.8	7.1	531.3	509.3	21.94	24.219		
3,600.0	3,444.1	3,587.0	3,531.3	20.0	12.2	156.57	520.2	6.6	546.2	523.5	22.76	23.997		
3,700.0	3,538.4	3,685.9	3,627.5	20.7	12.7	156.27	542.5	6.1	561.2	537.6	23.59	23.789		
3,800.0	3,632.8	3,784.7	3,723.8	21.4	13.2	155.99	564.9	5.6	576.2	551.8	24.42	23.592		
3,900.0	3,727.1	3,883.5	3,820.1	22.0	13.6	155.73	587.2	5.1	591.2	565.9	25.26	23.407		
4,000.0	3,821.4	3,982.4	3,916.4	22.7	14.1	155.47	609.6	4.6	606.2	580.1	26.09	23.232		
4,100.0	3,915.8	4,081.2	4,012.6	23.4	14.5	155.23	631.9	4.1	621.2	594.3	26.93	23.067		
4,200.0	4,010.1	4,180.0	4,108.9	24.0	15.0	155.00	654.3	3.6	636.3	608.5	27.77	22.911		
4,300.0	4,104.5	4,278.9	4,205.2	24.7	15.5	154.78	676.6	3.1	651.3	622.7	28.61	22.762		
4,400.0	4,198.8	4,377.7	4,301.4	25.4	15.9	154.57	699.0	2.6	666.4	636.9	29.46	22.621		
4,500.0	4,293.2	4,476.5	4,397.7	26.1	16.4	154.37	721.3	2.1	681.4	651.1	30.30	22.487		
4,600.0	4,387.5	4,575.4	4,494.0	26.7	16.8	154.18	743.7	1.7	696.5	665.4	31.15	22.360		
4,700.0	4,481.8	4,668.6	4,584.8	27.4	17.3	154.02	764.5	1.2	711.7	679.8	31.95	22.275		
4,800.0	4,576.2	4,752.9	4,667.4	28.1	17.6	154.00	781.4	0.8	728.6	696.0	32.62	22.333		
4,900.0	4,670.5	4,836.5	4,749.8	28.7	17.8	154.12	795.8	0.5	747.4	714.1	33.22	22.499		
5,000.0	4,764.9	4,919.4	4,831.9	29.4	18.1	154.38	807.6	0.2	768.1	734.3	33.75	22.760		
5,090.3	4,850.0	5,000.0	4,911.9	30.0	18.3	154.74	816.8	0.0	788.5	754.3	34.17	23.072		
5,100.0	4,859.2	5,000.0	4,911.9	30.1	18.3	154.76	816.8	0.0	790.7	756.5	34.21	23.112		
5,200.0	4,954.2	5,082.9	4,994.5	30.6	18.4	155.38	824.0	-0.1	813.5	778.9	34.57	23.529		
5,300.0	5,050.3	5,164.1	5,075.5	31.0	18.6	155.98	828.6	-0.2	835.1	800.3	34.87	23.949		
5,400.0	5,147.2	5,244.9	5,156.4	31.4	18.7	156.59	831.0	-0.3	855.6	820.5	35.10	24.376		
5,500.0	5,245.0	5,333.5	5,245.0	31.8	18.8	157.21	831.3	-0.3	874.8	839.5	35.28	24.795		
5,600.0	5,343.4	5,432.0	5,343.4	32.1	18.9	157.78	831.3	-0.3	891.2	855.7	35.46	25.135		
5,700.0	5,442.4	5,530.9	5,442.4	32.4	19.1	158.22	831.3	-0.3	904.4	868.7	35.63	25.385		
5,800.0	5,541.8	5,630.4	5,541.8	32.6	19.2	158.54	831.3	-0.3	914.4	878.6	35.79	25.549		
5,900.0	5,641.5	5,730.1	5,641.5	32.8	19.3	158.76	831.3	-0.3	921.1	885.2	35.94	25.630		
6,000.0	5,741.4	5,830.0	5,741.4	32.9	19.5	158.87	831.3	-0.3	924.7	888.6	36.08	25.628		
6,058.6	5,800.0	5,888.6	5,800.0	32.9	19.5	135.23	831.3	-0.3	925.2	889.1	36.16	25.589		
6,100.0	5,841.4	5,930.0	5,841.4	33.0	19.6	135.23	831.3	-0.3	925.2	889.0	36.28	25.505		
6,200.0	5,941.4	6,030.0	5,941.4	33.0	19.7	135.23	831.3	-0.3	925.2	888.7	36.58	25.296		
6,300.0	6,041.4	6,130.0	6,041.4	33.1	19.9	135.23	831.3	-0.3	925.2	888.4	36.88	25.088		
6,400.0	6,141.4	6,230.0	6,141.4	33.2	20.0	135.23	831.3	-0.3	925.2	888.0	37.18	24.882		
6,500.0	6,241.4	6,330.0	6,241.4	33.3	20.2	135.23	831.3	-0.3	925.2	887.7	37.49	24.678		
6,600.0	6,341.4	6,430.0	6,341.4	33.4	20.3	135.23	831.3	-0.3	925.2	887.4	37.80	24.475		
6,700.0	6,441.4	6,530.0	6,441.4	33.5	20.5	135.23	831.3	-0.3	925.2	887.1	38.12	24.273		
6,800.0	6,541.4	6,630.0	6,541.4	33.6	20.6	135.23	831.3	-0.3	925.2	886.8	38.43	24.073		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Margil 33-34D
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 33-34D	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:	0.0 ft
SRC Margil 34-34D Pad Sec.34-T4N-R68W - SRC Margil 34DD - Wellbore #1 - Plan #1 (12-28-11)												Offset Well Error:	0.0 ft
Survey Program: 0-MWD													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
6,900.0	6,641.4	6,730.0	6,641.4	33.7	20.8	135.23	831.3	-0.3	925.2	886.5	38.75	23.875	
7,000.0	6,741.4	6,830.0	6,741.4	33.7	20.9	135.23	831.3	-0.3	925.2	886.2	39.07	23.679	
7,100.0	6,841.4	6,930.0	6,841.4	33.8	21.1	135.23	831.3	-0.3	925.2	885.8	39.40	23.484	
7,200.0	6,941.4	7,030.0	6,941.4	33.9	21.2	135.23	831.3	-0.3	925.2	885.5	39.72	23.291	
7,300.0	7,041.4	7,130.0	7,041.4	34.0	21.4	135.23	831.3	-0.3	925.2	885.2	40.05	23.100	
7,400.0	7,141.4	7,230.0	7,141.4	34.1	21.5	135.23	831.3	-0.3	925.2	884.8	40.38	22.910	
7,500.0	7,241.4	7,330.0	7,241.4	34.2	21.7	135.23	831.3	-0.3	925.2	884.5	40.72	22.723	
7,600.0	7,341.4	7,430.0	7,341.4	34.3	21.9	135.23	831.3	-0.3	925.2	884.2	41.05	22.537	
7,700.0	7,441.4	7,530.0	7,441.4	34.4	22.0	135.23	831.3	-0.3	925.2	883.8	41.39	22.353	
7,800.0	7,541.4	7,630.0	7,541.4	34.5	22.2	135.23	831.3	-0.3	925.2	883.5	41.73	22.171	
7,900.0	7,641.4	7,730.0	7,641.4	34.6	22.3	135.23	831.3	-0.3	925.2	883.2	42.07	21.991	
8,000.0	7,741.4	7,830.0	7,741.4	34.7	22.5	135.23	831.3	-0.3	925.2	882.8	42.42	21.813	
8,100.0	7,841.4	7,930.0	7,841.4	34.8	22.7	135.23	831.3	-0.3	925.2	882.5	42.76	21.637	
8,208.6	7,950.0	8,038.6	7,950.0	34.9	22.9	135.23	831.3	-0.3	925.2	882.1	43.14	21.448	

SRC Margil 34-34D Pad Sec.34-T4N-R68W - SRC Margil 34PD - Wellbore #1 - Plan #1 (12-28-11)													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	-115.74	-8.7	-18.1	20.1					
100.0	100.0	100.0	100.0	0.1	0.1	-115.74	-8.7	-18.1	20.1	19.9	0.22	89.601		
200.0	200.0	200.0	200.0	0.3	0.3	-115.74	-8.7	-18.1	20.1	19.5	0.67	29.867 CC		
200.1	200.1	200.1	200.1	0.3	0.3	-115.74	-8.7	-18.1	20.1	19.5	0.67	29.841		
300.0	300.0	300.0	300.0	0.6	0.6	-97.02	-8.7	-18.1	20.3	19.2	1.12	18.054 ES		
400.0	399.8	399.8	399.8	0.8	0.8	-110.92	-8.7	-18.1	21.6	20.0	1.58	13.631		
500.0	499.5	499.5	499.5	1.0	1.0	-129.07	-8.7	-18.1	26.0	23.9	2.06	12.632 SF		
600.0	598.7	598.7	598.7	1.3	1.2	-144.61	-8.7	-18.1	35.0	32.4	2.54	13.798		
700.0	697.5	697.5	697.5	1.7	1.5	-155.21	-8.7	-18.1	48.6	45.6	3.01	16.167		
800.0	795.6	795.6	795.6	2.0	1.7	-162.00	-8.7	-18.1	66.5	63.0	3.47	19.128		
900.0	893.1	893.1	893.1	2.5	1.9	-166.41	-8.7	-18.1	88.2	84.2	3.94	22.373		
1,000.0	989.6	990.8	990.8	2.9	2.1	-169.31	-8.6	-18.4	113.3	108.9	4.41	25.721		
1,100.0	1,085.3	1,090.4	1,090.3	3.5	2.3	-170.59	-6.9	-21.0	139.9	135.1	4.87	28.738		
1,168.3	1,150.0	1,158.7	1,158.5	3.9	2.5	-170.81	-4.6	-24.5	158.6	153.4	5.20	30.529		
1,200.0	1,179.9	1,190.5	1,190.2	4.1	2.6	-170.82	-3.3	-26.6	167.2	161.9	5.35	31.232		
1,300.0	1,274.2	1,291.9	1,291.1	4.7	2.8	-170.33	2.3	-35.3	192.9	187.0	5.88	32.772		
1,400.0	1,368.6	1,394.4	1,392.6	5.4	3.1	-169.29	9.9	-47.1	216.0	209.5	6.45	33.457		
1,500.0	1,462.9	1,498.0	1,494.6	6.0	3.4	-167.80	19.5	-62.1	236.6	229.6	7.08	33.436		
1,600.0	1,557.2	1,602.2	1,596.6	6.7	3.7	-165.93	31.2	-80.3	255.0	247.2	7.77	32.824		
1,700.0	1,651.6	1,706.9	1,698.1	7.4	4.1	-163.72	45.0	-101.8	271.2	262.6	8.55	31.722		
1,800.0	1,745.9	1,811.7	1,798.7	8.0	4.6	-161.16	60.8	-126.3	285.4	276.0	9.44	30.237		
1,900.0	1,840.3	1,916.4	1,898.2	8.7	5.2	-158.28	78.5	-154.0	298.0	287.5	10.46	28.482		
2,000.0	1,934.6	2,019.4	1,994.8	9.3	5.8	-155.12	97.9	-184.1	309.2	297.6	11.63	26.597		
2,100.0	2,029.0	2,117.4	2,086.3	10.0	6.4	-152.15	116.9	-213.6	320.7	307.9	12.86	24.944		
2,200.0	2,123.3	2,215.4	2,177.7	10.7	7.1	-149.39	135.8	-243.1	333.0	318.9	14.15	23.534		
2,300.0	2,217.6	2,313.4	2,269.2	11.3	7.8	-146.83	154.8	-272.6	346.0	330.6	15.49	22.339		
2,400.0	2,312.0	2,411.3	2,360.7	12.0	8.4	-144.46	173.8	-302.2	359.7	342.9	16.87	21.328		
2,500.0	2,406.3	2,509.3	2,452.2	12.7	9.1	-142.26	192.8	-331.7	374.0	355.7	18.27	20.473		
2,600.0	2,500.7	2,607.3	2,543.6	13.3	9.8	-140.22	211.7	-361.2	388.7	369.0	19.69	19.746		
2,700.0	2,595.0	2,705.3	2,635.1	14.0	10.5	-138.33	230.7	-390.7	403.9	382.8	21.12	19.127		
2,800.0	2,689.3	2,803.2	2,726.6	14.7	11.2	-136.58	249.7	-420.3	419.5	397.0	22.56	18.598		
2,900.0	2,783.7	2,901.2	2,818.0	15.3	12.0	-134.95	268.7	-449.8	435.5	411.5	24.00	18.144		
3,000.0	2,878.0	2,999.2	2,905.5	16.0	12.7	-133.43	287.6	-479.3	451.8	426.4	25.45	17.752		
3,100.0	2,972.4	3,097.1	3,001.0	16.7	13.4	-132.02	306.6	-508.8	468.4	441.5	26.90	17.413		
3,200.0	3,066.7	3,195.1	3,092.5	17.3	14.1	-130.71	325.6	-538.4	485.2	456.9	28.35	17.118		
3,300.0	3,161.1	3,293.1	3,183.9	18.0	14.8	-129.49	344.6	-567.9	502.3	472.5	29.79	16.860		
3,400.0	3,255.4	3,391.1	3,275.4	18.7	15.6	-128.34	363.5	-597.4	519.6	488.4	31.24	16.635		
3,500.0	3,349.7	3,489.0	3,366.9	19.4	16.3	-127.27	382.5	-626.9	537.1	504.4	32.68	16.436		
3,600.0	3,444.1	3,587.0	3,458.4	20.0	17.0	-126.27	401.5	-656.4	554.8	520.6	34.12	16.261		
3,700.0	3,538.4	3,685.0	3,549.8	20.7	17.8	-125.32	420.5	-686.0	572.6	537.0	35.55	16.106		
3,800.0	3,632.8	3,783.0	3,641.3	21.4	18.5	-124.44	439.4	-715.5	590.5	553.5	36.98	15.968		
3,900.0	3,727.1	3,880.9	3,732.8	22.0	19.2	-123.60	458.4	-745.0	608.6	570.2	38.41	15.845		
4,000.0	3,821.4	3,978.9	3,824.2	22.7	19.9	-122.82	477.4	-774.5	626.8	587.0	39.83	15.735		
4,100.0	3,915.8	4,076.9	3,915.7	23.4	20.7	-122.08	496.4	-804.1	645.1	603.9	41.26	15.637		
4,200.0	4,010.1	4,174.9	4,007.2	24.0	21.4	-121.37	515.3	-833.6	663.5	620.8	42.67	15.549		
4,300.0	4,104.5	4,272.8	4,098.7	24.7	22.1	-120.71	534.3	-863.1	682.0	637.9	44.09	15.469		
4,400.0	4,198.8	4,370.8	4,190.1	25.4	22.9	-120.08	553.3	-892.6	700.6	655.1	45.50	15.398		
4,500.0	4,293.2	4,468.8	4,281.6	26.1	23.6	-119.49	572.3	-922.2	719.3	672.4	46.91	15.333		
4,600.0	4,387.5	4,566.7	4,373.1	26.7	24.3	-118.92	591.2	-951.7	738.0	689.7	48.32	15.275		
4,700.0	4,481.8	4,664.7	4,464.5	27.4	25.1	-118.38	610.2	-981.2	756.8	707.1	49.72	15.222		
4,800.0	4,576.2	4,762.7	4,556.0	28.1	25.8	-117.87	629.2	-1,010.7	775.7	724.5	51.12	15.173		
4,900.0	4,670.5	4,860.7	4,647.5	28.7	26.6	-117.38	648.2	-1,040.3	794.6	742.1	52.52	15.129		

COMPASS 2003.21 Build 46

SRC Margil 34-34D Pad Sec.34-T4N-R68W - SRC Margil 34PD - Wellbore #1 - Plan #1 (12-28-11)												Offset Site Error: 0.0 ft	
Survey Program: 0-MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation		Separation Factor
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
5,000.0	4,764.9	4,958.6	4,739.0	29.4	27.3	-116.92	667.1	-1,069.8	813.6	759.6	53.92	15.089	
5,090.3	4,850.0	5,047.1	4,821.5	30.0	28.0	-116.51	684.3	-1,096.4	830.7	775.6	55.17	15.056	
5,100.0	4,859.2	5,056.6	4,830.4	30.1	28.0	-116.51	686.1	-1,099.3	832.6	777.3	55.31	15.054	
5,200.0	4,954.2	5,154.6	4,921.9	30.6	28.8	-116.29	705.1	-1,128.8	850.7	794.2	56.59	15.034	
5,300.0	5,050.3	5,254.2	5,015.0	31.0	29.5	-115.86	724.2	-1,158.6	867.5	809.6	57.81	15.005	
5,400.0	5,147.2	5,356.3	5,111.5	31.4	30.1	-115.41	742.3	-1,186.7	882.5	823.6	58.88	14.986	
5,500.0	5,245.0	5,459.3	5,210.0	31.8	30.6	-114.96	758.6	-1,212.1	895.6	835.8	59.82	14.973	
5,600.0	5,343.4	5,563.0	5,310.1	32.1	31.0	-114.52	773.0	-1,234.6	906.9	846.3	60.65	14.955	
5,700.0	5,442.4	5,667.3	5,411.8	32.4	31.4	-114.09	785.6	-1,254.2	916.4	855.0	61.37	14.932	
5,800.0	5,541.8	5,772.3	5,514.9	32.6	31.8	-113.66	796.3	-1,270.7	923.9	861.9	61.98	14.906	
5,900.0	5,641.5	5,877.8	5,619.2	32.8	32.1	-113.22	804.9	-1,284.1	929.4	867.0	62.49	14.874	
6,000.0	5,741.4	5,983.8	5,724.5	32.9	32.3	-112.78	811.5	-1,294.3	933.0	870.2	62.89	14.837	
6,058.6	5,800.0	6,046.1	5,786.6	32.9	32.4	-136.17	814.3	-1,298.8	934.2	871.2	63.07	14.814	
6,100.0	5,841.4	6,090.2	5,830.6	33.0	32.5	-135.99	815.9	-1,301.3	934.8	871.6	63.19	14.794	
6,200.0	5,941.4	6,197.0	5,937.3	33.0	32.6	-135.73	818.3	-1,304.9	935.6	872.1	63.43	14.750	
6,300.0	6,041.4	6,301.1	6,041.4	33.1	32.7	-135.69	818.6	-1,305.5	935.7	872.1	63.61	14.709	
6,400.0	6,141.4	6,401.1	6,141.4	33.2	32.8	-135.69	818.6	-1,305.5	935.7	871.9	63.79	14.668	
6,500.0	6,241.4	6,501.1	6,241.4	33.3	32.9	-135.69	818.6	-1,305.5	935.7	871.7	63.97	14.626	
6,600.0	6,341.4	6,601.1	6,341.4	33.4	33.0	-135.69	818.6	-1,305.5	935.7	871.5	64.16	14.584	
6,700.0	6,441.4	6,701.1	6,441.4	33.5	33.1	-135.69	818.6	-1,305.5	935.7	871.3	64.35	14.542	
6,800.0	6,541.4	6,801.1	6,541.4	33.6	33.2	-135.69	818.6	-1,305.5	935.7	871.2	64.54	14.499	
6,900.0	6,641.4	6,901.1	6,641.4	33.7	33.3	-135.69	818.6	-1,305.5	935.7	871.0	64.73	14.456	
7,000.0	6,741.4	7,001.1	6,741.4	33.7	33.4	-135.69	818.6	-1,305.5	935.7	870.8	64.92	14.412	
7,100.0	6,841.4	7,101.1	6,841.4	33.8	33.5	-135.69	818.6	-1,305.5	935.7	870.6	65.12	14.368	
7,200.0	6,941.4	7,201.1	6,941.4	33.9	33.6	-135.69	818.6	-1,305.5	935.7	870.4	65.32	14.324	
7,300.0	7,041.4	7,301.1	7,041.4	34.0	33.7	-135.69	818.6	-1,305.5	935.7	870.2	65.53	14.280	
7,400.0	7,141.4	7,401.1	7,141.4	34.1	33.8	-135.69	818.6	-1,305.5	935.7	870.0	65.73	14.235	
7,500.0	7,241.4	7,501.1	7,241.4	34.2	33.9	-135.69	818.6	-1,305.5	935.7	869.8	65.94	14.191	
7,600.0	7,341.4	7,601.1	7,341.4	34.3	34.0	-135.69	818.6	-1,305.5	935.7	869.5	66.15	14.145	
7,700.0	7,441.4	7,701.1	7,441.4	34.4	34.1	-135.69	818.6	-1,305.5	935.7	869.3	66.36	14.100	
7,800.0	7,541.4	7,801.1	7,541.4	34.5	34.2	-135.69	818.6	-1,305.5	935.7	869.1	66.58	14.055	
7,900.0	7,641.4	7,901.1	7,641.4	34.6	34.3	-135.69	818.6	-1,305.5	935.7	868.9	66.79	14.009	
8,000.0	7,741.4	8,001.1	7,741.4	34.7	34.4	-135.69	818.6	-1,305.5	935.7	868.7	67.01	13.963	
8,100.0	7,841.4	8,101.1	7,841.4	34.8	34.5	-135.69	818.6	-1,305.5	935.7	868.5	67.23	13.917	
8,172.7	7,914.1	8,173.8	7,914.1	34.9	34.6	-135.69	818.6	-1,305.5	935.7	868.3	67.40	13.884	
8,208.6	7,950.0	8,209.7	7,950.0	34.9	34.6	-135.69	818.6	-1,305.5	935.7	868.2	67.48	13.867	

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 33-34D
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (12-28-11)

Local Co-ordinate Reference: Well SRC Margil 33-34D
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 33-34D
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°



Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Margil 33-34D
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 33-34D	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 Depths are relative to WELL @ 5104.0ft (Original Well Elev) Coordinates are relative to: SRC Margil 33-34D
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°

