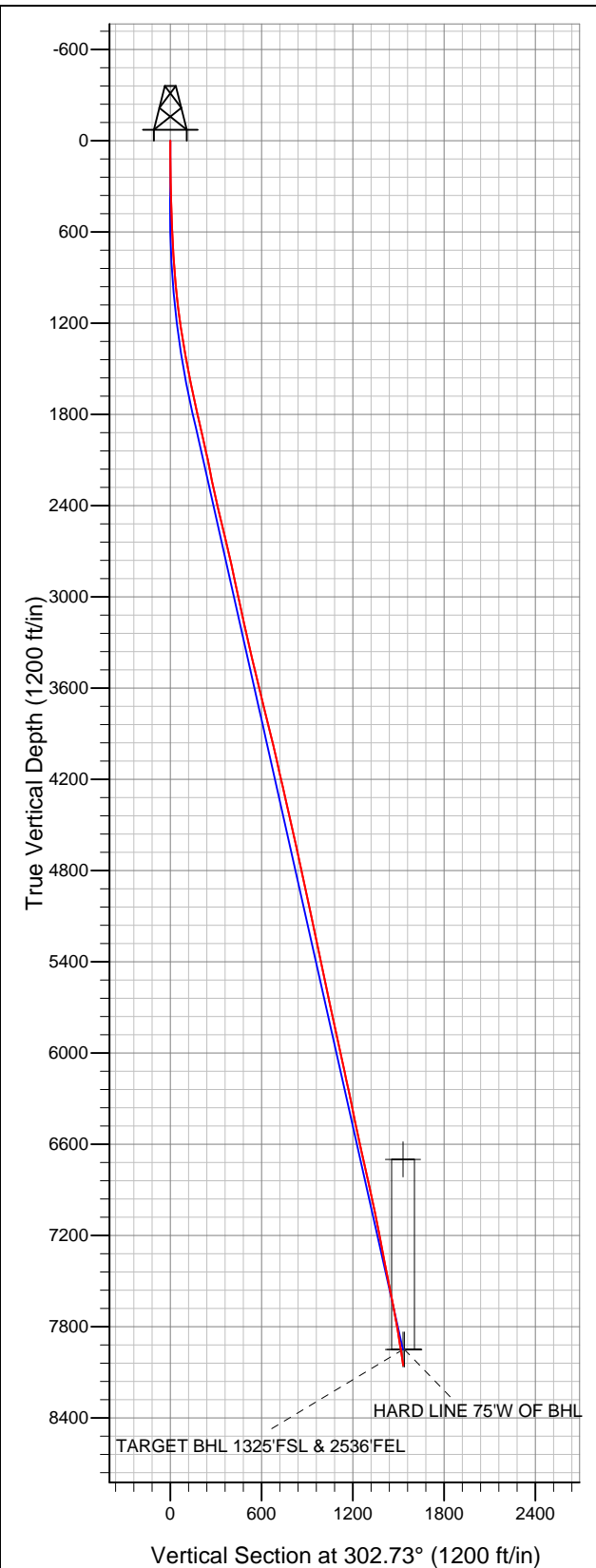


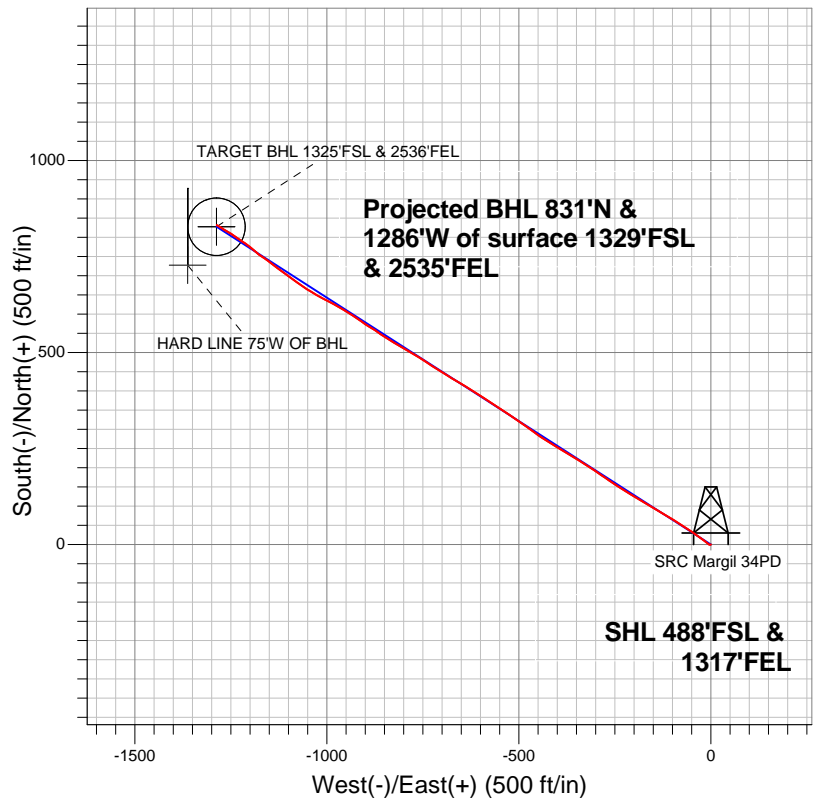
Well Name: SRC Margil 34PD

Surface Location: SRC Margil 34-34D Pad Sec.34-T4N-R68W
North American Datum 1983 US State Plane 1983Colorado Northern Zone
Ground Elevation: 5091.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1339420.86	3143834.82	40.263962	-104.984588	
Original Well Elev			WELL @ 5104.0ft (Original Well Elev)			



Synergy Resources



- LEGEND
- Wellbore #1
 - ✕ SRC Margil 34PD, Wellbore #1, Plan #2 (6-05-12) R V0
 - Survey #1

Final Survey Plot

Projected Final Survey -
8215'MD & 8056'TVD @ 1532'VS
8.40 deg Inc 299.90 deg AZ

Project: SEC.34-T4N-R68W
Site: SRC Margil 34-34D Pad Sec.34-T4N-R68W
Well: SRC Margil 34PD
Plan: Wellbore #1



Synergy Resources

SEC.34-T4N-R68W

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

SRC Margil 34PD

Wellbore #1

Survey: Survey #1

Standard Survey Report

15 June, 2012

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

Project	SEC.34-T4N-R68W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site		SRC Margil 34-34D Pad Sec.34-T4N-R68W			
Site Position:		Northing:		1,339,412.39ft	
From:	Lat/Long	Easting:		3,143,817.01ft	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
0.0 ft		"		40.263939 -104.984652 0.33 °	

Well	SRC Margil 34PD					
Well Position	+N/-S	0.0 ft	Northing:	1,339,420.86 ft	Latitude:	40.263962
	+E/-W	0.0 ft	Easting:	3,143,834.82 ft	Longitude:	-104.984588
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,091.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/5/2012	8.84	66.87	52,931

Design	Wellbore #1			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	7,950.0	0.0	0.0	302.73

Survey Program		Date	6/15/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
94.0	8,215.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

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)
Survey	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	94.0	1.30	249.50	94.0	-0.4	-1.0	0.6	1.38	1.38	0.00
	185.0	0.80	266.70	185.0	-0.8	-2.6	1.8	0.64	-0.55	18.90
	275.0	0.80	291.80	275.0	-0.6	-3.8	2.9	0.39	0.00	27.89
	369.0	1.70	308.20	368.9	0.5	-5.5	4.9	1.02	0.96	17.45
	461.0	2.00	313.50	460.9	2.5	-7.8	7.9	0.38	0.33	5.76
	552.0	2.60	305.70	551.8	4.8	-10.6	11.5	0.74	0.66	-8.57
	644.0	2.80	306.30	643.7	7.3	-14.1	15.8	0.22	0.22	0.65
	734.0	2.70	309.60	733.6	10.0	-17.5	20.1	0.21	-0.11	3.67
	825.0	4.30	308.90	824.4	13.5	-21.8	25.6	1.76	1.76	-0.77
	917.0	5.00	305.00	916.1	18.0	-27.8	33.1	0.83	0.76	-4.24
	1,044.0	6.00	305.60	1,042.6	25.0	-37.7	45.2	0.79	0.79	0.47
	1,138.0	7.90	304.90	1,135.9	31.5	-47.0	56.6	2.02	2.02	-0.74

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

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)	
1,231.0	8.60	301.20	1,227.9	38.8	-58.2	69.9	0.94	0.75	-3.98	
1,325.0	9.60	301.90	1,320.7	46.6	-70.8	84.8	1.07	1.06	0.74	
1,419.0	9.80	302.00	1,413.4	55.0	-84.3	100.6	0.21	0.21	0.11	
1,512.0	10.40	304.90	1,504.9	64.0	-97.9	116.9	0.85	0.65	3.12	
1,606.0	12.00	299.40	1,597.1	73.6	-113.4	135.2	2.04	1.70	-5.85	
1,700.0	12.20	301.00	1,689.1	83.5	-130.4	154.8	0.42	0.21	1.70	
1,793.0	12.80	299.10	1,779.8	93.6	-147.8	174.9	0.78	0.65	-2.04	
1,887.0	12.20	301.70	1,871.6	103.9	-165.4	195.3	0.87	-0.64	2.77	
1,981.0	12.90	302.00	1,963.4	114.7	-182.7	215.7	0.75	0.74	0.32	
2,075.0	13.10	302.40	2,055.0	125.9	-200.6	236.8	0.23	0.21	0.43	
2,168.0	11.30	299.20	2,145.9	136.0	-217.5	256.5	2.07	-1.94	-3.44	
2,262.0	11.40	302.90	2,238.0	145.6	-233.3	275.0	0.78	0.11	3.94	
2,356.0	12.10	302.70	2,330.1	155.9	-249.4	294.1	0.75	0.74	-0.21	
2,449.0	13.10	305.40	2,420.8	167.3	-266.2	314.4	1.25	1.08	2.90	
2,543.0	14.20	303.80	2,512.2	179.9	-284.4	336.5	1.24	1.17	-1.70	
2,637.0	14.00	304.70	2,603.3	192.8	-303.4	359.4	0.32	-0.21	0.96	
2,731.0	13.00	302.40	2,694.7	204.9	-321.6	381.4	1.21	-1.06	-2.45	
2,824.0	11.70	300.30	2,785.6	215.3	-338.6	401.3	1.48	-1.40	-2.26	
2,918.0	12.20	303.30	2,877.5	225.5	-355.1	420.7	0.85	0.53	3.19	
3,012.0	12.80	301.00	2,969.3	236.4	-372.4	441.0	0.83	0.64	-2.45	
3,105.0	11.90	301.00	3,060.2	246.6	-389.4	460.9	0.97	-0.97	0.00	
3,199.0	12.50	303.10	3,152.0	257.2	-406.3	480.8	0.79	0.64	2.23	
3,293.0	13.10	301.70	3,243.7	268.3	-423.8	501.6	0.72	0.64	-1.49	
3,387.0	12.10	301.50	3,335.4	279.0	-441.3	522.1	1.06	-1.06	-0.21	
3,480.0	13.30	306.80	3,426.2	290.6	-458.2	542.5	1.80	1.29	5.70	
3,574.0	13.20	307.10	3,517.7	303.5	-475.4	564.0	0.13	-0.11	0.32	
3,668.0	14.10	303.10	3,609.0	316.2	-493.6	586.2	1.39	0.96	-4.26	
3,761.0	14.30	305.00	3,699.2	329.0	-512.5	609.0	0.55	0.22	2.04	
3,855.0	14.10	303.30	3,790.3	341.9	-531.5	632.0	0.49	-0.21	-1.81	
3,949.0	13.90	304.30	3,881.5	354.6	-550.4	654.8	0.33	-0.21	1.06	
4,043.0	13.10	303.10	3,972.9	366.8	-568.7	676.7	0.90	-0.85	-1.28	
4,136.0	12.80	302.70	4,063.5	378.1	-586.2	697.5	0.34	-0.32	-0.43	
4,230.0	12.50	301.50	4,155.3	389.0	-603.6	718.1	0.42	-0.32	-1.28	
4,324.0	13.00	304.20	4,246.9	400.3	-621.0	738.9	0.83	0.53	2.87	
4,417.0	12.50	302.20	4,337.6	411.5	-638.2	759.4	0.72	-0.54	-2.15	
4,511.0	13.00	299.40	4,429.3	422.2	-656.0	780.1	0.85	0.53	-2.98	
4,605.0	12.20	301.30	4,521.1	432.5	-673.7	800.6	0.96	-0.85	2.02	
4,698.0	12.60	301.50	4,611.9	442.9	-690.8	820.6	0.43	0.43	0.22	
4,792.0	12.90	301.90	4,703.6	453.8	-708.4	841.3	0.33	0.32	0.43	
4,886.0	12.40	302.40	4,795.3	464.8	-725.8	861.9	0.54	-0.53	0.53	
4,980.0	12.60	304.50	4,887.1	476.0	-742.8	882.2	0.53	0.21	2.23	
5,073.0	11.20	302.60	4,978.1	486.6	-758.8	901.4	1.56	-1.51	-2.04	
5,167.0	12.10	299.20	5,070.1	496.3	-775.1	920.4	1.20	0.96	-3.62	
5,261.0	12.30	298.00	5,162.0	505.8	-792.5	940.2	0.34	0.21	-1.28	
5,354.0	12.20	302.00	5,252.9	515.7	-809.6	959.9	0.92	-0.11	4.30	
5,448.0	11.80	302.60	5,344.8	526.1	-826.1	979.4	0.45	-0.43	0.64	
5,542.0	12.00	303.30	5,436.8	536.7	-842.4	998.8	0.26	0.21	0.74	
5,636.0	11.50	303.10	5,528.8	547.1	-858.4	1,017.9	0.53	-0.53	-0.21	
5,730.0	12.50	302.40	5,620.8	557.7	-874.8	1,037.5	1.08	1.06	-0.74	
5,823.0	11.70	301.30	5,711.7	568.0	-891.4	1,057.0	0.90	-0.86	-1.18	
5,917.0	11.80	307.80	5,803.8	578.8	-907.1	1,076.1	1.41	0.11	6.91	
6,011.0	12.00	301.50	5,895.7	589.8	-923.1	1,095.4	1.40	0.21	-6.70	
6,105.0	13.80	303.30	5,987.4	601.1	-940.8	1,116.4	1.96	1.91	1.91	
6,198.0	11.40	302.20	6,078.1	612.1	-957.8	1,136.7	2.59	-2.58	-1.18	

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

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)
6,292.0	12.50	298.20	6,170.1	621.9	-974.6	1,156.1	1.46	1.17	-4.26
6,386.0	11.60	297.50	6,262.0	631.0	-992.0	1,175.7	0.97	-0.96	-0.74
6,480.0	12.00	297.50	6,354.0	639.9	-1,009.0	1,194.8	0.43	0.43	0.00
6,573.0	12.50	301.30	6,444.9	649.6	-1,026.2	1,214.5	1.02	0.54	4.09
6,667.0	11.70	299.90	6,536.8	659.6	-1,043.2	1,234.2	0.91	-0.85	-1.49
6,761.0	12.00	304.90	6,628.8	670.0	-1,059.4	1,253.5	1.14	0.32	5.32
6,855.0	12.60	304.50	6,720.7	681.4	-1,075.9	1,273.5	0.64	0.64	-0.43
6,892.2	12.84	305.57	6,756.9	686.1	-1,082.6	1,281.7	0.90	0.64	2.87
TARGET CIRCLE 1325'FSL & 2536'FEL									
6,948.0	13.20	307.10	6,811.3	693.5	-1,092.7	1,294.2	0.90	0.65	2.74
7,042.0	12.50	303.30	6,903.0	705.6	-1,109.8	1,315.1	1.17	-0.74	-4.04
7,136.0	11.80	309.40	6,994.9	717.3	-1,125.7	1,334.8	1.55	-0.74	6.49
7,230.0	12.00	308.00	7,086.8	729.4	-1,140.9	1,354.1	0.37	0.21	-1.49
7,323.0	9.90	306.30	7,178.1	740.1	-1,154.9	1,371.7	2.28	-2.26	-1.83
7,417.0	11.40	302.20	7,270.5	749.8	-1,169.3	1,389.1	1.79	1.60	-4.36
7,511.0	11.30	311.40	7,362.7	760.8	-1,184.1	1,407.4	1.93	-0.11	9.79
7,604.0	10.40	311.00	7,454.0	772.4	-1,197.2	1,424.8	0.97	-0.97	-0.43
7,698.0	12.00	302.70	7,546.2	783.2	-1,211.9	1,442.9	2.41	1.70	-8.83
7,792.0	10.60	306.30	7,638.4	793.6	-1,227.1	1,461.3	1.67	-1.49	3.83
7,886.0	10.80	303.80	7,730.8	803.6	-1,241.3	1,478.8	0.54	0.21	-2.66
7,980.0	9.00	299.90	7,823.4	812.2	-1,255.0	1,494.9	2.04	-1.91	-4.15
8,073.0	9.50	303.40	7,915.2	820.1	-1,267.8	1,509.9	0.81	0.54	3.76
8,110.6	9.08	302.18	7,952.3	823.3	-1,272.9	1,515.9	1.23	-1.11	-3.24
TARGET BHL 1325'FSL & 2536'FEL									
8,112.5	9.06	302.12	7,954.1	823.5	-1,273.1	1,516.2	1.23	-1.10	-3.39
HARD LINE 75'W OF BHL									
8,173.0	8.40	299.90	8,013.9	828.2	-1,281.0	1,525.4	1.23	-1.09	-3.67
8,215.0	8.40	299.90	8,055.5	831.3	-1,286.3	1,531.5	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____