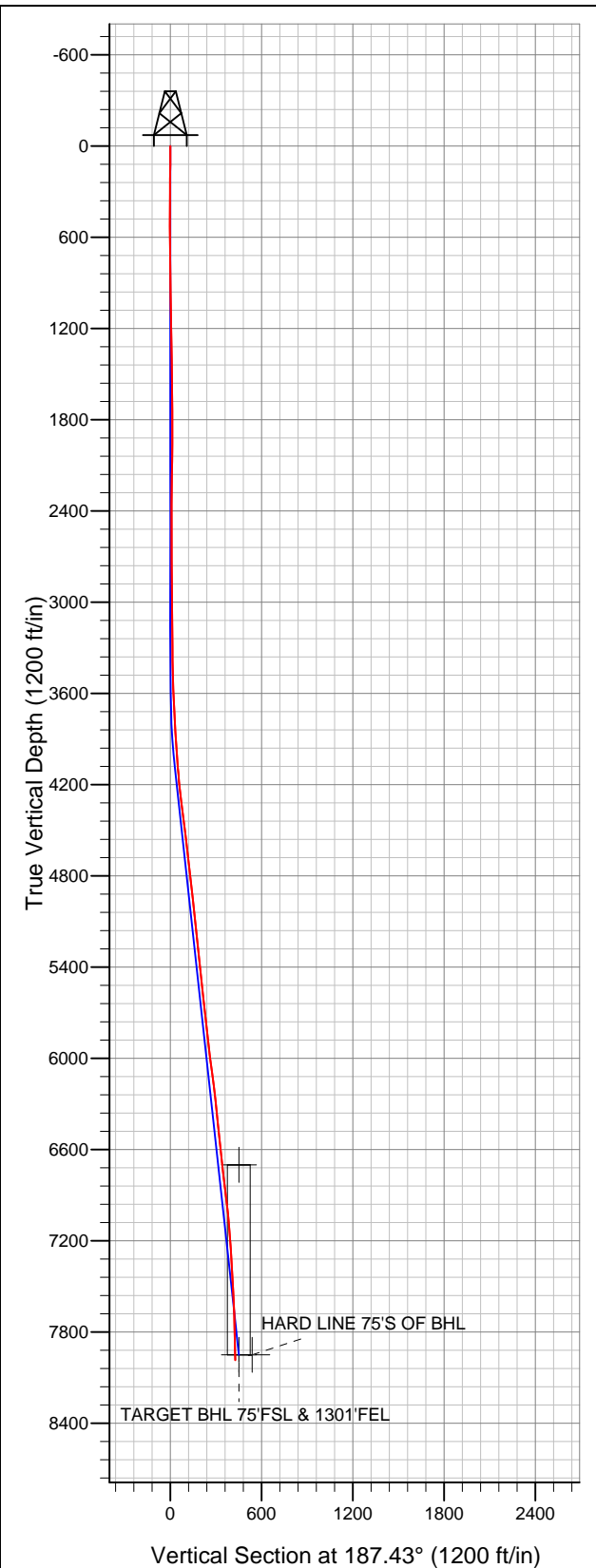




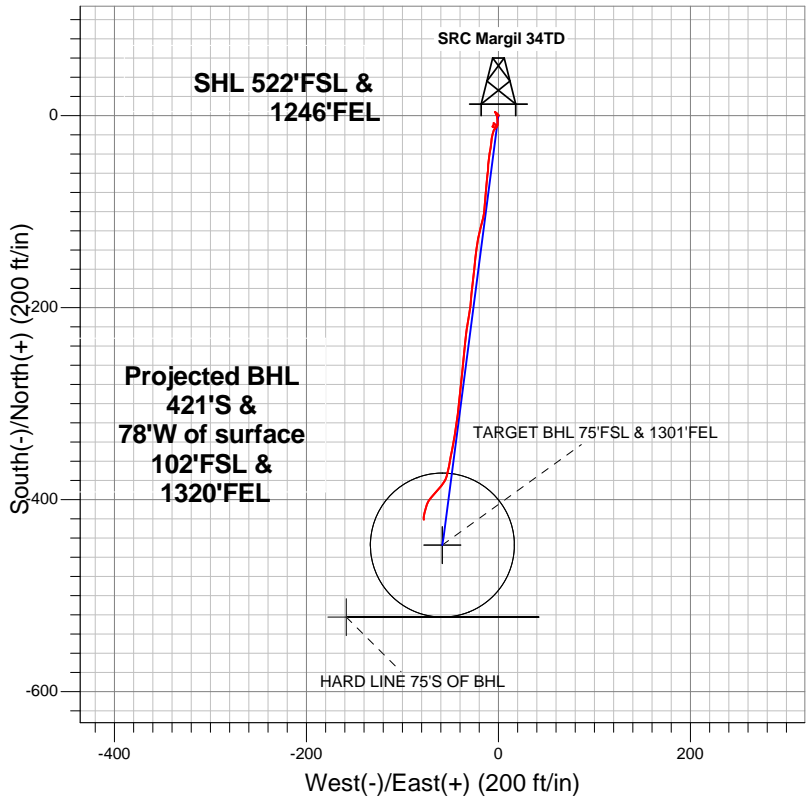
# Well Name: SRC Margil 34TD

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	1339455.89	3143906.89	40.264057	-104.984329	
Original Well Elev		WELL @ 5104.0ft (Original Well Elev)				



## Synergy Resources



### LEGEND

- Wellbore #1
- SRC Margil 34TD, Wellbore #1, Plan #2 (6-29-12) R V0
- Survey #1

## Final Survey Plot

Projected Final Survey -  
8006'MD & 7984'TVD @ 427'VS  
1.10 deg Inc 172.50 deg AZ

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



## **Synergy Resources**

**SEC.34-T4N-R68W**

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

**SRC Margil 34TD**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**18 July, 2012**

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

<b>Project</b>	SEC.34-T4N-R68W, Weld County, Colorado		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		Using Well Reference Point
<b>Map Zone:</b>	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:		Longitude:	
		3,143,817.01ft		-104.984652	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
0.0 ft		"		0.33 °	

Well	SRC Margil 34TD					
Well Position	+N/-S	0.0 ft	Northing:	1,339,455.89 ft	Latitude:	40.264057
	+E/-W	0.0 ft	Easting:	3,143,906.89 ft	Longitude:	-104.984329
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	6/29/2012	8.84	66.87	52,935

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 (°)	
	0.0	0.0	0.0	187.43	

Survey Program		Date	7/18/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
124.0	8,006.0	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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
124.0	0.30	354.10	124.0	0.3	0.0	-0.3	0.24	0.24	0.00
214.0	0.40	305.90	214.0	0.7	-0.3	-0.7	0.33	0.11	-53.56
307.0	1.00	320.30	307.0	1.6	-1.1	-1.4	0.67	0.65	15.48
399.0	0.70	311.30	399.0	2.5	-2.0	-2.3	0.36	-0.33	-9.78
491.0	1.00	308.90	491.0	3.4	-3.1	-3.0	0.33	0.33	-2.61
582.0	0.20	162.50	582.0	3.8	-3.6	-3.3	1.29	-0.88	-160.88
673.0	1.10	142.80	673.0	2.9	-3.1	-2.5	1.00	0.99	-21.65
764.0	0.90	165.30	763.9	1.5	-2.4	-1.2	0.48	-0.22	24.73
855.0	1.10	153.50	854.9	0.1	-1.8	0.2	0.31	0.22	-12.97
972.0	1.30	179.30	971.9	-2.3	-1.3	2.4	0.49	0.17	22.05
1,014.0	1.30	179.30	1,013.9	-3.2	-1.3	3.4	0.00	0.00	0.00
1,043.0	1.30	174.80	1,042.9	-3.9	-1.2	4.0	0.35	0.00	-15.52

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Margil 34TD
<b>Project:</b>	SEC.34-T4N-R68W	<b>TVD Reference:</b>	WELL @ 5104.0ft (Original Well Elev)
<b>Site:</b>	SRC Margil 34-34D Pad Sec.34-T4N-R68W	<b>MD Reference:</b>	WELL @ 5104.0ft (Original Well Elev)
<b>Well:</b>	SRC Margil 34TD	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)	
1,137.0	1.20	169.50	1,136.9	-5.9	-1.0	6.0	0.16	-0.11	-5.64	
1,230.0	0.90	180.90	1,229.9	-7.6	-0.8	7.6	0.39	-0.32	12.26	
1,324.0	0.90	187.20	1,323.8	-9.1	-0.9	9.1	0.11	0.00	6.70	
1,418.0	0.60	186.70	1,417.8	-10.3	-1.0	10.3	0.32	-0.32	-0.53	
1,511.0	0.50	216.30	1,510.8	-11.1	-1.3	11.2	0.32	-0.11	31.83	
1,605.0	0.40	252.50	1,604.8	-11.5	-1.9	11.7	0.31	-0.11	38.51	
1,699.0	0.50	235.80	1,698.8	-11.9	-2.5	12.1	0.17	0.11	-17.77	
1,792.0	0.70	257.90	1,791.8	-12.2	-3.4	12.5	0.33	0.22	23.76	
1,886.0	0.70	285.50	1,885.8	-12.2	-4.5	12.7	0.36	0.00	29.36	
1,980.0	0.90	282.20	1,979.8	-11.9	-5.8	12.5	0.22	0.21	-3.51	
2,073.0	0.60	42.80	2,072.8	-11.4	-6.2	12.1	1.41	-0.32	129.68	
2,167.0	0.90	31.00	2,166.8	-10.4	-5.5	11.0	0.36	0.32	-12.55	
2,261.0	0.50	16.90	2,260.8	-9.3	-5.0	9.9	0.46	-0.43	-15.00	
2,355.0	0.40	11.10	2,354.8	-8.6	-4.8	9.2	0.12	-0.11	-6.17	
2,448.0	0.20	326.80	2,447.8	-8.2	-4.8	8.7	0.31	-0.22	-47.63	
2,542.0	0.40	330.70	2,541.8	-7.7	-5.1	8.3	0.21	0.21	4.15	
2,636.0	1.10	132.40	2,635.8	-8.1	-4.6	8.6	1.58	0.74	172.02	
2,729.0	1.00	133.30	2,728.8	-9.2	-3.3	9.6	0.11	-0.11	0.97	
2,823.0	0.60	154.40	2,822.7	-10.2	-2.5	10.5	0.52	-0.43	22.45	
2,917.0	0.40	153.30	2,916.7	-11.0	-2.2	11.2	0.21	-0.21	-1.17	
3,011.0	0.40	189.00	3,010.7	-11.6	-2.1	11.8	0.26	0.00	37.98	
3,104.0	0.50	208.90	3,103.7	-12.3	-2.3	12.5	0.20	0.11	21.40	
3,198.0	0.70	218.00	3,197.7	-13.1	-2.9	13.3	0.24	0.21	9.68	
3,292.0	0.60	219.10	3,291.7	-13.9	-3.5	14.2	0.11	-0.11	1.17	
3,385.0	0.80	233.80	3,384.7	-14.7	-4.4	15.1	0.29	0.22	15.81	
3,479.0	1.80	194.80	3,478.7	-16.5	-5.3	17.0	1.36	1.06	-41.49	
3,573.0	2.10	197.10	3,572.6	-19.6	-6.1	20.2	0.33	0.32	2.45	
3,667.0	2.90	186.00	3,666.6	-23.6	-6.9	24.3	0.99	0.85	-11.81	
3,760.0	3.20	187.40	3,759.4	-28.5	-7.5	29.2	0.33	0.32	1.51	
3,854.0	3.10	189.00	3,853.3	-33.6	-8.2	34.4	0.14	-0.11	1.70	
3,948.0	3.90	190.90	3,947.1	-39.2	-9.2	40.1	0.86	0.85	2.02	
4,042.0	3.80	184.60	4,040.9	-45.5	-10.1	46.4	0.46	-0.11	-6.70	
4,135.0	5.10	183.60	4,133.6	-52.7	-10.6	53.6	1.40	1.40	-1.08	
4,229.0	6.10	185.30	4,227.2	-61.8	-11.3	62.8	1.08	1.06	1.81	
4,323.0	6.80	185.70	4,320.6	-72.3	-12.3	73.3	0.75	0.74	0.43	
4,416.0	7.50	185.50	4,412.8	-83.9	-13.5	84.9	0.75	0.75	-0.22	
4,510.0	7.20	184.40	4,506.1	-95.8	-14.5	96.9	0.35	-0.32	-1.17	
4,604.0	6.40	191.80	4,599.4	-106.8	-16.0	108.0	1.26	-0.85	7.87	
4,697.0	6.90	196.40	4,691.8	-117.3	-18.7	118.7	0.79	0.54	4.95	
4,791.0	6.60	190.40	4,785.1	-128.0	-21.2	129.7	0.81	-0.32	-6.38	
4,885.0	6.40	186.90	4,878.5	-138.5	-22.8	140.3	0.47	-0.21	-3.72	
4,978.0	5.50	186.50	4,971.0	-148.1	-24.0	149.9	0.97	-0.97	-0.43	
5,072.0	5.90	186.50	5,064.6	-157.4	-25.0	159.3	0.43	0.43	0.00	
5,166.0	6.30	185.50	5,158.0	-167.3	-26.1	169.3	0.44	0.43	-1.06	
5,260.0	7.30	186.20	5,251.4	-178.4	-27.2	180.4	1.07	1.06	0.74	
5,353.0	5.70	186.40	5,343.8	-188.8	-28.3	190.9	1.72	-1.72	0.22	
5,447.0	6.00	183.90	5,437.3	-198.4	-29.2	200.5	0.42	0.32	-2.66	
5,541.0	5.80	192.50	5,530.8	-207.9	-30.6	210.1	0.96	-0.21	9.15	
5,635.0	5.80	188.00	5,624.3	-217.3	-32.2	219.6	0.48	0.00	-4.79	
5,729.0	6.80	186.70	5,717.7	-227.5	-33.6	229.9	1.07	1.06	-1.38	
5,822.0	6.20	187.80	5,810.1	-237.9	-34.9	240.4	0.66	-0.65	1.18	
5,916.0	6.30	183.70	5,903.6	-248.1	-35.9	250.7	0.49	0.11	-4.36	
6,010.0	7.70	185.50	5,996.9	-259.5	-36.8	262.1	1.51	1.49	1.91	
6,104.0	7.70	185.70	6,090.0	-272.1	-38.1	274.7	0.03	0.00	0.21	

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Margil 34TD
<b>Project:</b>	SEC.34-T4N-R68W	<b>TVD Reference:</b>	WELL @ 5104.0ft (Original Well Elev)
<b>Site:</b>	SRC Margil 34-34D Pad Sec.34-T4N-R68W	<b>MD Reference:</b>	WELL @ 5104.0ft (Original Well Elev)
<b>Well:</b>	SRC Margil 34TD	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)	
6,197.0	6.90	187.20	6,182.3	-283.8	-39.4	286.5	0.88	-0.86	1.61	
6,291.0	6.30	183.70	6,275.6	-294.5	-40.4	297.3	0.77	-0.64	-3.72	
6,385.0	6.00	189.70	6,369.1	-304.5	-41.6	307.4	0.75	-0.32	6.38	
6,479.0	5.50	185.70	6,462.6	-313.9	-42.9	316.8	0.68	-0.53	-4.26	
6,572.0	5.50	185.70	6,555.2	-322.7	-43.8	325.7	0.00	0.00	0.00	
6,666.0	6.90	192.70	6,648.7	-332.7	-45.4	335.8	1.69	1.49	7.45	
6,730.8	6.90	191.12	6,713.0	-340.3	-47.0	343.6	0.29	0.00	-2.45	
TARGET CIRCLE 75'FSL & 1301'FEL										
6,760.0	6.90	190.40	6,742.0	-343.8	-47.7	347.1	0.29	0.00	-2.45	
6,854.0	6.80	189.00	6,835.3	-354.8	-49.6	358.3	0.21	-0.11	-1.49	
6,947.0	6.50	190.90	6,927.7	-365.4	-51.4	369.0	0.40	-0.32	2.04	
7,041.0	6.00	196.00	7,021.1	-375.4	-53.8	379.2	0.79	-0.53	5.43	
7,135.0	6.00	218.00	7,114.6	-384.0	-58.2	388.3	2.43	0.00	23.40	
7,229.0	4.70	224.20	7,208.2	-390.6	-63.9	395.6	1.51	-1.38	6.60	
7,322.0	4.00	216.80	7,300.9	-395.9	-68.5	401.5	0.96	-0.75	-7.96	
7,416.0	2.90	218.50	7,394.8	-400.4	-71.9	406.4	1.18	-1.17	1.81	
7,510.0	3.80	199.00	7,488.6	-405.2	-74.4	411.5	1.53	0.96	-20.74	
7,603.0	2.70	195.50	7,581.5	-410.3	-76.0	416.6	1.20	-1.18	-3.76	
7,697.0	1.80	194.60	7,675.4	-413.8	-77.0	420.3	0.96	-0.96	-0.96	
7,791.0	1.30	186.70	7,769.3	-416.3	-77.5	422.8	0.58	-0.53	-8.40	
7,885.0	1.20	186.50	7,863.3	-418.3	-77.7	424.9	0.11	-0.11	-0.21	
7,964.0	1.10	172.50	7,942.3	-419.9	-77.7	426.4	0.38	-0.13	-17.72	
HARD LINE 75'S OF BHL - TARGET BHL 75'FSL & 1301'FEL										
8,006.0	1.10	172.50	7,984.3	-420.7	-77.6	427.2	0.00	0.00	0.00	

Checked By: _____	Approved By: _____	Date: _____
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