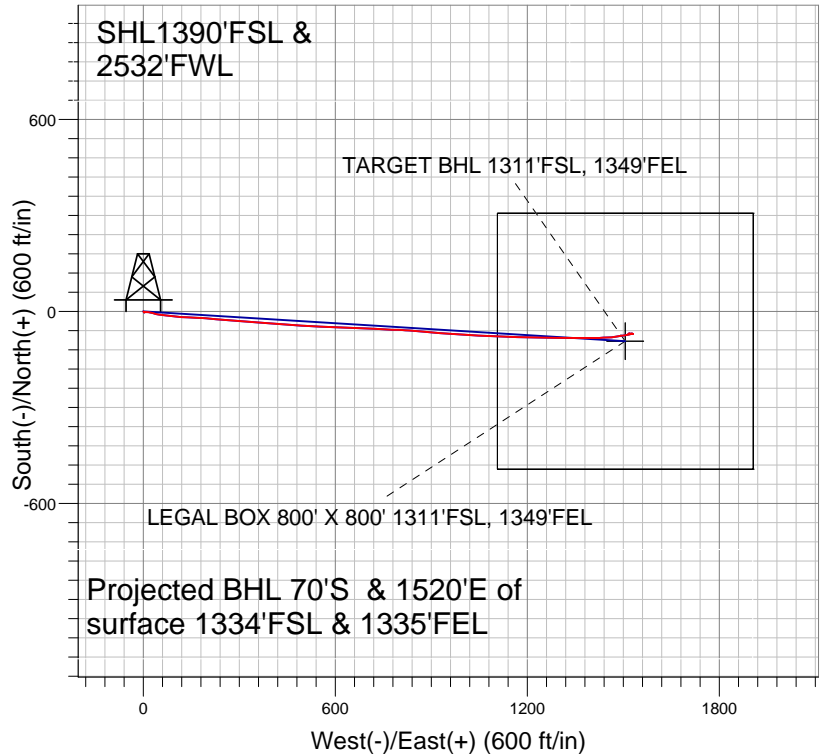


## Synergy Resources



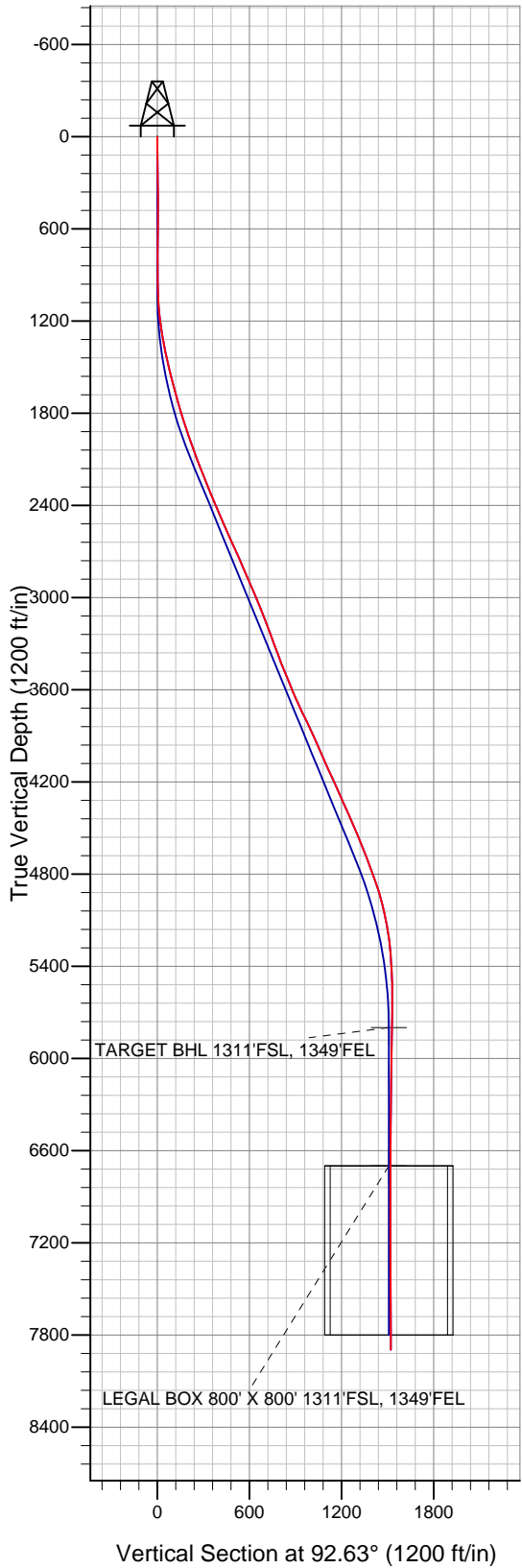
### LEGEND

- SRC State 16DD, Wellbore #1, Plan #1 (10-16-09) V0
- Wellbore #1
- Survey #1

## Final Survey Plot

Projected Final Survey -  
8180'MD & 7897'TVD @ 1522' VS  
0.1 deg Inc 87.8 deg AZ

Project: SEC.16-T4N-R67W  
Site: SRC State 33-16D Pad Sec.16-T4N-R67W  
Well: SRC State 16DD  
Plan: Wellbore #1





## **Synergy Resources**

**SEC.16-T4N-R67W**

**SRC State 33-16D Pad Sec.16-T4N-R67W**

**SRC State 16DD**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**30 June, 2010**

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC State 16DD
<b>Project:</b>	SEC.16-T4N-R67W	<b>TVD Reference:</b>	WELL @ 4922.0ft (Original Well Elev)
<b>Site:</b>	SRC State 33-16D Pad Sec.16-T4N-R67W	<b>MD Reference:</b>	WELL @ 4922.0ft (Original Well Elev)
<b>Well:</b>	SRC State 16DD	<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.16-T4N-R67W, 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 State 33-16D Pad Sec.16-T4N-R67W			
Site Position:		Northing:		1,356,118.70ft	
From:	Lat/Long	Easting:		Longitude:	
		3,168,257.54ft		40° 18' 33.750 N	
Position Uncertainty:		Slot Radius:		104° 53' 48.005 W	
0.0 ft		"		Grid Convergence:	
				0.39 °	

Well	SRC State 16DD					
Well Position	+N/-S	0.0 ft	Northing:	1,356,103.40 ft	Latitude:	40° 18' 33.599 N
	+E/-W	0.0 ft	Easting:	3,168,257.92 ft	Longitude:	104° 53' 48.001 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,909.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/1/2010	9.07	66.99	53,178

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	92.63	

Survey Program		Date	6/28/2010		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
123.0	8,180.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey	Wellbore Data									
	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)
Main Survey	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	123.0	1.80	146.60	123.0	-1.6	1.1	1.1	1.46	1.46	0.00
	214.0	0.90	101.70	214.0	-3.0	2.6	2.7	1.46	-0.99	-49.34
	306.0	0.40	62.50	305.9	-2.9	3.5	3.7	0.70	-0.54	-42.61
	397.0	0.40	75.80	396.9	-2.7	4.1	4.3	0.10	0.00	14.62
	490.0	0.40	60.20	489.9	-2.5	4.7	4.8	0.12	0.00	-16.77
	577.0	0.30	298.10	576.9	-2.2	4.8	4.9	0.71	-0.11	-140.35
	623.0	0.30	298.10	622.9	-2.1	4.6	4.7	0.00	0.00	0.00
	735.0	0.30	271.20	734.9	-2.0	4.0	4.1	0.12	0.00	-24.02
	829.0	0.30	209.30	828.9	-2.2	3.7	3.8	0.33	0.00	-65.85
	923.0	0.40	283.20	922.9	-2.3	3.2	3.3	0.46	0.11	78.62
	1,017.0	2.20	89.30	1,016.9	-2.2	4.7	4.8	2.76	1.91	176.70
	1,110.0	4.60	87.70	1,109.7	-2.0	10.2	10.3	2.58	2.58	-1.72

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC State 16DD
<b>Project:</b>	SEC.16-T4N-R67W	<b>TVD Reference:</b>	WELL @ 4922.0ft (Original Well Elev)
<b>Site:</b>	SRC State 33-16D Pad Sec.16-T4N-R67W	<b>MD Reference:</b>	WELL @ 4922.0ft (Original Well Elev)
<b>Well:</b>	SRC State 16DD	<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)	
1,204.0	7.30	100.20	1,203.2	-3.0	19.9	20.0	3.17	2.87	13.30	
1,297.0	9.60	108.00	1,295.2	-6.4	33.1	33.3	2.76	2.47	8.39	
1,390.0	11.80	99.50	1,386.6	-10.4	49.8	50.2	2.91	2.37	-9.14	
1,481.0	12.80	94.30	1,475.5	-12.7	69.0	69.6	1.64	1.10	-5.71	
1,575.0	14.20	97.30	1,566.9	-14.9	90.9	91.5	1.66	1.49	3.19	
1,668.0	15.50	94.80	1,656.8	-17.4	114.6	115.2	1.56	1.40	-2.69	
1,762.0	16.40	92.20	1,747.2	-19.0	140.3	141.1	1.22	0.96	-2.77	
1,856.0	17.70	92.40	1,837.1	-20.1	167.9	168.6	1.38	1.38	0.21	
1,950.0	18.50	94.90	1,926.4	-21.9	197.0	197.8	1.19	0.85	2.66	
2,044.0	19.70	95.00	2,015.2	-24.6	227.7	228.5	1.28	1.28	0.11	
2,138.0	20.90	94.80	2,103.4	-27.4	260.2	261.1	1.28	1.28	-0.21	
2,231.0	21.40	93.50	2,190.1	-29.8	293.6	294.7	0.74	0.54	-1.40	
2,325.0	22.10	94.50	2,277.4	-32.2	328.4	329.5	0.84	0.74	1.06	
2,419.0	22.80	94.40	2,364.3	-35.0	364.2	365.4	0.75	0.74	-0.11	
2,513.0	23.20	94.40	2,450.8	-37.8	400.8	402.1	0.43	0.43	0.00	
2,606.0	24.00	94.40	2,536.1	-40.7	437.9	439.3	0.86	0.86	0.00	
2,700.0	23.90	94.30	2,622.0	-43.6	475.9	477.4	0.11	-0.11	-0.11	
2,794.0	24.70	92.50	2,707.6	-45.9	514.6	516.1	1.16	0.85	-1.91	
2,887.0	23.30	92.10	2,792.6	-47.4	552.3	553.9	1.52	-1.51	-0.43	
2,981.0	24.00	93.30	2,878.7	-49.2	590.0	591.6	0.90	0.74	1.28	
3,075.0	23.00	91.60	2,964.9	-50.8	627.5	629.1	1.29	-1.06	-1.81	
3,168.0	22.10	91.60	3,050.8	-51.8	663.1	664.8	0.97	-0.97	0.00	
3,262.0	21.30	93.70	3,138.1	-53.4	697.8	699.5	1.19	-0.85	2.23	
3,356.0	20.40	92.80	3,226.0	-55.3	731.2	733.0	1.02	-0.96	-0.96	
3,450.0	19.90	92.80	3,314.2	-56.9	763.6	765.4	0.53	-0.53	0.00	
3,544.0	20.70	91.00	3,402.4	-57.9	796.2	798.0	1.08	0.85	-1.91	
3,637.0	23.10	94.40	3,488.7	-59.6	830.8	832.6	2.92	2.58	3.66	
3,731.0	22.00	94.70	3,575.5	-62.5	866.7	868.7	1.18	-1.17	0.32	
3,825.0	23.80	94.60	3,662.1	-65.4	903.2	905.2	1.92	1.91	-0.11	
3,918.0	25.30	95.00	3,746.7	-68.7	941.7	943.8	1.62	1.61	0.43	
4,012.0	25.70	94.00	3,831.5	-71.8	982.0	984.3	0.63	0.43	-1.06	
4,106.0	24.90	93.40	3,916.5	-74.4	1,022.1	1,024.4	0.89	-0.85	-0.64	
4,199.0	24.50	91.80	4,001.0	-76.2	1,060.9	1,063.3	0.84	-0.43	-1.72	
4,293.0	22.40	94.00	4,087.2	-78.1	1,098.3	1,100.7	2.42	-2.23	2.34	
4,387.0	25.40	90.90	4,173.2	-79.6	1,136.3	1,138.8	3.46	3.19	-3.30	
4,480.0	24.20	91.10	4,257.6	-80.3	1,175.3	1,177.8	1.29	-1.29	0.22	
4,574.0	24.20	90.80	4,343.3	-81.0	1,213.8	1,216.3	0.13	0.00	-0.32	
4,668.0	23.90	92.10	4,429.2	-81.9	1,252.1	1,254.6	0.65	-0.32	1.38	
4,762.0	22.30	90.80	4,515.6	-82.9	1,289.0	1,291.4	1.79	-1.70	-1.38	
4,856.0	22.80	89.80	4,602.4	-83.1	1,325.0	1,327.5	0.67	0.53	-1.06	
4,950.0	20.50	90.80	4,689.8	-83.2	1,359.7	1,362.1	2.48	-2.45	1.06	
5,044.0	20.80	89.40	4,777.8	-83.3	1,392.9	1,395.2	0.61	0.32	-1.49	
5,137.0	19.10	88.90	4,865.2	-82.8	1,424.6	1,426.9	1.84	-1.83	-0.54	
5,231.0	16.00	85.80	4,954.8	-81.6	1,452.9	1,455.1	3.44	-3.30	-3.30	
5,325.0	12.40	82.10	5,045.9	-79.2	1,475.8	1,477.9	3.95	-3.83	-3.94	
5,419.0	10.50	81.70	5,138.0	-76.6	1,494.3	1,496.2	2.02	-2.02	-0.43	
5,512.0	7.80	77.70	5,229.8	-74.0	1,508.8	1,510.7	2.98	-2.90	-4.30	
5,606.0	4.40	80.50	5,323.3	-72.1	1,518.6	1,520.3	3.63	-3.62	2.98	
5,700.0	3.20	74.10	5,417.1	-70.8	1,524.7	1,526.4	1.35	-1.28	-6.81	
5,794.0	1.40	99.90	5,511.0	-70.2	1,528.4	1,530.0	2.16	-1.91	27.45	
5,982.0	0.90	288.60	5,699.0	-70.2	1,529.2	1,530.8	1.22	-0.27	-91.12	
6,083.3	1.00	282.19	5,800.3	-69.7	1,527.6	1,529.2	0.15	0.10	-6.33	
TARGET BHL 1311'FSL, 1349'FEL										
6,170.0	1.10	277.70	5,887.0	-69.5	1,526.1	1,527.6	0.15	0.11	-5.17	

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC State 16DD
<b>Project:</b>	SEC.16-T4N-R67W	<b>TVD Reference:</b>	WELL @ 4922.0ft (Original Well Elev)
<b>Site:</b>	SRC State 33-16D Pad Sec.16-T4N-R67W	<b>MD Reference:</b>	WELL @ 4922.0ft (Original Well Elev)
<b>Well:</b>	SRC State 16DD	<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)	
6,357.0	0.60	251.00	6,073.9	-69.5	1,523.3	1,524.9	0.33	-0.27	-14.28	
6,544.0	0.70	285.90	6,260.9	-69.5	1,521.3	1,522.9	0.21	0.05	18.66	
6,731.0	0.30	263.60	6,447.9	-69.3	1,519.7	1,521.3	0.23	-0.21	-11.93	
6,919.0	0.50	294.20	6,635.9	-69.0	1,518.5	1,520.1	0.15	0.11	16.28	
6,983.2	0.43	280.02	6,700.1	-68.8	1,518.0	1,519.6	0.21	-0.11	-22.10	
<b>LEGAL BOX 800' X 800' 1311'FSL, 1349'FEL</b>										
7,107.0	0.40	243.80	6,823.9	-69.0	1,517.2	1,518.7	0.21	-0.02	-29.25	
7,294.0	0.30	194.20	7,010.9	-69.7	1,516.5	1,518.1	0.16	-0.05	-26.52	
7,482.0	0.30	133.90	7,198.9	-70.5	1,516.7	1,518.3	0.16	0.00	-32.07	
7,670.0	0.40	101.00	7,386.9	-71.0	1,517.7	1,519.3	0.12	0.05	-17.50	
7,858.0	0.40	58.90	7,574.9	-70.8	1,518.9	1,520.5	0.15	0.00	-22.39	
8,046.0	0.30	46.40	7,762.9	-70.1	1,519.8	1,521.4	0.07	-0.05	-6.65	
8,135.0	0.10	87.80	7,851.9	-69.9	1,520.1	1,521.7	0.26	-0.22	46.52	
8,180.0	0.10	87.80	7,896.9	-69.9	1,520.1	1,521.7	0.00	0.00	0.00	

Checked By: _____	Approved By: _____	Date: _____
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