



## Final Survey Plot

Projected Final Survey -  
 7494'MD & 7472'TVD @ 480' VS  
 0.4 deg Inc 210.37 deg AZ

Project: SEC.36-T7N-R66W  
 Site: SRC Haythorn 31-36D Pad Sec.36-T7N-R66W  
 Well: SRC Haythorn 36CD  
 Plan: Wellbore #1



## **Synergy Resources**

**SEC.36-T7N-R66W**

**SRC Haythorn 31-36D Pad Sec.36-T7N-R66W**

**SRC Haythorn 36CD**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**07 October, 2011**

Survey	Survey 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)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	202.0	1.00	121.90	202.0	-0.9	1.5	0.3	0.50	0.50	0.00
	413.0	1.50	207.00	413.0	-4.4	1.8	3.4	0.82	0.24	40.33
	487.0	1.80	231.40	486.9	-6.0	0.5	5.4	1.02	0.41	32.97
	581.0	2.00	228.40	580.9	-8.0	-1.9	8.1	0.24	0.21	-3.19
	674.0	2.50	206.80	673.8	-10.9	-4.1	11.6	1.05	0.54	-23.23
	768.0	2.70	204.30	767.7	-14.7	-5.9	15.8	0.24	0.21	-2.66
	862.0	2.60	210.50	861.6	-18.6	-7.9	20.1	0.32	-0.11	6.60
	956.0	2.10	186.60	955.5	-22.1	-9.2	23.9	1.16	-0.53	-25.43
	1,050.0	1.90	204.70	1,049.5	-25.2	-10.0	27.1	0.70	-0.21	19.26
	1,143.0	0.80	202.20	1,142.4	-27.2	-10.9	29.3	1.18	-1.18	-2.69
	1,237.0	0.70	176.20	1,236.4	-28.4	-11.1	30.5	0.37	-0.11	-27.66
	1,331.0	1.40	193.20	1,330.4	-30.1	-11.3	32.2	0.81	0.74	18.09

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Haythorn 36CD
<b>Project:</b>	SEC.36-T7N-R66W	<b>TVD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Site:</b>	SRC Haythorn 31-36D Pad Sec.36-T7N-R66W	<b>MD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Well:</b>	SRC Haythorn 36CD	<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)	
1,425.0	2.00	198.00	1,424.4	-32.8	-12.1	34.9	0.66	0.64	5.11	
1,518.0	2.90	195.50	1,517.3	-36.6	-13.2	38.9	0.97	0.97	-2.69	
1,612.0	3.50	199.00	1,611.1	-41.6	-14.8	44.1	0.67	0.64	3.72	
1,706.0	4.00	199.70	1,704.9	-47.4	-16.8	50.3	0.53	0.53	0.74	
1,799.0	3.30	196.90	1,797.8	-53.0	-18.7	56.2	0.78	-0.75	-3.01	
1,893.0	3.40	197.50	1,891.6	-58.3	-20.3	61.7	0.11	0.11	0.64	
1,992.0	3.50	198.20	1,990.4	-63.9	-22.2	67.6	0.11	0.10	0.71	
2,086.0	3.70	202.90	2,084.2	-69.4	-24.2	73.5	0.38	0.21	5.00	
2,180.0	4.90	201.90	2,178.0	-76.0	-26.9	80.6	1.28	1.28	-1.06	
2,273.0	4.80	197.10	2,270.6	-83.4	-29.5	88.4	0.45	-0.11	-5.16	
2,367.0	5.20	202.20	2,364.3	-91.1	-32.3	96.6	0.64	0.43	5.43	
2,461.0	4.90	207.10	2,457.9	-98.6	-35.7	104.9	0.56	-0.32	5.21	
2,554.0	5.00	203.40	2,550.6	-105.8	-39.2	112.9	0.36	0.11	-3.98	
2,648.0	4.70	211.40	2,644.2	-112.9	-42.8	120.7	0.79	-0.32	8.51	
2,742.0	4.00	200.10	2,738.0	-119.3	-45.9	127.8	1.17	-0.74	-12.02	
2,835.0	4.20	196.80	2,830.7	-125.6	-48.0	134.4	0.33	0.22	-3.55	
2,929.0	4.70	198.10	2,924.4	-132.5	-50.2	141.7	0.54	0.53	1.38	
3,023.0	5.50	201.30	3,018.1	-140.4	-53.1	150.1	0.90	0.85	3.40	
3,117.0	4.20	205.90	3,111.7	-147.7	-56.2	158.0	1.44	-1.38	4.89	
3,210.0	4.00	207.30	3,204.5	-153.6	-59.2	164.6	0.24	-0.22	1.51	
3,304.0	4.50	208.40	3,298.2	-159.8	-62.4	171.5	0.54	0.53	1.17	
3,393.0	3.80	196.40	3,387.0	-165.7	-64.9	177.9	1.25	-0.79	-13.48	
3,487.0	4.20	195.90	3,480.8	-172.0	-66.7	184.5	0.43	0.43	-0.53	
3,581.0	4.00	199.20	3,574.5	-178.4	-68.8	191.2	0.33	-0.21	3.51	
3,675.0	3.30	202.00	3,668.3	-184.0	-70.9	197.2	0.77	-0.74	2.98	
3,768.0	3.20	214.90	3,761.2	-188.6	-73.3	202.4	0.79	-0.11	13.87	
3,862.0	4.10	217.70	3,855.0	-193.4	-76.9	208.1	0.98	0.96	2.98	
3,956.0	6.70	212.90	3,948.6	-200.7	-81.9	216.7	2.80	2.77	-5.11	
4,049.0	7.40	204.50	4,040.9	-210.7	-87.4	228.0	1.34	0.75	-9.03	
4,143.0	7.40	205.70	4,134.1	-221.6	-92.5	240.1	0.16	0.00	1.28	
4,237.0	6.70	199.00	4,227.4	-232.3	-96.9	251.6	1.15	-0.74	-7.13	
4,331.0	6.90	199.70	4,320.7	-242.8	-100.6	262.7	0.23	0.21	0.74	
4,424.0	7.40	199.20	4,413.0	-253.7	-104.5	274.3	0.54	0.54	-0.54	
4,518.0	7.50	198.30	4,506.2	-265.2	-108.4	286.4	0.16	0.11	-0.96	
4,611.0	8.00	201.70	4,598.3	-277.0	-112.7	299.0	0.73	0.54	3.66	
4,706.0	8.10	202.60	4,692.4	-289.3	-117.7	312.3	0.17	0.11	0.95	
4,800.0	7.00	197.50	4,785.6	-300.9	-122.0	324.6	1.37	-1.17	-5.43	
4,894.0	6.60	188.00	4,878.9	-311.7	-124.4	335.6	1.27	-0.43	-10.11	
4,987.0	7.20	191.70	4,971.3	-322.7	-126.4	346.6	0.80	0.65	3.98	
5,081.0	7.40	190.60	5,064.5	-334.4	-128.7	358.3	0.26	0.21	-1.17	
5,175.0	7.70	196.80	5,157.7	-346.4	-131.6	370.6	0.92	0.32	6.60	
5,269.0	6.90	204.70	5,250.9	-357.6	-135.8	382.5	1.36	-0.85	8.40	
5,362.0	5.50	205.40	5,343.4	-366.7	-140.0	392.5	1.51	-1.51	0.75	
5,456.0	5.40	200.60	5,437.0	-374.9	-143.5	401.4	0.50	-0.11	-5.11	
5,550.0	5.70	204.10	5,530.5	-383.3	-147.0	410.5	0.48	0.32	3.72	
5,644.0	5.90	207.00	5,624.0	-391.9	-151.1	420.0	0.38	0.21	3.09	
5,738.0	5.00	212.60	5,717.6	-399.6	-155.5	428.8	1.11	-0.96	5.96	
5,832.0	4.70	198.70	5,811.3	-406.7	-158.9	436.6	1.29	-0.32	-14.79	
5,925.0	4.80	197.60	5,904.0	-414.0	-161.3	444.3	0.15	0.11	-1.18	
6,019.0	4.20	196.10	5,997.7	-421.1	-163.5	451.7	0.65	-0.64	-1.60	
6,113.0	3.30	197.30	6,091.5	-427.0	-165.2	457.8	0.96	-0.96	1.28	
6,207.0	2.40	193.90	6,185.3	-431.5	-166.5	462.5	0.97	-0.96	-3.62	
6,301.0	1.90	196.90	6,279.3	-434.9	-167.4	466.0	0.55	-0.53	3.19	
6,394.0	1.30	194.30	6,372.2	-437.4	-168.1	468.6	0.65	-0.65	-2.80	

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well SRC Haythorn 36CD
<b>Project:</b>	SEC.36-T7N-R66W	<b>TVD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Site:</b>	SRC Haythorn 31-36D Pad Sec.36-T7N-R66W	<b>MD Reference:</b>	WELL @ 4866.0ft (Original Well Elev)
<b>Well:</b>	SRC Haythorn 36CD	<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)	
6,488.0	1.10	191.10	6,466.2	-439.3	-168.6	470.5	0.22	-0.21	-3.40	
6,581.0	1.00	197.30	6,559.2	-440.9	-169.0	472.2	0.16	-0.11	6.67	
6,722.6	0.62	198.33	6,700.8	-442.9	-169.6	474.2	0.27	-0.27	0.73	
TARGET BOX 800' X 800' 1322'FNL, 1364'FEL										
6,769.0	0.50	199.00	6,747.2	-443.3	-169.7	474.7	0.27	-0.27	1.45	
6,957.0	0.40	185.50	6,935.2	-444.7	-170.1	476.1	0.08	-0.05	-7.18	
7,144.0	0.40	204.70	7,122.2	-446.0	-170.4	477.4	0.07	0.00	10.27	
7,332.0	0.40	194.50	7,310.2	-447.2	-170.8	478.7	0.04	0.00	-5.43	
7,453.0	0.40	211.50	7,431.2	-448.0	-171.2	479.5	0.10	0.00	14.05	
7,494.0	0.40	210.37	7,472.2	-448.2	-171.3	479.8	0.02	0.00	-2.76	
TARGET BHL 1322'FNL, 1404'FEL										

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_