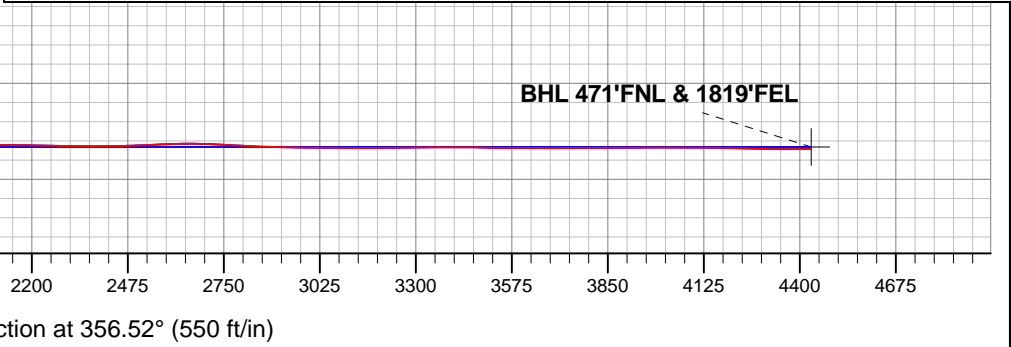
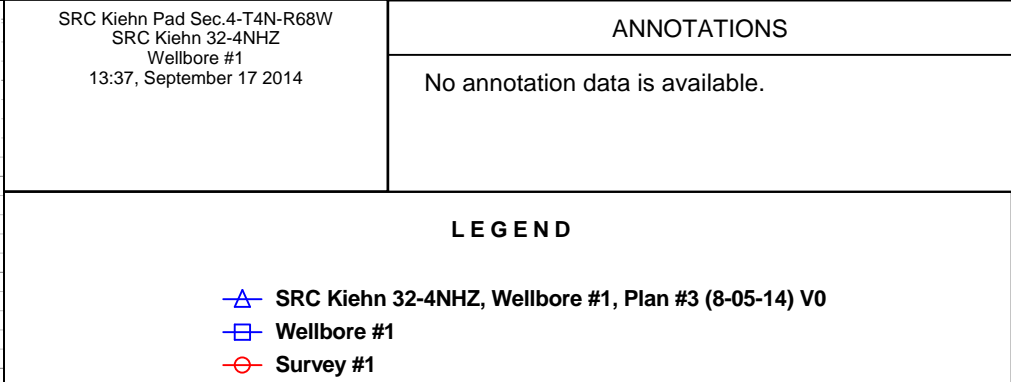


Synergy Resources

Well Name: SRC Kiehn 32-4NHZ					
Surface Location: SRC Kiehn Pad Sec.4-T4N-R68W					
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone					
Ground Elevation: 5064.0					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude Slot
0.0	0.0	1365560.77	3137931.67	40.335809	-105.005218
Ensign 131 RKB - 13.5' WELL @ 5077.5ft (Ensign 131 RKB - 13.5')					

FINAL SURVEY

Projected Bottom Hole Location
11329'MD 7063'TVD 4423'N & 276'W of SHL
91.1 degree Incl @ 354.7 degree AZM





Synergy Resources

SEC.4-T4N-R68W

SRC Kiehn Pad Sec.4-T4N-R68W

SRC Kiehn 32-4NHZ

Wellbore #1

Survey: Survey #1

Standard Survey Report

17 September, 2014

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kiehn 32-4NHZ
Project:	SEC.4-T4N-R68W	TVD Reference:	WELL @ 5077.5ft (Ensign 131 RKB - 13.5')
Site:	SRC Kiehn Pad Sec.4-T4N-R68W	MD Reference:	WELL @ 5077.5ft (Ensign 131 RKB - 13.5')
Well:	SRC Kiehn 32-4NHZ	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.4-T4N-R68W, Weld, CO		
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 Kiehn Pad Sec.4-T4N-R68W		
Site Position:		Northing:	1,365,561.75 ft
From:	Lat/Long	Easting:	3,137,974.04 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40.335811
		Longitude:	-105.005066
		Grid Convergence:	0.32 °

Well	SRC Kiehn 32-4NHZ		
Well Position	+N/-S	0.0 ft	Northing: 1,365,560.77 ft
	+E/-W	0.0 ft	Easting: 3,137,931.67 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	40.335809
		Longitude:	-105.005218
		Ground Level:	5,064.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/5/2014	8.56	66.85	52,740

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	356.52	

Survey Program	Date	9/17/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
110.0	11,329.0	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	
1.0	0.01	249.10	1.0	0.0	0.0	0.0	1.00	1.00	0.00	
SHL 201'FSL & 1761'FEL										
110.0	1.10	249.10	110.0	-0.4	-1.0	-0.3	1.00	1.00	0.00	
166.0	1.40	250.80	166.0	-0.8	-2.1	-0.7	0.54	0.54	3.04	
260.0	1.10	263.10	260.0	-1.3	-4.1	-1.0	0.43	-0.32	13.09	
356.0	1.10	244.80	355.9	-1.8	-5.9	-1.4	0.36	0.00	-19.06	
450.0	0.70	209.00	449.9	-2.7	-7.0	-2.2	0.71	-0.43	-38.09	
525.0	1.00	204.20	524.9	-3.7	-7.4	-3.2	0.41	0.40	-6.40	
623.0	1.80	260.10	622.9	-4.7	-9.3	-4.1	1.52	0.82	57.04	
728.0	1.80	196.50	727.9	-6.6	-11.4	-5.9	1.81	0.00	-60.57	
822.0	0.70	6.60	821.8	-7.4	-11.8	-6.7	2.65	-1.17	180.96	
915.0	1.00	333.60	914.8	-6.1	-12.1	-5.4	0.60	0.32	-35.48	

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kiehn 32-4NHZ
Project:	SEC.4-T4N-R68W	TVD Reference:	WELL @ 5077.5ft (Ensign 131 RKB - 13.5')
Site:	SRC Kiehn Pad Sec.4-T4N-R68W	MD Reference:	WELL @ 5077.5ft (Ensign 131 RKB - 13.5')
Well:	SRC Kiehn 32-4NHZ	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)
1,010.0	1.00	333.00	1,009.8	-4.6	-12.8	-3.9	0.01	0.00	-0.63
1,105.0	1.00	278.90	1,104.8	-3.8	-14.0	-2.9	0.96	0.00	-56.95
1,196.0	2.30	204.40	1,195.8	-5.3	-15.5	-4.4	2.47	1.43	-81.87
1,288.0	0.70	77.80	1,287.7	-6.9	-15.8	-5.9	3.02	-1.74	-137.61
1,381.0	1.00	2.40	1,380.7	-6.0	-15.2	-5.0	1.15	0.32	-81.08
1,473.0	2.10	325.00	1,472.7	-3.8	-16.1	-2.8	1.57	1.20	-40.65
1,564.0	0.10	1.50	1,563.7	-2.3	-17.0	-1.3	2.22	-2.20	40.11
1,657.0	1.00	91.70	1,656.7	-2.3	-16.2	-1.3	1.08	0.97	96.99
1,749.0	0.90	358.00	1,748.7	-1.6	-15.5	-0.6	1.51	-0.11	-101.85
1,841.0	0.80	56.40	1,840.7	-0.5	-14.9	0.4	0.91	-0.11	63.48
1,933.0	1.20	11.40	1,932.7	0.8	-14.2	1.7	0.92	0.43	-48.91
2,026.0	0.80	261.50	2,025.6	1.7	-14.7	2.6	1.78	-0.43	-118.17
2,119.0	1.10	108.80	2,118.6	1.3	-14.5	2.2	1.99	0.32	-164.19
2,211.0	1.30	223.00	2,210.6	0.2	-14.3	1.1	2.19	0.22	124.13
2,303.0	2.20	174.00	2,302.6	-2.3	-14.9	-1.4	1.81	0.98	-53.26
2,396.0	2.20	214.60	2,395.5	-5.5	-15.7	-4.6	1.64	0.00	43.66
2,488.0	1.60	194.40	2,487.5	-8.2	-17.0	-7.2	0.97	-0.65	-21.96
2,580.0	2.90	206.10	2,579.4	-11.6	-18.4	-10.4	1.49	1.41	12.72
2,672.0	2.50	204.70	2,671.3	-15.5	-20.2	-14.2	0.44	-0.43	-1.52
2,764.0	3.40	214.90	2,763.2	-19.5	-22.6	-18.1	1.13	0.98	11.09
2,856.0	4.70	196.60	2,855.0	-25.4	-25.3	-23.8	1.98	1.41	-19.89
2,945.0	4.70	168.30	2,943.7	-32.5	-25.6	-30.8	2.58	0.00	-31.80
3,034.0	3.80	149.50	3,032.4	-38.6	-23.3	-37.1	1.85	-1.01	-21.12
3,123.0	3.10	157.10	3,121.3	-43.3	-20.9	-42.0	0.94	-0.79	8.54
3,212.0	1.30	169.90	3,210.2	-46.5	-19.8	-45.2	2.08	-2.02	14.38
3,302.0	1.40	206.10	3,300.2	-48.5	-20.1	-47.2	0.94	0.11	40.22
3,391.0	3.10	176.40	3,389.1	-51.9	-20.4	-50.6	2.26	1.91	-33.37
3,480.0	2.70	191.00	3,478.0	-56.4	-20.7	-55.0	0.94	-0.45	16.40
3,569.0	4.00	176.80	3,566.8	-61.5	-20.9	-60.1	1.72	1.46	-15.96
3,659.0	3.90	183.10	3,656.6	-67.7	-20.9	-66.3	0.49	-0.11	7.00
3,748.0	4.00	176.60	3,745.4	-73.8	-20.9	-72.4	0.52	0.11	-7.30
3,837.0	4.00	162.90	3,834.2	-79.9	-19.8	-78.6	1.07	0.00	-15.39
3,926.0	4.00	146.40	3,923.0	-85.5	-17.1	-84.3	1.29	0.00	-18.54
4,016.0	3.30	153.90	4,012.8	-90.4	-14.3	-89.4	0.94	-0.78	8.33
4,105.0	4.20	142.70	4,101.6	-95.3	-11.2	-94.4	1.30	1.01	-12.58
4,193.0	4.00	126.90	4,189.4	-99.7	-6.7	-99.1	1.30	-0.23	-17.95
4,283.0	3.10	137.60	4,279.2	-103.4	-2.6	-103.0	1.24	-1.00	11.89
4,372.0	3.30	146.20	4,368.1	-107.3	0.5	-107.1	0.58	0.22	9.66
4,461.0	3.10	165.00	4,456.9	-111.7	2.5	-111.7	1.19	-0.22	21.12
4,550.0	4.60	162.00	4,545.7	-117.5	4.2	-117.5	1.70	1.69	-3.37
4,639.0	3.90	167.10	4,634.5	-123.8	6.0	-123.9	0.89	-0.79	5.73
4,728.0	3.50	165.00	4,723.3	-129.4	7.4	-129.6	0.47	-0.45	-2.36
4,817.0	4.40	139.20	4,812.1	-134.6	10.3	-135.0	2.21	1.01	-28.99
4,906.0	3.40	147.60	4,900.9	-139.4	14.0	-140.0	1.29	-1.12	9.44
4,995.0	4.60	145.80	4,989.7	-144.6	17.4	-145.4	1.36	1.35	-2.02
5,084.0	3.30	159.20	5,078.5	-149.9	20.3	-150.9	1.78	-1.46	15.06
5,174.0	3.90	169.80	5,168.3	-155.4	21.8	-156.4	0.99	0.67	11.78
5,263.0	3.80	165.70	5,257.1	-161.2	23.0	-162.3	0.33	-0.11	-4.61
5,352.0	3.30	186.10	5,345.9	-166.6	23.5	-167.7	1.52	-0.56	22.92
5,441.0	2.30	142.30	5,434.8	-170.6	24.3	-171.7	2.57	-1.12	-49.21
5,531.0	0.80	277.00	5,524.8	-171.9	24.8	-173.1	3.24	-1.67	149.67
5,620.0	1.00	310.90	5,613.8	-171.3	23.6	-172.4	0.63	0.22	38.09
5,709.0	1.80	339.90	5,702.8	-169.5	22.5	-170.6	1.17	0.90	32.58
5,799.0	1.10	340.40	5,792.7	-167.4	21.7	-168.4	0.78	-0.78	0.56

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kiehn 32-4NHZ
Project:	SEC.4-T4N-R68W	TVD Reference:	WELL @ 5077.5ft (Ensign 131 RKB - 13.5')
Site:	SRC Kiehn Pad Sec.4-T4N-R68W	MD Reference:	WELL @ 5077.5ft (Ensign 131 RKB - 13.5')
Well:	SRC Kiehn 32-4NHZ	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)
5,887.0	1.10	92.10	5,880.7	-166.6	22.3	-167.6	2.07	0.00	126.93
5,977.0	1.20	37.60	5,970.7	-165.9	23.7	-167.0	1.17	0.11	-60.56
6,066.0	1.80	6.80	6,059.7	-163.8	24.5	-164.9	1.11	0.67	-34.61
6,155.0	2.30	357.70	6,148.6	-160.6	24.6	-161.8	0.67	0.56	-10.22
6,244.0	2.00	337.40	6,237.6	-157.4	23.9	-158.5	0.91	-0.34	-22.81
6,333.0	5.50	354.10	6,326.4	-151.7	22.9	-152.8	4.08	3.93	18.76
6,422.0	10.00	358.20	6,414.5	-139.7	22.2	-140.8	5.09	5.06	4.61
6,511.0	13.80	10.80	6,501.6	-121.6	23.9	-122.8	5.15	4.27	14.16
6,600.0	20.10	14.40	6,586.7	-96.3	29.7	-97.9	7.17	7.08	4.04
6,689.0	28.10	10.10	6,667.9	-60.8	37.2	-62.9	9.20	8.99	-4.83
6,778.0	37.30	1.90	6,742.7	-13.1	41.8	-15.6	11.45	10.34	-9.21
6,867.0	47.80	0.30	6,808.2	47.0	42.9	44.3	11.86	11.80	-1.80
6,956.0	51.80	358.70	6,865.6	115.0	42.2	112.2	4.70	4.49	-1.80
7,045.0	55.30	357.50	6,918.5	186.5	39.9	183.8	4.08	3.93	-1.35
7,135.0	62.20	357.50	6,965.2	263.3	36.5	260.6	7.67	7.67	0.00
7,224.0	66.70	354.10	7,003.6	343.4	30.6	340.9	6.12	5.06	-3.82
7,313.0	68.70	353.40	7,037.3	425.2	21.6	423.1	2.36	2.25	-0.79
7,402.0	77.60	350.10	7,063.1	509.4	9.3	507.9	10.61	10.00	-3.71
7,479.0	89.00	351.20	7,072.1	584.8	-3.1	583.9	14.87	14.81	1.43
7,509.0	89.89	351.95	7,072.4	614.4	-7.4	613.7	3.89	2.98	2.50
7"									
7,563.0	91.50	353.30	7,071.7	668.0	-14.4	667.6	3.89	2.98	2.50
7,652.0	91.20	353.30	7,069.6	756.3	-24.8	756.4	0.34	-0.34	0.00
7,742.0	90.90	353.60	7,068.0	845.7	-35.0	846.3	0.47	-0.33	0.33
7,831.0	90.80	353.80	7,066.6	934.2	-44.8	935.2	0.25	-0.11	0.22
7,921.0	91.70	355.70	7,064.7	1,023.8	-53.0	1,025.1	2.34	1.00	2.11
8,010.0	91.60	357.00	7,062.1	1,112.6	-58.7	1,114.1	1.46	-0.11	1.46
8,099.0	91.20	356.60	7,059.9	1,201.4	-63.7	1,203.0	0.64	-0.45	-0.45
8,100.4	91.19	356.59	7,059.9	1,202.8	-63.7	1,204.5	1.16	-0.56	-1.01
WP #1 (32-4NHZ)									
8,188.0	90.70	355.70	7,058.5	1,290.2	-69.6	1,292.0	1.16	-0.56	-1.01
8,277.0	90.30	356.80	7,057.7	1,379.0	-75.4	1,381.0	1.32	-0.45	1.24
8,366.0	89.10	358.00	7,058.2	1,467.9	-79.5	1,470.0	1.91	-1.35	1.35
8,455.0	89.60	357.30	7,059.2	1,556.8	-83.1	1,559.0	0.97	0.56	-0.79
8,544.0	92.10	357.50	7,057.9	1,645.7	-87.2	1,648.0	2.82	2.81	0.22
8,634.0	92.10	357.00	7,054.6	1,735.5	-91.5	1,737.9	0.56	0.00	-0.56
8,723.0	92.10	356.10	7,051.3	1,824.3	-96.8	1,826.8	1.01	0.00	-1.01
8,812.0	91.20	356.30	7,048.7	1,913.1	-102.7	1,915.8	1.04	-1.01	0.22
8,901.0	88.20	355.20	7,049.2	2,001.8	-109.3	2,004.8	3.59	-3.37	-1.24
8,991.0	88.80	356.60	7,051.6	2,091.6	-115.8	2,094.7	1.69	0.67	1.56
9,079.0	89.20	356.40	7,053.1	2,179.4	-121.1	2,182.7	0.51	0.45	-0.23
9,169.0	88.80	357.00	7,054.7	2,269.2	-126.3	2,272.7	0.80	-0.44	0.67
9,258.0	89.50	355.60	7,056.0	2,358.0	-132.1	2,361.7	1.76	0.79	-1.57
9,347.0	91.40	356.60	7,055.3	2,446.8	-138.1	2,450.7	2.41	2.13	1.12
9,436.0	93.00	357.50	7,051.9	2,535.6	-142.7	2,539.6	2.06	1.80	1.01
9,525.0	91.30	356.40	7,048.5	2,624.4	-147.4	2,628.5	2.27	-1.91	-1.24
9,615.0	87.00	355.20	7,049.9	2,714.2	-154.0	2,718.5	4.96	-4.78	-1.33
9,704.0	87.10	355.00	7,054.4	2,802.7	-161.6	2,807.4	0.25	0.11	-0.22
9,793.0	88.50	356.10	7,057.9	2,891.4	-168.5	2,896.3	2.00	1.57	1.24
9,882.0	89.80	356.10	7,059.2	2,980.2	-174.5	2,985.3	1.46	1.46	0.00
9,971.0	88.90	358.00	7,060.2	3,069.0	-179.1	3,074.2	2.36	-1.01	2.13
10,060.0	90.60	358.20	7,060.6	3,158.0	-182.1	3,163.2	1.92	1.91	0.22
10,150.0	90.30	357.30	7,059.9	3,247.9	-185.6	3,253.2	1.05	-0.33	-1.00
10,238.0	91.00	356.30	7,058.9	3,335.8	-190.5	3,341.2	1.39	0.80	-1.14

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kiehn 32-4NHZ
Project:	SEC.4-T4N-R68W	TVD Reference:	WELL @ 5077.5ft (Ensign 131 RKB - 13.5')
Site:	SRC Kiehn Pad Sec.4-T4N-R68W	MD Reference:	WELL @ 5077.5ft (Ensign 131 RKB - 13.5')
Well:	SRC Kiehn 32-4NHZ	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)
10,328.0	89.40	356.30	7,058.6	3,425.6	-196.3	3,431.2	1.78	-1.78	0.00
10,417.0	88.90	355.60	7,059.9	3,514.3	-202.6	3,520.2	0.97	-0.56	-0.79
10,506.0	90.10	355.90	7,060.7	3,603.1	-209.2	3,609.1	1.39	1.35	0.34
10,595.0	89.30	355.60	7,061.1	3,691.8	-215.8	3,698.1	0.96	-0.90	-0.34
10,685.0	91.00	356.30	7,060.9	3,781.6	-222.2	3,788.1	2.04	1.89	0.78
10,774.0	90.70	356.30	7,059.6	3,870.4	-227.9	3,877.1	0.34	-0.34	0.00
10,863.0	89.90	356.10	7,059.1	3,959.2	-233.8	3,966.1	0.93	-0.90	-0.22
10,951.0	89.60	355.60	7,059.5	4,047.0	-240.2	4,054.1	0.66	-0.34	-0.57
11,040.0	89.30	354.30	7,060.3	4,135.6	-248.0	4,143.1	1.50	-0.34	-1.46
11,129.0	88.80	355.00	7,061.8	4,224.2	-256.3	4,232.0	0.97	-0.56	0.79
11,218.0	88.80	353.30	7,063.7	4,312.7	-265.4	4,320.9	1.91	0.00	-1.91
11,279.0	91.10	354.70	7,063.7	4,373.4	-271.7	4,381.8	4.41	3.77	2.30
11,329.0	91.10	354.70	7,062.8	4,423.2	-276.4	4,431.8	0.00	0.00	0.00
BHL 470'FNL & 1812'FEL									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,509.0	7,072.4	7"	7	7-1/2

Checked By: _____ Approved By: _____ Date: _____