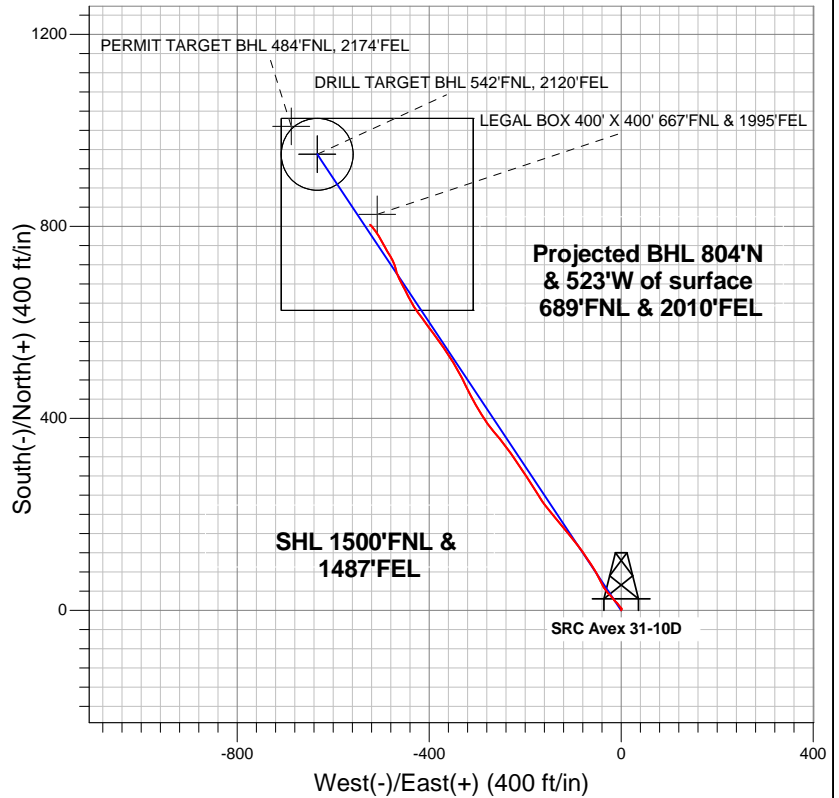


Synergy Resources



LEGEND

- ◆ SRC Avex 31-10D, Wellbore #1, Plan #1 (10-09-12)R V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
7873'MD & 7801'TVD @ 959'VS
1.40 deg Inc 316.60 deg AZ

Project: SEC.10-T4N-R68W
 Site: SRC Avex 42-10D Pad Sec.10-T4N-R68W
 Well: SRC Avex 31-10D
 Plan: Wellbore #1



Directional

Synergy Resources

SEC.10-T4N-R68W

SRC Avex 42-10D Pad Sec.10-T4N-R68W

SRC Avex 31-10D

Wellbore #1

Survey: Survey #1

Standard Survey Report

16 October, 2012

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Avex 31-10D
Project:	SEC.10-T4N-R68W	TVD Reference:	WELL @ 5051.0ft (Original Well Elev)
Site:	SRC Avex 42-10D Pad Sec.10-T4N-R68W	MD Reference:	WELL @ 5051.0ft (Original Well Elev)
Well:	SRC Avex 31-10D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.10-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 Avex 42-10D Pad Sec.10-T4N-R68W			
Site Position:		Northing:		1,363,966.99ft	
From:	Lat/Long	Easting:		Longitude:	
		3,143,626.35ft		-104.984824	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
0.0 ft		"		0.33 °	

Well	SRC Avex 31-10D					
Well Position	+N/-S	0.0 ft	Northing:	1,363,965.42 ft	Latitude:	40.331342
	+E/-W	0.0 ft	Easting:	3,143,546.34 ft	Longitude:	-104.985111
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,038.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/8/2012	8.80	66.91	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 (°)	
	8,100.0	0.0	0.0	326.32	

Survey Program		Date	10/16/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
47.0	7,873.0	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
47.0	0.70	11.40	47.0	0.3	0.1	0.2	1.49	1.49	0.00
138.0	0.70	21.60	138.0	1.3	0.4	0.9	0.14	0.00	11.21
229.0	0.80	24.50	229.0	2.4	0.8	1.6	0.12	0.11	3.19
316.0	0.50	342.10	316.0	3.4	1.0	2.2	0.63	-0.34	-48.74
433.0	1.60	315.20	433.0	5.0	-0.3	4.3	1.01	0.94	-22.99
568.0	1.70	318.20	567.9	7.8	-3.0	8.2	0.10	0.07	2.22
684.0	2.20	327.50	683.8	11.0	-5.3	12.1	0.51	0.43	8.02
812.0	2.20	317.10	811.7	14.9	-8.3	17.0	0.31	0.00	-8.13
940.0	2.50	313.60	939.6	18.6	-12.0	22.1	0.26	0.23	-2.73
1,069.0	3.80	323.50	1,068.4	24.0	-16.6	29.1	1.09	1.01	7.67
1,197.0	3.60	314.50	1,196.2	30.2	-22.0	37.3	0.48	-0.16	-7.03
1,325.0	4.70	319.90	1,323.8	37.0	-28.2	46.5	0.91	0.86	4.22

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Avex 31-10D
Project:	SEC.10-T4N-R68W	TVD Reference:	WELL @ 5051.0ft (Original Well Elev)
Site:	SRC Avex 42-10D Pad Sec.10-T4N-R68W	MD Reference:	WELL @ 5051.0ft (Original Well Elev)
Well:	SRC Avex 31-10D	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)
1,453.0	5.40	325.20	1,451.3	46.0	-35.1	57.7	0.66	0.55	4.14
1,582.0	5.60	334.50	1,579.7	56.6	-41.2	70.0	0.71	0.16	7.21
1,710.0	5.40	335.20	1,707.2	67.7	-46.4	82.1	0.16	-0.16	0.55
1,838.0	6.40	328.70	1,834.5	79.3	-52.7	95.2	0.94	0.78	-5.08
1,966.0	7.10	328.20	1,961.6	92.1	-60.6	110.2	0.55	0.55	-0.39
2,095.0	8.40	326.10	2,089.4	106.7	-70.0	127.6	1.03	1.01	-1.63
2,223.0	9.10	324.30	2,215.9	122.7	-81.1	147.1	0.59	0.55	-1.41
2,351.0	10.40	321.70	2,342.1	140.0	-94.2	168.7	1.07	1.02	-2.03
2,479.0	10.60	321.50	2,467.9	158.3	-108.7	192.0	0.16	0.16	-0.16
2,608.0	9.80	318.70	2,594.9	175.8	-123.3	214.7	0.73	-0.62	-2.17
2,736.0	10.10	322.10	2,721.0	192.8	-137.4	236.7	0.52	0.23	2.66
2,864.0	9.90	318.90	2,847.0	210.0	-151.5	258.8	0.46	-0.16	-2.50
2,992.0	9.70	328.40	2,973.2	227.5	-164.4	280.5	1.27	-0.16	7.42
3,121.0	9.70	326.60	3,100.3	245.8	-176.1	302.2	0.24	0.00	-1.40
3,249.0	9.80	328.40	3,226.5	264.1	-187.7	323.9	0.25	0.08	1.41
3,377.0	10.00	325.90	3,352.6	282.6	-199.7	345.9	0.37	0.16	-1.95
3,505.0	9.60	326.30	3,478.7	300.6	-211.8	367.6	0.32	-0.31	0.31
3,634.0	10.50	325.90	3,605.7	319.3	-224.4	390.2	0.70	0.70	-0.31
3,762.0	10.60	322.60	3,731.5	338.3	-238.1	413.6	0.48	0.08	-2.58
3,890.0	9.40	320.60	3,857.6	355.8	-251.9	435.7	0.98	-0.94	-1.56
4,018.0	9.50	320.50	3,983.9	372.0	-265.2	456.6	0.08	0.08	-0.08
4,147.0	9.80	324.20	4,111.0	389.1	-278.4	478.2	0.53	0.23	2.87
4,275.0	10.60	327.70	4,237.0	407.9	-291.1	500.8	0.79	0.63	2.73
4,403.0	10.30	331.40	4,362.9	427.9	-302.8	524.0	0.57	-0.23	2.89
4,531.0	9.40	331.20	4,489.0	447.1	-313.4	545.8	0.70	-0.70	-0.16
4,660.0	10.20	334.70	4,616.1	466.7	-323.3	567.6	0.77	0.62	2.71
4,788.0	9.80	332.20	4,742.2	486.5	-333.2	589.7	0.46	-0.31	-1.95
4,917.0	9.40	330.50	4,869.4	505.4	-343.5	611.1	0.38	-0.31	-1.32
5,045.0	10.00	327.90	4,995.5	523.9	-354.6	632.6	0.58	0.47	-2.03
5,173.0	9.70	326.10	5,121.7	542.3	-366.5	654.5	0.34	-0.23	-1.41
5,302.0	9.60	323.50	5,248.8	560.0	-379.0	676.1	0.35	-0.08	-2.02
5,430.0	8.70	324.20	5,375.2	576.4	-391.0	696.5	0.71	-0.70	0.55
5,559.0	8.60	323.30	5,502.7	592.0	-402.5	715.9	0.13	-0.08	-0.70
5,687.0	8.30	324.20	5,629.3	607.2	-413.6	734.6	0.26	-0.23	0.70
5,815.0	6.30	322.20	5,756.3	620.3	-423.3	750.9	1.57	-1.56	-1.56
5,944.0	6.50	327.90	5,884.5	632.0	-431.5	765.2	0.52	0.16	4.42
6,072.0	6.90	330.80	6,011.6	644.9	-439.1	780.2	0.41	0.31	2.27
6,201.0	7.00	336.80	6,139.7	658.9	-446.0	795.6	0.57	0.08	4.65
6,329.0	9.10	330.70	6,266.4	674.9	-454.0	813.4	1.77	1.64	-4.77
6,457.0	8.30	333.70	6,392.9	692.0	-463.1	832.6	0.72	-0.63	2.34
6,586.0	8.70	347.00	6,520.5	709.8	-469.4	851.0	1.55	0.31	10.31
6,714.0	7.10	334.40	6,647.3	726.4	-475.0	867.9	1.84	-1.25	-9.84
6,780.5	8.48	330.71	6,713.2	734.4	-479.2	876.8	2.21	2.08	-5.54
LEGAL BOX 400' X 400' 667'FNL & 1995'FEL									
6,806.1	9.02	329.60	6,738.5	737.8	-481.1	880.7	2.21	2.10	-4.37
TARGET CIRCLE 542'FNL & 2120'FEL									
6,843.0	9.80	328.20	6,774.9	742.9	-484.2	886.8	2.21	2.12	-3.78
6,971.0	7.70	332.10	6,901.4	759.8	-494.0	906.2	1.70	-1.64	3.05
7,099.0	5.50	330.80	7,028.6	772.7	-501.0	920.8	1.72	-1.72	-1.02
7,228.0	4.20	328.00	7,157.1	782.1	-506.5	931.7	1.02	-1.01	-2.17
7,356.0	3.30	322.40	7,284.8	789.0	-511.2	940.1	0.76	-0.70	-4.38
7,485.0	2.60	322.60	7,413.7	794.3	-515.3	946.7	0.54	-0.54	0.16
PERMIT TARGET BHL 484'FNL, 2174'FEL									
7,613.0	1.80	325.00	7,541.6	798.2	-518.2	951.6	0.63	-0.63	1.88

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Avex 31-10D
Project:	SEC.10-T4N-R68W	TVD Reference:	WELL @ 5051.0ft (Original Well Elev)
Site:	SRC Avex 42-10D Pad Sec.10-T4N-R68W	MD Reference:	WELL @ 5051.0ft (Original Well Elev)
Well:	SRC Avex 31-10D	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)	
7,741.0	1.60	316.10	7,669.5	801.2	-520.6	955.4	0.26	-0.16	-6.95	
7,828.0	1.40	316.60	7,756.5	802.8	-522.1	957.6	0.23	-0.23	0.57	
7,873.0	1.40	316.60	7,801.5	803.6	-522.9	958.7	0.00	0.00	0.00	
DRILL TARGET BHL 542'FNL, 2120'FEL										

Wellbore Targets										
Target Name										
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
- Shape										
TARGET CIRCLE 542	0.00	0.00	6,700.0	950.1	-633.2	1,364,911.78	3,142,907.67	40.333950	-104.987382	
- survey misses target center by 264.0ft at 6810.7ft MD (6743.0 TVD, 738.4 N, -481.5 E)										
- Circle (radius 75.0)										
LEGAL BOX 400' X 400'	0.00	0.00	6,700.0	825.1	-508.2	1,364,787.52	3,143,033.38	40.333607	-104.986934	
- survey misses target center by 96.2ft at 6781.6ft MD (6714.3 TVD, 734.5 N, -479.2 E)										
- Rectangle (sides W400.0 H400.0 D1,400.0)										
PERMIT TARGET BH	0.00	0.00	7,400.0	1,008.1	-687.2	1,364,969.43	3,142,853.31	40.334109	-104.987576	
- survey misses target center by 274.7ft at 7485.0ft MD (7413.7 TVD, 794.3 N, -515.3 E)										
- Point										
DRILL TARGET BHL	0.00	0.00	8,100.0	950.1	-633.2	1,364,911.79	3,142,907.66	40.333950	-104.987382	
- survey misses target center by 350.4ft at 7873.0ft MD (7801.5 TVD, 803.6 N, -522.9 E)										
- Point										

Checked By: _____	Approved By: _____	Date: _____
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