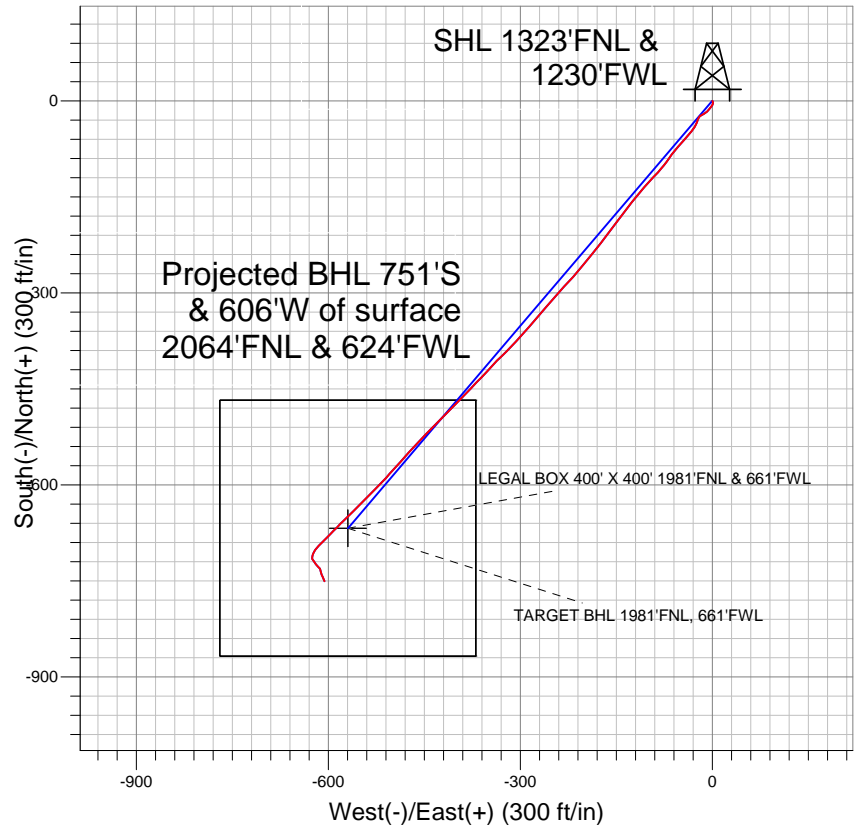


Synergy Resources



LEGEND

- ✚ Margil 12-34D, Wellbore #1, Plan #1 (5-23-11) V0
- ✚ Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
 8153'MD & 8047'TVD @ 964'VS
 1.2 deg Inc 162.4 deg AZ

Project: SEC.34-T4N-R68W
 Site: Margil 11-34D Pad Sec.34-T4N-R68W
 Well: Margil 12-34D
 Plan: Wellbore #1



Directional

Synergy Resources

SEC.34-T4N-R68W

Margil 11-34D Pad Sec.34-T4N-R68W

Margil 12-34D

Wellbore #1

Survey: Survey #1

Standard Survey Report

19 August, 2011

Company:	Synergy Resources	Local Co-ordinate Reference:	Well Margil 12-34D
Project:	SEC.34-T4N-R68W	TVD Reference:	WELL @ 5118.0ft (Original Well Elev)
Site:	Margil 11-34D Pad Sec.34-T4N-R68W	MD Reference:	WELL @ 5118.0ft (Original Well Elev)
Well:	Margil 12-34D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.34-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		Margil 11-34D Pad Sec.34-T4N-R68W			
Site Position:		Northing:	1,342,915.75ft	Latitude:	40.273599
From:	Lat/Long	Easting:	3,141,087.50ft	Longitude:	-104.994361
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.33 °

Well	Margil 12-34D					
Well Position	+N/-S	0.0 ft	Northing:	1,342,861.24 ft	Latitude:	40.273449
	+E/-W	0.0 ft	Easting:	3,141,113.20 ft	Longitude:	-104.994270
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,105.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/23/2011	8.98	66.91	53,044

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	220.45	

Survey Program	Date	8/19/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
155.0	8,153.0	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	
155.0	1.30	152.20	155.0	-1.6	0.8	0.7	0.84	0.84	0.00	
246.0	1.30	190.00	246.0	-3.5	1.1	1.9	0.93	0.00	41.54	
337.0	2.10	205.00	336.9	-6.0	0.2	4.4	1.00	0.88	16.48	
429.0	2.80	215.20	428.8	-9.4	-1.8	8.3	0.89	0.76	11.09	
520.0	3.50	218.70	519.7	-13.4	-4.8	13.3	0.80	0.77	3.85	
611.0	2.80	228.20	610.6	-17.0	-8.2	18.3	0.96	-0.77	10.44	
739.0	2.70	241.50	738.4	-20.5	-13.2	24.2	0.50	-0.08	10.39	
833.0	2.60	242.60	832.3	-22.6	-17.0	28.2	0.12	-0.11	1.17	
927.0	2.70	217.60	926.2	-25.3	-20.2	32.4	1.22	0.11	-26.60	
1,020.0	4.00	198.30	1,019.1	-30.1	-22.6	37.6	1.83	1.40	-20.75	
1,114.0	5.70	205.30	1,112.7	-37.5	-25.6	45.1	1.91	1.81	7.45	
1,208.0	6.20	218.20	1,206.2	-45.7	-30.8	54.7	1.51	0.53	13.72	

Company:	Synergy Resources	Local Co-ordinate Reference:	Well Margil 12-34D
Project:	SEC.34-T4N-R68W	TVD Reference:	WELL @ 5118.0ft (Original Well Elev)
Site:	Margil 11-34D Pad Sec.34-T4N-R68W	MD Reference:	WELL @ 5118.0ft (Original Well Elev)
Well:	Margil 12-34D	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)
1,301.0	7.20	221.10	1,298.6	-54.0	-37.7	65.6	1.13	1.08	3.12
1,395.0	9.10	222.20	1,391.6	-63.9	-46.6	78.9	2.03	2.02	1.17
1,489.0	10.60	219.70	1,484.2	-76.1	-57.1	94.9	1.66	1.60	-2.66
1,583.0	11.30	213.80	1,576.5	-90.4	-67.7	112.7	1.40	0.74	-6.28
1,676.0	13.70	220.60	1,667.3	-106.4	-80.0	132.8	3.02	2.58	7.31
1,770.0	16.00	223.60	1,758.2	-124.2	-96.1	156.9	2.58	2.45	3.19
1,864.0	15.30	220.80	1,848.7	-143.0	-113.2	182.2	1.10	-0.74	-2.98
1,958.0	15.40	218.20	1,939.3	-162.2	-129.0	207.1	0.74	0.11	-2.77
2,052.0	15.70	215.30	2,029.9	-182.3	-144.1	232.2	0.89	0.32	-3.09
2,146.0	14.90	216.90	2,120.6	-202.4	-158.7	257.0	0.96	-0.85	1.70
2,239.0	14.20	218.50	2,210.6	-220.9	-173.0	280.3	0.87	-0.75	1.72
2,333.0	14.20	219.40	2,301.7	-238.8	-187.5	303.3	0.23	0.00	0.96
2,427.0	14.40	219.40	2,392.8	-256.8	-202.2	326.6	0.21	0.21	0.00
2,521.0	15.10	220.60	2,483.7	-275.1	-217.6	350.5	0.81	0.74	1.28
2,614.0	16.20	222.00	2,573.3	-293.9	-234.1	375.6	1.25	1.18	1.51
2,708.0	15.10	222.00	2,663.8	-312.8	-251.1	400.9	1.17	-1.17	0.00
2,802.0	14.80	221.10	2,754.6	-330.9	-267.2	425.2	0.40	-0.32	-0.96
2,895.0	14.30	221.30	2,844.6	-348.5	-282.6	448.5	0.54	-0.54	0.22
2,989.0	14.30	219.60	2,935.7	-366.2	-297.6	471.7	0.45	0.00	-1.81
3,083.0	13.80	223.60	3,026.9	-383.2	-312.8	494.5	1.16	-0.53	4.26
3,176.0	13.50	227.80	3,117.3	-398.5	-328.5	516.4	1.11	-0.32	4.52
3,270.0	13.80	221.00	3,208.6	-414.4	-344.0	538.5	1.74	0.32	-7.23
3,364.0	15.20	225.20	3,299.6	-431.5	-360.1	562.0	1.86	1.49	4.47
3,458.0	16.70	222.70	3,390.0	-450.1	-378.0	587.7	1.75	1.60	-2.66
3,552.0	15.20	225.00	3,480.4	-468.8	-395.8	613.5	1.73	-1.60	2.45
3,645.0	15.80	224.00	3,570.0	-486.5	-413.2	638.3	0.71	0.65	-1.08
3,739.0	15.50	226.10	3,660.5	-504.4	-431.2	663.6	0.68	-0.32	2.23
3,833.0	17.60	223.10	3,750.6	-523.5	-449.9	690.3	2.41	2.23	-3.19
3,926.0	17.10	222.40	3,839.4	-543.9	-468.8	718.0	0.58	-0.54	-0.75
4,020.0	16.50	222.00	3,929.4	-564.0	-487.0	745.2	0.65	-0.64	-0.43
4,114.0	15.20	221.70	4,019.8	-583.1	-504.2	770.8	1.39	-1.38	-0.32
4,207.0	12.70	224.70	4,110.0	-599.5	-519.5	793.2	2.80	-2.69	3.23
4,301.0	10.80	224.30	4,202.1	-613.1	-532.9	812.3	2.02	-2.02	-0.43
4,395.0	10.00	224.50	4,294.5	-625.3	-544.8	829.2	0.85	-0.85	0.21
4,488.0	8.90	225.90	4,386.3	-636.0	-555.6	844.4	1.21	-1.18	1.51
4,582.0	7.90	225.40	4,479.3	-645.6	-565.4	858.1	1.07	-1.06	-0.53
4,676.0	6.50	225.50	4,572.5	-653.9	-573.8	869.9	1.49	-1.49	0.11
4,770.0	5.30	224.10	4,666.0	-660.7	-580.6	879.5	1.29	-1.28	-1.49
4,864.0	4.90	225.90	4,759.6	-666.6	-586.5	887.8	0.46	-0.43	1.91
4,958.0	4.50	224.70	4,853.3	-672.1	-592.0	895.5	0.44	-0.43	-1.28
5,052.0	3.80	224.80	4,947.1	-676.9	-596.8	902.3	0.74	-0.74	0.11
5,103.2	3.52	224.65	4,998.2	-679.2	-599.1	905.5	0.54	-0.54	-0.30
TARGET BHL 1981'FNL, 661'FWL									
5,145.0	3.30	224.50	5,039.9	-681.0	-600.8	908.0	0.54	-0.54	-0.35
5,239.0	2.70	223.40	5,133.8	-684.5	-604.2	912.9	0.64	-0.64	-1.17
5,333.0	2.40	225.20	5,227.7	-687.5	-607.2	917.1	0.33	-0.32	1.91
5,427.0	2.20	222.90	5,321.6	-690.2	-609.8	920.9	0.23	-0.21	-2.45
5,520.0	2.00	224.30	5,414.5	-692.7	-612.1	924.3	0.22	-0.22	1.51
5,614.0	1.80	226.10	5,508.5	-694.9	-614.3	927.4	0.22	-0.21	1.91
5,708.0	1.70	225.50	5,602.4	-696.9	-616.4	930.2	0.11	-0.11	-0.64
5,802.0	2.00	217.80	5,696.4	-699.2	-618.4	933.3	0.41	0.32	-8.19
5,896.0	2.10	212.70	5,790.3	-701.9	-620.3	936.6	0.22	0.11	-5.43
5,990.0	2.10	207.80	5,884.3	-704.9	-622.1	940.0	0.19	0.00	-5.21
6,084.0	2.00	204.10	5,978.2	-707.9	-623.5	943.2	0.18	-0.11	-3.94

Company:	Synergy Resources	Local Co-ordinate Reference:	Well Margil 12-34D
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Well:	Margil 12-34D	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)
6,178.0	1.90	197.10	6,072.2	-710.9	-624.7	946.3	0.27	-0.11	-7.45
6,271.0	1.90	180.20	6,165.1	-713.9	-625.1	948.8	0.60	0.00	-18.17
6,365.0	1.10	151.20	6,259.1	-716.3	-624.7	950.4	1.15	-0.85	-30.85
6,552.0	1.50	147.30	6,446.0	-719.9	-622.5	951.7	0.22	0.21	-2.09
6,739.0	1.80	142.70	6,632.9	-724.3	-619.4	953.0	0.18	0.16	-2.46
6,805.8	1.65	139.23	6,699.7	-725.9	-618.2	953.4	0.27	-0.22	-5.20
LEGAL BOX 400' X 400' 1981'FNL & 661'FWL									
6,927.0	1.40	131.10	6,820.9	-728.1	-615.9	953.7	0.27	-0.21	-6.70
7,115.0	0.90	142.00	7,008.8	-730.8	-613.3	954.0	0.29	-0.27	5.80
7,302.0	0.80	169.50	7,195.8	-733.3	-612.1	955.1	0.22	-0.05	14.71
7,489.0	1.10	173.90	7,382.8	-736.3	-611.7	957.2	0.16	0.16	2.35
7,676.0	1.50	156.50	7,569.7	-740.4	-610.5	959.5	0.30	0.21	-9.30
7,863.0	1.40	152.10	7,756.7	-744.6	-608.5	961.4	0.08	-0.05	-2.35
8,109.0	1.20	162.40	8,002.6	-749.7	-606.3	963.9	0.12	-0.08	4.19
8,153.0	1.20	162.40	8,046.6	-750.6	-606.0	964.4	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____