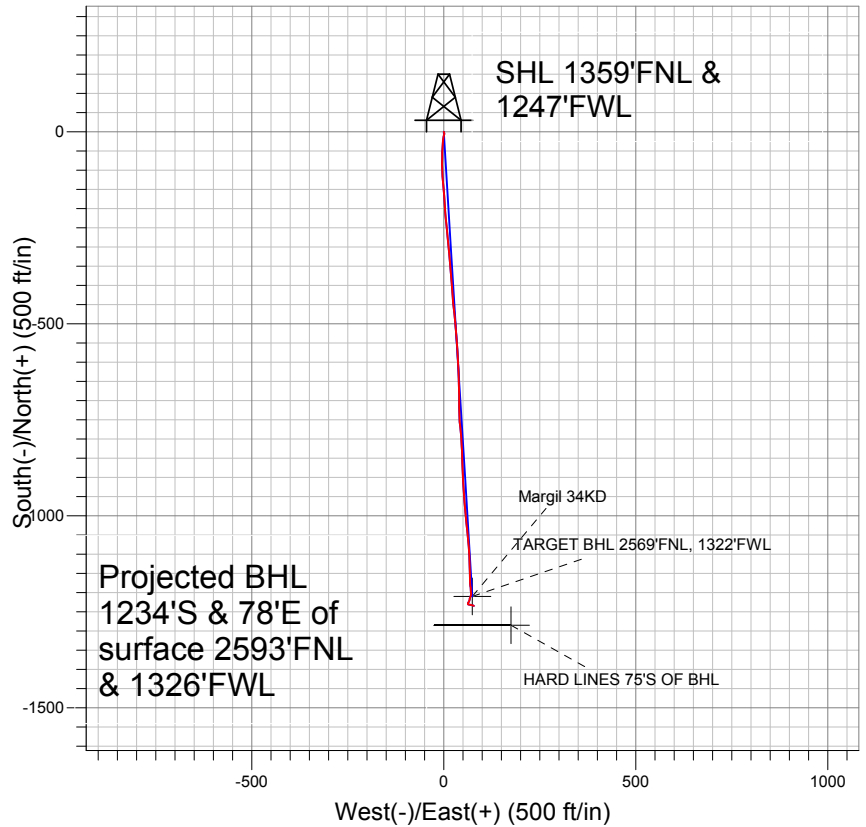


Synergy Resources



LEGEND

- ✕ Margil 34KD, Wellbore #1, Plan #1 (5-23-11) V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
 8183'MD & 8019'TVD @ 1237'VS
 1.7 deg Inc 109.3 deg AZ

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



Directional

Synergy Resources

SEC.34-T4N-R68W

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

Margil 34KD

Wellbore #1

Survey: Survey #1

Standard Survey Report

08 August, 2011

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 Wellbore	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	124.0	0.90	147.70	124.0	-0.8	0.5	0.9	0.73	0.73	0.00
	216.0	1.20	158.70	216.0	-2.3	1.3	2.4	0.39	0.33	11.96
	308.0	1.70	180.30	308.0	-4.6	1.6	4.7	0.80	0.54	23.48
	403.0	2.70	194.60	402.9	-8.2	1.0	8.2	1.19	1.05	15.05
	497.0	4.40	194.10	496.7	-13.8	-0.4	13.8	1.81	1.81	-0.53
	591.0	6.10	185.60	590.3	-22.3	-1.8	22.1	1.98	1.81	-9.04
	655.0	6.50	182.70	653.9	-29.3	-2.3	29.1	0.80	0.63	-4.53
	770.0	6.50	184.10	768.2	-42.3	-3.0	42.0	0.14	0.00	1.22
	864.0	7.60	183.00	861.5	-53.8	-3.8	53.5	1.18	1.17	-1.17
	958.0	9.50	180.60	954.4	-67.8	-4.2	67.4	2.06	2.02	-2.55
	1,052.0	10.50	180.90	1,047.0	-84.1	-4.4	83.6	1.07	1.06	0.32
	1,145.0	12.30	177.20	1,138.1	-102.4	-4.0	102.0	2.09	1.94	-3.98

Company:	Synergy Resources	Local Co-ordinate Reference:	Well Margil 34KD
Project:	SEC.34-T4N-R68W	TVD Reference:	WELL @ 5119.0ft (Original Well Elev)
Site:	Margil 11-34D Pad Sec.34-T4N-R68W	MD Reference:	WELL @ 5119.0ft (Original Well Elev)
Well:	Margil 34KD	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)
1,239.0	13.40	173.90	1,229.8	-123.3	-2.4	122.9	1.41	1.17	-3.51
1,333.0	14.30	176.60	1,321.1	-145.7	-0.5	145.4	1.18	0.96	2.87
1,427.0	16.00	176.10	1,411.8	-170.2	1.0	170.0	1.81	1.81	-0.53
1,520.0	17.60	176.00	1,500.8	-197.0	2.9	196.8	1.72	1.72	-0.11
1,614.0	16.70	174.10	1,590.6	-224.6	5.3	224.5	1.13	-0.96	-2.02
1,708.0	17.70	174.40	1,680.4	-252.3	8.1	252.3	1.07	1.06	0.32
1,801.0	16.50	175.30	1,769.3	-279.5	10.5	279.6	1.32	-1.29	0.97
1,895.0	17.70	174.60	1,859.2	-307.1	13.0	307.3	1.30	1.28	-0.74
1,989.0	17.30	174.50	1,948.8	-335.2	15.6	335.5	0.43	-0.43	-0.11
2,083.0	16.30	173.70	2,038.8	-362.2	18.4	362.7	1.09	-1.06	-0.85
2,177.0	16.80	177.50	2,128.9	-388.9	20.5	389.4	1.27	0.53	4.04
2,271.0	17.90	175.80	2,218.6	-416.9	22.1	417.5	1.29	1.17	-1.81
2,364.0	17.00	173.20	2,307.3	-444.6	24.8	445.3	1.28	-0.97	-2.80
2,458.0	17.70	174.70	2,397.1	-472.5	27.7	473.3	0.88	0.74	1.60
2,552.0	18.20	175.40	2,486.5	-501.4	30.2	502.3	0.58	0.53	0.74
2,646.0	18.00	175.30	2,575.8	-530.5	32.6	531.5	0.22	-0.21	-0.11
2,739.0	17.00	175.60	2,664.5	-558.4	34.8	559.4	1.08	-1.08	0.32
2,833.0	17.50	176.60	2,754.3	-586.2	36.7	587.3	0.62	0.53	1.06
2,926.0	16.70	176.90	2,843.2	-613.5	38.2	614.7	0.87	-0.86	0.32
3,020.0	16.10	178.50	2,933.4	-640.0	39.3	641.2	0.80	-0.64	1.70
3,114.0	16.30	179.40	3,023.6	-666.2	39.8	667.4	0.34	0.21	0.96
3,207.0	16.00	179.80	3,113.0	-692.1	40.0	693.2	0.34	-0.32	0.43
3,301.0	15.60	179.00	3,203.4	-717.7	40.2	718.8	0.48	-0.43	-0.85
3,395.0	15.60	177.60	3,294.0	-742.9	41.0	744.0	0.40	0.00	-1.49
3,489.0	16.30	173.70	3,384.3	-768.7	43.0	769.9	1.36	0.74	-4.15
3,583.0	15.90	176.00	3,474.7	-794.6	45.3	795.9	0.80	-0.43	2.45
3,677.0	15.40	177.20	3,565.2	-819.9	46.8	821.3	0.63	-0.53	1.28
3,770.0	16.60	178.20	3,654.6	-845.6	47.8	846.9	1.32	1.29	1.08
3,864.0	17.40	177.30	3,744.5	-873.0	48.9	874.4	0.90	0.85	-0.96
3,958.0	17.60	177.70	3,834.1	-901.3	50.2	902.6	0.25	0.21	0.43
4,051.0	17.90	176.60	3,922.7	-929.6	51.6	931.0	0.48	0.32	-1.18
4,145.0	17.30	175.80	4,012.3	-957.9	53.5	959.4	0.69	-0.64	-0.85
4,239.0	17.50	174.00	4,102.0	-985.9	56.0	987.5	0.61	0.21	-1.91
4,332.0	19.10	174.00	4,190.3	-1,015.0	59.0	1,016.7	1.72	1.72	0.00
4,426.0	17.50	174.50	4,279.5	-1,044.3	62.0	1,046.2	1.71	-1.70	0.53
4,520.0	16.60	174.90	4,369.4	-1,071.8	64.5	1,073.7	0.97	-0.96	0.43
4,613.0	14.20	177.10	4,459.0	-1,096.4	66.3	1,098.4	2.66	-2.58	2.37
4,708.0	13.10	177.70	4,551.4	-1,118.8	67.3	1,120.8	1.17	-1.16	0.63
4,802.0	12.00	178.90	4,643.1	-1,139.2	67.9	1,141.2	1.20	-1.17	1.28
4,896.0	11.50	180.30	4,735.1	-1,158.4	68.1	1,160.3	0.61	-0.53	1.49
4,989.0	8.80	174.10	4,826.7	-1,174.7	68.7	1,176.7	3.13	-2.90	-6.67
5,083.0	6.60	175.80	4,919.8	-1,187.2	69.9	1,189.3	2.35	-2.34	1.81
5,177.0	4.50	175.30	5,013.4	-1,196.3	70.6	1,198.4	2.23	-2.23	-0.53
5,270.0	2.90	171.50	5,106.2	-1,202.3	71.2	1,204.4	1.74	-1.72	-4.09
5,364.0	1.50	192.10	5,200.1	-1,205.8	71.3	1,207.9	1.69	-1.49	21.91
5,458.0	0.80	200.60	5,294.1	-1,207.6	70.8	1,209.7	0.76	-0.74	9.04
5,552.0	0.90	207.50	5,388.1	-1,208.9	70.2	1,210.9	0.15	0.11	7.34
5,663.9	1.25	201.18	5,499.9	-1,210.8	69.4	1,212.8	0.33	0.32	-5.65
TARGET BHL 2569'FNL, 1322'FWL									
5,740.0	1.50	198.60	5,576.0	-1,212.6	68.8	1,214.5	0.33	0.32	-3.39
5,927.0	0.20	260.30	5,763.0	-1,214.9	67.7	1,216.8	0.76	-0.70	32.99
6,115.0	0.50	176.30	5,951.0	-1,215.8	67.4	1,217.6	0.28	0.16	-44.68
6,303.0	0.50	179.70	6,139.0	-1,217.4	67.5	1,219.3	0.02	0.00	1.81
6,490.0	0.30	180.80	6,326.0	-1,218.7	67.5	1,220.6	0.11	-0.11	0.59

Company:	Synergy Resources	Local Co-ordinate Reference:	Well Margil 34KD
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6,677.0	0.60	195.00	6,513.0	-1,220.2	67.2	1,222.0	0.17	0.16	7.59
6,865.0	0.40	200.60	6,701.0	-1,221.7	66.7	1,223.5	0.11	-0.11	2.98
7,052.0	0.70	210.20	6,888.0	-1,223.3	65.9	1,225.1	0.17	0.16	5.13
7,240.0	0.80	211.60	7,076.0	-1,225.5	64.6	1,227.1	0.05	0.05	0.74
7,427.0	0.70	217.50	7,262.9	-1,227.5	63.3	1,229.0	0.07	-0.05	3.16
7,614.0	0.90	167.70	7,449.9	-1,229.8	62.9	1,231.4	0.37	0.11	-26.63
7,801.0	1.80	97.20	7,636.9	-1,231.6	66.1	1,233.3	0.92	0.48	-37.70
7,987.9	2.10	101.00	7,823.7	-1,232.6	72.4	1,234.8	0.17	0.16	2.03
HARD LINES 75'S OF BHL									
7,988.0	2.10	101.00	7,823.8	-1,232.6	72.4	1,234.8	0.17	0.16	1.74
8,137.0	1.70	109.30	7,972.7	-1,233.9	77.2	1,236.3	0.33	-0.27	5.57
8,183.0	1.70	109.30	8,018.7	-1,234.3	78.4	1,236.8	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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