



SDI  
Survey Report



<b>Company:</b> Stone Energy	<b>Local Co-ordinate Reference:</b>	Well Weekley et al Unit 1 #4H - Slot W#4H
<b>Project:</b> Mary Prospect	<b>TVD Reference:</b>	Saxon 141 @ 745.0usft (18' DF + 727' GL)
<b>Site:</b> Weekley Pad(Complete)	<b>MD Reference:</b>	Saxon 141 @ 745.0usft (18' DF + 727' GL)
<b>Well:</b> Weekley et al Unit 1 #4H	<b>North Reference:</b>	Grid
<b>Wellbore:</b> Original Well	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b> As Drilled	<b>Database:</b>	EDM-Chris Testa

<b>Project</b>	Mary Prospect, West Virginia		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	West Virginia North 4701		

<b>Site</b>	Weekley Pad(Complete)				
<b>Site Position:</b>	<b>Northing:</b>	400,129.69 usft	<b>Latitude:</b>	39° 35' 29.589 N	
<b>From:</b> Map	<b>Easting:</b>	1,639,770.43 usft	<b>Longitude:</b>	80° 46' 41.837 W	
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	-0.82 °

<b>Well</b>	Weekley et al Unit 1 #4H - Slot W#4H					
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	400,158.80 usft	<b>Latitude:</b>	39° 35' 29.876 N
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	1,639,766.40 usft	<b>Longitude:</b>	80° 46' 41.893 W
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	727.0 usft	

<b>Wellbore</b>	Original Well				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	03/01/12	-8.45	67.26	52,731

<b>Design</b>	As Drilled				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	328.55	

<b>Survey Program</b>	<b>Date</b>	04/27/12			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
99.0	5,361.6	SDI Keeper Gyro (Original Well)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
5,388.0	12,350.0	SDI MWD (Original Well)	MWD SDI	MWD - Standard ver 1.0.1	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
100.0	0.58	213.77	100.0	-0.4	-0.3	-0.2	0.00	0.00	0.00
200.0	0.65	171.24	200.0	-1.4	-0.5	-0.9	0.45	-0.07	27.31
300.0	0.52	154.43	300.0	-2.4	-0.2	-1.9	0.21	-0.13	-16.81
400.0	0.71	167.59	400.0	-3.4	0.1	-3.0	0.23	0.19	13.16
500.0	0.40	169.58	500.0	-4.3	0.3	-3.9	0.31	0.31	1.99
600.0	0.33	174.31	600.0	-5.0	0.4	-4.5	0.08	-0.07	4.73
700.0	0.13	201.62	700.0	-5.3	0.4	-4.8	0.22	-0.20	27.31
800.0	0.84	116.47	800.0	-5.8	1.0	-5.5	0.84	0.77	-85.15
900.0	2.94	86.95	899.9	-6.0	4.2	-7.3	2.25	2.11	19.71
1,000.0	4.37	74.82	999.7	-4.8	10.5	-9.6	1.61	1.42	-12.13

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Oct 31 2013  
WV Department of Environmental Protection  
01/10/2014

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Site:	Weekley Pad(Complete)	MD Reference:	Saxon 141 @ 745.0usft (18' DF + 727' GL)
Well:	Weekley et al Unit 1 #4H	North Reference:	Grid
Wellbore:	Original Well	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM-Chris Testa

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,100.0	6.11	67.56	1,099.3	-1.8	19.1	-11.5	1.86	1.74	-7.26
1,200.0	7.44	56.06	1,198.6	3.8	29.4	-12.1	1.89	1.32	-11.50
1,300.0	9.09	50.70	1,297.5	12.4	40.8	-10.7	1.82	1.65	-5.37
1,400.0	9.26	43.53	1,396.3	23.3	52.5	-7.6	1.15	0.16	-7.17
1,500.0	11.23	26.96	1,494.7	37.8	62.5	-0.3	3.53	1.98	-16.57
1,600.0	11.82	19.13	1,592.7	56.2	70.2	11.3	1.67	0.59	-7.83
1,700.0	12.01	15.11	1,690.5	75.9	76.3	24.9	0.85	0.18	-4.02
1,800.0	12.55	13.05	1,788.2	96.5	81.5	39.8	0.70	0.55	-2.06
1,900.0	12.95	11.80	1,885.8	118.1	86.2	55.7	0.48	0.39	-1.25
2,000.0	13.73	3.10	1,983.1	140.9	89.2	73.7	2.15	0.78	-8.70
2,100.0	14.41	355.38	2,080.1	165.1	88.8	94.5	2.00	0.69	-7.72
2,200.0	15.59	353.35	2,176.7	190.9	86.2	117.9	1.29	1.18	-2.03
2,300.0	14.77	353.03	2,273.2	216.9	83.1	141.7	0.82	-0.82	-0.32
2,400.0	12.25	354.97	2,370.4	240.1	80.6	162.8	2.57	-2.53	1.95
2,500.0	10.16	1.17	2,468.5	259.5	79.9	179.7	2.41	-2.09	6.20
2,600.0	7.82	3.58	2,567.3	275.1	80.5	192.7	2.36	-2.33	2.41
2,700.0	5.32	0.21	2,666.6	286.6	80.9	202.3	2.53	-2.50	-3.36
2,800.0	2.76	1.14	2,766.3	293.6	81.0	208.2	2.57	-2.57	0.93
2,900.0	1.51	7.30	2,866.3	297.3	81.2	211.3	1.27	-1.25	6.15
3,000.0	0.66	59.05	2,966.3	298.9	81.9	212.3	1.22	-0.85	51.75
3,100.0	0.66	75.29	3,066.3	299.4	82.9	212.1	0.19	0.00	16.24
3,200.0	0.47	271.39	3,166.3	299.5	83.1	212.2	1.12	-0.19	-163.90
3,300.0	0.50	256.05	3,266.2	299.4	82.2	212.5	0.13	0.03	-15.34
3,400.0	0.46	221.95	3,366.2	299.0	81.5	212.5	0.28	-0.04	-34.10
3,500.0	0.66	223.61	3,466.2	298.3	80.9	212.3	0.20	0.20	1.66
3,600.0	0.56	217.58	3,566.2	297.5	80.2	212.0	0.12	-0.10	-6.03
3,700.0	0.72	209.06	3,666.2	296.6	79.6	211.5	0.19	0.16	-8.52
3,800.0	1.12	212.61	3,766.2	295.2	78.7	210.7	0.40	0.40	3.54
3,900.0	1.17	226.81	3,866.2	293.6	77.5	210.1	0.29	0.05	14.20
4,000.0	1.03	259.81	3,966.2	292.8	75.8	210.2	0.64	-0.14	33.00
4,100.0	0.46	21.93	4,066.2	293.0	75.1	210.8	1.33	-0.57	122.12
4,200.0	0.42	22.95	4,166.2	293.7	75.4	211.2	0.05	-0.04	1.02
4,300.0	0.08	131.00	4,266.2	294.0	75.6	211.4	0.45	-0.33	108.05
4,400.0	0.41	173.92	4,366.2	293.6	75.7	211.0	0.36	0.33	42.92
4,500.0	0.64	174.61	4,466.2	292.7	75.8	210.1	0.23	0.23	0.69
4,600.0	0.80	191.48	4,566.2	291.4	75.7	209.1	0.26	-0.16	16.87
4,700.0	0.86	181.36	4,666.1	290.0	75.5	208.0	0.16	0.06	10.12
4,800.0	0.31	296.44	4,766.1	289.4	75.3	207.6	1.03	-0.55	115.08
4,900.0	0.30	301.58	4,866.1	289.6	74.8	208.1	0.03	-0.01	5.14
5,000.0	0.28	268.65	4,966.1	289.8	74.3	208.4	0.17	0.02	32.93
5,100.0	0.17	306.01	5,066.1	289.8	74.0	208.7	0.18	-0.11	37.36
5,200.0	0.84	12.30	5,166.1	290.7	74.0	209.3	0.79	0.67	66.29
5,300.0	0.69	17.29	5,266.1	291.9	74.4	210.3	0.17	-0.15	32.93

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<b>Design:</b>	As Drilled	<b>Database:</b>	EDM-Chris Testa

**Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	1.21	296.69	5,366.1	292.9	73.8	211.4	1.29	0.53	-80.60
5,500.0	2.68	294.43	5,466.1	294.2	70.7	214.1	1.46	1.46	-2.25
5,600.0	3.19	299.13	5,565.9	296.7	65.9	218.8	0.57	0.51	4.70
5,700.0	3.84	302.46	5,665.8	299.5	61.1	223.6	0.68	0.65	3.33
5,800.0	5.39	303.44	5,765.4	303.9	54.4	230.9	1.55	1.55	0.98
5,900.0	8.04	302.72	5,864.8	310.1	44.8	241.2	2.64	2.64	-0.72
6,000.0	10.85	304.85	5,963.4	319.2	31.1	256.1	2.84	2.82	2.13
6,100.0	17.98	319.84	6,060.3	335.7	13.5	279.3	7.99	7.13	14.99
6,200.0	28.02	325.01	6,152.4	366.8	-9.4	317.8	10.23	10.04	5.17
6,300.0	39.98	327.24	6,235.5	412.8	-40.3	373.2	12.02	11.96	2.23
6,400.0	50.87	327.54	6,304.4	473.5	-79.3	445.4	10.89	10.89	0.30
6,500.0	60.30	326.51	6,361.1	542.5	-124.1	527.5	9.47	9.43	-1.03
6,600.0	67.11	327.42	6,405.9	617.1	-173.2	616.8	6.86	6.81	0.91
6,700.0	78.58	327.66	6,435.8	697.6	-224.2	712.1	11.47	11.46	0.24
6,800.0	87.17	326.07	6,446.4	780.9	-278.2	811.4	8.74	8.59	-1.59
6,900.0	88.79	325.56	6,449.9	863.3	-334.8	911.1	1.70	1.62	-0.50
7,000.0	91.52	323.61	6,449.6	945.3	-392.0	1,011.0	3.35	2.73	-1.95
7,100.0	91.80	320.85	6,446.3	1,024.1	-453.4	1,110.2	2.78	0.28	-2.76
7,200.0	91.50	320.45	6,443.5	1,101.1	-517.2	1,209.2	0.50	-0.30	-0.40
7,300.0	90.94	321.40	6,441.7	1,178.7	-580.3	1,308.3	1.10	-0.55	0.95
7,400.0	90.42	323.48	6,440.5	1,258.0	-641.2	1,407.7	2.15	-0.53	2.09
7,500.0	90.25	324.25	6,439.6	1,338.6	-700.3	1,507.3	0.78	-0.17	0.77
7,600.0	89.46	324.60	6,439.8	1,420.1	-758.3	1,607.1	0.87	-0.79	0.35
7,700.0	89.08	324.34	6,441.4	1,501.3	-816.5	1,706.8	0.45	-0.37	-0.25
7,800.0	89.80	325.01	6,442.4	1,582.8	-874.5	1,806.6	0.97	0.71	0.66
7,900.0	89.84	327.07	6,442.6	1,665.7	-930.5	1,906.5	2.07	0.04	2.07
8,000.0	90.95	327.12	6,441.5	1,749.9	-984.4	2,006.4	1.11	1.11	0.05
8,100.0	88.55	326.49	6,441.7	1,833.4	-1,039.3	2,106.4	2.48	-2.40	-0.63
8,200.0	88.06	327.01	6,444.9	1,917.1	-1,094.1	2,206.3	0.71	-0.49	0.52
8,300.0	88.42	326.77	6,448.1	2,000.8	-1,148.7	2,306.2	0.44	0.37	-0.24
8,400.0	89.15	327.02	6,450.2	2,084.5	-1,203.3	2,406.1	0.76	0.72	0.26
8,500.0	89.73	325.91	6,451.2	2,168.0	-1,258.3	2,506.0	1.26	0.58	-1.12
8,600.0	89.70	325.72	6,451.6	2,250.5	-1,314.9	2,605.9	0.18	-0.03	-0.18
8,700.0	89.20	326.04	6,452.2	2,333.2	-1,371.1	2,705.8	0.60	-0.50	0.32
8,800.0	88.75	326.30	6,454.1	2,416.3	-1,426.7	2,805.7	0.52	-0.46	0.26
8,900.0	88.80	326.79	6,456.5	2,499.6	-1,481.9	2,905.6	0.50	0.06	0.49
9,000.0	88.78	327.85	6,458.7	2,583.6	-1,536.2	3,005.5	1.06	0.02	1.06
9,100.0	89.73	328.07	6,460.1	2,668.8	-1,588.5	3,105.5	0.98	0.95	0.21
9,200.0	89.95	328.65	6,460.4	2,753.9	-1,640.9	3,205.5	0.63	0.22	0.59
9,300.0	90.25	328.85	6,460.2	2,839.4	-1,692.8	3,305.5	0.36	0.30	0.19
9,400.0	90.70	329.22	6,459.3	2,925.4	-1,743.9	3,405.5	0.59	0.45	0.38
9,500.0	88.29	327.62	6,459.9	3,010.5	-1,796.3	3,505.5	2.89	-2.41	-1.60
9,600.0	88.39	327.18	6,463.7	3,094.8	-1,850.0	3,605.4	0.45	0.11	0.44

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9,700.0	90.31	326.60	6,464.8	3,178.4	-1,904.8	3,705.3	2.00	1.92	-0.58
9,800.0	91.18	327.21	6,463.2	3,262.1	-1,959.5	3,805.3	1.06	0.87	0.61
9,900.0	90.02	326.93	6,462.5	3,346.1	-2,013.7	3,905.3	1.20	-1.16	-0.28
10,000.0	89.29	327.34	6,463.0	3,430.0	-2,068.2	4,005.2	0.84	-0.73	0.41
10,100.0	89.21	328.33	6,464.2	3,514.6	-2,121.6	4,105.2	0.99	-0.08	0.99
10,200.0	90.25	327.95	6,464.7	3,599.6	-2,174.3	4,205.2	1.11	1.04	-0.38
10,300.0	89.91	328.48	6,464.4	3,684.5	-2,227.0	4,305.2	0.63	-0.33	0.53
10,400.0	91.16	328.26	6,463.2	3,769.7	-2,279.3	4,405.2	1.26	1.24	-0.23
10,500.0	90.37	327.82	6,461.7	3,854.5	-2,332.3	4,505.2	0.90	-0.79	-0.44
10,600.0	90.04	327.38	6,461.0	3,938.8	-2,386.2	4,605.1	0.55	-0.33	-0.44
10,700.0	90.64	326.66	6,460.8	4,022.8	-2,440.4	4,705.1	0.93	0.60	-0.72
10,800.0	90.77	326.52	6,459.2	4,106.2	-2,495.6	4,805.0	0.19	0.13	-0.14
10,900.0	90.62	325.82	6,457.9	4,189.3	-2,551.2	4,904.9	0.72	-0.15	-0.70
11,000.0	90.93	325.21	6,457.1	4,271.7	-2,607.8	5,004.8	0.68	0.31	-0.60
11,100.0	92.10	325.45	6,454.2	4,353.8	-2,664.8	5,104.6	1.19	1.17	0.23
11,200.0	91.58	325.94	6,450.8	4,436.4	-2,721.0	5,204.4	0.71	-0.52	0.49
11,300.0	92.38	328.30	6,447.3	4,520.6	-2,774.9	5,304.3	2.50	0.80	2.37
11,400.0	91.52	330.58	6,443.4	4,606.5	-2,825.9	5,404.2	2.43	-0.86	2.27
11,500.0	89.00	331.57	6,443.3	4,694.2	-2,873.9	5,504.1	2.71	-2.52	1.00
11,600.0	89.94	331.14	6,444.4	4,782.0	-2,921.8	5,604.0	1.03	0.94	-0.43
11,700.0	89.52	331.03	6,444.5	4,869.5	-2,970.2	5,703.9	0.43	-0.42	-0.11
11,800.0	89.39	330.18	6,445.2	4,956.8	-3,019.0	5,803.8	0.86	-0.12	-0.85
11,900.0	90.10	329.15	6,446.2	5,042.9	-3,069.7	5,903.8	1.25	0.71	-1.03
12,000.0	90.64	327.63	6,445.4	5,128.2	-3,121.9	6,003.8	1.62	0.54	-1.52
12,100.0	91.47	326.98	6,443.6	5,212.2	-3,176.1	6,103.7	1.05	0.83	-0.65
12,200.0	90.95	327.54	6,441.4	5,296.0	-3,230.7	6,203.6	0.77	-0.53	0.56
12,300.0	92.04	327.11	6,438.7	5,380.2	-3,284.5	6,303.6	1.17	1.09	-0.43
12,350.0	92.04	327.11	6,437.0	5,422.2	-3,311.7	6,353.5	0.00	0.00	0.00

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

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