

Company: Stone Energy	Local Co-ordinate Reference: Well Weekley et al Unit 1 #8H - Slot W#8HST02
Project: Mary Prospect	TVD Reference: Saxon 141 @ 745.0usft (18' DF + 727' GL)
Site: Weekley Pad	MD Reference: Saxon 141 @ 745.0usft (18' DF + 727' GL)
Well: Weekley et al Unit 1 #8H	North Reference: Grid
Wellbore: ST02	Survey Calculation Method: Minimum Curvature
Design: ST02 As Drilled	Database: EDM-Chris Testa

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

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

Well Weekley et al Unit 1 #8H - Slot W#8HST02					
Well Position +N/-S 0.0 usft	Northing: 400,171.63 usft	Latitude: 39° 35' 30.000 N			
+E/-W 0.0 usft	Easting: 1,639,751.04 usft	Longitude: 80° 46' 42.092 W			
Position Uncertainty 0.0 usft	Wellhead Elevation: usft	Ground Level: 727.0 usft			

Wellbore ST02					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	03/21/12	-8.46	67.26	52,730

Design ST02 As Drilled					
Audit Notes:					
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.0			
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	337.85	

Survey Program Date 04/13/12					
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	4,364.0	SDI Keeper Gyro (ST02)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
4,439.0	11,509.0	SDI MWD (ST02)	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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.56	232.37	100.0	-0.3	-0.4	-0.1	0.56	0.56	0.00
200.0	0.42	194.31	200.0	-1.0	-0.9	-0.6	0.35	-0.14	-38.06
300.0	0.38	193.32	300.0	-1.6	-1.0	-1.1	0.04	-0.04	-0.99
400.0	0.20	181.81	400.0	-2.1	-1.1	-1.6	0.19	-0.18	-11.51
500.0	0.16	187.81	500.0	-2.4	-1.1	-1.8	0.04	-0.04	6.00
600.0	0.16	216.24	600.0	-2.7	-1.2	-2.0	0.08	0.00	28.43
700.0	0.28	213.20	700.0	-3.0	-1.5	-2.2	0.12	0.12	-3.04
800.0	0.32	218.19	800.0	-3.4	-1.8	-2.5	0.05	0.04	4.99
900.0	0.33	158.49	900.0	-3.9	-1.8	-2.9	0.32	0.01	-39.70

01/10/2014

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Site:	Weekley Pad	MD Reference:	Saxon 141 @ 745.0usft (18' DF + 727' GL)
Well:	Weekley et al Unit 1 #8H	North Reference:	Grid
Wellbore:	ST02	Survey Calculation Method:	Minimum Curvature
Design:	ST02 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)
1,000.0	0.19	185.77	1,000.0	-4.4	-1.7	-3.4	0.18	-0.14	27.28
1,100.0	0.48	180.83	1,100.0	-4.9	-1.8	-3.9	0.29	0.29	-4.94
1,200.0	0.58	208.99	1,200.0	-5.8	-2.0	-4.6	0.28	0.10	28.16
1,300.0	0.53	212.76	1,300.0	-6.6	-2.5	-5.2	0.06	-0.05	3.77
1,400.0	0.44	223.05	1,400.0	-7.3	-3.0	-5.6	0.12	-0.09	10.29
1,500.0	0.53	202.92	1,500.0	-8.0	-3.5	-6.1	0.19	0.09	-20.13
1,600.0	0.64	201.72	1,600.0	-8.9	-3.9	-6.8	0.11	0.11	-1.20
1,700.0	0.94	197.89	1,700.0	-10.2	-4.3	-7.9	0.30	0.30	-3.83
1,800.0	1.18	209.21	1,799.9	-11.9	-5.1	-9.1	0.32	0.24	11.32
1,900.0	1.17	204.11	1,899.9	-13.8	-6.0	-10.5	0.11	-0.01	-5.10
2,000.0	0.92	187.44	1,999.9	-15.5	-6.5	-11.9	0.39	-0.25	-16.67
2,100.0	0.97	154.90	2,099.9	-17.0	-6.3	-13.4	0.53	0.05	-32.54
2,200.0	2.64	127.32	2,199.9	-19.3	-5.1	-15.9	1.84	1.67	-27.58
2,300.0	6.75	85.60	2,299.5	-20.5	3.1	-20.1	5.09	4.11	-41.71
2,400.0	8.18	63.53	2,398.5	-16.9	16.3	-21.8	3.18	1.42	-22.08
2,500.0	7.93	52.32	2,497.5	-8.9	28.0	-18.8	1.59	-0.25	-11.21
2,600.0	7.35	59.99	2,596.6	-1.5	38.9	-16.0	1.17	-0.58	7.68
2,700.0	6.68	56.15	2,695.9	4.8	49.4	-14.2	0.82	-0.68	-3.85
2,800.0	7.41	57.52	2,795.1	11.5	59.6	-11.8	0.76	0.74	1.37
2,900.0	7.30	54.42	2,894.3	18.7	70.5	-9.2	0.41	-0.11	-3.10
3,000.0	8.29	51.70	2,993.3	26.7	81.5	-6.0	1.06	0.99	-2.72
3,100.0	9.21	46.05	3,092.2	36.8	92.9	-0.9	1.26	0.92	-5.66
3,200.0	9.52	43.09	3,190.8	48.4	104.2	5.5	0.57	0.30	-2.95
3,300.0	10.83	41.00	3,289.3	61.6	116.0	13.3	1.37	1.31	-2.10
3,400.0	10.64	41.68	3,387.5	75.7	128.4	21.7	0.23	-0.19	0.68
3,500.0	11.23	40.59	3,485.7	89.9	140.9	30.2	0.62	0.59	-1.09
3,600.0	12.11	38.81	3,583.6	105.4	153.8	39.7	0.95	0.88	-1.78
3,700.0	12.86	37.25	3,681.3	122.3	167.1	50.3	0.82	0.75	-1.56
3,800.0	14.04	34.73	3,778.6	141.1	180.7	62.6	1.32	1.18	-2.53
3,900.0	15.66	33.28	3,875.2	162.3	194.9	76.8	1.66	1.62	-1.44
4,000.0	16.83	30.97	3,971.2	186.0	209.9	93.2	1.34	1.17	-2.32
4,100.0	18.00	28.65	4,066.6	212.0	224.8	111.6	1.36	1.17	-2.31
4,200.0	19.27	28.72	4,161.3	240.3	239.9	132.1	1.27	1.27	0.07
4,300.0	19.50	30.62	4,255.6	269.1	256.6	152.6	0.67	0.23	1.90
4,400.0	19.62	28.24	4,349.9	298.4	272.9	173.5	0.81	0.12	-2.38
4,500.0	19.61	27.55	4,444.0	328.1	288.6	195.1	0.23	-0.01	-0.69
4,600.0	18.31	29.39	4,538.6	356.6	304.2	215.6	1.43	-1.30	1.85
4,700.0	17.50	28.66	4,633.8	383.3	319.1	234.7	0.84	-0.81	-0.73
4,800.0	18.42	29.62	4,729.0	410.2	334.1	253.9	0.96	0.92	0.96
4,900.0	19.03	29.06	4,823.7	438.1	349.8	273.9	0.64	0.62	-0.57
5,000.0	19.76	29.92	4,917.9	467.2	366.3	294.6	0.78	0.73	0.87
5,100.0	18.67	29.24	5,012.4	495.7	382.5	315.0	1.11	-1.09	-0.68
5,200.0	19.30	28.48	5,107.0	524.0	398.1	335.2	0.67	0.63	0.76

01/10/2014

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Well:	Weekley et al Unit 1 #8H	North Reference:	Grid
Wellbore:	ST02	Survey Calculation Method:	Minimum Curvature
Design:	ST02 As Drilled	Database:	EDM-Chris Testa

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)
5,300.0	20.45	30.27	5,201.0	553.6	415.0	356.3	1.30	1.15	1.79
5,400.0	21.17	28.47	5,294.5	584.5	432.5	378.4	0.96	0.72	-1.80
5,500.0	21.13	28.51	5,387.8	616.3	449.7	401.3	0.04	-0.04	0.04
5,600.0	20.96	29.69	5,481.1	647.6	467.3	423.7	0.46	-0.18	1.18
5,700.0	20.67	29.24	5,574.5	678.7	484.6	445.9	0.32	-0.28	-0.45
5,800.0	20.01	29.47	5,668.3	708.9	501.6	467.5	0.67	-0.67	0.23
5,900.0	20.25	30.04	5,762.3	738.7	518.6	488.7	0.31	0.24	0.57
6,000.0	20.81	24.42	5,855.9	769.6	535.4	511.0	2.05	0.57	-5.62
6,100.0	23.73	3.73	5,948.6	806.1	542.9	542.0	8.32	2.92	-20.68
6,200.0	28.94	358.69	6,038.4	850.0	544.2	582.1	5.66	5.21	-5.04
6,300.0	35.65	351.60	6,122.9	903.1	539.5	633.1	7.69	6.71	-7.09
6,400.0	42.61	347.01	6,200.5	965.0	527.7	694.8	7.54	6.96	-4.59
6,500.0	50.23	344.70	6,269.0	1,035.5	509.9	766.8	7.80	7.62	-2.31
6,600.0	57.97	340.86	6,327.6	1,112.8	486.0	847.5	8.34	7.74	-3.84
6,700.0	65.41	336.25	6,375.3	1,194.6	454.1	935.2	8.48	7.44	-4.62
6,800.0	71.87	334.59	6,411.7	1,279.1	415.2	1,028.2	6.64	6.46	-1.66
6,900.0	79.94	333.94	6,435.9	1,366.4	373.0	1,125.0	8.09	8.07	-0.64
7,000.0	88.32	330.76	6,445.7	1,454.4	326.8	1,223.9	8.96	8.38	-3.18
7,100.0	89.73	330.26	6,446.9	1,541.3	277.3	1,323.1	1.49	1.41	-0.50
7,200.0	89.67	330.14	6,447.2	1,628.1	227.7	1,422.2	0.13	-0.06	-0.12
7,300.0	89.74	329.78	6,447.5	1,714.8	177.7	1,521.2	0.37	0.07	-0.36
7,400.0	89.42	328.85	6,448.4	1,800.8	126.7	1,620.1	0.98	-0.32	-0.93
7,500.0	89.57	328.05	6,449.0	1,886.1	74.5	1,718.8	0.81	0.15	-0.80
7,600.0	89.83	327.93	6,449.5	1,970.8	21.4	1,817.3	0.29	0.26	-0.12
7,700.0	89.12	326.93	6,450.2	2,055.3	-32.1	1,915.7	1.23	-0.72	-1.00
7,800.0	89.41	326.02	6,451.4	2,138.6	-87.3	2,013.7	0.96	0.30	-0.91
7,900.0	89.91	326.00	6,452.2	2,221.4	-143.4	2,111.6	0.49	0.49	-0.02
8,000.0	90.93	325.90	6,451.0	2,304.6	-198.9	2,209.5	1.03	1.03	-0.10
8,100.0	89.90	324.47	6,450.4	2,386.5	-256.2	2,307.0	1.77	-1.03	-1.43
8,200.0	90.19	324.50	6,449.9	2,468.0	-314.2	2,404.3	0.29	0.29	0.03
8,300.0	89.94	324.60	6,449.7	2,549.4	-372.3	2,501.6	0.26	-0.24	0.10
8,400.0	88.44	324.86	6,451.0	2,631.1	-430.0	2,599.0	1.52	-1.50	0.26
8,500.0	87.94	325.23	6,454.5	2,712.9	-487.4	2,696.4	0.63	-0.50	0.37
8,600.0	88.78	325.39	6,457.3	2,795.2	-544.1	2,794.0	0.85	0.84	0.16
8,700.0	88.73	325.97	6,459.7	2,877.8	-600.3	2,891.8	0.59	-0.05	0.58
8,800.0	88.20	326.97	6,462.4	2,961.1	-655.7	2,989.8	1.14	0.53	1.00
8,900.0	89.02	328.07	6,464.9	3,045.4	-709.3	3,088.1	1.37	0.62	1.10
9,000.0	89.72	327.92	6,465.6	3,130.3	-762.2	3,186.7	0.72	0.71	0.76
9,100.0	89.33	327.93	6,466.7	3,215.0	-815.4	3,285.1	0.40	-0.40	0.01
9,200.0	90.27	329.05	6,466.7	3,300.3	-867.5	3,383.8	1.46	0.94	1.12
9,300.0	89.16	328.95	6,467.1	3,386.1	-918.9	3,482.7	1.11	1.11	0.09
9,400.0	89.88	328.66	6,468.1	3,471.6	-970.7	3,581.4	0.78	0.72	0.29
9,500.0	89.85	327.63	6,468.2	3,556.6	-1,023.4	3,680.0	1.04	-0.03	0.92

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 Office of Oil and Gas
 OCT 31 2013
 WV Department of Environmental Protection
 01/10/2014

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Project:	Mary Prospect	TVD Reference:	Saxon 141 @ 745.0usft (18' DF + 727' GL)
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Well:	Weekley et al Unit 1 #8H	North Reference:	Grid
Wellbore:	ST02	Survey Calculation Method:	Minimum Curvature
Design:	ST02 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)
9,600.0	91.08	327.72	6,467.7	3,640.9	-1,077.2	3,778.4	1.23	1.23	0.09
9,700.0	91.03	327.38	6,465.2	3,725.4	-1,130.5	3,876.8	0.34	-0.04	-0.34
9,800.0	90.17	326.65	6,464.7	3,809.2	-1,185.2	3,974.9	1.13	-0.86	-0.73
9,900.0	89.85	326.06	6,464.8	3,892.4	-1,240.6	4,072.9	0.67	-0.32	-0.59
10,000.0	89.75	325.46	6,465.1	3,975.1	-1,296.9	4,170.7	0.61	-0.11	-0.60
10,100.0	89.80	325.08	6,465.9	4,057.1	-1,354.1	4,268.2	0.38	0.05	-0.38
10,200.0	89.48	325.47	6,466.3	4,139.3	-1,411.0	4,365.8	0.51	-0.32	0.39
10,300.0	88.99	324.91	6,467.7	4,221.6	-1,467.8	4,463.5	0.75	-0.49	-0.57
10,400.0	89.81	324.66	6,468.6	4,303.2	-1,525.6	4,560.8	0.86	0.82	-0.25
10,500.0	89.41	324.89	6,469.2	4,384.9	-1,583.3	4,658.2	0.46	-0.40	0.23
10,600.0	90.33	324.91	6,469.2	4,466.6	-1,641.0	4,755.7	0.92	0.92	0.02
10,700.0	90.70	325.43	6,468.4	4,548.7	-1,698.1	4,853.2	0.64	0.37	0.52
10,800.0	90.89	327.21	6,466.5	4,631.7	-1,753.8	4,951.1	1.79	0.19	1.78
10,900.0	90.63	327.96	6,465.2	4,716.2	-1,807.2	5,049.5	0.79	-0.26	0.75
11,000.0	89.78	328.83	6,464.9	4,801.4	-1,859.6	5,148.2	1.22	-0.85	0.87
11,100.0	90.33	328.16	6,464.8	4,886.7	-1,911.8	5,246.8	0.87	0.55	-0.67
11,200.0	90.24	328.26	6,464.2	4,971.6	-1,964.7	5,345.4	0.13	-0.09	0.10
11,300.0	89.95	327.84	6,464.0	5,056.4	-2,017.6	5,443.9	0.50	-0.28	-0.41
11,400.0	89.62	327.48	6,464.3	5,140.9	-2,071.1	5,542.4	0.49	-0.33	-0.36
11,500.0	89.43	327.34	6,465.3	5,225.1	-2,125.0	5,640.7	0.24	-0.19	-0.14
11,509.0	89.43	327.34	6,465.3	5,232.7	-2,129.9	5,649.5	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____