



Scientific Drilling
Survey Report

103.02712
Scientific Drilling

Company:	Stone Energy	Local Co-ordinate Reference:	Well Lemons #5H - Slot Lemons #5H
Project:	Heather Prospect (NAD 27)	TVD Reference:	Saxon 141 @ 1345.00ft (18' RKB - 1327' GL)
Site:	Lemons Pad - Wetzel County, PA	MD Reference:	Saxon 141 @ 1345.00ft (18' RKB - 1327' GL)
Well:	Lemons #5H	North Reference:	Grid
Wellbore:	Original Well	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	NorthEastDatabase

Project:	Heather Prospect (NAD 27), Wetzel County, 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:	Lemons Pad - Wetzel County, PA				
Site Position:	Northing:	421,856.00 usft	Latitude:	39° 39' 3.725 N	
From:	Map	Easting:	1,635,675.00 usft	Longitude:	80° 47' 38.145 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.83 °

Well:	Lemons #5H - Slot Lemons #5H					
Well Position	+N-S	0.00 ft	Northing:	421,868.00 usft	Latitude:	39° 39' 4.025 N
	+E-W	0.00 ft	Easting:	1,635,701.00 usft	Longitude:	80° 47' 37.818 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	1,327.00 ft	

Wellbore:	Original Well				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2012/11/12	-8.48	67.25	52,672
	IGRF2010	2012/12/04	-8.49	67.24	52,665

Design:	As Drilled				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)	Direction (°)	
	0.00	0.00	0.00	339.27	

Survey Program	Date	2012/12/18			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
108.00	4,748.74	SDI Keeper Gyro (Original Well)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
4,820.00	7,315.00	Survey #2 - Vertical (Original Well)	MWD SDI	MWD - Standard ver 1.0.1	
7,347.00	11,315.00	Survey #3 - Lateral (Original Well)	MWD SDI	MWD - Standard ver 1.0.1	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108.00	0.37	158.94	108.00	-0.32	0.14	-0.35	0.34	0.34	0.00	
First SDI Gyro Survey										
208.00	0.10	138.16	208.00	-0.68	0.32	-0.75	0.28	-0.27	-20.78	
308.00	0.13	88.35	308.00	-0.74	0.50	-0.87	0.10	0.03	-47.81	
408.00	0.05	106.52	408.00	-0.75	0.85	-0.93	0.08	-0.08	18.17	
508.00	0.09	187.70	508.00	-0.84	0.68	-1.03	0.10	0.04	81.18	



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Project:	Heather Prospect (NAD 27)	TVD Reference:	Saxon 141 @ 1345.00R (18' RKB - 1327' GL)
Site:	Lemons Pad - Wetzel County, PA	MD Reference:	Saxon 141 @ 1345.00R (18' RKB - 1327' GL)
Well:	Lemons #5H	North Reference:	Grid
Wellbore:	Original Well	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	NorthEastDatabase

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	N-S (ft)	E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
608.00	0.13	74.47	608.00	-0.89	0.78	-1.11	0.19	0.04	-113.23
708.00	0.07	125.27	708.00	-0.89	0.94	-1.17	0.10	-0.06	50.80
808.00	0.08	322.80	808.00	-0.87	0.95	-1.15	0.15	0.01	-162.67
908.00	0.14	192.25	908.00	-0.84	0.88	-1.19	0.20	0.06	-130.35
1,008.00	0.05	150.94	1,008.00	-1.09	0.88	-1.33	0.11	-0.09	-41.31
1,108.00	0.07	172.94	1,108.00	-1.19	0.80	-1.44	0.03	0.02	22.00
1,208.00	0.07	167.45	1,208.00	-1.31	0.93	-1.56	0.01	0.00	-5.49
1,308.00	0.16	338.00	1,308.00	-1.24	0.89	-1.48	0.23	0.09	170.55
1,408.00	2.43	341.32	1,407.97	0.80	0.16	0.78	2.27	2.27	3.32
1,508.00	2.80	350.64	1,507.86	5.31	-0.92	5.30	0.56	0.37	9.32
1,608.00	3.76	3.81	1,607.70	11.00	-1.10	10.67	1.21	0.96	13.17
1,708.00	4.49	8.90	1,707.44	18.13	-0.28	17.06	0.82	0.73	5.09
1,808.00	4.84	8.52	1,807.11	26.17	0.95	24.14	0.35	0.35	-0.38
1,908.00	4.67	9.17	1,906.77	34.36	2.23	31.35	0.18	-0.17	0.65
2,008.00	5.01	10.53	2,006.41	42.88	3.67	38.61	0.36	0.34	1.36
2,108.00	5.55	9.89	2,105.99	51.73	5.30	48.51	0.54	0.54	-0.64
2,208.00	6.06	8.31	2,205.47	61.72	8.90	55.28	0.53	0.51	-1.58
2,308.00	7.34	3.33	2,304.79	73.32	8.03	65.73	1.40	1.28	-4.88
2,408.00	8.62	0.83	2,403.82	87.19	8.51	76.53	1.33	1.28	-2.50
2,508.00	9.35	1.01	2,502.59	102.81	8.76	93.05	0.73	0.73	0.18
2,608.00	9.65	0.01	2,601.21	119.31	8.91	108.43	0.34	0.30	-1.00
2,708.00	9.88	359.52	2,699.77	136.27	8.84	124.32	0.24	0.23	-0.49
2,808.00	9.49	358.37	2,798.34	153.08	8.24	140.25	0.66	-0.39	-3.15
2,908.00	7.30	345.74	2,897.27	167.46	8.15	154.44	2.68	-2.19	-10.83
3,001.00	5.66	338.22	2,989.67	177.45	3.00	164.90	1.98	-1.76	-8.09
3,108.00	3.22	339.82	3,096.34	185.17	0.00	173.18	2.28	-2.28	1.50
3,208.00	1.57	22.77	3,198.26	189.07	-0.44	178.98	2.33	-1.65	42.95
3,308.00	0.88	87.11	3,298.24	190.24	0.86	177.62	1.58	-0.69	74.34
3,408.00	0.94	88.97	3,396.23	190.16	2.44	176.99	0.14	0.06	-8.14
3,508.00	0.85	109.44	3,488.22	188.93	3.98	176.23	0.33	-0.09	20.47
3,608.00	0.99	124.51	3,586.21	188.19	5.37	175.04	0.28	0.14	15.07
3,708.00	0.91	122.38	3,686.19	188.28	6.75	173.70	0.09	-0.08	-2.13
3,808.00	0.74	173.60	3,788.18	187.21	7.49	172.44	0.73	-0.17	51.22
3,908.00	1.27	199.12	3,886.17	185.52	7.20	170.86	0.68	0.53	25.52
4,008.00	1.33	200.90	3,986.14	183.39	6.43	169.24	0.07	0.06	1.78
4,108.00	1.59	180.30	4,086.11	180.92	6.01	167.08	0.58	0.26	-20.60
4,208.00	1.78	173.77	4,186.07	177.99	6.17	164.28	0.27	0.19	-6.53
4,308.00	1.88	171.21	4,286.02	174.82	6.59	161.17	0.13	0.10	-2.58
4,408.00	2.08	169.30	4,385.98	171.42	7.17	157.78	0.21	0.20	-1.91
4,508.00	2.09	168.05	4,485.89	167.85	7.89	154.19	0.05	0.01	-1.25
4,608.00	1.64	170.01	4,585.84	164.66	8.51	150.98	0.45	-0.45	1.86
4,708.00	1.71	167.82	4,685.79	161.79	9.08	148.10	0.09	0.07	-2.19
4,748.73	1.46	171.52	4,736.51	160.68	9.28	146.99	0.66	-0.61	9.08

Last SDI Gyro Survey

103.02712



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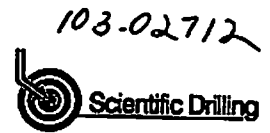


Company:	Stone Energy	Local Co-ordinate Reference:	Well Lemons #5H - Slot Lemons #5H
Project:	Heather Prospect (NAD 27)	TVD Reference:	Saxon 141 @ 1345.00ft (18' RKB - 1327' GL)
Site:	Lemons Pad - Wetzel County, PA	MD Reference:	Saxon 141 @ 1345.00ft (18' RKB - 1327' GL)
Well:	Lemons #5H	North Reference:	Grid
Wellbore:	Original Well	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	NorthEastDatabase

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,820.00	1.87	187.59	4,807.75	158.77	9.84	145.08	0.33	0.29	-5.51	
First SDI MRWD Survey										
4,881.00	1.51	181.91	4,868.73	157.14	10.08	143.40	0.37	-0.26	-9.31	
4,943.00	1.19	181.84	4,930.71	155.75	10.53	141.94	0.52	-0.52	-0.11	
5,004.00	0.96	171.28	4,991.70	154.84	10.81	140.80	0.47	-0.38	15.48	
5,085.00	0.85	188.91	5,052.69	153.80	10.83	140.00	0.64	-0.51	28.90	
5,126.00	0.81	195.28	5,113.69	153.14	10.89	139.44	0.13	-0.07	10.44	
5,188.00	0.52	208.99	5,173.69	152.59	10.48	139.01	0.27	-0.15	22.85	
5,248.00	0.47	220.55	5,235.68	152.15	10.18	138.70	0.18	-0.08	18.65	
5,309.00	0.41	246.80	5,296.68	151.88	9.81	138.57	0.34	-0.10	43.03	
5,370.00	0.35	233.95	5,357.68	151.68	9.48	138.51	0.17	-0.10	-21.07	
5,432.00	0.48	267.60	5,418.68	151.56	9.05	138.55	0.44	0.21	54.27	
5,493.00	0.44	293.09	5,480.68	151.64	8.58	138.79	0.34	-0.07	41.78	
5,553.00	0.72	280.23	5,540.68	151.80	7.99	138.14	0.51	0.47	-21.43	
5,614.00	0.82	343.86	5,601.67	152.18	7.53	138.67	1.17	-0.16	104.31	
5,675.00	0.98	358.78	5,662.67	153.01	7.42	140.48	0.85	0.58	24.43	
5,735.00	0.78	337.72	5,722.66	153.88	7.26	141.36	0.81	-0.30	-35.07	
5,796.00	1.12	4.28	5,783.65	154.87	7.14	142.32	0.90	0.58	43.54	
5,857.00	1.19	6.18	5,844.64	156.10	7.28	143.42	0.13	0.11	3.08	
5,918.00	1.16	3.51	5,905.63	157.34	7.36	144.55	0.10	-0.05	-4.34	
5,950.00	0.84	355.89	5,937.62	157.80	7.37	145.07	1.08	-1.00	-23.81	
5,982.00	1.08	344.51	5,989.62	158.42	7.27	145.59	0.90	0.69	-35.58	
6,014.00	2.35	344.83	6,001.60	159.34	7.02	146.54	4.03	4.03	0.38	
6,045.00	4.35	344.23	6,032.55	161.08	6.53	148.34	6.45	6.45	-1.29	
6,077.00	6.10	346.43	6,064.41	163.90	5.80	151.24	5.50	5.47	6.88	
6,109.00	8.14	347.78	6,096.16	167.77	4.92	155.17	6.40	6.38	4.22	
6,141.00	9.87	349.58	6,127.77	172.68	3.95	160.10	5.48	5.41	5.63	
6,172.00	11.75	352.71	6,158.22	178.43	3.08	165.79	6.35	6.08	10.10	
6,204.00	13.36	354.85	6,189.45	185.34	2.31	172.52	5.20	5.03	6.08	
6,238.00	14.84	357.88	6,220.49	193.11	1.79	179.98	5.16	4.83	9.41	
6,288.00	16.21	1.48	6,251.32	201.87	1.74	188.00	5.34	4.28	11.94	
6,300.00	17.56	3.48	6,281.94	210.96	2.15	186.54	4.59	4.22	6.19	
6,331.00	19.44	3.24	6,311.34	220.78	2.72	205.52	6.07	6.08	-0.71	
6,362.00	21.01	2.69	6,340.42	231.48	3.27	215.33	5.10	5.08	-1.77	
6,394.00	23.03	2.05	6,370.08	243.47	3.77	226.37	6.36	6.31	-2.00	
6,426.00	25.01	1.52	6,399.32	256.49	4.17	238.40	6.22	6.19	-1.66	
6,457.00	27.22	1.61	6,427.15	270.13	4.54	251.03	7.13	7.13	0.29	
6,489.00	29.08	2.62	6,455.38	285.21	5.11	264.94	6.00	5.81	3.16	
6,520.00	31.50	4.33	6,482.13	300.81	6.08	279.19	6.29	7.81	5.52	
6,552.00	33.78	5.38	6,509.07	318.01	7.53	294.76	7.35	7.13	3.31	
6,584.00	35.03	5.40	6,535.48	336.01	9.23	310.99	3.91	3.91	0.03	
6,616.00	36.35	4.90	6,561.47	354.60	10.90	327.79	4.22	4.13	-1.56	
6,648.00	38.34	4.54	6,586.90	373.95	12.50	345.31	6.26	6.22	-1.13	



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Survey Report



Company: Stone Energy	Local Co-ordinate Reference:	Well Lemons #5H - Slot Lemons #5H
Project: Heather Prospect (MAD 27)	TVD Reference:	Saxon 141 @ 1345.00ft (18' RKB - 1327' GL)
Site: Lemons Pad - Wetzell County, PA	MD Reference:	Saxon 141 @ 1345.00ft (18' RKB - 1327' GL)
Well: Lemons #5H	North Reference:	Grid
Wellbore: Original Well	Survey Calculation Method:	Minimum Curvature
Design: As Drilled	Database:	NorthEastDatabase

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/1000ft)	Bulld Rate (°/1000ft)	Turn Rate (°/1000ft)
6,680.00	41.29	4.40	6,611.48	394.37	14.10	363.85	9.22	9.22	-0.44
6,712.00	43.23	4.08	6,635.16	415.83	15.68	383.38	6.10	6.06	-1.00
6,743.00	45.24	2.84	6,657.37	437.42	16.89	403.09	7.06	6.48	-4.00
6,775.00	47.06	1.20	6,679.54	460.48	17.79	424.37	6.78	5.69	-5.13
6,807.00	48.55	359.20	6,701.04	484.18	17.87	446.51	6.57	4.68	-6.25
6,839.00	50.46	358.07	6,721.82	508.49	16.88	469.60	9.54	5.97	-9.78
6,870.00	52.41	353.89	6,741.14	532.83	14.73	492.93	8.35	6.29	-7.03
6,902.00	54.98	352.02	6,760.09	558.22	11.56	517.99	9.31	6.03	-5.84
6,934.00	57.42	350.32	6,777.89	584.49	7.48	544.01	8.81	7.63	-5.31
6,968.00	59.38	349.37	6,794.66	611.32	2.67	570.80	6.63	6.13	-2.97
6,998.00	61.88	348.00	6,810.36	638.66	-2.81	598.30	6.60	7.75	-4.28
7,030.00	64.90	348.54	6,824.69	666.56	-9.11	626.83	10.34	9.50	-4.56
7,061.00	67.56	345.26	6,837.19	694.07	-18.03	654.81	9.38	8.68	-4.13
7,093.00	68.91	345.03	6,849.05	722.79	-23.65	684.37	4.27	4.22	-0.72
7,125.00	71.42	344.33	6,859.91	751.82	-31.60	714.33	6.11	7.84	-2.19
7,157.00	74.26	343.40	6,869.35	781.19	-40.10	744.81	9.30	8.88	-2.91
7,189.00	77.41	342.75	6,877.18	810.87	-49.13	775.76	10.04	9.84	-2.03
7,220.00	79.13	342.28	6,883.48	839.81	-58.26	806.08	5.76	5.55	-1.58
7,251.00	81.98	340.62	6,888.57	868.60	-67.99	836.62	10.57	9.19	-5.29
7,283.00	86.37	340.06	6,891.82	898.77	-78.70	868.44	13.83	13.72	-1.75
7,315.00	87.65	340.32	6,893.48	928.84	-89.53	900.39	4.08	4.00	0.81
7,347.00	89.43	340.20	6,894.30	958.94	-100.33	932.37	5.58	5.58	-0.38
7,379.00	90.81	340.07	6,894.23	989.04	-111.21	964.37	4.33	4.31	-0.41
7,442.00	90.64	338.64	6,893.44	1,047.99	-133.42	1,027.36	2.29	-0.27	-2.27
7,508.00	90.03	338.41	6,893.06	1,107.54	-156.85	1,091.38	1.02	-0.95	-0.36
7,570.00	90.10	337.82	6,892.99	1,166.93	-180.70	1,155.34	0.93	0.11	-0.92
7,634.00	92.79	338.86	6,891.38	1,226.39	-204.31	1,219.31	4.51	4.20	1.63
7,697.00	93.06	338.82	6,888.16	1,284.65	-228.04	1,282.20	3.28	0.43	-3.24
7,781.00	91.98	334.14	6,885.35	1,342.82	-254.58	1,345.99	4.51	-1.69	-4.19
7,824.00	91.91	332.87	6,883.21	1,399.17	-282.67	1,408.64	2.02	-0.11	-2.02
7,888.00	92.39	332.44	6,880.81	1,455.88	-312.04	1,472.17	1.01	0.75	-0.67
7,951.00	93.23	333.00	6,877.72	1,511.80	-340.88	1,534.88	1.60	1.33	0.89
8,015.00	94.91	334.49	6,873.18	1,569.15	-369.12	1,598.22	3.50	2.63	2.33
8,078.00	93.36	334.84	6,868.63	1,625.94	-398.01	1,660.85	2.52	-2.46	0.56
8,141.00	92.82	335.11	6,865.18	1,682.94	-422.82	1,723.58	0.82	-0.70	0.43
8,204.00	92.28	335.07	6,862.33	1,740.02	-449.13	1,786.34	1.02	-1.02	-0.06
8,268.00	91.65	335.27	6,860.13	1,798.07	-475.99	1,850.14	1.03	-0.98	0.31
8,332.00	91.41	335.41	6,858.42	1,856.21	-502.88	1,913.97	0.43	-0.38	0.22
8,398.00	91.54	335.64	6,856.78	1,914.44	-529.19	1,977.81	0.41	0.20	0.36
8,459.00	91.21	336.79	6,855.26	1,972.07	-554.59	2,040.70	1.90	-0.52	1.83
8,523.00	88.99	335.95	6,855.15	2,030.70	-580.24	2,104.82	3.71	-3.47	-1.31
8,586.00	88.99	338.11	6,856.26	2,088.26	-605.83	2,167.51	0.25	0.00	0.25
8,650.00	90.91	338.82	6,856.32	2,146.93	-631.38	2,231.43	3.20	3.00	1.11
8,713.00	92.55	336.89	6,854.42	2,204.83	-656.13	2,294.34	2.61	2.60	0.11

103.02712



Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well Lemons #5H - Slot Lemons #5H
Project:	Heather Prospect (NAD 27)	TVD Reference:	Saxon 141 @ 1345.00ft (18' RKB - 1327' GL)
Site:	Lemons Pad - Wetzel County, PA	MD Reference:	Saxon 141 @ 1345.00ft (18' RKB - 1327' GL)
Well:	Lemons #5H	North Reference:	Grid
Wellbore:	Original Well	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	NorthEastDatabase

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (*/100usft)	Build Rate (*/100usft)	Turn Rate (*/100usft)
8,777.00	91.51	335.92	6,852.15	2,263.45	-681.73	2,358.22	2.22	-1.63	-1.52
8,841.00	91.24	335.05	6,850.61	2,321.66	-708.28	2,422.08	1.42	-0.42	-1.38
8,904.00	92.22	334.80	6,848.71	2,378.69	-734.97	2,484.85	1.61	1.56	-0.40
8,968.00	92.49	333.89	6,848.08	2,436.34	-762.65	2,548.56	1.48	0.42	-1.42
9,031.00	91.91	332.77	6,843.66	2,492.59	-790.91	2,611.17	2.00	-0.92	-1.78
9,095.00	90.84	331.60	6,842.13	2,549.18	-820.76	2,674.66	2.48	-1.67	-1.83
9,159.00	90.87	331.55	6,841.17	2,605.46	-851.22	2,738.08	0.09	0.05	-0.08
9,222.00	91.75	331.13	6,839.73	2,660.72	-881.43	2,800.46	1.55	1.40	-0.67
9,286.00	91.85	331.20	6,837.72	2,716.76	-912.28	2,863.79	0.19	0.16	0.11
9,349.00	91.64	331.46	6,835.80	2,772.01	-942.49	2,926.16	0.53	-0.33	0.41
9,412.00	91.68	331.14	6,833.98	2,827.25	-972.74	2,988.52	0.51	0.06	-0.51
9,476.00	91.71	331.24	6,832.09	2,883.30	-1,003.58	3,051.88	0.16	0.05	0.16
9,540.00	91.78	331.09	6,830.14	2,939.34	-1,034.42	3,115.19	0.26	0.11	-0.23
9,603.00	91.65	331.66	6,828.25	2,994.61	-1,064.58	3,177.56	0.93	-0.21	0.50
9,667.00	92.38	331.14	6,826.00	3,050.77	-1,095.20	3,240.92	1.40	1.14	-0.81
9,730.00	93.33	331.83	6,822.88	3,106.06	-1,125.24	3,303.26	1.88	1.51	1.10
9,793.00	93.02	334.35	6,819.37	3,162.14	-1,153.71	3,365.79	4.02	-0.49	4.00
9,856.00	92.28	335.83	6,816.46	3,219.22	-1,180.21	3,428.56	2.62	-1.17	2.35
9,920.00	92.96	336.10	6,813.59	3,277.81	-1,208.25	3,492.39	1.00	0.91	0.42
9,984.00	93.19	336.08	6,810.21	3,336.03	-1,232.17	3,556.20	0.52	0.52	-0.08
10,047.00	91.51	335.47	6,807.63	3,393.43	-1,258.00	3,619.03	2.83	-2.67	-0.94
10,111.00	90.10	335.70	6,806.73	3,451.70	-1,284.45	3,682.89	2.23	-2.20	0.36
10,175.00	90.91	335.75	6,808.17	3,510.04	-1,310.76	3,746.76	1.27	1.27	0.08
10,238.00	91.11	336.73	6,805.06	3,567.69	-1,336.14	3,809.66	1.59	0.32	1.56
10,302.00	90.54	336.45	6,804.13	3,626.42	-1,361.57	3,873.58	0.99	-0.89	-0.44
10,366.00	91.28	337.75	6,803.12	3,685.38	-1,386.47	3,937.53	2.34	1.16	2.03
10,429.00	92.32	339.48	6,801.14	3,743.99	-1,409.43	4,000.49	3.20	1.65	2.75
10,493.00	92.45	339.30	6,798.48	3,803.84	-1,431.94	4,064.43	0.35	0.20	-0.28
10,557.00	92.12	338.98	6,795.92	3,863.60	-1,454.71	4,128.38	0.72	-0.52	-0.50
10,620.00	91.04	338.34	6,794.19	3,922.26	-1,477.62	4,191.35	1.99	-1.71	-1.02
10,684.00	90.67	338.28	6,793.23	3,981.72	-1,501.28	4,255.34	0.58	-0.58	-0.09
10,748.00	91.58	338.57	6,791.98	4,041.22	-1,524.80	4,319.32	1.49	1.42	0.45
10,811.00	91.38	338.36	6,790.35	4,099.81	-1,547.91	4,382.29	0.44	-0.32	-0.30
10,875.00	90.40	338.39	6,789.35	4,159.30	-1,571.48	4,446.27	1.53	-1.53	0.02
10,939.00	90.47	338.19	6,788.67	4,218.76	-1,595.16	4,510.26	0.33	0.11	-0.31
11,002.00	89.83	338.45	6,788.70	4,277.30	-1,618.43	4,573.25	1.10	-1.02	0.41
11,065.00	90.50	338.30	6,788.52	4,335.87	-1,641.65	4,636.25	1.09	1.08	-0.24
11,129.00	91.51	338.41	6,787.40	4,395.35	-1,665.25	4,700.23	1.59	1.58	0.17
11,193.00	91.85	338.57	6,785.52	4,454.86	-1,688.71	4,764.19	0.59	0.53	0.25
11,257.00	91.21	339.00	6,783.81	4,514.50	-1,711.86	4,828.17	1.20	-1.00	0.67
Least SDI MWD Survey									
11,315.00	91.21	339.00	6,782.59	4,568.64	-1,732.64	4,886.15	0.00	0.00	0.00
Projection to TD									