

30-025-44273

Solaris Water Midstream

Lea County NM (NAD83)

Sec 35, T 21-S , R 32-E

Zeus SWD #1

Wellbore #1

Survey: MWD Surveys

Standard Survey Report

10 January, 2019



Survey Report



Company:	Solaris Water Midstream	Local Co-ordinate Reference:	Well Zeus SWD #1
Project:	Lea County NM (NAD83)	TVD Reference:	KB=20 @ 3679.10usft
Site:	Sec 35, T 21-S, R 32-E	MD Reference:	KB=20 @ 3679.10usft
Well:	Zeus SWD #1	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1

Project		Lea County NM (NAD83)	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Sec 35, T 21-S, R 32-E
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Site Position:		Northing:	520,384.27 usft	Latitude:	32.42863
From:	Lat/Long	Easting:	758,951.32 usft	Longitude:	-103.62804
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.38 °

Well	Zeus SWD #1					
Well Position	+N/-S	0.00 usft	Northing:	520,384.27 usft	Latitude:	32.42863
	+E/-W	0.00 usft	Easting:	758,951.32 usft	Longitude:	-103.62804
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,659.10 usft	

Wellbore:	Wellbore #1
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/30/2018	6.80	60.27	48,149

Design:	Wellbore #1
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Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	0.00

Survey Program		Date	1/10/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
148.00	17,400.00	MWD Surveys (Wellbore #1)			

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)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	148.00	0.84	325.81	147.99	0.90	-0.61	0.90	0.57	0.57	0.00
First MWD Survey @ 148' MD										
	257.00	0.84	22.33	256.98	2.30	-0.76	2.30	0.73	0.00	51.85
	339.00	0.84	21.27	338.98	3.41	-0.31	3.41	0.02	0.00	-1.29
	430.00	0.70	4.31	429.97	4.59	-0.02	4.59	0.29	-0.15	-18.64
	520.00	0.75	358.16	519.96	5.73	0.00	5.73	0.10	0.06	-6.83
	611.00	0.66	338.47	610.95	6.81	-0.21	6.81	0.28	-0.10	-21.64
	701.00	1.45	15.30	700.94	8.39	-0.10	8.39	1.11	0.88	40.92
	785.00	0.57	322.12	784.93	9.74	-0.08	9.74	1.43	-1.05	-63.31
	884.00	0.31	282.92	883.92	10.19	-0.64	10.19	0.39	-0.26	-39.60

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Well:	Zeus SWD #1	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM-5000.1

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)
978.00	0.26	181.76	977.92	10.04	-0.90	10.04	0.47	-0.05	-107.62
1,078.00	0.75	143.71	1,077.92	9.28	-0.52	9.28	0.57	0.49	-38.05
1,168.00	1.54	165.59	1,167.90	7.64	0.13	7.64	0.99	0.88	24.31
1,261.00	1.93	165.37	1,260.86	4.91	0.84	4.91	0.42	0.42	-0.24
1,354.00	1.27	169.40	1,353.82	2.38	1.42	2.38	0.72	-0.71	4.33
1,448.00	1.19	126.65	1,447.80	0.78	2.40	0.78	0.96	-0.09	-45.48
1,543.00	1.41	129.91	1,542.78	-0.56	4.09	-0.56	0.24	0.23	3.43
1,637.00	1.45	121.03	1,636.75	-1.92	5.99	-1.92	0.24	0.04	-9.45
1,732.00	1.54	122.61	1,731.72	-3.23	8.10	-3.23	0.10	0.09	1.66
1,826.00	0.70	100.64	1,825.70	-4.01	9.73	-4.01	0.99	-0.89	-23.37
1,920.00	0.79	70.58	1,919.69	-3.90	10.90	-3.90	0.42	0.10	-31.98
2,014.00	1.19	72.25	2,013.67	-3.39	12.44	-3.39	0.43	0.43	1.78
2,108.00	1.36	76.91	2,107.65	-2.84	14.46	-2.84	0.21	0.18	4.96
2,202.00	1.63	76.91	2,201.62	-2.28	16.85	-2.28	0.29	0.29	0.00
2,297.00	0.62	78.49	2,296.60	-1.88	18.67	-1.88	1.06	-1.06	1.66
2,391.00	0.48	63.20	2,390.60	-1.60	19.52	-1.60	0.21	-0.15	-16.27
2,485.00	1.01	63.20	2,484.59	-1.05	20.61	-1.05	0.56	0.56	0.00
2,579.00	1.32	72.87	2,578.57	-0.35	22.38	-0.35	0.39	0.33	10.29
2,673.00	1.58	73.48	2,672.54	0.33	24.66	0.33	0.28	0.28	0.65
2,767.00	1.89	64.60	2,766.49	1.37	27.30	1.37	0.44	0.33	-9.45
2,861.00	2.33	60.56	2,860.43	2.97	30.37	2.97	0.49	0.47	-4.30
2,956.00	1.58	69.26	2,955.38	4.38	33.27	4.38	0.85	-0.79	9.16
3,050.00	0.22	349.72	3,049.36	5.02	34.45	5.02	1.65	-1.45	-84.62
3,144.00	0.75	24.70	3,143.36	5.76	34.68	5.76	0.62	0.56	37.21
3,238.00	1.93	52.21	3,237.33	7.29	36.19	7.29	1.40	1.26	29.27
3,332.00	1.10	85.43	3,331.30	8.33	38.34	8.33	1.25	-0.88	35.34
3,426.00	1.10	135.27	3,425.29	7.76	39.87	7.76	0.99	0.00	53.02
3,520.00	1.14	100.02	3,519.27	6.96	41.43	6.96	0.72	0.04	-37.50
3,613.00	0.75	92.03	3,612.26	6.77	42.95	6.77	0.44	-0.42	-8.59
3,708.00	0.13	344.36	3,707.25	6.86	43.54	6.86	0.84	-0.65	-113.34
3,801.00	0.40	358.95	3,800.25	7.28	43.50	7.28	0.30	0.29	15.69
3,896.00	1.14	309.20	3,895.24	8.21	42.77	8.21	0.98	0.78	-52.37
3,988.00	1.85	320.45	3,987.21	9.93	41.11	9.93	0.83	0.77	12.23
4,078.00	1.93	324.58	4,077.16	12.29	39.31	12.29	0.18	0.09	4.59
4,173.00	1.98	335.75	4,172.11	15.09	37.71	15.09	0.40	0.05	11.76
4,267.00	1.54	333.81	4,266.06	17.70	36.48	17.70	0.47	-0.47	-2.06
4,361.00	1.76	335.75	4,360.02	20.15	35.33	20.15	0.24	0.23	2.06
4,455.00	2.15	333.02	4,453.97	23.04	33.94	23.04	0.43	0.41	-2.90
4,549.00	1.54	339.88	4,547.92	25.80	32.70	25.80	0.69	-0.65	7.30
4,643.00	1.45	339.17	4,641.89	28.09	31.85	28.09	0.10	-0.10	-0.76
4,677.00	1.49	335.48	4,675.88	28.90	31.51	28.90	0.30	0.12	-10.85
4,729.00	1.23	265.35	4,727.87	29.47	30.67	29.47	3.03	-0.50	-134.87
4,823.00	1.23	338.47	4,821.85	30.33	29.30	30.33	1.56	0.00	77.79

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Well:	Zeus SWD #1	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1

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)
4,918.00	1.27	338.47	4,916.83	32.25	28.54	32.25	0.04	0.04	0.00
5,013.00	1.41	339.79	5,011.80	34.33	27.75	34.33	0.15	0.15	1.39
5,107.00	1.27	338.03	5,105.77	36.38	26.96	36.38	0.16	-0.15	-1.87
5,201.00	1.36	341.55	5,199.75	38.41	26.21	38.41	0.13	0.10	3.74
5,295.00	1.41	339.17	5,293.72	40.54	25.45	40.54	0.08	0.05	-2.53
5,389.00	1.32	335.92	5,387.70	42.61	24.60	42.61	0.13	-0.10	-3.46
5,483.00	1.32	333.64	5,481.67	44.57	23.67	44.57	0.06	0.00	-2.43
5,577.00	1.32	334.60	5,575.65	46.52	22.73	46.52	0.02	0.00	1.02
5,677.00	1.27	332.93	5,675.62	48.55	21.73	48.55	0.06	-0.05	-1.67
5,766.00	1.27	332.85	5,764.60	50.30	20.83	50.30	0.00	0.00	-0.09
5,860.00	1.27	338.73	5,858.58	52.20	19.98	52.20	0.14	0.00	6.26
5,954.00	1.27	302.96	5,952.55	53.74	18.73	53.74	0.83	0.00	-38.05
6,047.00	1.58	273.52	6,045.53	54.38	16.58	54.38	0.84	0.33	-31.66
6,141.00	1.76	273.52	6,139.49	54.55	13.85	54.55	0.19	0.19	0.00
6,235.00	1.80	228.70	6,233.45	53.66	11.30	53.66	1.44	0.04	-47.68
6,329.00	1.76	228.34	6,327.40	51.73	9.11	51.73	0.04	-0.04	-0.38
6,424.00	1.76	228.26	6,422.36	49.79	6.93	49.79	0.00	0.00	-0.08
6,517.00	1.63	219.55	6,515.31	47.82	5.02	47.82	0.31	-0.14	-9.37
6,612.00	1.58	217.01	6,610.28	45.73	3.38	45.73	0.09	-0.05	-2.67
6,706.00	1.54	218.06	6,704.24	43.70	1.82	43.70	0.05	-0.04	1.12
6,800.00	1.54	216.74	6,798.21	41.69	0.28	41.69	0.04	0.00	-1.40
6,894.00	1.54	214.37	6,892.17	39.64	-1.19	39.64	0.07	0.00	-2.52
6,991.00	1.58	211.03	6,989.14	37.41	-2.61	37.41	0.10	0.04	-3.44
7,085.00	1.63	211.47	7,083.10	35.16	-3.98	35.16	0.05	0.05	0.47
7,179.00	1.58	209.80	7,177.06	32.90	-5.32	32.90	0.07	-0.05	-1.78
7,273.00	1.63	206.99	7,271.03	30.58	-6.57	30.58	0.10	0.05	-2.99
7,367.00	1.67	208.13	7,364.99	28.18	-7.82	28.18	0.06	0.04	1.21
7,461.00	1.58	207.60	7,458.95	25.83	-9.07	25.83	0.10	-0.10	-0.56
7,556.00	1.36	209.62	7,553.92	23.69	-10.23	23.69	0.24	-0.23	2.13
7,649.00	1.45	205.14	7,646.89	21.66	-11.28	21.66	0.15	0.10	-4.82
7,744.00	1.41	210.15	7,741.86	19.56	-12.38	19.56	0.14	-0.04	5.27
7,838.00	1.19	209.27	7,835.84	17.71	-13.43	17.71	0.23	-0.23	-0.94
7,933.00	1.19	209.10	7,930.82	15.99	-14.40	15.99	0.00	0.00	-0.18
8,026.00	1.19	204.70	8,023.80	14.27	-15.27	14.27	0.10	0.00	-4.73
8,120.00	1.19	198.37	8,117.78	12.46	-15.98	12.46	0.14	0.00	-6.73
8,215.00	1.14	197.41	8,212.76	10.62	-16.58	10.62	0.06	-0.05	-1.01
8,309.00	1.19	197.41	8,306.74	8.79	-17.15	8.79	0.05	0.05	0.00
8,403.00	1.23	192.22	8,400.72	6.88	-17.66	6.88	0.12	0.04	-5.52
8,497.00	1.19	188.44	8,494.70	4.92	-18.01	4.92	0.09	-0.04	-4.02
8,591.00	1.23	185.45	8,588.68	2.96	-18.25	2.96	0.08	0.04	-3.18
8,686.00	1.14	192.13	8,683.66	1.02	-18.55	1.02	0.17	-0.09	7.03
8,781.00	0.75	191.25	8,778.64	-0.52	-18.87	-0.52	0.41	-0.41	-0.93
8,875.00	0.75	191.08	8,872.63	-1.72	-19.11	-1.72	0.00	0.00	-0.18

Survey Report



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Well:	Zeus SWD #1	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000:1

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buid Rate (°/100usft)	Turn Rate (°/100usft)
8,969.00	0.62	186.95	8,966.63	-2.83	-19.28	-2.83	0.15	-0.14	-4.39
9,064.00	0.57	178.07	9,061.62	-3.82	-19.33	-3.82	0.11	-0.05	-9.35
9,159.00	0.53	189.58	9,156.62	-4.72	-19.39	-4.72	0.12	-0.04	12.12
9,253.00	0.66	284.95	9,250.61	-5.01	-19.98	-5.01	0.94	0.14	101.46
9,348.00	1.14	288.11	9,345.60	-4.58	-21.41	-4.58	0.51	0.51	3.33
9,442.00	1.85	290.31	9,439.57	-3.76	-23.72	-3.76	0.76	0.76	2.34
9,541.00	2.07	292.15	9,538.51	-2.53	-26.88	-2.53	0.23	0.22	1.86
9,636.00	1.76	286.97	9,633.46	-1.46	-29.86	-1.46	0.37	-0.33	-5.45
9,731.00	1.54	289.87	9,728.42	-0.60	-32.46	-0.60	0.25	-0.23	3.05
9,825.00	1.58	295.23	9,822.38	0.38	-34.82	0.38	0.16	0.04	5.70
9,920.00	1.89	297.78	9,917.34	1.67	-37.39	1.67	0.34	0.33	2.68
10,014.00	2.11	302.61	10,011.28	3.33	-40.22	3.33	0.29	0.23	5.14
10,108.00	1.63	303.75	10,105.23	5.00	-42.79	5.00	0.51	-0.51	1.21
10,203.00	1.71	306.65	10,200.19	6.60	-45.05	6.60	0.12	0.08	3.05
10,297.00	1.71	311.84	10,294.15	8.37	-47.22	8.37	0.16	0.00	5.52
10,391.00	1.67	306.92	10,388.11	10.13	-49.36	10.13	0.16	-0.04	-5.23
10,486.00	1.49	286.18	10,483.08	11.31	-51.65	11.31	0.63	-0.19	-21.83
10,580.00	1.10	284.59	10,577.05	11.87	-53.70	11.87	0.42	-0.41	-1.69
10,674.00	0.92	254.71	10,671.04	11.90	-55.30	11.90	0.58	-0.19	-31.79
10,768.00	0.79	239.15	10,765.03	11.37	-56.58	11.37	0.28	-0.14	-16.55
10,862.00	1.23	229.49	10,859.01	10.38	-57.91	10.38	0.50	0.47	-10.28
10,955.00	1.19	238.10	10,951.99	9.23	-59.48	9.23	0.20	-0.04	9.26
11,049.00	1.41	230.28	11,045.97	7.97	-61.20	7.97	0.30	0.23	-8.32
11,144.00	1.41	255.06	11,140.94	6.92	-63.23	6.92	0.64	0.00	26.08
11,238.00	1.76	245.31	11,234.90	6.02	-65.66	6.02	0.47	0.37	-10.37
11,331.00	1.63	246.01	11,327.86	4.89	-68.17	4.89	0.14	-0.14	0.75
11,426.00	1.45	245.83	11,422.83	3.85	-70.50	3.85	0.19	-0.19	-0.19
11,520.00	1.54	244.96	11,516.80	2.82	-72.73	2.82	0.10	0.10	-0.93
11,615.00	1.54	245.39	11,611.76	1.75	-75.04	1.75	0.01	0.00	0.45
11,709.00	1.58	255.15	11,705.73	0.89	-77.45	0.89	0.29	0.04	10.38
11,804.00	1.85	250.32	11,800.68	0.04	-80.15	0.04	0.32	0.28	-5.08
11,898.00	1.63	247.24	11,894.64	-0.99	-82.82	-0.99	0.25	-0.23	-3.28
11,993.00	1.67	258.40	11,989.60	-1.79	-85.42	-1.79	0.34	0.04	11.75
12,058.00	1.85	251.81	12,054.57	-2.31	-87.34	-2.31	0.42	0.28	-10.14
12,182.00	1.49	239.68	12,178.52	-3.74	-90.64	-3.74	0.41	-0.29	-9.78
12,275.00	1.14	269.21	12,271.50	-4.37	-92.60	-4.37	0.81	-0.38	31.75
12,370.00	1.01	271.41	12,366.48	-4.36	-94.39	-4.36	0.14	-0.14	2.32
12,464.00	1.10	278.35	12,460.46	-4.21	-96.11	-4.21	0.17	0.10	7.38
12,558.00	1.10	275.80	12,554.45	-3.99	-97.90	-3.99	0.05	0.00	-2.71
12,652.00	1.10	270.53	12,648.43	-3.89	-99.70	-3.89	0.11	0.00	-5.61
12,746.00	1.19	269.30	12,742.41	-3.89	-101.58	-3.89	0.10	0.10	-1.31
12,841.00	1.14	262.88	12,837.39	-4.02	-103.50	-4.02	0.15	-0.05	-6.76
12,935.00	1.27	263.15	12,931.37	-4.26	-105.46	-4.26	0.14	0.14	0.29
13,029.00	1.01	267.81	13,025.35	-4.42	-107.32	-4.42	0.29	-0.28	4.96

Survey Report



Company:	Solaris Water Midstream	Local Co-ordinate Reference:	Well Zeus SWD #1
Project:	Lea County NM (NAD83)	TVD Reference:	KB=20 @ 3679.10usft
Site:	Sec 35, T 21-S, R 32-E	MD Reference:	KB=20 @ 3679.10usft
Well:	Zeus SWD #1	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1

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)
13,123.00	1.19	275.72	13,119.33	-4.35	-109.12	-4.35	0.25	0.19	8.41
13,217.00	1.05	277.04	13,213.32	-4.15	-110.95	-4.15	0.15	-0.15	1.40
13,311.00	1.23	270.53	13,307.30	-4.03	-112.81	-4.03	0.24	0.19	-6.93
13,405.00	1.14	277.30	13,401.28	-3.90	-114.75	-3.90	0.18	-0.10	7.20
13,500.00	1.19	276.86	13,496.26	-3.67	-116.67	-3.67	0.05	0.05	-0.46
13,593.00	1.36	280.55	13,589.23	-3.35	-118.71	-3.35	0.20	0.18	3.97
13,687.00	1.76	291.19	13,683.20	-2.62	-121.15	-2.62	0.52	0.43	11.32
13,782.00	2.24	298.30	13,778.14	-1.22	-124.15	-1.22	0.57	0.51	7.48
13,876.00	2.33	299.54	13,872.07	0.60	-127.43	0.60	0.11	0.10	1.32
13,969.00	2.20	302.79	13,964.99	2.50	-130.57	2.50	0.20	-0.14	3.49
14,064.00	2.07	301.29	14,059.93	4.38	-133.57	4.38	0.15	-0.14	-1.58
14,152.00	1.93	309.29	14,147.87	6.14	-136.08	6.14	0.35	-0.16	9.09
14,247.00	1.71	313.20	14,242.83	8.12	-138.35	8.12	0.27	-0.23	4.12
14,343.00	1.50	305.60	14,338.79	9.83	-140.41	9.83	0.31	-0.22	-7.92
14,437.00	1.41	309.10	14,432.76	11.28	-142.31	11.28	0.13	-0.10	3.72
14,530.00	1.41	304.10	14,525.73	12.64	-144.15	12.64	0.13	0.00	-5.38
14,624.00	1.30	303.10	14,619.70	13.87	-146.00	13.87	0.12	-0.12	-1.06
14,718.00	1.19	308.80	14,713.68	15.07	-147.65	15.07	0.18	-0.12	6.06
14,812.00	1.10	298.20	14,807.66	16.11	-149.21	16.11	0.24	-0.10	-11.28
14,906.00	0.92	313.60	14,901.65	17.05	-150.55	17.05	0.34	-0.19	16.38
15,000.00	0.80	307.40	14,995.64	17.97	-151.62	17.97	0.16	-0.13	-6.60
15,094.00	0.80	295.90	15,089.63	18.66	-152.73	18.66	0.17	0.00	-12.23
15,188.00	0.75	268.30	15,183.62	18.93	-153.93	18.93	0.40	-0.05	-29.36
15,283.00	0.50	272.60	15,278.61	18.93	-154.97	18.93	0.27	-0.26	4.53
15,377.00	0.60	266.20	15,372.61	18.91	-155.87	18.91	0.12	0.11	-6.81
15,471.00	0.62	269.74	15,466.61	18.88	-156.87	18.88	0.05	0.02	3.77
15,565.00	0.66	263.94	15,560.60	18.82	-157.92	18.82	0.08	0.04	-6.17
15,659.00	1.00	286.70	15,654.59	19.00	-159.24	19.00	0.50	0.36	24.21
15,754.00	0.90	268.00	15,749.58	19.21	-160.78	19.21	0.34	-0.11	-19.68
15,847.00	1.20	132.10	15,842.57	18.53	-160.79	18.53	2.10	0.32	-146.13
15,941.00	1.10	261.30	15,936.56	17.73	-160.95	17.73	2.21	-0.11	137.45
16,035.00	1.40	265.80	16,030.54	17.51	-162.99	17.51	0.34	0.32	4.79
16,129.00	1.60	264.20	16,124.51	17.30	-165.44	17.30	0.22	0.21	-1.70
16,222.00	1.80	261.00	16,217.47	16.94	-168.17	16.94	0.24	0.22	-3.44
16,266.00	1.70	258.40	16,261.44	16.70	-169.49	16.70	0.29	-0.23	-5.91
16,421.00	1.98	269.74	16,416.37	16.22	-174.42	16.22	0.30	0.18	7.32
16,515.00	1.71	259.90	16,510.32	15.97	-177.43	15.97	0.44	-0.29	-10.47
16,610.00	1.54	274.13	16,605.28	15.81	-180.10	15.81	0.46	-0.18	14.98
16,704.00	2.24	306.04	16,699.23	16.98	-182.84	16.98	1.32	0.74	33.95
16,799.00	2.50	279.00	16,794.15	18.40	-186.39	18.40	1.20	0.27	-28.46
16,893.00	2.40	260.00	16,888.07	18.38	-190.35	18.38	0.87	-0.11	-20.21
16,988.00	1.90	258.10	16,983.00	17.71	-193.85	17.71	0.53	-0.53	-2.00
17,082.00	1.80	255.50	17,076.95	17.02	-196.81	17.02	0.14	-0.11	-2.77

Survey Report



Company:	Solaris Water Midstream	Local Co-ordinate Reference:	Well Zeus SWD #1
Project:	Lea County NM (NAD83)	TVD Reference:	KB=20 @ 3679.10usft
Site:	Sec 35, T 21-S, R 32-E	MD Reference:	KB=20 @ 3679.10usft
Well:	Zeus SWD #1	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1

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)
17,176.00	1.45	246.89	17,170.91	16.18	-199.33	16.18	0.45	-0.37	-9.16
17,271.00	1.71	239.33	17,265.88	14.99	-201.66	14.99	0.35	0.27	-7.96
17,345.00	1.63	235.55	17,339.85	13.83	-203.47	13.83	0.18	-0.11	-5.11
Final MWD Survey @ 17345'MD									
17,400.00	1.63	235.55	17,394.82	12.94	-204.76	12.94	0.00	0.00	0.00
Projection to TD @ 17400'MD									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
148.00	147.99	0.90	-0.61	First MWD Survey @ 148'MD
17,345.00	17,339.85	13.83	-203.47	Final MWD Survey @ 17345'MD
17,400.00	17,394.82	12.94	-204.76	Projection to TD @ 17400'MD

Checked By: _____ Approved By: _____ Date: _____