

Speer Mining Resource
DRMS Permit No. M-1983-176
Monitoring Well Groundwater Elevations

Speer Monitoring Wells - Groundwater Elevation Readings											
MW3-AS		DTW in Field (ft)	Stick-up (ft)	GW Depth (ft bgs)	GW Elevation (amsl)	MH-9		DTW in Field (ft)	Stick-up (ft)	GW Depth (ft bgs)	GW Elevation (amsl)
Surf. Elev. (amsl): Total Depth (ft bgs):	5027.0 30.5					Surf. Elev. (amsl): Total Depth (ft bgs):	5021.4 17.5				
Date:	7/8/2016	14.40	2.70	11.70	5015.30	Date:	7/8/2016	11.30	2.60	8.70	5012.70
	9/29/2016	14.70	2.70	12.00	5015.00		9/29/2016	11.45	2.60	8.85	5012.55
	11/11/2016	14.80	2.70	12.10	5014.90		11/11/2016	11.30	2.60	8.70	5012.70
	12/30/2016	15.00	2.70	12.30	5014.70		12/30/2016	11.60	2.60	9.00	5012.40
	3/10/2017	15.20	2.70	12.50	5014.50		3/10/2017	11.60	2.60	9.00	5012.40
	5/26/2017	14.50	2.70	11.80	5015.20		5/26/2017	11.20	2.60	8.60	5012.80
	10/20/2017	14.70	2.70	12.00	5015.00		10/20/2017	11.40	2.60	8.80	5012.60
	1/5/2018	15.10	2.70	12.40	5014.60		1/5/2018	11.60	2.60	9.00	5012.40
	4/4/2018	14.64	2.70	11.94	5015.06		4/4/2018	10.95	2.60	8.35	5013.05
	8/23/2018	13.59	2.70	10.89	5016.11		8/23/2018	8.59	2.60	5.99	5015.41
	9/17/2018	13.93	2.70	11.23	5015.77		9/17/2018	8.95	2.60	6.35	5015.05
	10/17/2018	13.89	2.70	11.19	5015.81		10/17/2018	8.83	2.60	6.23	5015.17
	11/2/2018	14.04	2.70	11.34	5015.66		11/2/2018	9.03	2.60	6.43	5014.97
	12/21/2018	15.61	2.70	12.91	5014.09		12/21/2018	9.69	2.60	7.09	5014.31
	2/1/2019	14.75	2.70	12.05	5014.95		2/1/2019	9.82	2.60	7.22	5014.18
	3/1/2019	14.77	2.70	12.07	5014.93		3/1/2019	10.85	2.60	8.25	5013.15
	4/17/2019	14.70	2.70	12.00	5015.00		4/17/2019	9.71	2.60	7.11	5014.29
	6/3/2019	13.78	2.70	11.08	5015.92		6/3/2019	8.77	2.60	6.17	5015.23
	7/5/2019	12.96	2.70	10.26	5016.74		7/5/2019	7.85	2.60	5.25	5016.15
	8/1/2019	13.09	2.70	10.39	5016.61		8/1/2019	8.08	2.60	5.48	5015.92
	9/3/2019	13.20	2.70	10.50	5016.50		9/3/2019	8.03	2.60	5.43	5015.97
	10/16/2019	13.21	2.70	10.51	5016.49		10/16/2019	8.01	2.60	5.41	5015.99
	11/14/2019	13.66	2.70	10.96	5016.04		11/14/2019	8.55	2.60	5.95	5015.45
	12/13/2020	14.20	2.70	11.50	5015.50		12/13/2020	9.15	2.60	6.55	5014.85
	1/8/2020	14.47	2.70	11.77	5015.23		1/8/2020	9.46	2.60	6.86	5014.54
	2/13/2020	14.84	2.70	12.14	5014.86		2/13/2020	9.64	2.60	7.04	5014.36
	3/17/2020	14.67	2.70	11.97	5015.03		3/17/2020	9.65	2.60	7.05	5014.35
	4/21/2020	13.78	2.70	11.08	5015.92		4/21/2020	8.77	2.60	6.17	5015.23
	5/28/2020	13.21	2.70	10.51	5016.49		5/28/2020	8.43	2.60	5.83	5015.57
	6/24/2020	12.83	2.70	10.13	5016.87		6/24/2020	7.60	2.60	5.00	5016.40
	8/7/2020	12.50	2.70	9.80	5017.20		8/7/2020	7.14	2.60	4.54	5016.86
	10/13/2020	12.56	2.70	9.86	5017.14		10/13/2020	7.14	2.60	4.54	5016.86
	12/7/2020	12.92	2.70	10.22	5016.78		12/7/2020	7.41	2.60	4.81	5016.59
	1/12/2021	12.98	2.70	10.28	5016.72		1/12/2021	7.71	2.60	5.11	5016.29
	3/31/2021	13.06	2.70	10.36	5016.64		3/31/2021	7.52	2.60	4.92	5016.48
	4/13/2021	12.85	2.70	10.15	5016.85		4/13/2021	7.37	2.60	4.77	5016.63
	6/15/2021	12.81	2.70	10.11	5016.89		6/15/2021	7.76	2.60	5.16	5016.24
	7/13/2021	12.89	2.70	10.19	5016.81		7/13/2021	7.87	2.60	5.27	5016.13
	8/30/2021	13.26	2.70	10.56	5016.44		8/30/2021	8.21	2.60	5.61	5015.79
	11/2/2021	13.72	2.70	11.02	5015.98		11/2/2021	8.55	2.60	5.95	5015.45
	12/8/2021	14.01	2.70	11.31	5015.69		12/8/2021	8.73	2.60	6.13	5015.27
	2/15/2022	14.30	2.70	11.60	5015.40		2/15/2022	8.94	2.60	6.34	5015.06
	4/12/2022	13.72	2.70	11.02	5015.98		4/12/2022	8.53	2.60	5.93	5015.47
	6/29/2022	13.13	2.70	10.43	5016.57		6/29/2022	8.01	2.60	5.41	5015.99
	8/17/2022	13.88	2.70	11.18	5015.82		8/17/2022	9.21	2.60	6.61	5014.79
	10/18/2022	13.10	2.70	10.40	5016.60		10/18/2022	7.78	2.60	5.18	5016.22
	12/8/2022	14.27	2.70	11.57	5015.43		12/8/2022	9.24	2.60	6.64	5014.76

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MW3-AS		DTW in Field (ft)	Stick-up (ft)	GW Depth (ft bgs)	GW Elevation (amsl)	MH-9		DTW in Field (ft)	Stick-up (ft)	GW Depth (ft bgs)	GW Elevation (amsl)
Surf. Elev. (amsl):	5027.0					Surf. Elev. (amsl):	5021.4				
Total Depth (ft bgs):	30.5					Total Depth (ft bgs):	17.5				
	2/17/2023	14.86	2.70	12.16	5014.84		2/17/2023	10.32	2.60	7.72	5013.68
	4/20/2023	14.25	2.70	11.55	5015.45		4/20/2023	9.35	2.60	6.75	5014.65
	6/13/2023	13.12	2.70	10.42	5016.58		6/13/2023	8.28	2.60	5.68	5015.72
	8/4/2023	12.46	2.70	9.76	5017.24		8/4/2023	7.25	2.60	4.65	5016.75
	10/25/2023	12.42	2.70	9.72	5017.28		10/25/2023	7.01	2.60	4.41	5016.99
	12/5/2023	13.07	2.70	10.37	5016.63		12/5/2023	7.69	2.60	5.09	5016.31
	2/26/2024	14.19	2.70	11.49	5015.51		2/26/2024	9.07	2.60	6.47	5014.93
	4/24/2024	13.15	2.70	10.45	5016.55		4/24/2024	8.12	2.60	5.52	5015.88
	6/4/2024	12.41	2.70	9.71	5017.29		6/4/2024	7.31	2.60	4.71	5016.69
	8/6/2024	12.30	2.70	9.60	5017.40		8/6/2024	7.00	2.60	4.40	5017.00
	10/16/2024	12.62	2.70	9.92	5017.08		10/16/2024	7.27	2.60	4.67	5016.73
	12/3/2024	13.21	2.70	10.51	5016.49		12/3/2024	7.93	2.60	5.33	5016.07

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Speer Monitoring Wells - Groundwater Elevation Readings											
MH-10		DTW in Field (ft)	Stick-up (ft)	GW Depth (ft bgs)	GW Elevation (amsl)	MH-12 / MH-12R		DTW in Field (ft)	Stick-up (ft)	GW Depth (ft bgs)	GW Elevation (amsl)
Surf. Elev. (amsl):	5017.5					Surf. Elev. (amsl):	5016.0				
Total Depth (ft bgs):	32.5					Total Depth (ft bgs):	30.5				
Date:	7/8/2016	13.00	2.60	10.40	5007.10	Date:	7/8/2016	12.50	3.00	9.50	5006.50
	9/29/2016	14.45	2.60	11.85	5005.65		9/29/2016	13.70	3.00	10.70	5005.30
	11/11/2016	--	2.60	--	--		11/11/2016	--	3.00	--	--
	12/30/2016	14.05	2.60	11.45	5006.05		12/30/2016	13.10	3.00	10.10	5005.90
	3/10/2017	--	2.60	--	--		3/10/2017	--	3.00	--	--
	5/26/2017	--	2.60	--	--		5/26/2017	--	3.00	--	--
	10/20/2017	14.40	2.60	11.80	5005.70		10/20/2017	13.40	3.00	10.40	5005.60
	1/5/2018	14.20	2.60	11.60	5005.90		1/5/2018	13.50	3.00	10.50	5005.50
	4/4/2018	14.25	2.60	11.65	5005.85		4/4/2018	13.42	3.00	10.42	5005.58
	8/23/2018	14.18	2.60	11.58	5005.92		8/23/2018	13.33	3.00	10.33	5005.67
	9/17/2018	14.43	2.60	11.83	5005.67		9/17/2018	13.50	3.00	10.50	5005.50
	10/17/2018	14.34	2.60	11.74	5005.76		10/17/2018	13.44	3.00	10.44	5005.56
	11/2/2018	14.19	2.60	11.59	5005.91		11/2/2018	13.28	3.00	10.28	5005.72
	12/21/2018	14.17	2.60	11.57	5005.93		12/21/2018	13.31	3.00	10.31	5005.69
	2/1/2019	14.12	2.60	11.52	5005.98		2/1/2019	13.26	3.00	10.26	5005.74
	3/1/2019	14.12	2.60	11.52	5005.98		3/1/2019	13.28	3.00	10.28	5005.72
	4/17/2019	14.17	2.60	11.57	5005.93		4/17/2019	13.29	3.00	10.29	5005.71
	6/3/2019	14.08	2.60	11.48	5006.02		6/3/2019	13.24	3.00	10.24	5005.76
	7/5/2019	11.29	2.60	8.69	5008.81		7/5/2019	10.70	3.00	7.70	5008.30
	8/1/2019	13.19	2.60	10.59	5006.91		8/1/2019	12.40	3.00	9.40	5006.60
	9/3/2019	14.22	2.60	11.62	5005.88		9/3/2019	13.37	3.00	10.37	5005.63
	10/16/2019	14.49	2.60	11.89	5005.61		10/16/2019	13.63	3.00	10.63	5005.37
	11/14/2019	13.77	2.60	11.17	5006.33		11/14/2019	12.98	3.00	9.98	5006.02
	12/13/2020	14.04	2.60	11.44	5006.06		12/13/2020	13.31	3.00	10.31	5005.69
	1/8/2020	14.09	2.60	11.49	5006.01		1/8/2020	13.36	3.00	10.36	5005.64
	2/13/2020	14.07	2.60	11.47	5006.03		2/13/2020	13.35	3.00	10.35	5005.65
	3/17/2020	14.15	2.60	11.55	5005.95		3/17/2020	13.32	3.00	10.32	5005.68
	4/21/2020	13.78	2.60	11.18	5006.32		4/21/2020	13.00	3.00	10.00	5006.00
	5/28/2020	13.66	2.60	11.06	5006.44		5/28/2020	12.81	3.00	9.81	5006.19
	6/24/2020	13.13	2.60	10.53	5006.97		6/24/2020	12.32	3.00	9.32	5006.68
	8/7/2020	14.35	2.60	11.75	5005.75		8/7/2020	13.50	3.00	10.50	5005.50
	10/13/2020	14.66	2.60	12.06	5005.44		10/13/2020	13.68	3.00	10.68	5005.32
	12/7/2020	14.30	2.60	11.70	5005.80		12/7/2020	13.39	3.00	10.39	5005.61
	1/12/2021	14.37	2.60	11.77	5005.73		1/12/2021	13.54	3.00	10.54	5005.46
	3/31/2021	14.04	2.60	11.44	5006.06		3/31/2021	13.19	3.00	10.19	5005.81
	4/13/2021	14.28	2.60	11.68	5005.82		4/13/2021	13.40	3.00	10.40	5005.60
	6/15/2021	13.81	2.60	11.21	5006.29		6/15/2021	12.93	3.00	9.93	5006.07
	7/13/2021	13.66	2.60	11.06	5006.44		7/13/2021	12.71	3.00	9.71	5006.29
	8/30/2021	14.32	2.60	11.72	5005.78		8/30/2021	13.35	3.00	10.35	5005.65
	11/2/2021	14.32	2.60	11.72	5005.78		11/2/2021	13.29	3.00	10.29	5005.71
	12/8/2021	14.28	2.60	11.68	5005.82		12/8/2021	13.27	3.00	10.27	5005.73
	2/15/2022	14.19	2.60	11.59	5005.91		2/15/2022	13.20	3.00	10.20	5005.80
	4/12/2022	14.32	2.60	11.72	5005.78		4/12/2022	13.37	3.00	10.37	5005.63
	6/29/2022	13.67	2.60	11.07	5006.43		6/29/2022	12.62	3.00	9.62	5006.38
	8/17/2022	12.35	2.60	9.75	5007.75		8/17/2022	11.90	3.00	8.90	5007.10
	10/18/2022	14.47	2.60	11.87	5005.63		10/18/2022	N/A	N/A	N/A	N/A
	12/8/2022	14.30	2.60	11.70	5005.80		12/8/2022	N/A	N/A	N/A	N/A

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MH-10		DTW in Field (ft)	Stick-up (ft)	GW Depth (ft bgs)	GW Elevation (amsl)	MH-12 / MH-12R		DTW in Field (ft)	Stick-up (ft)	GW Depth (ft bgs)	GW Elevation (amsl)
Surf. Elev. (amsl):	5017.5					Surf. Elev. (amsl):	5016.0				
Total Depth (ft bgs):	32.5					Total Depth (ft bgs):	30.5				
	2/17/2023	14.26	2.60	11.66	5005.84	Begin MH-12R:	2/17/2023	N/A	N/A	N/A	N/A
	4/20/2023	14.58	2.60	11.98	5005.52		4/20/2023	N/A	N/A	N/A	N/A
	6/13/2023	10.91	2.60	8.31	5009.19		6/13/2023	10.87	2.92	7.95	5008.05
	8/4/2023	13.65	2.60	11.05	5006.45		8/4/2023	13.47	2.92	10.55	5005.45
	10/25/2023	14.05	2.60	11.45	5006.05		10/25/2023	13.79	2.92	10.87	5005.13
	12/5/2023	14.21	2.60	11.61	5005.89		12/5/2023	13.87	2.92	10.95	5005.05
	2/26/2024	14.15	2.60	11.55	5005.95		2/26/2024	13.81	2.92	10.89	5005.11
	4/24/2024	14.12	2.60	11.52	5005.98		4/24/2024	13.95	2.92	11.03	5004.97
	6/4/2024	12.92	2.60	10.32	5007.18		6/4/2024	12.56	2.92	9.64	5006.36
	8/6/2024	14.02	2.60	11.42	5006.08		8/6/2024	13.57	2.92	10.65	5005.35
	10/16/2024	14.27	2.60	11.67	5005.83		10/16/2024	14.00	2.92	11.08	5004.92
	12/3/2024	14.19	2.60	11.59	5005.91		12/3/2024	13.92	2.92	11.00	5005.00

**Speer Mining Resource
Groundwater Well Elevations 2016 - 2024**

