

APPENDIX A

Well Inventory Summary Tables

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Table 1. Current Wells within 2 Kilometers of Project Area

Hydro ID	Legal Location				SD State Plane NAD 27		Aquifer ⁽¹⁾	Use
	T.	R.	Sec.	Qtr. Qtr.	East (ft)	North (ft)		
1	7S	1E	9	SESE	1027696	429227	Chilson	Stock
2	7S	1E	16	SESE	1026724	423922	Chilson	Domestic
3	7S	1E	22	SWNW	1028593	421104	Chilson	Stock ⁽²⁾
4	7S	1E	15	SESE	1032516	423080	Unknown	Stock ⁽²⁾
5	7S	1E	14	NENW	1035181	427284	Fall River	Stock ⁽²⁾
6	7S	1E	14	NESE	1037218	425012	Fall River	Stock
7	7S	1E	23	NWNW	1033304	422417	Fall River	Domestic
9	7S	1E	23	NENE	1038003	421806	Fall River	Stock
11	7S	1E	24	NWSW	Long. 103.952837	Lat. 43.425719	Sundance	Stock ⁽²⁾
12	7S	1E	4	SESE	1026978	434378	Chilson	Stock
13	7S	1E	3	NWNW	1028360	438470	Chilson	Domestic
14	7S	1E	2	NWSW	1033700	434723	Fall River	Stock
15	7S	1E	2	NENW	1035304	438317	Chilson	Stock
16	7S	1E	1	NWSE	1041449.338 ⁽⁸⁾	434482.1091 ⁽⁸⁾	Chilson	Domestic
17	7S	1E	12	SENW	1040223	431329	Fall River	Stock
18	7S	1E	9	SWSW	1022812	428960	Fall River	Domestic
37	7S	2E	18	NWSW	1045180.03 ⁽⁸⁾	423902.7611 ⁽⁸⁾	Fall River	Stock
38	6S	1E	33	SWNW	1024328	442289	Fall River	Stock
40 ⁽³⁾	6S	1E	30	SWNW	1013415	447182	Inyan Kara	Domestic
41	6S	1E	31	SWNE	1015385	442081	Unknown	Stock
42	7S	1E	5	SWNE	1021144	436481	Chilson	Domestic
43	6S	1E	34	SWSE	1031123	439436	Chilson	Domestic
49	6S	1E	32	NWNW	1018932	444022	Fall River	Stock
50	41N	60W	28	SWNW	974693	446835	Chilson	Stock
51	7S	1E	9	SENE	1027411	431487	Chilson	Stock
61	7S	1E	11	NWSE	1036832	429987	Chilson	Stock
96	41N	60W	22	SWSW	1011630	451853	Chilson	Domestic
102	6S	1E	18	SWNE	1016825	458312	Chilson	Domestic
106	6S	1E	18	NENE	1018099	459625	Unknown	Stock
107	6S	1E	18	SWNE	1017018	458158	Fall River	Domestic
109	6S	1E	17	NENW	1020801	459625	Chilson	Domestic
110	6S	1E	17	NENE	1023777	459643	Chilson	Stock
111	6S	1E	17	NWNE	1022074	459586	Fall River	Stock
112	6S	1E	16	SESE	1027864	455881	Fall River	Stock
113	7S	2E	6	NESW	1046437	434417	Unknown	Stock
114	7S	2E	7	SESW	1045410	428653	Unkpapa	Stock
115	6S	1E	18	SENE	1017697	457640	Inyan Kara	Domestic
116	6S	1E	18	SENE	1017992	458111	Fall River	Stock
117	6S	1E	8	SWSE	1022177	460796	Unknown	Stock
138	6S	1E	18	NENE	1017537	459030	Fall River	Domestic
147	6S	1E	17	NESW	1020879	456566	Chilson	Monitor
220	6S	1E	19	SENE	1017872	452334	Unknown	Stock

Table 1. Current Wells within 2 Kilometers of Project Area (Cont'd)

Hydro ID	Legal Location				SD State Plane NAD 27		Aquifer ⁽¹⁾	Use
	T.	R.	Sec.	Qtr. Qtr.	East (ft)	North (ft)		
270	6S	1E	19	NWSW	1014108	451942	Unknown	Stock
436	6S	1E	20	NWNE	1021603	454436	Fall River	Monitor
506	7S	2E	8	SWNW	1050129	430704	Unkpapa	Stock
510	7S	1E	12	SESE	1042944.686 ⁽⁸⁾	428048.0785 ⁽⁸⁾	Chilson	Stock
609	6S	1E	29	SWNE	1021735	447808	Chilson	Monitor
610	6S	1E	29	SWNE	1021599	447969	Fall River	Monitor
611	6S	1E	20	NWNE	1021837	453958	Chilson	Monitor
612	6S	1E	20	NWNE	1021757	454133	Chilson	Monitor
613	6S	1E	20	NWNE	1022125	453775	Fall River	Monitor
614	6S	1E	20	NWNE	1022185	453769	Fuson	Monitor
615	6S	1E	20	NWNE	1022172	453708	Chilson	Monitor
616	6S	1E	20	SWNE	1022135	453141	Chilson	Monitor
617	6S	1E	20	NWNE	1021029	453586	Chilson	Monitor
618	7S	1E	2	SENE	1038099.328 ⁽⁸⁾	435929.2455 ⁽⁸⁾	Unknown	Stock
619	7S	1E	2	NWNW	1034738.736 ⁽⁸⁾	437071.3154 ⁽⁸⁾	Chilson	Stock
620	6S	1E	35	NWNW	1033951	443209	Chilson	Stock
622	6S	1E	20	NENE	1022776	454033	Chilson	Monitor
623	6S	1E	20	NENE	1022669	454299	Fall River	Monitor
624	6S	1E	18	SENE	1017992 ⁽⁴⁾	458111 ⁽⁴⁾	Fall River	Monitor
628	6S	1E	20	SESE	1022654	449402	Fall River	Stock
631	6S	1E	26	NWNW	1034335	448992	Fall River	Stock
637	7S	1E	11	NESE	1038075	430320	Chilson	Monitor
638	7S	1E	2	NENE	1038269	437976	Fall River	Monitor
639	7S	2E	7	SENW	1045704	430722	Unknown	Stock
640	7S	1E	12	SESE	1043029.097 ⁽⁸⁾	427971.0258 ⁽⁸⁾	Unknown	Stock
642	7S	1E	12	SESE	1042944.318 ⁽⁸⁾	428041.5258 ⁽⁸⁾	Unknown	Stock
645	7S	1E	16	NENE	1027681	427998	Unknown	Stock
650	7S	1E	1	SESE	1043794.939 ⁽⁸⁾	433351.0905 ⁽⁸⁾	Chilson	Stock
656	6S	1E	31	SENW	1014230	442000	Unknown	Stock
657	6S	1E	20	NWNE	1021637	454497	Chilson	Monitor
662	7S	1E	11	SESW	1035381	428928	Sundance	Monitor
668	7S	1E	15	NWNE	1031029	427450	Inyan Kara	Stock
676	6S	1E	34	SESW	1030866.53 ⁽⁶⁾	439850.97 ⁽⁶⁾	Alluvial	Monitor
677	7S	1E	4	SWSW	1023525.46 ⁽⁶⁾	434082.67 ⁽⁶⁾	Alluvial	Monitor
678	7S	1E	9	SWNE	1026522.38 ⁽⁶⁾	431925.25 ⁽⁶⁾	Alluvial	Monitor
679	6S	1E	27	NWSE	1032295.19 ⁽⁶⁾	446247.62 ⁽⁶⁾	Alluvial	Monitor
680	7S	1E	11	NESW	1035078	429969	Chilson	Monitor
681	6S	1E	32	NENW	1020330	443725	Fall River	Monitor
682	7S	1E	11	SENW	1035136	431259	Chilson	Monitor
683	6S	1E	29	NESW	1020209	446107	Fall River	Monitor
684	7S	1E	11	NESW	1035188	429745	Chilson	Monitor
685	6S	1E	32	NWNE	1020687	443415	Fall River	Monitor
686	7S	1E	11	NESW	1034966	429751	Chilson	Monitor

Table 1. Current Wells within 2 Kilometers of Project Area (Cont'd)

Hydro ID	Legal Location				SD State Plane NAD 27		Aquifer ⁽¹⁾	Use
	T.	R.	Sec.	Qtr. Qtr.	East (ft)	North (ft)		
687	6S	1E	32	NENW	1020078	443730	Fall River	Monitor
688	7S	1E	11	NESW	1035027	429974	Fall River	Monitor
689	6S	1E	32	NENW	1020316	443789	Chilson	Monitor
690	7S	1E	11	NESW	1035113	429971	Unkpapa	Monitor
691	6S	1E	32	NENW	1020366	443706	Fall River	Monitor
692	7S	1E	11	NESW	1035068	429999	Chilson	Monitor
693	6S	1E	32	NENW	1020329	443667	Unkpapa	Monitor
694	7S	1E	15	NWNW	1028717	426836	Fall River	Monitor
695	6S	1E	32	SESE	1022385	439312	Fall River	Monitor
696	7S	1E	15	NWNW	1028687	426946	Chilson	Monitor
697	6S	1E	32	SESE	1022350	439347	Chilson	Monitor
698	7S	1E	2	NESW	1035946	436967	Fall River	Monitor
703	7S	1E	1	SWSE	1042294	434136	Unkpapa	Domestic
704 ⁽⁵⁾	7S	1E	5	SWNE	1020966	436647	Chilson (Beginning 2/4/2009)	Domestic
704 ⁽⁵⁾	7S	1E	5	SWNE	1020966	436647	Unkpapa (Cemented to Chilson 1/28/2009)	Domestic
705	6S	1E	21	NENE	1028624	453314	Chilson	Monitor
706	6S	1E	21	NENE	1028589	453276	Fall River	Monitor
707	6S	1E	34	SWNE	1032076.78 ⁽⁶⁾	441787.39 ⁽⁶⁾	Alluvial	Monitor
708	7S	1E	3	SESW	1030408.69 ⁽⁶⁾	434084.74 ⁽⁶⁾	Alluvial	Monitor
709	7S	1E	15	SESW	1029433.59 ⁽⁶⁾	426581.75 ⁽⁶⁾	Alluvial	Monitor
710	6S	1E	17	NWNW	1019432 ⁽⁷⁾	459053 ⁽⁷⁾	Unknown	Irrigation
711	7S	1E	3	SWSE	10303766.04 ⁽⁶⁾	434621.05 ⁽⁶⁾	Alluvial	Monitor
712	7S	1E	3	SESW	1030551.63 ⁽⁶⁾	434347.43 ⁽⁶⁾	Alluvial	Monitor
713	7S	1E	3	SESW	1030459.68 ⁽⁶⁾	434202.54 ⁽⁶⁾	Alluvial	Monitor
714	7S	1E	3	SESW	1030635.29 ⁽⁶⁾	434192.58 ⁽⁶⁾	Alluvial	Monitor
715	7S	1E	3	NESE	1031225.61 ⁽⁶⁾	435702.30 ⁽⁶⁾	Alluvial	Monitor
3026	7S	1E	1	SESE	1043749	433354	Chilson	Monitor
4002	6S	1E	30	NWSW	1013414	446931	Inyan Kara	Domestic
5002	41N	60W	28	SWSW	974687	446660	Chilson	Stock
7002	7S	1E	23	NWNW	1033333	421931	Chilson	Stock
BC-1	7S	1E	3	SWNW	1029474.73 ⁽⁶⁾	436026.65 ⁽⁶⁾	Alluvial	Monitor
BC-2	7S	1E	3	NESW	1030548.07 ⁽⁶⁾	434253.95 ⁽⁶⁾	Alluvial	Monitor
BC-3	7S	1E	3	NWNW	1029035.98 ⁽⁶⁾	438165.90 ⁽⁶⁾	Alluvial	Monitor
BI-2	7S	1E	3	NESE	1030980.14 ⁽⁶⁾	434898.92 ⁽⁶⁾	Alluvial	Monitor
DC-1	6S	1E	30	NWSW	1013760.44 ⁽⁶⁾	447093.13 ⁽⁶⁾	Alluvial	Monitor
DC-2	6S	1E	30	SESW	1014726.19 ⁽⁶⁾	444788.27 ⁽⁶⁾	Alluvial	Monitor
DC-3	6S	1E	31	NWNE	1016403.16 ⁽⁶⁾	444037.97 ⁽⁶⁾	Alluvial	Monitor
DC-4	6S	1E	32	NWNW	1018562.17 ⁽⁶⁾	443942.11 ⁽⁶⁾	Alluvial	Monitor



- Table 1 (1) Inyan Kara indicates screened interval is across Fall River and Chilson.
- Notes:
- (2) Former oil and gas test well.
 - (3) Hydro ID 40 possibly replaced by BY-1 (depth 680 ft and casing diameter 5.5 inches) on 3/4/1982
 - (4) Coordinates and elevation for Hydro ID 116 used for Hydro ID 624 pending field verification
 - (5) 704 was originally completed in the Unkpapa aquifer. It was recompleted 1/28/2009 in the Chilson aquifer.
 - (6) Surveyed by Andersen Engineers, 2012
 - (7) Handheld GPS coordinates converted to South Dakota State Plane NAD 27, Powertech (USA) Inc., February 2012
 - (8) Handheld GPS coordinates converted to South Dakota State Plane NAD 27, Powertech (USA) Inc., August 2009

Table 2. Historical Wells Noted in Data Sources within 2 Kilometers but No Longer Present at Surface

Hydro ID	Legal Location				SD State Plane NAD 27		Former Aquifer	Previous Use
	T.	R.	Sec.	Qtr. Qtr.	East (ft)	North (ft)		
10	7S	1E	13	NENE	1043663.771 ⁽⁸⁾	427041.3601 ⁽⁸⁾	Chilson	Stock
39	6S	1E	29	NENE	1022916	448656	Chilson	Stock
48	6S	1E	19	SENW	1015295	453037	Chilson	Stock
425	7S	1E	14	SENW	1034449	426208	Chilson	Unknown
429 ⁽¹⁾	6S	1E	20	SENE	1023157	452953	Not a Well ⁽¹⁾	NA
431 ⁽²⁾	6S	1E	20	SENE	1023157	452953	Not a Well ⁽²⁾	NA
432 ⁽³⁾	6S	1E	20	SENE	1023157	452953	Not a Well ⁽³⁾	NA
433 ⁽⁴⁾	6S	1E	20	SENE	1023157	452953	Not a Well ⁽⁴⁾	NA
502	6S	1E	27	NWSE	1031990	446360	Alluvial	Unknown
605 ⁽⁵⁾	7S	1E	10	SWSE	1031814	428484	Not a Well ⁽⁵⁾	NA
621	6S	1E	27	NWSE	1031930	446397	Alluvial	Unknown
634	6S	1E	34	NESE	1032502	440168	Unknown	Unknown
635 ⁽⁶⁾	7S	1E	14	NENW	1004085	427131	Not a Well ⁽⁶⁾	NA
646	7S	1E	15	SWNE	1031248	426409	Fall River	Monitor
651 ⁽⁷⁾	7S	1E	14	NWSE	1036009	424246	Not a Well ⁽⁷⁾	NA
658	7S	1E	15	SWNE	1031234	426398	Chilson	Monitor
659	7S	1E	10	SWNE	1031876	431048	Fall River	Monitor
660	7S	1E	10	SWNE	1031822	431030	Chilson	Monitor
661	7S	1E	12	NENW	1040977	431970	Chilson	Monitor
663	7S	1E	10	SWSE	1030659	428346	Chilson	Monitor
664	7S	1E	10	SWSE	1030634	428338	Fall River	Monitor
669	7S	1E	15	NWNE	1031005	427910	Chilson	Monitor
670	7S	1E	15	NWNE	1031065	427936	Fuson	Monitor
671	7S	1E	15	NWNE	1031016	427870	Fall River	Monitor
672	7S	1E	15	NWNE	1030632	427480	Fall River	Monitor
673	7S	1E	15	NWNE	1030628	427511	Fuson	Monitor
674	7S	1E	15	NWNE	1030555	427513	Chilson	Monitor

- Notes:
- (1) Hydro ID 429 duplicates Hydro ID 615.
 - (2) Hydro ID 431 duplicates Hydro ID 611.
 - (3) Hydro ID 432 duplicates Hydro ID 612.
 - (4) Hydro ID 433 duplicates Hydro ID 616.
 - (5) Hydro ID 605 is not a well. It is a pipe from Hydro ID 668.
 - (6) Hydro ID 635 is not a well. It is a pipe from 5.
 - (7) Hydro ID 651 is not a well. It was historically a pipe from Hydro ID 6.
 - (8) Handheld GPS coordinates converted to South Dakota State Plane NAD 27, Powertech (USA) Inc., August 2009
- UNK = Unknown
 NA = Not applicable, not a well

Table 3. Plugged and Abandoned Wells within 2 Kilometers of the Project Area

Hydro ID	Legal Location				SD State Plane NAD 27		Former Aquifer	Previous Use
	T.	R.	Sec.	Qtr. Qtr.	East (ft)	North (ft)		
606	7S	1E	11	SWSW	1033713	428609	Unknown	Unknown
636	7S	1E	11	NESW	1034774	429982	Unknown	Unknown
652	7S	1E	2	NWSE	1036383.302 ⁽¹⁾	434753.7379 ⁽¹⁾	Unknown	Unknown
653	7S	1E	22	NWNE	1030679	422487	Unknown	Unknown
654	6S	1E	34	NWNE	1032372	443410	Unknown	Unknown
655	6S	1E	34	NENE	1033454	443307	Unknown	Unknown
665	7S	1E	11	SWSW	1033153	428901	Fall River	Monitor
666	7S	1E	11	SWSW	1033128	428870	Chilson	Monitor
---	6S	1E	19	SWSE	Long 104.042397	Lat 43.508820	Fall River	Oil Test
---	6S	1E	19	SWSE	Long 104.042397	Lat 43.508820	Fall River	Oil Test
---	7S	1E	2	SESE	Long 103.958032	Lat 43.466062	Minnelusa	Oil Test
---	7S	1E	22	NWSE	Long 103.983142	Lat 43.429674	Minnelusa	Oil Test
---	7S	1E	11	SWSE	Long 103.963826	Lat 43.451453	Minnelusa	Oil Test
---	7S	1E	21	NENE	Long 103.997735	Lat 43.433117	Minnelusa	Oil Test
---	7S	1E	15	SWSW	Long 103.991563	Lat 43.435870	Minnelusa	Oil Test
---	7S	1E	21	NENE	Long 103.996978	Lat 43.433064	Minnelusa	Oil Test
---	7S	1E	21	NESE	Long 103.997224	Lat 43.425795	Madison	Oil Test

Notes: (1) Handheld GPS coordinates converted to South Dakota State Plane NAD 27, Powertech (USA) Inc., August 2009