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Table 16. - Analyses for uranium in water samples from wells and springs in the Slim Buttes, Harding County, S. Dak.

[Locations of wells and springs shown on plate 12 in U.S. Geol. Survey Prof. Paper 463, 1965. pH: n.d. indicates not determined. Analysts: H. E. Bivens, E. J. Fennelly, S. P. Furman, J. McGurk, Wayne Mountjoy, J. W. Patton, and J. P. Schuch.

Asterisk (*) indicates that some of the springs which are shown on the geologic map of Slim Buttes (pl. 12) as being in landslide material actually derived their water from the Chadron, Brule, or Arikaree Formations and are reported accordingly]

Source of sample	Sample No.	Location: Section	T. N.	R. E.	Uranium content (ppb)	pH	Formation
Spring---	D-95078	SW¼NE¼ 2	16	8	14	n.d.	Arikaree.
Do-----	073	NE¼SW¼ 2	16	8	200	n.d.	Do.
Do-----	074	NE¼SE¼ 3	16	8	32	n.d.	Do.
Do-----	077	NE¼SE¼ 3	16	8	14	n.d.	Do.
Do-----	081	NE¼SE¼ 4	16	8	10	n.d.	Do.
Do-----	D-87590	NE¼SW¼ 5	16	8	12	n.d.	Do.
Do*----	230308	SE¼SE¼ 5	16	8	1/ 52	9.3	Do.
Do-----	D-95080	SE¼SW¼ 6	16	8	20	n.d.	Do.
Do-----	079	NW¼NW¼ 8	16	8	15	n.d.	Do.
Do-----	D-87608	SE¼SW¼ 9	16	8	56	n.d.	Do.
Do-----	D-95075	SW¼NE¼ 10	16	8	1/ 66	n.d.	Do.
Do*----	233336	NE¼SE¼ 10	16	8	1/ 64	9.6	Do.
Do-----	D-95070	SW¼SE¼ 12	16	8	24	n.d.	Fort Union.
Do-----	235052	SW¼NE¼ 13	16	8	19	8.3	Arikaree.
Do-----	D-95068	SE¼NW¼ 13	16	8	24	n.d.	Do.
Do-----	067	NW¼SE¼ 13	16	8	13	n.d.	Do.
Do-----	076	NE¼SW¼ 14	16	8	46	n.d.	Do.
Do-----	069	SE¼SE¼ 14	16	8	13	n.d.	Do.
Well-----	-------	NE¼NE¼ 22	16	8	1	n.d.	Hell Creek.
Spring---	D-95065	SW¼NE¼ 24	16	8	11	n.d.	Arikaree.
Do-----	D-93150	SE¼NW¼ 17	16	9	1	n.d.	Hell Creek.
Do-----	D-95066	NE¼NW¼ 19	16	9	13	n.d.	Arikaree.
Do-----	D-95071	SW¼NE¼ 20	16	9	2	n.d.	Do.
Do-----	235053	NE¼SW¼ 28	16	9	10	8.2	Do.
Do-----	D-95072	SW¼SW¼ 28	16	9	5	n.d.	Do.
Do-----	064	SW¼NE¼ 29	16	9	4	n.d.	Do.
Do-----	D-87610	SW¼SE¼ 1	17	7	42	n.d.	Do.
Do-----	D-82962	NE¼SE¼ 1	17	7	30	n.d.	Do.
Well-----	D-70095	NE¼SE¼ 3	17	7	2	n.d.	Hell Creek.
Do-----	094	SW¼SE¼ 8	17	7	10	n.d.	Do.
Spring---	D-82965	SE¼NE¼ 12	17	7	17	n.d.	Arikaree.
Do-----	D-93910	SE¼SW¼ 12	17	7	12	n.d.	Chadron.
Do-----	235055	SW¼NE¼ 13	17	7	35	7.9	Arikaree.
Do-----	D-93911	SE¼SW¼ 13	17	7	65	n.d.	Do.
Do-----	897	SE¼SE¼ 13	17	7	8	n.d.	Do.
Do-----	D-70093	SE¼NE¼ 16	17	7	2	n.d.	Hell Creek.
Well-----	235054	NE¼NE¼ 22	17	7	2	8.0	Do.
Spring---	D-87592	NE¼NW¼ 25	17	7	28	n.d.	Arikaree.
Do-----	D-93888	SW¼NW¼ 25	17	7	30	n.d.	Do.
Do-----	890	SW¼SE¼ 25	17	7	46	n.d.	Do.
Do-----	216355	SE¼SW¼ 26	17	7	55	9.0	Chadron.
Do-----	D-93891	SE¼SE¼ 36	17	7	39	n.d.	Arikaree.
Well-----	D-95053	SW¼SW¼ 2	17	8	2	n.d.	Hell Creek.
Spring---	D-82963	SE¼SE¼ 6	17	8	4	n.d.	Fort Union.
Do-----	D-87609	SE¼NW¼ 6	17	8	16	n.d.	Arikaree.
Do-----	D-93144	SE¼NW¼ 7	17	8	6	n.d.	Do.
Do-----	D-82959	NE¼NE¼ 7	17	8	6	n.d.	Do.
Do-----	D-93146	SE¼SE¼ 7	17	8	44	n.d.	Do.
Do-----	D-87607	SE¼SW¼ 9	17	8	6	n.d.	Chadron.
Do-----	D-93913	NE¼SW¼ 15	17	8	9	n.d.	Do.
Do-----	D-87604	NW¼SE¼ 16	17	8	2	n.d.	Fort Union.
Do-----	D-87605	SW¼SW¼ 16	17	8	2	n.d.	Do.
Do-----	603	SE¼NW¼ 17	17	8	4	n.d.	Chadron.
Do-----	D-93896	NW¼SE¼ 18	17	8	6	n.d.	Arikaree.
Do-----	895	NW¼SW¼ 18	17	8	10	n.d.	Do.
Well-----	D-95052	SE¼NW¼ 26	17	8	5	n.d.	Hell Creek.
Do-----	050	NE¼NE¼ 28	17	8	2	n.d.	Do.
Spring---	D-93889	SW¼SE¼ 30	17	8	40	n.d.	Arikaree.
Do-----	D-87591	NW¼SW¼ 31	17	8	27	n.d.	Do.
Do-----	606	SW¼SE¼ 32	17	8	2	n.d.	Fort Union.
Spring---	-------	SW¼SW¼ 32	17	8	1/ 41	n.d.	Arikaree.
Do-----	235050	NW¼SW¼ 34	17	8	1/ 164	9.0	Do.
Do-----	D-93143	SW¼SE¼ 32	17	9	5	n.d.	Brule.
Do-----	216359	SE¼NE¼ 1	18	7	28	8.6	Chadron.
Well-----	78	SE¼NW¼ 13	18	7	1	7.0	Fort Union.
Spring---	D-93140	SE¼SE¼ 24	18	7	46	n.d.	Chadron.
Do-----	134	NE¼NE¼ 25	18	7	26	n.d.	Do.
Well-----	138	SW¼NW¼ 34	18	7	1	n.d.	Hell Creek.
Spring---	235056	NW¼NE¼ 36	18	7	4	n.d.	Fort Union.
Do-----	D-87593	SE¼SE¼ 36	18	7	30	n.d.	Arikaree.
Do-----	216371	NW¼NE¼ 3	18	8	6	7.7	Do.
Do-----	0735	NW¼NW¼ 5	18	8	67	9.3	Do.
Do-----	0734	NW¼SW¼ 5	18	8	51	8.1	Do.
Do-----	6358	SW¼NW¼ 6	18	8	50	8.0	Do.
Do-----	285059	NE¼SW¼ 6	18	8	146	8.2	Do.
Do-----	235058	SE¼SW¼ 6	18	8	59	7.9	Fort Union.
Do-----	210746	SE¼NW¼ 7	18	8	9	9.0	Chadron.
Well-----	D-87596	NW¼SE¼ 9	18	8	58	n.d.	Fort Union.
Spring---	210741	SE¼NE¼ 9	18	8	72	8.6	Do.
Well-----	235051	NW¼NE¼ 12	18	8	1/ < 1	8.6	Hell Creek.
Do-----	210737	NE¼NE¼ 15	18	8	1	8.2	Fort Union.
Spring---	742	NE¼NE¼ 15	18	8	6	8.7	Do.
Well-----	D-93139	SW¼SW¼ 18	18	8	40	n.d.	Do.
Spring---	907	SE¼SW¼ 20	18	8	11	n.d.	Do.
Do-----	D-95056	NE¼SW¼ 21	18	8	110	n.d.	Do.
Well-----	D-87595	SE¼NE¼ 23	18	8	1	n.d.	Hell Creek.
Do-----	594	NE¼SE¼ 27	18	8	1	n.d.	Do.
Spring---	D-95055	SE¼NE¼ 29	18	8	22	n.d.	Arikaree.
Do-----	232845	SE¼NE¼ 30	18	8	20	8.9	Do.
Do-----	D-93136	SW¼SE¼ 30	18	8	1	n.d.	Fort Union.
Do-----	135	NW¼NE¼ 31	18	8	4	n.d.	Arikaree.
Do-----	D-87611	SW¼NE¼ 31	18	8	6	n.d.	Do.
Do-----	D-93149	NE¼NE¼ 32	18	8	32	n.d.	Do.
Do-----	148	SW¼NE¼ 32	18	8	7	n.d.	Do.
Do-----	914	SE¼SW¼ 32	18	8	10	n.d.	Do.
Well-----	D-95054	NE¼NW¼ 35	18	8	2	n.d.	Hell Creek.
Spring---	235060	SE¼NE¼ 24	19	7	18	8.6	Chadron.
Do-----	216471	SE¼SE¼ 24	19	7	10	8.8	Arikaree.
Do-----	356	NE¼NW¼ 25	19	7	27	9.1	Do.
Do-----	357	NE¼NW¼ 25	19	7	16	9.3	Do.
Do-----	-------	NW¼SW¼ 25	19	7	30	9.3	Do.
Do-----	210744	NE¼SW¼ 36	19	7	160	9.1	Do.
Do-----	743	NE¼SW¼ 36	19	7	110	9.1	Arikaree.
Do-----	745	SW¼SW¼ 36	19	7	90	8.6	Do.
Do-----	6349	NW¼SE¼ 19	19	8	6	8.8	Arikaree.
Well-----	0733	SE¼SE¼ 26	19	8	50	7.9	Chadron.
Spring---	6379	NW¼NW¼ 27	19	8	8	9.9	Fort Union.
Do-----	0738	SE¼NE¼ 28	19	8	2	8.9	Do.
Do-----	6350	SW¼NW¼ 29	19	8	19	9.1	Arikaree.
Do-----	374	NE¼NE¼ 30	19	8	7	9.1	Do.
Do-----	351	NE¼NE¼ 30	19	8	14	9.4	Do.
Do-----	210736	NE¼SW¼ 32	19	8	74	9.5	Do.
Do-----	739	NE¼NE¼ 32	19	8	51	9.5	Do.
Do-----	732	SW¼SE¼ 34	19	8	56	8.2	Chadron.
Well-----	216366	SE¼NE¼ 34	19	8	48	8.5	Do.

1/ Water sample analyzed for selected trace elements. See tables 9 and 11 in U.S. Geol. Survey Prof. Paper 463, 1965.

BASIC ANALYTICAL AND WELL DATA
SUMMARIZED IN U.S. GEOLOGICAL SURVEY
PROFESSIONAL PAPER 463, BY
N. M. DENSON AND J. R. GILL, 1965

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Table 17. - Analyses for uranium in water samples from wells and springs in the Short Pine Hills, Harding County, S. Dak.

[Locations of wells and springs shown on plate 14 in U.S. Geol. Survey Prof. Paper 463, 1965. Analysts: R. Daywitt, H. H. Lipp, and J. McClure]

Source of sample	Sample No.	Location: Section	T. N.	R. E.	Uranium content (ppb)	pH	Formation
Well-----	232841	NW¼NE¼ 2	16	1	8	7.7	Hell Creek.
Spring---	836	SW¼NE¼ 13	17	1	1/ 16	7.5	Chadron.
Do-----	233515	NW¼SW¼ 13	17	1	15	8.0	Do.
Do-----	232835	NE¼SE¼ 13	17	1	7	7.5	Do.
Do-----	839	SW¼NE¼ 24	17	1	29	8.0	Do.
Do-----	843	SE¼SW¼ 36	17	1	4	7.9	Do.
Do-----	217907	NE¼SW¼ 3	16	2	11	8.2	Arikaree.
Do-----	232854	SW¼NW¼ 3	16	2	4	8.7	Do.
Do-----	856	NE¼SE¼ 4	16	2	4	8.5	Do.
Do-----	831	NE¼NW¼ 5	16	2	8	7.8	Brule.
Do-----	853	NE¼NE¼ 9	16	2	2	8.7	Arikaree.
Do-----	855	SW¼NE¼ 10	16	2	3	8.5	Do.
Do-----	859	NW¼NE¼ 11	16	2	8	8.9	Chadron.
Do-----	857	NW¼NW¼ 16	16	2	11	8.6	Arikaree.
Well-----	858	SE¼SE¼ 22	16	2	42	8.6	Hell Creek.
Spring---	833	NE¼SW¼ 18	17	2	7	7.8	Brule.
Do-----	834	SE¼SW¼ 18	17	2	5	7.7	Chadron.
Do-----	842	NW¼NE¼ 20	17	2	5	7.5	Hell Creek.
Spring---	450	SE¼NW¼ 20	17	2	6	7.9	Do.
Do-----	851	SW¼SW¼ 23	17	2	20	8.8	Do.
Well-----	850	NE¼NE¼ 27	17	2	2	8.9	Hell Creek.
Spring---	840	SW¼SE¼ 30	17	2	7	7.5	Brule.
Do-----	848	SW¼NE¼ 33	17	2	7	8.7	Arikaree.
Do-----	849	NE¼SW¼ 33	17	2	8	8.7	Do.
Do-----	847	SW¼NW¼ 33	17	2	4	8.6	Do.
Do-----	852	NE¼SW¼ 34	17	2	3	8.7	Do.
Well-----	237551	SE¼NE¼ 35	17	2	1/ 598	7.7	Hell Creek.
Do-----	232449	SE¼NE¼ 35	17	2	89	8.0	Do.
Spring---	444	SW¼NE¼ 1	16	3	7	8.0	Arikaree.
Do-----	443	NE¼NW¼ 1	16	3	11	8.2	Chadron.
Do-----	446	NW¼SE¼ 1	16	3	9	7.8	Arikaree.
Do-----	441	NW¼NW¼ 11	16	3	8	8.0	Chadron.
Do-----	437	SW¼SE¼ 11	16	3	4	7.8	Brule.
Do-----	439	SE¼SW¼ 12	16	3	8	7.9	Do.
Do-----	440	SW¼SW¼ 13	16	3	4	7.8	Chadron.
Do-----	438	SW¼NE¼ 13	16	3	6	7.8	Do.
Do-----	844	NE¼NE¼ 13	17	3	1/ 1	8.1	Hell Creek.
Well-----	245851	NE¼SW¼ 23	17	3	1/ 8	8.9	Do.
Spring---	232548	NE¼NE¼ 35	17	3	22	8.8	Arikaree.
Do-----	445	NW¼NW¼ 7	16	4	5	7.9	Do.
Well-----	441	NE¼NW¼ 20	16	4	2	8.3	Hell Creek.

1/ Water sample analyzed for selected trace elements. See tables 9, 10, and 11 in U.S. Geol. Survey Prof. Paper 463, 1965.

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