65-40

Table 21. - Analyses for uranium in water samples from springs in the Ekalaka Hills, Carter County, Mont.

[Locations of springs shown on plate 17 in U.S. Geol. Survey Prof. Paper 463, 1965. pH: n.d. indicates not determined. Analysts: H. E. Bivens, S. P. Furman, H. H. Lipp, and J. P. Schuch]

Sample No.	Location			Uranium content (ppb)	pH	Formation
	Section	T.	R. E.			
201091	SW¼SW¼ 30	2 N.	59	6	n.d.	Fort Union.
110	SW¼NW¼ 1	1 N.	58	8	n.d.	Arikaree.
221938	SW¼SW¼ 13	1 N.	58	9	8.2	Fort Union.
201108	NE¼NE¼ 17	1 N.	58	3	n.d.	Arikaree.
106	NE¼NE¼ 19	1 N.	58	4	n.d.	Do.
107	NE¼SW¼ 21	1 N.	58	17	n.d.	Do.
221923	NW¼NE¼ 24	1 N.	58	2	8.2	Fort Union.
D-74944	SE¼SW¼ 24	1 N.	58	8	n.d.	Do.
945	NW¼SE¼ 27	1 N.	58	6	n.d.	Arikaree.
946	SW¼NE¼ 33	1 N.	58	4	n.d.	Fort Union.
246704	SE¼NE¼ 15	1 S.	57	23	7.8	Do.
217906	NW¼SW¼ 28	1 S.	57	21	8.0	Hell Creek.
246705	SW¼SE¼ 30	1 S.	57	11	7.6	Do.

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Table 20. - Analyses, in percent, for uranium in lignite, carbonaceous shale, and associated rocks from Ekalaka Hills, Carter County, Mont.

[Sample localities shown on figure 23 in U.S. Geol. Survey Prof. Paper 463, 1965. Analysts: I. H. Barlow, M. A. Joslyn, B. A. McCall, and Audrey Pietsch]

Sample No.	Bed description	Ash	Equivalent uranium	Uranium in sample
	T. 1 N., R. 58 E.			
	NW¼NE¼ sec. 24			
	6-ft lignite:			
98611	Uppermost foot----------	26.6	0.005	0.005
12	2d foot from the top----	36	.002	.002
13	3d foot from the top----	41.9	.001	.001
14	4th foot from the top---	14.1	.001	.002
15	5th foot from the top---	17.1	< .001	< .001
16	Basal foot----------	16.4	.001	.001
	NW¼SW¼ sec. 24			
	5.8-ft lignite:			
98566	Uppermost foot----------	39.2	.004	.004
67	2d foot from the top----	47	.004	.004
68	Basal 3.8 ft----------	30.7	.001	.002
	SE¼SE¼ sec. 25			
	1-ft lignite:			
95526	Uppermost 0.5 ft--------	27.7	.006	.005
27	Basal 0.5 ft----------	24	.021	.034
28	0.5-ft lignite shale------	51.9	.007	.008
29	1-ft carbonaceous shale---	71.8	.004	.003
30	0.7-ft lignite----------	34.3	.004	.004
	SE¼SE¼ sec. 26			
	6-ft lignite:			
98583	Uppermost foot----------	46.4	.007	.010
84	2d foot from the top----	45.2	.003	.004
85	3d foot from the top----	47.1	.004	.004
86	4th foot from the top---	49.4	.002	.002
87	5th foot from the top---	38.8	.005	.005
88	Basal foot----------	38	.003	.003
	NW¼NE¼ sec. 36			
43	1-ft clay shale----------	94.3	.005	.003
44	0.3-ft lignite shale------	60.1	.015	.018
45	0.5-ft carbonaceous shale-	74.5	.011	.012
	2.5-ft lignite:			
46	Uppermost 0.5 ft--------	43.7	.007	.010
47	2d 0.5 ft from the top--	40.4	.004	.004
48	3d 0.5 ft from the top--	46.1	.002	.003
49	4th 0.5 ft from the top-	30.9	.003	.004
50	Basal 0.5 ft----------	49.7	.008	.008
51	0.5-ft lignitic shale-----	56	.005	.006
	T. 1 N., R. 59 E.			
	SE¼SW¼ sec. 19			
	2.2-ft lignite:			
98607	Uppermost 1.1 ft--------	36.6	0.006	0.007
08	Basal 1.1 ft----------	38.2	.003	.003
	Center of west line of sec. 30			
98575	0.8-ft carbonaceous shale-	86.6	.008	.008
74	0.2-ft lignite----------	63.5	.011	.009
73	0.4-ft carbonaceous shale-	81	.007	.010
72	1-ft lignite----------	48.9	.007	.009
	2-ft lignite:			
71	Uppermost foot----------	41.4	.002	.004
70	Basal foot----------	35	.003	.004
69	1-ft carbonaceous shale---	56.2	.005	.007

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