65-40
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Table 24. - Semiquantitative spectrographic, chemical, and radiometric analyses of fossil bones from Upper Cretaceous and Tertiary rocks, eastern Montana, the Dakotas, and Saskatchewan, Canada

[Analyses shown graphically on plate 18B in U.S. Geol. Survey Prof. Paper 463, 1965. See Prof. Paper 463, table 8, for other analyses. For explanation of code used in semiquantitative spectrographic analyses see Prof. Paper 463, p. 51. Tr, near threshold (below limit of sensitivity); 0, looked for but not detected. Analysts: R. G. Havens, H. H. Lipp, D. L. Schafer, J. P. Schuch, and James Wahlberg]

Sample No.	Location (Section, township, range, and area)	Area	Chemical	Radiometric	Semiquantitative spectrographic analyses																															
			Uranium (percent)	Equivalent uranium (percent)	Ca	P	Si	Fe	Al	Mn	Na	Mg	Sr	Ce	Y	Ba	La	Nd	Dy	Zr	Gd	Er	Th	Ti	Pb	Sc	V	Cu	B	Yb	Ni	Mo	Cr	Co	Be	Other elements
Flaxville Formation (upper Miocene or Pliocene)																																				
248488	NE 6 4N 3W, Saskatchewan, Canada.	Opheim	0.022	0.024	1	I	3+	2	3-	2-	3	3	3-	0	4-	3-	5+	0	0	5+	0	0	0	5+	0	5-	4	5	0	5-	5	0	5+	5-	6	
490	NE 31 36N 45E, Daniels County, Mont.	do	.029	.028	1	1	2	2	2-	3	3+	3+	3-	0	4	3-	4-	0	0	5	0	0	0	4+	5-	5	4-	5	0	5-	5	0	5	5-	6	
Arikaree Formation (Miocene)																																				
241870	NW 23 134N 101W, Slope County, N. Dak.	Chalky Buttes	0.008	0.010	1	1	3+	3	3+	3	2-	3	3	4+	4+	4+	4	4	5+	5	5+	5+	0	4-	4-	6+	4-	4-	0	5	6+	6+	5	0	0	
248489	SW 6 3S 61E, Carter County, Mont.	Long Pine Hills	.027	.074	1	1	1	3+	3-	4	3	2-	3	0	4-	4	0	0	0	5	0	0	3	5+	6+	0	5+	5+	5	5+	6+	0	5-	0	0	U, 4.
Brule Formation (middle and upper Oligocene)																																				
241867	NW 17 18N 8E, Harding County, S. Dak.	Slim Buttes	0.006	0.020	1	1	2-	3+	2-	4+	2-	3	3	3	3-	4+	4+	4+	4	5+	4	4	4+	4	4-	5-	5+	3	5-	4-	6	<0.002	5-	0	0	
871	C S½ 26 17N 3E, Harding County, S. Dak.	East Short Pine Hills.	.003	.003	1	1	1	3	3	3-	3+	3-	3-	0	4-	3-	4-	0	0	4-	0	0	0	4-	4-	6+	5	5+	4-	5-	6	6+	6+	0	0	
875	do	do	.005	.004	1	1	3	3-	4	4+	3+	3-	3	4	4+	3-	4	0	5+	5	5+	5+	0	6+	4-	0	5+	5-	5	5+	Tr	5-	0	0	0	
878	SWSE 36 17N 3E, Harding County, S. Dak.	do	.002	.018	1	1	2+	3-	3+	4+	3+	3	3	3+	3	3-	3	3	4+	4-	4+	4	4+	4-	5+	<.001	5+	5	4-	4-	6	6+	6+	0	0	Sm, 4+.
Chadron Formation (lower Oligocene)																																				
241869	SE 10 42N 46W, Shannon County, S. Dak.	Big Badlands	0.006	0.006	1	2+	2-	3+	3+	3	2-	3	3	0	5+	4	5	0	0	5+	0	0	0	4-	5+	0	4-	4-	0	6+	6+	5-	5-	0	6	
874	SWSW 8 17N 8E, Harding County, S. Dak.	Slim Buttes	.020	.022	1	1	3+	3-	3	4+	3+	3	3+	3-	3-	2-	3-	3-	4	5	4	4-	0	4-	4-	6+	4-	5-	Tr	4-	6	5-	6+	0	0	
872	SW 1 16N 8E, Harding County, S. Dak.	do	.012	.011	1	1	3+	3+	3-	3	2-	3	3+	3-	3	3	4+	3-	4+	4	4+	4	0	4-	4	4	5+	5	0	4-	6	5-	5	0	5-	
Hell Creek Formation (Upper Cretaceous)																																				
241873	SWSE 36 17N 3E, Harding County, S. Dak.	East Short Pine Hills.	0.009	0.010	1	1	2	2+	3+	3	3+	3	2-	3-	3	3-	4+	4+	4	3-	4	4	0	4	4-	5+	4+	5+	0	4-	5+	5	5	5	6+	
876	C S½ 26 17N 3E, Harding County, S. Dak.	do	.210	.130	1	1	2-	3+	2-	3-	3+	3	3	3+	3+	3	3	3	3-	4-	4+	4+	4	4	5-	4	5	5+	5-	4-	5+	6+	5-	5-	6+	Sm, 4+; U, 3-.
877	do	do	.005	.008	1	1	2-	3+	3	3-	3+	3	3+	3	3+	3-	3	3	3-	4+	4+	4+	4	4	4	4	5+	5+	Tr	4-	6+	5-	5-	0	5-	Sm, 4+.
248427	SWSE 35 2S 60E, Carter County, Mont.	Long Pine Hills	1.130	.790	1	1	2-	2-	2-	3+	2-	3-	3	4+	3-	3-	3-	4	4	4-	5+	4-	0	4	5	5+	5-	5-	0	4-	5+	6+	5-	4-	5-	K, 3; Ag, 7-; As, 3-; Eu, 5+; Ho, 5; Sm, 4; U, 2-.

BASIC ANALYTICAL AND WELL DATA
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PROFESSIONAL PAPER 463, BY
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