

Table 9.--Analyses, in percent, of core samples from radioactive zones in Winnipeg and Stony Mountain Formations, South Dakota and Montana

[M indicates major constituent (more than 10 percent). Quantitative spectrographic results have an overall accuracy of ± 15 percent. Comparison of semiquantitative spectrographic analyses with quantitative analyses show 60 percent or more to be in the correct bracket. Chemical analyses by E. J. Fennelly and W. D. Goss. Spectrographic analyses by R. G. Havens; ¹looked for but not detected: Ag, As, Au, Be, Bi, Cd, Ge, In, La, Mo, Nb, Pb, Pt, Sb, Sn, Ta, Th, Tl, W., and Zn]

Sample No.	Chemical analyses		Semiquantitative spectrographic analyses									Quantitative spectrographic analyses ¹												
	U	F	Si	Al	Fe	Mg	Ca	Na	K	Ti	Mn	B	Ba	Co	Cr	Cu	Ga	Ni	Sc	Sr	V	Y	Yb	Zr
263516	0.0004	0.097	M	7	1.5	1.5	M	0.7	7	0.15	0.03	0.015	0.017	0.0009	0.006	0.0018	0.0014	0.0021	0.0015	0.0069	0.0076	0.0034	0.00022	0.011
517	.0003	.077	M	7	7	1.5	7	.7	3	.15	.3	.020	.0044	.0016	.012	.0013	.0016	.0028	.0022	.0041	.014	.0065	.00060	.011
518	.0006	.094	M	M	3	1.5	.3	.3	7	.3	.03	.031	.015	.0028	.014	.0030	.0022	.0066	.0020	.010	.010	.0027	.00026	.019

263516. Gray shale of the Stony Mountain Formation, collected by R. J. Ross, Jr., U.S. Geol. Survey, in the Shell Oil Co. Pine Unit 1 in the SW¹/₄SW¹/₄NE¹/₄ sec. 30, T. 12 N., R. 57 E., Wibaux County, Mont. Depth is 9,007 ft.

263517. Dark-green shale of the Winnipeg Formation, collected by R. J. Ross, Jr., U.S. Geol. Survey, in the Shell Oil Co. Pine Unit 1 in the SW¹/₄SW¹/₄NE¹/₄ sec. 30, T. 12 N., R. 57 E., Wibaux County, Mont. Depth is 9,600± ft.

263518. Green shale of the Winnipeg Formation, collected by A. F. Agnew, former State Geologist, South Dakota, in the Richfield Oil Corp. & Carter Oil Co. S. Dak. State 1 in the SW¹/₄SE¹/₄NE¹/₄ sec. 16, T. 17 N., R. 4 E., Harding County, S. Dak. Depth is 8,120 ft.