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TABLE 4 — SPECTROGRAPHIC ANALYSES OF SAMPLES FROM BEAR LODGE MOUNTAINS, WYOMING

Field number	Type of sample /_	Equivalent uranium (percent)	*Uranium (percent)	Total rare-earth oxides	ThO_2	Al	Ag	As	B	Ba	Be	Bi	Ca	Cb	Ce	Co	Cr	Cu	Fe	Ga	La	Mg	Mn	Mo	Na	Nd	Ni	Pb	Si	Sc	Sn	Sr	Th	Ti	V	Y	Zn	Zr
W-75	Dump material from lead-zinc mine.	0.002	0.003	0.26	----	.0X	.00X	----	.00X	.00X	.000X	----	X.	----	----	----	.00X	.0X	X.	----	----	.X	.0X	.00X	---	---	.00X	XX.	XX.	----	----	.0X	----	.00X	.00X	----	X.0	.000X
W-77	Iron-manganese veinlets.	0.075	0.018	12.68	0.25	----	.00X	----	---	X.	.00X	.0X	.X	.X	X.	.00X	.000X	.00X	X.	----	X.	.X	X.	.0X	---	---	.00X	.X	XX.	.00X	.00X	.X	.X	.X	.X	.0X	.X	.00X
W-79	Massive white quartzite.	0.012	0.005	0.07	----	----	.000X	----	.00X	.0X	.000X	----	.X	.00X	.0X	----	.00X	.00X	X.	.00X	.0X	.0X	.0X	.00X	.X	.00X	.00X	.0X	XX.	----	----	.00X	----	.0X	.00X	.00X	----	.0X
W-80	Altered monzonite porphyry.	0.007	0.002	0.14	----	X.	.000X	----	.000X	.X	.000X	----	X.	----	.0X	.000X	.00X	.00X	X.	.000X	.0X	.X	.0X	.000X	.X	---	.00X	.00X	XX.	.000X	----	.0X	----	.0X	.00X	.00X	----	.00X
W-81	White, altered igneous rock.	0.058	0.004	9.24	0.23	----	.00X	.0X	----	X.	Trace.	.0X	.X	.0X	.X	.00X	.00X	.00X	X.	----	.X	.0X	.0X	.0X	---	---	.000X	.X	XX.	.00X	----	----	.X	.X	.0X	.0X	----	.00X
W-82	Altered igneous rock adjacent to a limestone bed.	0.084	0.008	2.20	0.30	X.	.000X	----	.00X	X.	.000X	.00X	.X	.0X	X.	.00X	.00X	.00X	X.	.00X	X.	.X	.X	.00X	.X	.0X	.00X	.0X	XX.	.0X	----	.0X	.X	.0X	.0X	.X	.X	.0X
W-83	4-ft channel sample of altered igneous rock adjacent to limestone bed.	0.022	0.007	0.16	0.04	X.	.00X	----	.00X	.X	.000X	.00X	.X	.0X	.X	.000X	.00X	.00X	X.	.00X	.X	.X	.X	.00X	.X	.0X	.00X	.0X	XX.	.00X	----	.0X	----	.X	.0X	.0X	.0X	.00X
W-84	Limestone.	0.029	0.004	2.01	0.07	.X	.00X	----	.000X	.X	.000X	.00X	XX.	.0X	.X	----	.00X	.00X	X.	.000X	.X	.0X	.X	.00X	.0X	.0X	.00X	.0X	X.	.00X	----	.X	.X	.0X	.00X	.0X	.0X	.00X
W-88	Altered monzonite.	0.006	0.002	0.10	----	X.	.000X	----	.000X	.X	.000X	----	X.	----	.0X	.00X	.00X	.0X	X.	.000X	.0X	.X	.0X	.000X	X.	---	.00X	.00X	XX.	.00X	----	.X	----	.X	.00X	.00X	----	.0X
W-89	Monzonite porphyry.	0.025	0.008	0.07	----	X.	.000X	----	.000X	.X	.000X	.00X	.X	Trace.	.0X	.000X	.00X	.0X	X.	.000X	.0X	.0X	.0X	.00X	.X	Trace.	.00X	.0X	XX.	.000X	----	.0X	.0X	.X	.00X	.0X	----	.0X
W-90	Channel sample across iron manganese-bearing veinlets.	0.044	0.007	3.17	0.08	---	.000X	.0X	---	XX.	.00X	.0X	.X	.X	X.	.00X	.00X	.00X	X.	---	X.	.0X	X.	.0X	---	---	.00X	.X	XX.	.00X	.00X	----	.X	X.	.0X	.0X	.X	.00X
W-91	8-ft channel sample across altered monzonite.	0.015	0.003	0.10	----	----	.00X	.0X	---	.X	.000X	----	.0X	.0X	.X	.000X	.00X	.00X	X.	---	.X	.0X	.X	.0X	----	---	.00X	.0X	XX.	.000X	.00X	----	----	.X	.0X	.0X	.X	.00X
W-92	Iron-manganese veinlets.	0.020	0.005	0.20	0.04	----	.000X	----	----	.X	.000X	.0X	.0X	----	.0X	.000X	.00X	.00X	XX.	----	.0X	.0X	.0X	.0X	----	---	.00X	.0X	XX.	Trace.	.00X	----	.0X	.X	.0X	.00X	.X	---
W-93	Altered monzonite.	0.007	0.002	0.08	----	X.	.000X	----	.00X	.X	.000X	----	.0X	.0X	.0X	----	.000X	.00X	--	.00X	.0X	.00X	.00X	.00X	.X	.0X	.000X	.0X	XX.	----	----	.0X	----	.0X	.00X	.00X	---	.00X
W-94	Iron-manganese veins.	0.020	0.005	0.33	0.04	---	.00X	----	----	.X	Trace.	----	.0X	.X	.X	----	.00X	.00X	X.	---	.X	.0X	.00X	.0X	---	---	.000X	.X	XX.	Trace.	.00X	----	.0X	.X	.X	.00X	---	.00X
W-95	Limonite-stained monzonite.	0.023	0.004	0.29	0.03	.X	.000X	----	.00X	X.	.000X	.00X	.X	.0X	.X	----	.000X	.00X	X.	.000X	.X	.00X	.0X	.0X	----	.0X	.00X	.X	XX.	.00X	----	.0X	.0X	.0X	.00X	.0X	---	.00X
W-96	Siliceous igneous rock.	0.011	0.007	0.07	----	.X	.00X	----	.000X	X.	.000X	.00X	.X	.0X	.X	----	.000X	.00X	X.	.000X	.0X	.00X	.00X	.00X	----	.0X	.00X	.0X	XX.	.000X	----	.0X	---	.X	.00X	.00X	---	.00X
W-97	Monzonite porphyry.	0.010	0.004	0.08	----	X.	.000X	----	.000X	.X	.000X	----	.0X	.0X	.X	.000X	.000X	.00X	X.	.000X	.0X	.00X	.X	.00X	.X	.0X	.00X	.0X	XX.	.000X	----	.0X	---	.X	.00X	.00X	---	.00X
W-98	Limonite-stained soil.	0.056	0.007	1.54	0.12	X.	.00X	----	.000X	X.	.000X	.0X	.X	.0X	.X	.000X	.000X	.00X	X.	.000X	.X	.X	X.	.00X	.0X	.X	.00X	.X	XX.	.00X	----	.X	.X	.X	.00X	.0X	.X	.00X
W-99	Altered igneous rock.	0.015	0.004	0.20	----	----	----	----	----	.X	.000X	----	.0X	.X	.X	----	.00X	.00X	X.	----	.X	.0X	.0X	.0X	---	---	.00X	.0X	XX.	.00X	.00X	----	.0X	.X	.0X	.X	.0X	.00X
W-100	Limonitic igneous rock.	0.011	0.004	0.20	----	----	.000X	----	----	.X	.00X	----	.0X	.0X	.0X	----	.00X	.00X	X.	----	.0X	.0X	.0X	.00X	----	---	.00X	.00X	XX.	Trace.	----	----	----	.X	.0X	.00X	---	.0X
W-101	Limestone.	0.002	0.001	0.21	----	----	----	----	----	.0X	----	----	X.	.0X	---	----	.00X	.00X	X.	----	----	X.	.X	.00X	----	---	.000X	----	XX.	----	----	----	----	.X	.0X	.00X	---	---
W-102	1-ft channel of iron-manganese veinlet.	0.049	0.010	0.51	0.09	----	.000X	----	----	.X	.000X	.0X	.X	---	X.	.00X	.00X	.00X	X.	----	X.	.X	.0X	.0X	----	---	.00X	.X	XX.	.00X	.00X	----	.X	.X	.0X	.0X	.X	---
W-103	Altered monzonite.	0.024	0.005	0.25	0.07	---	.000X	----		X.	Trace.	----	.X	.0X	.X	.000X	.00X	.00X	X.	----	.X	.0X	.0X	.0X		---	.00X	.0X	XX.	.00X	.00X	----	.0X	.X	.0X	.0X	---	.00X
W-104	Altered monzonite.	0.017	0.004	0.22	----	X.	.000X	----	.000X	.X	.000X	----	.0X	.0X	.X	.0X	.000X	.00X	X.	.000X	.0X	.0X	.0X	.00X	.X	.0X	.00X	.0X	XX.	.00X	----	.0X	----	.X	.00X	.00X	---	.00X
W-105	Composite channel sample of iron-manganese veins.	0.045	0.014	12.99	0.10	---	.00X	----	---	X.	.000X	.0X	.X	.0X	X.	----	.000X	.00X	X.	----	X.	.X	XX.	.X	--	---	.0X	.X	XX.	.0X	.00X	.X	.X	.X	.0X	.X	X.0	.00X
W-106	Altered monzonite.	0.020	0.004	0.25	----	X.	.000X	----	.000X	.X	.000X	.00X	.X	.0X	.X	.000X	.00X	.00X	X.	.000X	.X	.X	.X	.00X	.X	.0X	.00X	.0X	XX.	.00X	----	.0X	----	.X	.00X	.0X	.0X	.00X
W-108	Monzonite.	0.027	0.008	0.42	----	X.	.00X	----	.000X	.X	Trace.	.00X	.X	.0X	.X	.00X	.000X	.X	X.	.000X	.X	.X	.X	.000X	.X	.0X	.00X	.0X	XX.	.00X	----	.X	----	.X	.0X	.0X	.0X	.0X
W-109	Manganese-stained monzonite.	0.011	0.003	0.09	----	----	.00X	----	----	.X	.000X	----	.X	----	.X	.00X	.000X	.00X	X.	----	.X	.X	.0X	.00X	--	---	----	.0X	XX.	Trace.	.00X	----	----	.X	.X	.00X	.0X	.0X
W-110	Monzonite porphyry.	0.010	0.003	0.13	----	----	.000X	----	----	.X	----	----	.X	----	.X	.000X	.00X	.00X	X.	----	.X	.X	.0X	.00X		---	.00X	.0X	XX.	do.	----	----	----	.X	.0X	.00X	---	.0X
W-111	Monzonite porphyry.	0.011	0.004	0.10	----	X.	.000X	----	.000X	.X	.000X	Trace.	.X	Trace.	.X	.000X	.00X	.00X	X.	.000X	.X	.X	.X	.00X	.X	Trace.	.00X	.0X	XX.	.00X	----	.X	----	.X	.00X	.0X	---	.0X
W-112	Dump material.	0.014	0.002	0.09	----	X.	.000X	----	.000X	.X	.000X	----	.X	do.	.X	.000X	.00X	.00X	X.	.000X	.0X	.X	.00X	.00X	X.	do.	.00X	.00X	XX.	.000X	----	.X	----	.X	.0X	.00X	---	.0X
W-113	Iron- and manganese-stained monzonite.	0.010	0.003	0.10	----	X.	.000X	----	.000X	.X	.000X	----	.0X	----	.0X	.000X	.00X	.00X	X.	.000X	.0X	.0X	.00X	.00X	.X	---	.00X	.00X	XX.	.000X	----	.X	----	.X	.0X	.00X	---	.0X
W-114	Monzonite porphyry.	0.010	0.003	0.08	----	X.	.000X	----	.000X	.X	.000X	Trace.	.0X	----	.0X	.00X	.000X	.00X	X.	.000X	.0X	.0X	.X	.00X	.X	---	.00X	.00X	XX.	.000X	----	.X	----	.0X	.0X	.00X	---	.0X
W-115	Altered monzonite.	0.012	0.003	0.06	----	X.	.000X	----	.000X	.X	.000X	----	.X	----	.X	.00X	.000X	.0X	X.	.000X	.X	.X	.X	.00X	.X	---	.00X	.00X	XX.	.00X	----	.X	----	.X	.0X	.00X	---	.00X
W-116	Fine-grained monzonite.	0.008	0.002	0.11	----	X.	.000X	----	.000X	.X	.000X	----	.X	----	.0X	.000X	.000X	.0X	X.	.000X	.0X	.X	.0X	.00X	.X	---	.00X	.00X	XX.	.000X	----	.X	----	.X	.0X	.00X	---	.0X
W-117	Monzonite float.	0.008	0.002	0.09	----	X.	.000X	----	.00X	.X	.000X	.00X	.X	----	.0X	.00X	.000X	.00X	X.	.000X	.0X	.X	.X	.00X	.X	---	.00X	.00X	XX.	.000X	----	.X	----	.X	.0X	.00X	---	.0X
W-118	Altered monzonite porphyry.	0.008	0.002	0.10	----	X.	.000X	----	.000X	.X	.000X	----	.X	----	.0X	.000X	.000X	.00X	X.	.000X	.0X	.X	.0X	.00X	.X	---	.00X	.00X	XX.	.000X	----	.X	----	.X	.0X	.00X	---	.0X
W-119	Monzonite porphyry.	0.008	0.001	0.06	----	X.	.000X	----	.000X	.X	.000X	----	.0X	----	.0X	----	.000X	.00X	X.	.000X	.0X	.0X	.0X	.00X	.X	----	.00X	.00X	XX.	----	----	.X	----	.X	.0X	.00X	---	.0X
W-120	Altered monzonite.	0.004	0.002	0.12	----	----	----	----		X.	Trace.	----	.X	----	----	.00X	.00X	.00X	X.	----	----	.X	.X	.00X		----	.00X	.00X	XX.	.00X	----	.X	----	.X	.0X	.00X	---	.0X
W-121	Altered monzonite.	0.002	0.002	0.18	----	X.	.000X	----	.000X	.X	.000X	----	.X	----	.0X	.00X	.00X	.00X	X.	.000X	.0X	.X	.X	.00X	X.	----	.00X	.000X	XX.	.00X	----	.X	----	.X	.0X	.00X	---	.0X
W-122	Monzonite porphyry.	0.003	0.001	0.17	----	X.	.000X	----	.000X	.X	.000X	----	.X	----	.0X	.000X	.00X	.00X	X.	.000X	.0X	.X	.0X	.000X	X.	---	.00X	.000X	XX.	.000X	----	.X	----	.0X	.00X	.00X	---	.0X
W-123	Marble.	0.000	0.001	0.14	----	X.	.000X	----	.000X	.00X	----	----	X.	----	---	.000X	.00X	.00X	X.	.000X	----	X.	.0X	.00X	---	----	.00X	----	XX.	----	.00X	.00X	----	.00X	.0X	----	---	---
W-124	Altered monzonite.	0.005	0.002	0.28	----	X.	.000X	----	.000X	.X	.000X	----	.X	----	.0X	.000X	.00X	.00X	X.	.000X	.0X	.X	.0X	.000X	X.	---	.00X	.000X	XX.	.000X	----	.X	----	.X	.0X	.00X	---	.0X
W-125	Monzonite.	0.009	0.002	0.18	----	X.	.000X	----	.000X	.X	.000X	----	.X	.0X	.0X	.000X	.00X	.00X	X.	.00X	.0X	.X	.X	.00X	X.	.0X	.00X	.00X	XX.	.000X	----	.X	----	.X	.0X	.00X	---	.0X
W-126	Altered monzonite.	0.008	0.002	0.12	----	X.	.000X	----	.000X	.X	.000X	----	.X	Trace.	.0X	.00X	.00X	X.	X.	.00X	.0X	.X	.X	.00X	X.	Trace.	.00X	.00X	XX.	.000X	----	.X	----	.X	.0X	.00X	---	.0X
W-127	Dump material.	0.009	0.003	0.28	----	----	.00X	----		.X	----	----	.X	----	.X	.00X	.000X	.0X	X.	----	.X	.0X	.0X	.0X		---	.000X	---	XX.	Trace.	----	.X	----	.X	.0X	.0X	---	.0X
W-128	Altered monzonite.	0.013	0.005	0.18	----	X.	.000X	----	.00X	.X	.000X	.00X	.0X	.0X	.X	.00X	.00X	.00X	X.	.000X	.0X	.0X	.0X	.00X	.X	.0X	.000X	.0X	XX.	.000X	----	.0X	----	.X	.0X	.00X	---	.00X
W-129	Monzonite porphyry.	0.006	0.002	0.12	----	X.	.000X	----	.000X	.0X	.000X	----	.X	----	.0X	.00X	.00X	.00X	X.	.000X	.0X	.X	.0X	.00X	.X	---	.00X	.00X	XX.	.000X	----	.0X	----	.X	.0X	.00X	---	.0X
W-130	5-ft channel of altered shale and quartzite.	0.004	0.002	0.10	----	----	----	----	----	.0X	Trace.	----	.X	----	----	.00X	.0X	.00X	X.	----	----	.X	.0X	.00X	---	----	.00X	.X	XX.	.00X	----	.0X	----	.X	.0X	.00X	---	.0X
W-131	5-ft channel of altered monzonite.	0.004	0.002	0.16	----	----	----	----	----	.0X	.000X	----	.X	----	.0X	.00X	.00X	.00X	X.	----	.0X	.X	.X	.00X	---	----	.00X	----	XX.	.00X	.00X	.0X	----	.X	.0X	.00X	.0X	.0X
W-132	Radioactive limestone.	0.067	0.003	0.21	0.39	X.	.000X	----	.000X	.X	.000X	.00X	.X	.0X	.0X	.00X	.00X	.00X	X.	.00X	.0X	.X	.0X	.00X	.X	.0X	.00X	.0X	XX.	.000X	----	.0X	----	.X	.0X	.0X	---	.0X
W-133	Monzonite.	0.011	0.002	0.01	----	X.	.000X	----	.000X	.X	.000X	----	.0X	----	.0X	----	.000X	.00X	X.	.000X	.0X	.0X	.0X	.00X	.X	----	.00X	.00X	XX.	.000X	----	.0X	----	.0X	.00X	.00X	---	.0X
W-134	4-ft channel across monzonite-shale contact.	0.025	0.002	0.20	0.04	----	----	----	----	.X	.00X	----	.X	----	.0X	.00X	.00X	.00X	X.	----	.0X	.X	.X	.00X		----	.00X	.0X	XX.	.00X	.0X	.0X	.0X	.X	.0X	.0X	.0X	.0X
W-135	Altered monzonite porphyry.	0.007	0.002	0.16	----	X.	.000X	----	.000X	.X	.000X	----	.X	----	.0X	.000X	.00X	.00X	X.	.000X	.0X	.X	.0X	.00X	.X	----	.00X	.00X	XX.	.000X	----	.X	----	.X	.0X	.00X	.0X	.00X
W-136	Altered monzonite porphyry.	0.007	0.002																																			
W-137	Altered monzonite porphyry.	0.059	0.017	10.76	0.11	----	.00X	----	----	.X	.000X	----	.X	.0X	X.	.00X	.00X	.00X	X.	----	X.	.0X	.0X	.0X	----	----	.00X	.0X	XX.	Trace.	.00X	.X	.0X	.X	.X	.0X	---	.0X

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* Analysis by chemical methods

/_ All grab samples except where noted.