

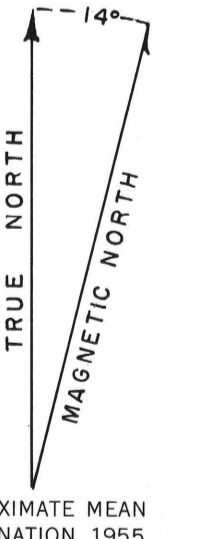
EXPLANATION

- Vein
Dashed where approximately located.
- ○ ○ ○ Weak radioactivity
Approximately 3 to 5 times background.
- □ □ □ Moderate radioactivity
Approximately 5 to 15 times background.
- ▲ ▲ ▲ Strong radioactivity
Approximately 15 to 50 times background.

Readings are by a gamma scintillation detector held 2 to 3 feet above the source of radioactivity. A dot within the symbol indicates that the reading can be more than doubled if the detector is brought into direct contact with the most highly radioactive material. Small symbol indicates that the area over which the reading was obtained was less than 50 square feet; large symbol indicates that the area was over 50 square feet.

• Isolated spot of weak radioactivity (more than 3 times background) by corner reading; reading of two-foot level too weak to be recorded.

RA-106
Sample number



APPROXIMATE MEAN DECLINATION, 1955

ANALYSES OF SAMPLES FROM THE MCKINLEY MOUNTAIN AREA, CUSTER AND FREMONT COUNTIES, COLORADO¹

Sample number	Location ²	Type of sample	Equivalent uranium (percent)	Chemical uranium (percent)	Equivalent ThO ₂ (percent)	Chemical ThO ₂ (percent)	Total rare-earth oxides and ThO ₂ (percent)	Rare-earth oxides* (percent)
RA-103	T. 221 N., R. 92 W.	6 1/2-foot channel	*0.063	*0.001	0.35	*0.25	.....	*0.52
RA-104	T. 221 N., R. 92 W.	12-inch channel	*.89	*0.005	4.96	*4.09	.....	*1.98
RA-109	Duby Extension	Grab of vein material	*.25	*0.01	1.39	*1.39	.....	*.18
RA-110	T. 224 N., R. 92 W.	6-inch channel	*.46	*0.002	2.56	*2.06	*2.83	.77
RA-111	T. 221 N., R. 90 W.	14-inch channel	*.26	*0.003	1.44	*1.27	*1.62	.35
RA-112	T. 237 N., R. 121 W.	10-inch channel	*.19	*0.001	1.06	*.73	*1.20	.47
RA-113	T. 238 N., R. 122 W.	18-inch channel	*.20	*0.003	1.10	*.96	*1.39	.43
RA-114	T. 247 N., R. 129 W.	6-inch channel	*.084	*0.001	.46	*.26	*.35	.09
RA-115	T. 215 N., R. 86 W.	Grab of vein material	*.075	*0.001	.41	*.28	*.43	.15
RA-116	T. 210 N., R. 82 W.	Selected vein material	*.52	*0.001	2.91	*2.41	*2.88	.47
53B-66	T. 254 N., R. 8 E.	14-inch channel	*.71	*0.001	3.97	.....	.....	.....
53B-96	T. 202 N., R. 89 W.	Selected vein material	*.63	*0.001	3.52	.....	.....	.....
KR-6	General Re	Selected vein material	*.094	*0.004	.50	.....	.....	11.38
KR-10	Do	4-foot chip channel	*.035	*0.004	.16	.....	.....	.....
KR-7	Thorium Mountain	Selected vein material	*.21	*0.010	1.12	*11.26	*13.64	.38
KR-11	Do	Grab of vein material	*.033	*0.001	.18	.....	.....	.....
KR-12	Atomic Mountain	Grab of vein material	*.054	*0.001	.18	.....	.....	.....
KR-13	Little Maud	Grab of vein material	*.031	*0.001	.17	.....	.....	.....
KR-9	Atomic Mountain	Grab of vein material	*.17	*0.001	.95	*1.82	*1.82	.....
RA-23	Do	Selected vein material	*.38	*0.001	2.12	*1.98	.....	.....
LD-22	Duby Extension	Grab of vein material	*.022	*0.001	.12	.....	.....	.....
LD-26	Lucky Find	20-foot channel	*.005	*0.001	.03	.....	.....	.....
LD-27	Do	7-foot channel	*.004	*0.001	.02	.....	.....	.....
LD-28	Lucky Find	3-foot channel	*.013	*0.001	.07	.....	.....	.....
KR-4	Lucky Find	Selected vein material	*.14	*0.002	.77	*1.55	*1.73	.18
LD-21	Pony Poker	Grab of vein material	*.064	*0.001	.35	.....	.....	.....
RA-25	Starbuck	3-foot channel	*.021	*0.001	.11	.....	.....	.....
RA-26	Do	1-foot channel	*.18	*0.002	1.00	*1.84	.....	.....
RA-27	Starbuck	10-foot channel	*.066	*0.001	.35	.....	.....	.....
RA-28	Starbuck	Selected vein material	*.30	*0.001	1.67	*1.99	.....	.....
KR-8	Starbuck	Selected vein material	*.18	*0.001	1.00	*1.81	*1.95	.12
LD-50	Turtle ranch	5-foot channel	*.14	*0.002	.77	.....	.....	.....
LD-51	Do	Grab of vein material	*.094	*0.001	.52	.....	.....	.....
LD-52	Turtle ranch	4-foot channel	*.11	*0.002	.60	*1.57	.....	.....
LD-53	Turtle ranch	4-foot channel	*.007	*0.001	.03	.....	.....	.....
LD-54	Do	0.6-foot channel	*.36	*0.002	2.00	*1.91	.....	.....
LD-55	Turtle ranch	Grab of vein material	*.063	*0.001	.35	.....	.....	.....

¹Samples KR-9 through LD-65 have been previously analyzed and published: Chismen, R. A., Higgins, A. M., DeWitt, L. F., and Cox, G. B., 1953, Thorium investigations 1950-52, Wet Mountains, Colorado. U. S. Geol. Survey Circ. 726, 49 p.

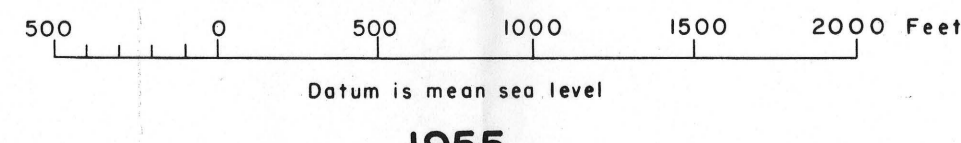
²Numbers refer to map coordinates.

³Calculated from the equivalent uranium by subtracting the chemical uranium and multiplying the difference by the conversion factor of 5.6.

⁴Obtained by subtracting the chemical percent ThO₂ from the chemical percent of total rare-earth oxides and ThO₂, except samples RA-103, RA-104, and RA-109, which were determined chemically.

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INDEX MAP OF LOCALITIES OF RADIOACTIVE MATERIAL, MCKINLEY MOUNTAIN AREA, WET MOUNTAINS, COLORADO



1955

