

MONTANA GEOLOGY



“EYE OF THE NEEDLE”
Natural arch (Cretaceous Eagle Sandstone) along the Missouri River downstream from Fort Benton --Tim Lucas

January

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24 ₃₁	25	26	27	28	29	30

February

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

March

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

April

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

May

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

June

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

July

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24 ₃₁	25	26	27	28	29	30

August

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

September

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

October

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23 ₃₀	24 ₃₁	25	26	27	28	29

November

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

December

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31



MONTANA BUREAU OF MINES AND GEOLOGY

Room 200, Main Hall
Montana Tech
Butte, Montana 59701

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Charter, Scope and Organization

The Montana Bureau of Mines and Geology (MBMG) was established in 1919 as a public service agency and research entity of the Montana College of Mineral Science and Technology. The Bureau Director serves as the State Geologist and represents Montana in the Association of American State Geologists.

Enacted by Legislative Assembly of the State of Montana (Section 75-607, R.C.M., 1947, Amended), the scope and duties of the agency are summarized as follows:

- To collect, compile, and publish information on Montana's geology, mining, milling, and smelting operations, and ground-water resources.

- To maintain collections of geologic and mineral specimens, photographs, models, and drawings of mining and milling equipment, and literature on geology, mining, and ground water.

- To conduct investigations of Montana geology, emphasizing economic mineral resources and ground-water quality and quantity.

In accordance with the enabling act, the MBMG conducts research and provides information, but has no regulatory functions. To carry out its duties most effectively, the Bureau operates in five divisions: Geology and Mineral Resources, Hydrology, Administration, Analytical and Information Services.

Science

Montana's geologic past—a key to its future

TOPICAL STUDIES IN REGIONAL GEOLOGY conducting investigations of Montana geology
MONTANA ATLAS PROGRAM revising and updating the state geologic map and derivative maps in 1°x2° quadrangles
ECONOMIC GEOLOGY making detailed studies of Montana's metalliferous deposits, industrial minerals coal and petroleum resources
COOPERATIVE RESEARCH PROGRAMS WITH THE U.S. GEOLOGICAL SURVEY concentrating on coal lands, hydrology, and revision of state geologic map
GROUND-WATER RESOURCES INVESTIGATIONS evaluating the quality and quantity of a precious resource
HYDROGEOLOGIC RESEARCH assessing water-related environmental concerns, including saline seep and mine water drainage
GEOTHERMAL INVESTIGATIONS mapping and measuring Montana's natural hot water resources
COAL HYDROLOGY investigating ground water in coal areas before, during, and after mining
COMPUTERIZED RESOURCE DATA STORAGE AND RETRIEVAL SYSTEMS compiling and storing Montana's coal, water, and mineral resources information on computers for ease in access
EARTHQUAKE STUDIES RESEARCH seismic monitoring in Montana

Service

Research for Montana

PUBLIC INQUIRY answering question on Montana geology and ground water
PUBLICATIONS AND MAP SALES providing literature on Bureau research, USGS topographic and geologic maps, derivative maps, and access to federal aerial photos
MINERAL IDENTIFICATION examining samples submitted by the public
WATER SUPPLY EVALUATION evaluating quality and quantity of water for municipalities and state agencies
STAFF FIELD AGENT assisting small mining operations
WORKSHOPS offering instruction in gold panning, prospecting, and mining technologies
MINERAL MUSEUM displaying over 1,200 high-quality mineral specimens; group tours available
LECTURES AND PUBLIC ADDRESSES speaking to public groups on aspects of Bureau research, and Montana geology and hydrology
DRILL CORE LIBRARY housing core splits from Montana exploration and engineering projects, available for public research

Selected Publications on Montana Geology

Bulletin 126—Directory of Montana mining enterprises for 1986, compiled by D. C. Lawson, with a section on the Sapphire deposits of Montana, Lester Zeihen, 1987, 56 p., 7 figs., 1 table, 1 appendix, 1 sheet.	\$3.00
Special Publication 89—Profiles of Montana: A layman's guide to the treasure state, David D. Alt, 1984, 168 p., 180 figs.	\$12.00
Special Publication 92—The Stillwater Complex, Montana: Geology and guide, Gerald K. Czamanske and Michael L. Zientek (eds.), 1985, 396 p., 361 figs., 28 tables, 4 sheets.	\$28.00

Special Publication 94—Belt Supergroup: A guide to Proterozoic rocks of western Montana and adjacent areas, Sheila M. Roberts (ed.), 1986, 311 p., 175 figs., 11 tables, 10 color plates.	\$25.00
Special Publication 95—Guidebook of the Helena area, west-central Montana, compiled by Richard B. Berg and Ray H. Breuninger, 1987, 64 p., 20 figs., 1 table.	\$5.00
Reprint 6—Gold placers of Montana (2nd edition, revised), Charles J. Lyden, 1987, 120 p., 23 figs., 22 maps.	\$10.00

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