



INDEX MAP SHOWING MINES AND PROSPECTS MAPS (MF-SERIES MAPS AND OPEN-FILE REPORTS) IN THE BLACK HILLS REGION

EXPLANATION
Mines—Location known. Distinguished from prospect by name of mine next to symbol. Alternate names or synonym(s) in parentheses. If there is enough space on the map, the entire mine name and synonym(s) are shown otherwise, mine name may be abbreviated and synonym(s) deleted from map. Full mine names and all synonyms are shown in the "Alphabetical list of mines".

CLASSIFICATION OF MINES AND DEPOSITS
Mines and deposits are categorized according to geologic criteria of age, environment of formation, and contained metals, as in DeWitt and others (1986), p. 22-33. Deposit-type letter designations (B, R, and so on), corresponding to those in DeWitt and others (1986), are used in the alphabetic list of mines. The criteria used for the deposit types are briefly summarized below and are explained more fully in DeWitt and others (1986).

PRINCIPAL TYPES OF DEPOSITS
D-Early Proterozoic veins and shear zones are discordant deposits of gold, silver, lead, and minor amounts of zinc, copper, and arsenic formed in a metamorphic and tectonic environment about 1.6-1.9 Ga. Hydrothermal solutions concentrated the metals in metamorphic rocks.

SOURCES OF INFORMATION
Outlines of patented mining claims were obtained from 1:250,000-scale Forest Status Maps, available for inspection at the U.S. Forest Service, Rocky Mountain Region, 1117 West 14th Avenue, Denver, CO 80202. Names of patented claims were obtained from the Custer County Courthouse, Custer, South Dakota. Claims have been located as accurately as possible, but this map is not intended to be used for legal nor precise locations of mining claims.

INTRODUCTION
This map is one in a set of 26 maps (see index map) at 1:250,000 scale of the Black Hills region of South Dakota and Wyoming on which are shown a geologic classification of the area, a bibliography of mineral deposits, and locations of active and inactive mines, prospects, and patented mining claims. Some of these maps are published as U.S. Geological Survey Miscellaneous Field Studies Maps (MF series) and some as U.S. Geological Survey Open-File Reports (OF series); see index map. An earlier unpublished version of this set of maps was the data base from which plates 4 (scale 1:250,000) of DeWitt and others (1986) was compiled. Subsequent to that publication, the set has been revised and updated, and prospects and patented claims have been added. These revised and more detailed 1:250,000-scale maps should be used for the equivalent areas of plate 4 of DeWitt and others (1986).

ACKNOWLEDGMENTS
J. J. Norton, J. A. Selden, J. P. Gries, and W. L. Roberts reviewed the set of maps. Rob Yanbrick helped digitize much of the information.

REFERENCES CITED
Allison, P. T., 1940, Reconnaissance of gold-mining districts in the Black Hills, South Dakota: U.S. Bureau of Mines Bulletin 627, 146 p.

Alphabetical list of mines
(Deposit-type letter designations are explained in the text)

Deposit of	Name	Location
B	AM Lode	Sec. 8 T38 R5E
B	Agnew	Sec. 20 T38 R5E
B	Aladdin	Sec. 20 T38 R5E
B	Come Along (Flora)	Sec. 23 T38 R5E
B	Beck Lode	Sec. 34 T38 R5E
B	Big Horn Lode	Sec. 13 T38 R4E
B	Bulls (Trux)	Sec. 13 T38 R4E
D,F	Clara Belle (Golden Arrow)	Sec. 24 T28 R4E
I	Climax Mica	Sec. 30 T38 R5E
I	Come Along (Flora)	Sec. 23 T38 R5E
I	Custer Mica No.1 (Tin Key)	Sec. 18 T38 R5E
I	Custer Mountain Feldspar	Sec. 31 T38 R5E
I	Earl Lode	Sec. 18 T38 R5E
I	Flora (Come Along)	Sec. 23 T38 R5E
I	Florence	Sec. 30 T38 R5E

Alphabetical list of patented claims
(Asterisk (*) indicates that part of claim extends into adjacent quadrangle; dollar sign (\$) indicates that most of claim is in the adjacent quadrangle)

Claim number	Name of Claim	Location
052	Agnew Lode	Sec. 20 T38 R5E
020	Barclay Hill	Sec. 15 T38 R4E
062	Beck	Sec. 34 T38 R5E
028	Bob Cousins	Sec. 19 T38 R5E
019	Bob Cousins No.3	Sec. 19 T38 R5E
029	Bob Cousins No.1	Sec. 19 T38 R5E
034	Clara Belle	Sec. 24 T28 R4E
041	Clark Place	Sec. 23 T28 R4E
048	Deadwood Lode	Sec. 20 T38 R5E
051	Deer Creek	Sec. 23 T38 R5E
027	Donner	Sec. 19 T38 R5E
045	Edward Cook Place	Sec. 23 T38 R5E
017	Fillyby Lode	Sec. 13 T38 R4E
012	First Find	Sec. 13 T28 R4E
058	Gold Ore	Sec. 31 T38 R5E
038	Gold Ore Fr.	Sec. 31 T38 R5E
002	Grant	Sec. 23 T28 R4E
016	Grant (Old Mike, Sylvanite)	Sec. 23 T28 R4E
042	Harbach Mica	Sec. 23 T38 R5E
044	Harbach Mica No.1	Sec. 23 T38 R5E
043	Harbach Mica No.2	Sec. 23 T38 R5E
046	Harbach Mica No.3	Sec. 23 T38 R5E
047	Harbach Mica No.4	Sec. 23 T38 R5E
048	Harbach Mica No.5	Sec. 23 T38 R5E
049	Harbach Mica No.6	Sec. 23 T38 R5E
050	Harbach Mica No.7	Sec. 23 T38 R5E
051	Harbach Mica No.8	Sec. 23 T38 R5E
052	Harbach Mica No.9	Sec. 23 T38 R5E
053	Harbach Mica No.10	Sec. 23 T38 R5E
054	Harbach Mica No.11	Sec. 23 T38 R5E
055	Harbach Mica No.12	Sec. 23 T38 R5E
056	Harbach Mica No.13	Sec. 23 T38 R5E
057	Harbach Mica No.14	Sec. 23 T38 R5E
058	Harbach Mica No.15	Sec. 23 T38 R5E
059	Harbach Mica No.16	Sec. 23 T38 R5E
060	Harbach Mica No.17	Sec. 23 T38 R5E
061	Harbach Mica No.18	Sec. 23 T38 R5E
062	Harbach Mica No.19	Sec. 23 T38 R5E
063	Harbach Mica No.20	Sec. 23 T38 R5E
064	Harbach Mica No.21	Sec. 23 T38 R5E
065	Harbach Mica No.22	Sec. 23 T38 R5E
066	Harbach Mica No.23	Sec. 23 T38 R5E
067	Harbach Mica No.24	Sec. 23 T38 R5E
068	Harbach Mica No.25	Sec. 23 T38 R5E
069	Harbach Mica No.26	Sec. 23 T38 R5E
070	Harbach Mica No.27	Sec. 23 T38 R5E
071	Harbach Mica No.28	Sec. 23 T38 R5E
072	Harbach Mica No.29	Sec. 23 T38 R5E
073	Harbach Mica No.30	Sec. 23 T38 R5E
074	Harbach Mica No.31	Sec. 23 T38 R5E
075	Harbach Mica No.32	Sec. 23 T38 R5E
076	Harbach Mica No.33	Sec. 23 T38 R5E
077	Harbach Mica No.34	Sec. 23 T38 R5E
078	Harbach Mica No.35	Sec. 23 T38 R5E
079	Harbach Mica No.36	Sec. 23 T38 R5E
080	Harbach Mica No.37	Sec. 23 T38 R5E
081	Harbach Mica No.38	Sec. 23 T38 R5E
082	Harbach Mica No.39	Sec. 23 T38 R5E
083	Harbach Mica No.40	Sec. 23 T38 R5E
084	Harbach Mica No.41	Sec. 23 T38 R5E
085	Harbach Mica No.42	Sec. 23 T38 R5E
086	Harbach Mica No.43	Sec. 23 T38 R5E
087	Harbach Mica No.44	Sec. 23 T38 R5E
088	Harbach Mica No.45	Sec. 23 T38 R5E
089	Harbach Mica No.46	Sec. 23 T38 R5E
090	Harbach Mica No.47	Sec. 23 T38 R5E
091	Harbach Mica No.48	Sec. 23 T38 R5E
092	Harbach Mica No.49	Sec. 23 T38 R5E
093	Harbach Mica No.50	Sec. 23 T38 R5E
094	Harbach Mica No.51	Sec. 23 T38 R5E
095	Harbach Mica No.52	Sec. 23 T38 R5E
096	Harbach Mica No.53	Sec. 23 T38 R5E
097	Harbach Mica No.54	Sec. 23 T38 R5E
098	Harbach Mica No.55	Sec. 23 T38 R5E
099	Harbach Mica No.56	Sec. 23 T38 R5E
100	Harbach Mica No.57	Sec. 23 T38 R5E
101	Harbach Mica No.58	Sec. 23 T38 R5E
102	Harbach Mica No.59	Sec. 23 T38 R5E
103	Harbach Mica No.60	Sec. 23 T38 R5E
104	Harbach Mica No.61	Sec. 23 T38 R5E
105	Harbach Mica No.62	Sec. 23 T38 R5E
106	Harbach Mica No.63	Sec. 23 T38 R5E
107	Harbach Mica No.64	Sec. 23 T38 R5E
108	Harbach Mica No.65	Sec. 23 T38 R5E
109	Harbach Mica No.66	Sec. 23 T38 R5E
110	Harbach Mica No.67	Sec. 23 T38 R5E
111	Harbach Mica No.68	Sec. 23 T38 R5E
112	Harbach Mica No.69	Sec. 23 T38 R5E
113	Harbach Mica No.70	Sec. 23 T38 R5E
114	Harbach Mica No.71	Sec. 23 T38 R5E
115	Harbach Mica No.72	Sec. 23 T38 R5E
116	Harbach Mica No.73	Sec. 23 T38 R5E
117	Harbach Mica No.74	Sec. 23 T38 R5E
118	Harbach Mica No.75	Sec. 23 T38 R5E
119	Harbach Mica No.76	Sec. 23 T38 R5E
120	Harbach Mica No.77	Sec. 23 T38 R5E
121	Harbach Mica No.78	Sec. 23 T38 R5E
122	Harbach Mica No.79	Sec. 23 T38 R5E
123	Harbach Mica No.80	Sec. 23 T38 R5E
124	Harbach Mica No.81	Sec. 23 T38 R5E
125	Harbach Mica No.82	Sec. 23 T38 R5E
126	Harbach Mica No.83	Sec. 23 T38 R5E
127	Harbach Mica No.84	Sec. 23 T38 R5E
128	Harbach Mica No.85	Sec. 23 T38 R5E
129	Harbach Mica No.86	Sec. 23 T38 R5E
130	Harbach Mica No.87	Sec. 23 T38 R5E
131	Harbach Mica No.88	Sec. 23 T38 R5E
132	Harbach Mica No.89	Sec. 23 T38 R5E
133	Harbach Mica No.90	Sec. 23 T38 R5E
134	Harbach Mica No.91	Sec. 23 T38 R5E
135	Harbach Mica No.92	Sec. 23 T38 R5E
136	Harbach Mica No.93	Sec. 23 T38 R5E
137	Harbach Mica No.94	Sec. 23 T38 R5E
138	Harbach Mica No.95	Sec. 23 T38 R5E
139	Harbach Mica No.96	Sec. 23 T38 R5E
140	Harbach Mica No.97	Sec. 23 T38 R5E
141	Harbach Mica No.98	Sec. 23 T38 R5E
142	Harbach Mica No.99	Sec. 23 T38 R5E
143	Harbach Mica No.100	Sec. 23 T38 R5E

NUMERICAL LIST OF PATENTED CLAIMS
(Asterisk (*) indicates that part of claim extends into adjacent quadrangle; dollar sign (\$) indicates that most of claim is in the adjacent quadrangle)

Claim number	Name	Location
001	Grant	Sec. 23 T28 R4E
002	Grant	Sec. 23 T28 R4E
003	Clara Belle	Sec. 23 T28 R4E
004	Harbach Mica	Sec. 23 T28 R4E
005	Harbach Mica	Sec. 23 T28 R4E
006	Matchless	Sec. 23 T28 R4E

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those in present data bases such as the U.S. Bureau of Mines Mineral Inventory Location System (MILS) or the U.S. Geological Survey Mineral Resource Data System (MRDS), formerly the Computerized Resources Information Bank (CRIB). Locations of prospects in this area—manuscript maps taken from J.A. Selden (unpub. data, 1986) and Barton and Paige (1923), because many prospects or parts of quadrangles have not been mapped in as much detail as other quadrangles, comparison of the density of prospects from one quadrangle to another or even within one quadrangle should not be attempted. As an example, part of a quadrangle may be shown on the map as having no prospects for a particular mineral, but the first part may have been mapped in greater detail than the second part for the map for the same mineral. Some new prospects that are not shown on this map because the original source of information did not map prospect pits.

PRECISION OF LOCATION INFORMATION
All mine symbols except the unfilled diamond (◇) indicate that the location of the deposit is known within a 200-foot radius. The type of opening at a mine (Lode, shaft, open pit, trench, and other) is designated by one of ten different symbols. The unfilled diamond symbol indicates that the location is known only to within a 1/4 mile radius and that the type of mine opening is unknown. Mine and prospect locations whose locations were not verified to within closer than a 1/4 mile radius were not plotted on the map.

PATENTED CLAIM AND MINE LISTS
Patented mining claims are listed both numerically and alphabetically. Each patented claim is represented by a number key to the numeric and alphabetic listings. Where possible, the claim numbers are plotted approximately in the center of the claim and parallel to its long axis. Boundaries between adjacent claims are not shown. Asterisk (*) following a claim number indicates that most of the claim is in this quadrangle, but it extends into the adjacent quadrangle. A dollar sign (\$) following a claim number indicates that most of the claim is in the adjacent quadrangle, but part of it is in this quadrangle. Claims outlined with a solid line are patented lode claims; claims outlined with a dashed line are patented mica claims. Any of the Harney Peak granite, Black Hills, South Dakota placer workings on unpatented claims have not been mapped on the maps, principally because the workings lacked a name.

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