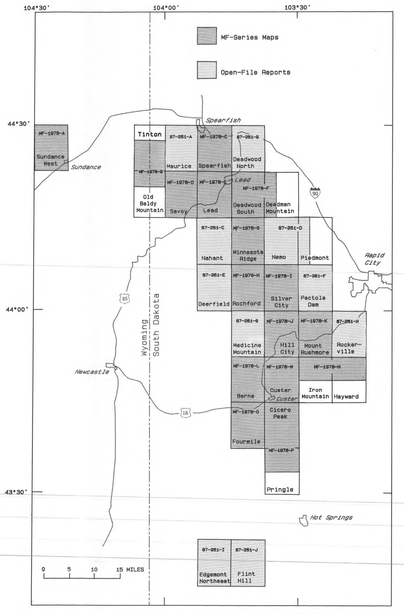
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

MISCELLANEOUS FIELD STUDIES
MAP MF-1978-P

Base modified from U.S. Geological Survey
Cicero Peak, 1955; photorevision as of 1977;
Pringle, 1956

Compiled in 1986



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

EXPLANATION

Mine—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 "Alphabetic list of mines"

Open pit or other type of opening

Quarry

Mine—Approximate location shown. Open pit, shaft, adit, or other type of opening

Prospect

Pit

Patented claim—See alphabetic and numeric lists of patented claims. Asterisk (*) indicates part of claim extends into adjacent quadrangle. Dollar sign ($) indicates most of claim is in adjacent quadrangle. Boundaries between claims not shown

Lode claim—Orientation of number parallel to long axis of claim

Placer claim—Number approximately in center of claim

INTRODUCTION

This map is one in a set of 26 maps (see index map) at 1:24,000 scale of the Black Hills region of South Dakota and Wyoming on which are shown a geologic classification of mines, 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 An earlier unpublished version of this set of maps was the data base from which plate 4 (scale 1:250,000) of DeWitt and others (1986) was compiled.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 1:24,000-scale maps should be used for the equivalent areas of plate 4 of DeWitt and others (1986).

SOURCES OF INFORMATION

Outlines of patented mining claims were obtained from 1:24,000-scale Forest Service Status Plats, available for inspection at the U.S. Forest Service, Rocky Mountains Region, 11,117 West 8th Avenue, Denver, CO 80225. 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 location of mining claims.

Locations of mines and prospects were compiled from all available published and unpublished data. The locations of active and inactive mines in this quadrangle were taken from Allsman (1940), Connolly (1933), Connolly and O'Harra (1929), Gardner (1939), Gutterson (1940), Needham (1949, 1950), Norton and others (1964), O'Harra (1902), Page and others (1953), Roberts and Rapp (1965), U.S. Bureau of Mines (1955, 1986), and U.S. Geological Survey (1986). Also, in some instances, different sources of information gave conflicting location information for mines with the same name. Where possible, this conflict was resolved by comparing the name of the mine to adjacent patented claims, by comparing the description of the deposit to known geology and topography of the area, or by communication with past owners of the property. In some instances, a unique location could not be determined using existing information; in that event the most logical location was chosen. The location of some or many mines on this map may differ from 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 Resources Data System (MRDS), formerly the Computerized Resources Information Bank (CRIB).

Locations of prospects in this quadrangle were taken from Darton and Paige (1925). Because many quadrangles, 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 more prospects than another part, but the first part may have been mapped in greater detail than the second part. Similarly, a part of a quadrangle may have many prospects that are not shown on this map because the original source of information did not map prospect pits.

Geologic data for the map are from Baier (1980), Gerny (1982), Gerny and others (1982), Ching (1973), Connolly (1928), Darton and Paige (1925), DeWitt and others (1986), Gries (1950), Gwynne (1944), Joralemon (1953a, 1953b, 1953c, 1953d), Kleinkopf and Redden (1975), Kulik (1965), Larson and Honert (1977), Lewis (1929), Norton (1953, 1968), Norton and others (1964), O'Harra (1899), O'Harra and Connolly (1926), Page and others (1953), Redden (1959, 1963), Redden and Norton (1975), Riley (1970), Scott (1941), Stobbe (1937), and Tullis (1939).

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 (adit, shaft, open pit, trench, and others) 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. Mines and prospects whose locations could not be 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. Mines are listed alphabetically. For ease in locating the claim or mine on the map, the legal description (section, township, range) is given.

Each patented claim on the map is represented by a number keyed 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. An 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 dotted line are patented placer claims. Many placer workings on unpatented claims have not been plotted on the maps, principally because the workings lacked a name.

On the map, the most common or most used name of a mine is normally next to its mine symbol. If there is space, any alternate names or synonyms are in parentheses following the most common name. On some maps, where space does not permit showing the first name or any alternate names, the names are shown by a single letter, two letters, or an abbreviation of the name; the mines are keyed to that letter or abbreviation in the alphabetic and numeric lists. Mines with more than one name have the alternate name(s) or synonym(s) shown in parentheses in the alphabetic lists. The first alternate name or synonym is also alphabetized in the alphabetic list of mines; second or third alternate names may not be alphabetized. Uncertain alternate names are not alphabetized and are followed by a query (?).

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. 52–53). Deposit-type letter designations (E, F, 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

E, F, G, H, I, and J—Early Proterozoic pegmatites were formed in an igneous and metamorphic environment about 1.7–1.8 Ga. Hydrothermal solutions from the Harney Peak Granite concentrated lithium, beryllium, tin, and tungsten in the surrounding metamorphic rocks and the granite. Large deposits of feldspar- and muscovite-rich rock were similarly formed in the granite. E, deposits rich in feldspar; F, pegmatites rich in tin and tungsten; G, lithium-rich deposits; H, potassium-feldspar- and mica-rich pegmatites; I, pegmatites with large amounts of mica; J, beryllium-rich deposits.

L—Cambrian paleobeach deposits are accumulations of bedded sedimentary material formed in a surface marine environment about 500 Ma. Wave action created concentrations of high-purity, well-rounded silica sand.

M—Carboniferous to Permian high-calcium limestone is a bedded sedimentary deposit formed in a shallow water marine environment about 250–350 Ma. Precipitation of calcium carbonate from seawater and accumulation of organisms rich in calcium carbonate created the deposits.

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Alphabetic list of mines

[Deposit-type letter designations are explained in the text]

Deposit Type	Name of Mine	Location
I	Ajax	Sec. 22 T5S R5E
E	Albert Lee Lode	Sec. 23 T4S R5E
E,G	Aman Lode (Francis)	Sec. 11 T5S R4E
H	Ann (Gladys Wells)	Sec. 32 T4S R5E
E	Anna-Marie (Conlon)	Sec. 20 T5S R5E
H	Antler	Sec. 27 T4S R5E
E,J	Apex	Sec. 22 T5S R5E
E	Art Lode	Sec. 6 T5S R5E
E	Bald No.1	Sec. 17 T5S R5E
E	Bald No.2	Sec. 17 T5S R5E
E	Bald No.3	Sec. 17 T5S R5E
E	Bald No.4	Sec. 15 T5S R5E
E	Bear Top No.1	Sec. 32 T3S R5E
E	Bear Top No.2	Sec. 32 T3S R5E
G	Beecher Lode	Sec. 18 T4S R5E
G	Beecher No.2 (Longview)	Sec. 18 T4S R5E
G	Beecher No.3 (Black Diamond)	Sec. 18 T4S R5E
J	Bellmare	Sec. 22 T4S R5E
E,J	Beryl Mica (Dakota Feldspar)	Sec. 8 T5S R5E
E	Bet Lode	Sec. 29 T4S R5E
E	Big Bull	Sec. 25 T4S R4E
E	Big Time Lode	Sec. 35 T3S R4E
E	Bink Lode	Sec. 30 T4S R5E
J	Black Diamond (Beecher No.3)	Sec. 18 T4S R5E
M	Black Hills Lime	Sec. 23 T5S R4E
L	Black Hills Silica (Robert McCullum, Pringle Silica)	Sec. 19 T5S R5E
L	Black Hills Silica (Shirttail Canyon Silica)	Sec. 30 T5S R5E
E	Blue Bird	Sec. 35 T4S R4E
I	Blue Bonnet (Star, Mica King 3)	Sec. 33 T3S R5E
E	Bonnie	Sec. 11 T5S R4E
E	Bowman (Lucky Strike)	Sec. 11 T4S R4E
E	Bull Elk	Sec. 32 T4S R5E
E	Bull Head	Sec. 2 T4S R5E
E	Bull Moose	Sec. 5 T4S R5E
I	Burgess Mica	Sec. 35 T3S R4E
H	Burt Mica	Sec. 33 T3S R5E
I	Buster Dike	Sec. 2 T4S R4E
E	Carroll Claims (Lookout)	Sec. 11 T5S R4E
E	Cat Lode	Sec. 28 T4S R5E
E	Charles Pringle (Pringle)	Sec. 13 T5S R4E
E	Chipmunk No.25	Sec. 14 T4S R4E
E	Conlon (Anna-Marie)	Sec. 20 T5S R5E
E,J	Dakota Feldspar (Beryl Mica)	Sec. 8 T5S R5E
E	Dorothy	Sec. 35 T3S R4E
E	Dorothy No.1	Sec. 35 T3S R4E
E	Dyke No.2	Sec. 18 T4S R5E
E	East Lode	Sec. 5 T4S R5E
E	Ed Lode	Sec. 4 T5S R5E
J	Elk No.1	Sec. 5 T4S R5E
E,J	Elkhorn (Tinsley)	Sec. 34 T3S R5E
E,J?	Evergreen	Sec. 12 T4S R4E
E	Fanny McAdam	Sec. 27 T3S R5E
E	Fitzgerald	Sec. 5 T4S R5E
E	Flynn	Sec. 27 T4S R5E
E,G	Francis (Aman Lode)	Sec. 11 T5S R4E
H	Gladys Wells (Ann)	Sec. 32 T4S R5E
E	Glen Carroll	Sec. 3 T5S R4E
E	Glenwood	Sec. 32 T3S R5E
I	Granite Reef	Sec. 31 T3S R5E
E	Gray Rocks Lode	Sec. 35 T3S R4E
G,E,J	Greene(Pink Monster,Red Monster)	Sec. 9 T5S R5E
E	H and M (Howard)	Sec. 29 T4S R5E
E	Happy (Harball's)	Sec. 33 T4S R5E
E	Harball's (Happy)	Sec. 33 T4S R5E
E	Harry Lode	Sec. 9 T4S R5E
E	Haselrodt Lode	Sec. 10 T4S R5E
E	Heidepriem and Cattles	Sec. 35 T3S R4E
E	Helen	Sec. 10 T4S R4E
E	Henry Gift	Sec. 31 T3S R5E
E	Henwood	Sec. 1 T5S R4E
E	Herbert	Sec. 13 T5S R4E
E,G	Hidden Treasure	Sec. 17 T5S R5E
E	High Lode	Sec. 5 T4S R5E
H	Hot Shot	Sec. 34 T3S R5E
E	Howard (H and M)	Sec. 29 T4S R5E
J	Hub	Sec. 10 T4S R4E
H	Jack Rabbit	Sec. 22 T4S R4E
J	LaRue (Tiger)	Sec. 22 T5S R5E
E	Lee Burrow's Dike	Sec. 33 T3S R5E
H	Lincoln No.1	Sec. 22 T4S R4E
E	Linwood (Phenacite)	Sec. 1 T5S R4E
E	Little Spar	Sec. 15 T4S R5E
E,J	Lofton (Mountain Rose)	Sec. 14 T5S R4E
G	Longview (Beecher No.2)	Sec. 18 T4S R5E
E	Lookout (Carroll Claims)	Sec. 11 T5S R4E
E	Lost Spring Lode	Sec. 22 T4S R5E
E	Lucky Span Lode	Sec. 35 T3S R4E
I	Lucky Star	Sec. 35 T3S R4E
E	Lucky Strike (Bowman)	Sec. 31 T4S R5E
E	Lucky Strike (Wood)	Sec. 25 T5S R4E
H	Lucky Twist (Sutherland)	Sec. 25 T4S R4E
E	Mack Lode	Sec. 2 T5S R4E
H	Marydale (Dilley's ?)	Sec. 14 T4S R4E
E	Maxine	Sec. 34 T4S R4E
E	Mayo Lode	Sec. 23 T4S R5E
E	McClaren (Red Bird)	Sec. 35 T4S R4E
E	McKay No.1	Sec. 4 T5S R5E
I	Mica King	Sec. 33 T3S R5E
I	Mica King 3 (Star, Blue Bonnet)	Sec. 33 T3S R5E
H	Midas	Sec. 14 T4S R4E
E	Mitchell Lode	Sec. 9 T4S R5E
E	Mitchell No.1	Sec. 33 T3S R5E
J	Mountain Beryl	Sec. 11 T5S R4E
E,J	Mountain Rose (Lofton)	Sec. 14 T5S R4E
E,J	Myrtle Ann	Sec. 19 T5S R5E
E	Number 9	Sec. 9 T4S R5E
E	Pay Day	Sec. 11 T5S R4E
H	Phenacite (Linwood)	Sec. 1 T5S R4E
E	Phillip	Sec. 18 T4S R5E
E	Pine Top	Sec. 10 T4S R4E
H	Pine Top Fraction	Sec. 11 T4S R4E
H	Pinecone	Sec. 33 T3S R5E
G,E,J	Pink Monster(Greene,Red Monster)	Sec. 9 T5S R5E
E	Pinkie	Sec. 5 T4S R5E
E	Pot Lode	Sec. 21 T4S R5E
E	Pringle (Charles Pringle)	Sec. 13 T5S R4E
L	Pringle Silica (Black Hills Silica, Robert McCullum)	Sec. 19 T5S R5E
E	Pringle Townsite (Townsite)	Sec. 24 T5S R4E
I	Rainbow Mica	Sec. 35 T3S R4E
E	Rambler	Sec. 31 T3S R5E
I	Ray	Sec. 15 T4S R4E
E	Red Bird (McClaren)	Sec. 35 T4S R4E
H	Red Deer	Sec. 15 T4S R5E
G,E,J	Red Monster(Greene,Pink Monster)	Sec. 9 T5S R5E
E	Red Rose No.1	Sec. 10 T4S R5E
E	Reed (Reede)	Sec. 9 T5S R5E
E	Reede (Reed)	Sec. 9 T5S R5E
H	Rives Lode	Sec. 15 T4S R5E
E	Roadrunner	Sec. 30 T4S R5E
E	Roadside	Sec. 15 T4S R4E
L	Robert McCullum (Black Hills Silica, Pringle Silica)	Sec. 19 T5S R5E
E	Roosevelt	Sec. 2 T4S R4E
E	Rose Quartz (Scott's Rose Qtz)	Sec. 10 T4S R5E
E	Roxy Lode	Sec. 18 T4S R5E
H	Ruby Reef	Sec. 23 T4S R5E
E	Scott's Rose Quartz (Rose Qtz)	Sec. 10 T4S R5E
I	Seal	Sec. 32 T4S R5E
E	Sellers	Sec. 25 T4S R4E
L	Shirttail Canyon Silica (Black Hills Silica)	Sec. 30 T5S R5E
H	Silver Dollar	Sec. 11 T4S R4E
J	Skeleton Lode	Sec. 22 T4S R5E
E	Ski-High	Sec. 16 T5S R5E
E,G	Smith	Sec. 16 T5S R5E
E	Sno No.1	Sec. 5 T4S R5E
E	Sno No.2	Sec. 32 T3S R5E
E	Soda Spar	Sec. 25 T4S R4E
I	Sole	Sec. 32 T4S R5E
E	Sonny Boy Lode	Sec. 33 T3S R5E
E	South Lode	Sec. 5 T4S R5E
E	Spud Lode	Sec. 21 T4S R5E
E	St. Louis	Sec. 3 T4S R5E
I	Star (Blue Bonnet, Mica King 3)	Sec. 33 T3S R5E
E	Star Lode	Sec. 5 T4S R5E
E	Sunday Dog	Sec. 35 T3S R4E
H	Sutherland (Lucky Twist)	Sec. 25 T4S R4E
J	Tiger (LaRue)	Sec. 27 T5S R5E
E,J	Tinsley (Elkhorn)	Sec. 34 T3S R5E
E	Tom Corey	Sec. 15 T3S R5E
E	Top Lode	Sec. 5 T4S R5E
E	Townsite (Pringle Townsite)	Sec. 24 T5S R4E
I	Triangle A	Sec. 34 T3S R5E
E	Tut Lode	Sec. 29 T4S R5E
E?	Unnamed	Sec. 8 T4S R5E
L	Quarry	Sec. 23 T5S R4E
E	Unnamed	Sec. 7 T4S R5E
E	Unnamed	Sec. 11 T5S R4E
L	Quarry	Sec. 13 T5S R4E
E?	Unnamed	Sec. 10 T5S R5E
E?	Unnamed	Sec. 16 T4S R5E
H?	Unnamed	Sec. 28 T5S R5E
E	Virginia Dike	Sec. 15 T4S R5E
E	Virginia Lode	Sec. 7 T5S R5E
E,H	Wayside	Sec. 33 T3S R5E
E	West Lode	Sec. 5 T4S R5E
H	Whale	Sec. 8 T5S R5E
E	White Bear	Sec. 11 T4S R4E
E	White Cloud	Sec. 15 T4S R4E
E	White Elephant	Sec. 36 T4S R4E
I	White Mica	Sec. 7 T4S R5E
H	Wildwood	Sec. 22 T4S R5E
E	Wonder Lode	Sec. 27 T4S R4E
E	Wood	Sec. 20 T5S R5E
E	Wood (Lucky Strike)	Sec. 25 T5S R4E

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 of Claim	Location
001	Dorothy	Sec. 34 T3S R4E
002	White Spar	Sec. 35 T3S R4E
003	Granite Reef	Sec. 31 T3S R5E
004*	Promontory	Sec. 31 T3S R5E
005	Granite Reef No.2	Sec. 31 T3S R5E
006	Granite Reef No.3	Sec. 31 T3S R5E
007	Granite Reef No.4	Sec. 31 T3S R5E
008*	Gold Ochre	Sec. 31 T3S R5E
009	Mica King	Sec. 33 T