

STATE OF MONTANA
BUREAU OF MINES AND GEOLOGY
Uuno M. Sahinen, Director

BULLETIN 77

DIRECTORY OF
MINING ENTERPRISES FOR 1969

with a
LIST OF ACTIVE COAL MINES, 1969

Compiled by
Miller Hansen
Montana Bureau of Mines and Geology

and a section on
THE MINERAL INDUSTRY OF MONTANA IN 1969

by
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This bulletin has been prepared with the cooperation of
Max Salazar, State Mine Inspector



MONTANA COLLEGE OF MINERAL SCIENCE AND TECHNOLOGY
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D I R E C T O R Y
O F
M I N I N G E N T E R P R I S E S F O R 1 9 6 9

by

Miller Hansen

I N T R O D U C T I O N

Each year Bureau geologists visit many mining properties in Montana in addition to work on their regular field projects. As it is not possible to visit in person all properties in the state during the year, information is requested from Montana mine operators and owners relating to their mining activities. The responses to this canvassing and personal interviews are then compiled and published annually in our Directory of Mining Enterprises.

Mining enterprises are listed systematically in categories in the main body of the Directory, either under Metal Mines or under Nonmetal Mines, Pits, and Quarries. In order, these categories are kind of ore or mineral produced; county in which the mine is situated; and the name of the mine. Additional information includes location of the property based on legal subdivisions of land survey; type of ore mined; mining district in which the property is situated; number of employees; mill capacity, if any; operator's name and address; owner's name and address; and yearly status, i.e., whether the property produced ore during the year, is still producing, developed ore without producing, or remained totally inactive. To facilitate looking up a mining enterprise, an index of mines, mine owners, and operators is included at the back of the Directory.

The Directory also contains a list of presently inactive mines. The list is not a complete one, as it is not possible to list all such mining properties in Montana in a publication this size. For this reason, the list is a compilation of only those properties that have undergone development work or have produced ore within recent years but were inactive for a period of more than one year. Mines inactive for a period of three consecutive years are dropped entirely from the Directory.

The rest of the Directory contains a list of Montana coal mines active in 1969 and a report entitled "The Mineral Industry of Montana in 1969," by F. V. Carrillo, W. N. Hale, and Mary Anne McComb, of the Bureau of Mines, U. S. Department of the Interior, Region I.

The author thanks the many Montana mine owners and operators for allowing information on their activities to be published. Special acknowledgment is due Mr. Carrillo, Mr. Hale, and Mrs. McComb for their part in this publication.

Every effort has been made to publish exact and complete information. The fact that a property is listed in the Directory, however, is not to be regarded as an endorsement of the property by the Montana Bureau of Mines and Geology. Conversely, if a property is omitted from the Directory, the omission is not to be taken as questioning its value or future. Such omissions are known to occur, but most are traceable to failure by the last known operator to respond to repeated requests for necessary information. Nevertheless, in most such cases, the missing data have been supplied from the best sources available.

If any additional facts or corrections can be provided, please submit such information to the Montana Bureau of Mines and Geology, Butte, Montana, 59701. Your help is needed to keep this yearly publication as up to date and accurate as possible.

The abbreviations used throughout the Directory are: sec., section; T., township; R., range; and t/d, tons per day.

PART 1, METAL MINES

ANTIMONY MINES

LINCOLN COUNTY: Libby

WHITE PINE CLAIM Stibnite, molybdenite
Troy district
Operator: Richard Fifield, Box 432
and Charles Johnson, Box 400
Troy MT 59935
Owner: Same as operator
Status: Developing

SANDERS COUNTY; Thompson Falls

BABBIT MINE Stibnite
Prospect Creek dist., sec. 17, T. 21 N., R. 31 W.
Operator: Knute Kirkeberg
Box 549, Troy MT 59935
Owner: Same as operator
Employees: 2
Status: Developing

CHROME MINES

STILLWATER COUNTY: Columbus

MOUAT MINE Chrome ore
Nye dist., sec. 20, 21, 28, 29, 30, T. 5 S., R. 15 E.
Operator: Monte Vista Co.
Box 1084, Billings MT 59101
Status: Unknown

GOLD, SILVER, COPPER, LEAD, ZINC MINES

BEAVERHEAD COUNTY: Dillon

AJAX MINE Gold, silver, lead
Swamp Creek dist., sec. 7, T. 6 S., R. 17 W.
Operator: Clayton Jenkins
Sula MT 59871
Owner: H. E. Morse
Dillon MT 59725
Status: Developing

*CAPITOL (CAVE GULCH) MINE Silver, lead
Argenta dist., sec. 5, T. 6 S., R. 10 W.
Operator: Spokane National Mines, Inc.
424 Hutton Bldg., Spokane WA 99204
Owner: Same as operator
Status: Inactive

BLUE EYED ANNIE MINE Silver
Elkhorn dist., unsurveyed, T. 4 S., R. 12 W.
Owner: John Miller
Polaris MT 59746
Status: Inactive

CLEVE-AVON and FRANKLIN MINE Gold, silver
Bryant (Hecla) dist., sec. 2, T. 3 S., R. 11 W.
Operator: Lively's Inc.
Melrose MT 59743
Owner: Same as operator
Status: Unknown

**BURGIEROSA GROUP Silver, lead
Vipond Park dist., sec. 34, 35, T. 1 S., R. 11 W.
Operator: Vipond Mining Co.
Box 63, Billings MT 59101
Owner: George Gluck
Ramsay MT 59748
Employees: 2
Status: Unknown

COMET GROUP Gold, silver, lead
Elkhorn dist., sec. 26, T. 4 S., R. 12 W.
Operator: Blue Sky Mining Corp.
Dillon MT 59725
Owner: Same as operator
Employees: 2
Status: Development and producing

*Open pit

**Open pit and underground

BEAVERHEAD COUNTY—Continued

COTTONTAIL MINE Silver, copper, lead
Blue Wing dist., sec. 28, 33, T. 7 S., R. 11 W.
Operator: Spokane National Mines, Inc.
424 Hutton Bldg., Spokane WA 99204
Owner: Same as operator
Employees: 6
Status: Developing

*DIADEM GROUP (ARNOLD) MINE Gold, silver,
copper, lead, zinc
Wisdom dist., sec. 7, 18, T. 3 S., R. 14 W.
Owner: Diadem Co.
618 S. Jefferson Ave., Spokane WA 99204
Status: Unknown

**FAITHFUL MINE Silver
Vipond Park dist., sec. 3, T. 2 S., R. 11 W.
Operator: Jim Arnoldi
2920 Quincy, Butte MT 59701
Owner: Jim Arnoldi, Butte MT 59701, and
Burr and Leonard Lively, Melrose MT 59743
Employees: 1
Status: Inactive

GOLDSMITH MINE Gold, lead, zinc
Argenta dist., NW¼ NE¼ sec. 30, T. 6 S., R. 10 W.
Operator: Argenta Silver Development Co.
Dillon MT 59725
Owner: Goldsmith Mining Corp.
Bannack Star Rte., Dillon MT 59725
Status: Producing and developing

*GREEN LIZARD MINE Silver
Vipond Park dist., sec. 2, T. 2 S., R. 11 W.
Operator: Herald Ellingston
Owner: Omer H. Boeh
2121 Locust St., Butte MT 59701, and
W. B. Hussman, 1900 Hamburg, Anaconda MT 59711
Status: Produced and developing

HECLA MINE Gold, silver
Bryant (Hecla) dist., sec. 2, T. 3 S., R. 11 W.
Operator: Lively's Inc.
Melrose MT 59743
Owner: Same as operator
Status: Unknown

*HORN SILVER MINE Silver
Argenta dist., sec. 18, 19, T. 6 S., R. 10 W.
Operator: Kenneth Langstaff
Dillon MT 59725
Owner: Big West Resources
905 E. Third, Spokane WA 99202
Status: Produced

*Open pit; **Open pit and underground.

*INGERSOL GROUP Gold, silver, lead, zinc
Blue Wing dist., sec. 3, T. 7 S., R. 11 W.; sec. 4, T. 8
S., R. 11 W.
Operator: Rex Land Co.
Box 1771, Seattle WA 98111
Owner: Same as operator
Employees: 4
Status: Developing

LEADVILLE MINE Silver, lead
Vipond Park dist., sec. 34, T. 1 S., R. 11 W.
Operator: Art Semsak and Julius Jackelini
Butte MT 59701
Owner: Same as operator
Status: Unknown

LUCKY STRIKE MINE Gold, silver, copper
Chinatown (Horse Prairie) dist., sec. 14, T. 11 S., R. 13 W.
Operator: Owen Adams and G. T. Adams
Box 64, Teasdale UT 84773
Owner: Same as operator
Status: Developing

*MAIDEN CREEK COPPER MINE Copper
Chinatown dist., sec. 23, T. 11 S., R. 13 W.
Operator: Chester A. Given
Rte. 1, Box 44-C, Arco ID 83213
Owner: Same as operator
Status: Inactive

MAULDEN (HAND) MINE Gold, silver, lead
Argenta dist., NW¼ NW¼ sec. 29, T. 6 S., R. 10 W.
Operator: Hand Mines
30 S. Arizona, Dillon MT 59725
Owner: John Hand
Box 105, Bannack Star Rte., Dillon MT 59725
Employees: 6
Status: Producing

NEW ARIADNE MINE Gold, silver
Hecla dist., sec. 2, T. 3 S., R. 11 W.
Operator: Lively's Inc.
Melrose MT 59743
Owner: Same as operator
Status: Unknown

NEW DEPARTURE MINE Gold, silver, lead, zinc
Blue Wing dist., NW¼ NW¼ sec. 26, T. 7 S., R. 11 W.
Operator: Spokane National Mines, Inc.
424 Hutton Bldg., Spokane WA 99204
Owner: Same as operator
Employees: 20
Mill capacity: 250 t/d
Status: Producing and developing

BEAVERHEAD COUNTY—Continued

- **POLARIS MINE Silver
Polaris (Lost Cloud) dist., sec. 28, T. 5 S., R. 12 W.
Operator: Midnite Mines, Inc.
North 711 Lincoln, Spokane WA 99201
Owner: Milton E. Hayes
Dillon MT 59725
Status: Producing and developing
- *QUARTZ HILL GROUP Silver
Quartz Hill dist., sec. 25, T. 1 S., R. 11 W.
Operator: New Park Mining Co.
c/o Leonard Garrand, Divide MT 59727
Owner: Quartz Hill Mining Co.
Box 2902, Portland OR 97208
Employees: 3
Status: Producing and developing
- QUEEN OF THE HILLS 1, 2, 3, and 4
Gold, silver, lead
Vipond Park dist., sec. 10, T. 2 S., R. 11 W.
Operator: Otis Redwine and Ray Jennette
80 E. Park St., Butte MT 59701
Owner: Same as operator
Status: Unknown
- SILVER BELLE GROUP Silver, lead
Blue Wing dist., sec. 29, T. 7 S., R. 11 W.
Operator: Spokane National Mines, Inc.
424 Hutton Bldg., Spokane WA 99204
Owner: Same as operator
Status: Developing
- SILVER QUEEN MINE Silver
Jake Canyon dist., sec. 17, T. 10 S., R. 7 W.
Operator: Silver Queen Exploration Co.
2114 Curtis St., Denver CO 80205
Owner: Jess Roberts, Frank Actis, and Frank White
Dillon MT 59725
Employees: 5
Status: Unknown
- SLEEPING PRINCESS GROUP Gold, copper
Bannack dist., sec. 8, T. 8 S., R. 11 W.
Operator: Spokane National Mines, Inc.
424 Hutton Bldg., Spokane WA 99204
Owner: Same as operator
Status: Developing
- TENDER GROUP Gold, silver, copper, lead, zinc, antimony
Argenta dist., sec. 24, T. 6 S., R. 11 W.
Operator: Claude H. Brown
Box 94, Dillon MT 59725
Owner: Same as operator
Status: Producing and developing
- VIRGINIA GULCH MINE Gold, silver
Argenta dist., sec. 15, T. 6 S., R. 11 W.
Operator: Kenneth Langstaff
Dillon MT 59725
Owner: Same as operator
Status: Developing
- *WEST ERMONT MINE
Argenta dist., sec. 35, T. 6 S., R. 11 W.
Operator: Big West Resources
905 E. Third, Spokane WA 99202
Owner: Same as operator
Status: Producing and developing
- YELLOW BAND (SHAFER) GROUP Gold, silver
Argenta dist., SE¼ SE¼ sec. 2, T. 6 S., R. 11 W.
Operator: John Shafer
205 W. Center, Dillon MT 59725
Owner: John Shafer and Associates
Dillon MT 59725
Status: Unknown

BLAINE COUNTY: Chinook

- LINDA MINE Silver, lead
Bearpaw Mountains dist., sec. 19, T. 29 N., R. 19 E.
Operator: Bearpaw Development Co., Homer Pike, Secy.
1639 - 5th Ave. NW, Great Falls MT 59401
Owner: Same as operator
Employees: 2
Status: Developing

*Open pit; **Open pit and underground

BROADWATER COUNTY: Townsend

BONANZA MINE Silver, lead
 Radersburg dist., sec. 19, T. 6 N., R. 1 W.
 Operator: John Byrd
 York Rte., Helena MT 59601
 Owner: George Porte
 528 Dearborn, Helena MT 59601
 Status: Produced

JANUARY MINE Silver, lead
 Winston dist., sec. 26, T. 8 N., R. 1 W.
 Operator: Mineral Resources Development Co.
 Tim M. Babcock, 2433 N. Montana Ave.
 Helena MT 59601
 Owner: Same as operator
 Status: Developing

JEANETTE MINE Gold, silver, lead
 Winston district
 Operator: Harold Hogan
 1243 N. 160th, Seattle WA 98133
 Owner: Same as operator
 Status: Unknown

JO DANDY MINE Silver, lead, zinc
 Radersburg dist., sec. 28, T. 5 N., R. 1 W.
 Operator: Kinley Enterprises, c/o A. D. Brown
 1315 W. Granite, Butte MT 59701
 Owner: Kinley Enterprises
 Round Hill Rd., Greenwich CT 06830
 Employees: 5
 Status: Producing and developing

*MOUNTAIN VIEW MINE Gold, silver, lead
 Winston dist., T. 8 N., R. 1 W.
 Operator: R. Gleason, Winston MT 59647, and
 R. Herndon, Townsend MT 59644
 Owner: Same as operator
 Status: Producing

PIONEER MINE Silver
 Indian Creek dist., sec. 35, T. 7 N., R. 1 W.
 Operator: Bill Lowery
 Box 93, Townsend MT 59644
 Owner: Same as operator
 Status: Unknown

RUBY SILVER MINE Silver, copper, lead, zinc
 Radersburg dist., sec. 33, T. 5 N., R. 1 W.
 Owner: W. R. Wade
 Marysville MT 59640
 Status: Developing

SANTA ANITA MINE Gold, silver, lead, zinc
 Cedar Plains dist., sec. 28, 35, T. 5 N., R. 1 W.
 Operator: Kinley Enterprises, c/o A. D. Brown
 1315 W. Granite, Butte MT 59701
 Owner: Kinley Enterprises
 Round Hill Rd., Greenwich CT 06830
 Employees: 3
 Status: Producing and developing

SUMMIT (OLD SUMMIT) and BLACKHAWK MINE
 Silver, lead, zinc
 Cedar Plains dist., sec. 16, 17, 20, T. 4 N., R. 1 W.
 Operator: Roy E. Nicolls
 Toston MT 59643
 Owner: Same as operator
 Employees: 2
 Status: Developing

*VALLEY VIEW MINE Gold, silver, lead, zinc
 Park (Indian Creek) dist., sec. 24, T. 7 N., R. 1 E.
 Operator: Warren Schreiner
 Box 665, Townsend MT 59644
 Owner: Same as operator
 Status: Developing

CASCADE COUNTY: Great Falls

DACOTA MINE Silver, lead, zinc
 Neihart dist., sec. 29, 30, 31, 32, T. 14 N., R. 8 E.
 Operator: Carroll R. Bennett
 Box 2267, Great Falls MT 59401
 Owner: Carroll R. and Richard C. Bennett
 Great Falls MT 59401
 Status: Inactive

FLORENCE MINE Silver, lead, zinc
 Neihart dist., sec. 29, 30, 31, 32, T. 14 N., R. 8 E.
 Operator: Carroll R. Bennett
 Box 2267, Great Falls MT 59401
 Owner: Carroll R. and Richard C. Bennett
 Great Falls MT 59401
 Status: Inactive

 *Open pit.

CASCADE COUNTY—Continued

LEXINGTON MINE Gold, silver, lead
 Montana dist., sec. 28, T. 14 N., R. 8 E.
 Operator: Lexington Silver-Lead Mining Co.
 621 Columbia Bldg., Spokane WA 99204
 Owner: Same as operator
 Status: Developing

MOGUL LODGE MINE Silver, lead
 Neihart dist., sec. 32, T. 14 N., R. 8 E.
 Operator: Arthur Schaub
 Chester MT 59522
 Owner: Same as operator
 Status: Unknown

MORNING STAR MINE Silver, lead, zinc
 Neihart dist. (unsurveyed), sec. 29, T. 14 N., R. 8 E.
 Operator: Northwest Mines Development Corp.
 504 Paulsen Bldg., Spokane WA 99201
 Owner: Same as operator
 Employees: 15
 Mill capacity: 50 t/d
 Status: Developing

MOULTON-BROADWATER MINE Silver, lead, zinc
 Neihart dist., unsurveyed, sec. 29, 32, T. 14 N., R. 8 E.
 Operator: Peter J. Antonioni and Sons
 1001 W. Gold, Butte MT 59701
 Owner: Same as operator
 Employees: 5
 Status: Producing and developing

PONDEROSA MINE Silver, copper, lead, zinc
 Neihart dist., sec. 15, T. 14 N., R. 8 E.
 Operator: James M. Morgan
 Box 653, Billings MT 59101
 Owner: Montana Mining and Development Co.
 Box 653, Billings MT 59101
 Employees: 5
 Status: Producing and developing

*SILVER DYKE MINE Silver, lead, zinc
 Neihart dist., sec. 10, T. 14 N., R. 8 E.
 Operator: Peter J. Antonioni and Sons
 1001 W. Gold, Butte MT 59701
 Owner: Same as operator
 Employees: 4
 Status: Developing

DEER LODGE COUNTY: Anaconda

ALTURAS MINE Gold, silver
 T. 5 N., R. 13 W.
 Operator: Lee Wattula
 Philipsburg MT 59858
 Status: Unknown

APEX MINE Gold
 Georgetown dist., sec. 4, T. 5 S., R. 13 W.
 Owner: Albert Sletton
 2905 Cable Rd., Anaconda MT 59711
 Status: Developing

CHAMPION SILVER MINE Gold, silver
 Oro Fino dist., sec. 28, 33, T. 6 N., R. 8 W.
 Operator: Champion Silver Mining Co.
 411 Metals Bank Bldg., Butte MT 59701
 Owner: The Anaconda Co.
 Butte MT 59701
 Employees: 5
 Status: Producing and developing

COTTONWOOD MINE Silver
 Oro Fino dist., sec. 8, T. 5 N., R. 8 W.
 Operator: Forest Berglund
 Box 251, Lincoln MT 59639
 Owner: Cottonwood Silver Mining Co.
 Great Falls MT 59401
 Status: Developing

**GREAT EASTERN MINE Silver, copper, zinc
 Lost Creek dist., sec. 9, 10, 34, T. 5 N., R. 11 W.
 Operator: C. L. Bergloff, 6082 Florence, Riverside CA 92504,
 and Lyman Thayer and L. E. Scott
 Rte. 1, Box 201, Anaconda MT 59711
 Owner: Same as operator
 Status: Developing

MINNEHAHA, HORSESHOE, and HELENA Gold, silver
 Georgetown dist., sec. 9, T. 5 N., R. 13 W.
 Operator: William J. Dean and Son
 309 S. Arizona, Butte MT 59701
 Owner: Same as operator
 Status: Inactive

 *Open pit.

**Open pit and underground.

DEER LODGE COUNTY—Continued

PYRITE MINE Gold

Georgetown dist., sec. 4, T. 5 N., R. 13 W.
 Owner: Albert Sletton
 2905 Cable Rd., Anaconda MT 59711
 Status: Inactive

RUBY MINE Silver

Oro Fino dist., sec. 28, T. 6 N., R. 8 W.
 Operator: Leo Powell
 Middleton TN 38052
 Owner: C. Paul Grosenick
 9505 - 44th NE, Seattle WA 99115
 Status: Unknown

SILVER MOSS MINE Gold, silver

Silver Lake dist., T. 5 N., R. 13 W.
 Operator: Allen Loobey
 Philipsburg MT 59858
 Status: Produced

SILVER REEF MINE Gold, silver

Silver Lake dist., sec. 22, T. 5 N., R. 13 W.
 Operator: W. C. Montgomery
 1818 W. Park, Anaconda MT 59711
 Owner: Same as operator
 Status: Produced

FERGUS COUNTY: Lewistown

BARNES-KING and KENDALL Gold, silver

North Moccasin dist., sec. 32, T. 18 N., R. 18 E.
 Operator: K-D Mining Co.
 E. 15 Walton Ave., Spokane WA 99207
 Owner: Mrs. Margharite McLean
 c/o W. H. Ringer, Rte. 1, Wayzata MN 55391
 Status: Inactive

BIG GRASSY GROUP Gold, silver

Warm Springs dist., sec. 30, T. 17 N., R. 20 E.
 Operator: Blue Range Mining Co.
 Box 534, Lewistown MT 59457
 Owner: L. C. Hoffman and S. C. Martin
 Lewistown MT 59457
 Status: Inactive

BLACK BULL MINE Gold, silver, copper, lead, zinc

Warm Springs dist., sec. 7, T. 16 N., R. 20 E.
 Operator: G. S. Abbott
 Gilt Edge Rte., Lewistown MT 59457
 Owner: Same as operator
 Status: Developing

*MINE NO. 4 MINE Gold, silver, copper, lead, zinc

Warm Springs dist., sec. 7, 18, T. 16 N., R. 20 E.
 Operator: S & P Mining Co.
 204 E. Washington St., Lewistown MT 59457
 Owner: Thomas A. Pentecost & Sons
 204 E. Washington St., Lewistown MT 59457
 Status: Developing

*MONTAGO MINE Gold, silver, copper

Warm Springs dist., sec. 30, 31, T. 17 N., R. 20 E.
 Operator: Helen W. Goll
 3109 W. McKinley Blvd., Milwaukee WI 53208
 Owner: Same as operator
 Status: Inactive

*MYRANDA CLAIM Gold, silver, lead

Warm Springs dist., sec. 8, T. 16 N., R. 20 E.
 Operator: L. A. Sandman
 Box 189, Lewistown MT 59457
 Owner: L. A. Sandman, William McVeda, and
 Lawrence Lenling, Lewistown MT 59457
 Status: Unknown

REPUBLIC MINE Silver, lead, zinc

South Moccasin dist., sec. 23, T. 16 N., R. 17 E.
 Operator: C. L. Kuhnhausen
 4906 NE 60th St., Vancouver WA 98661
 Owner: Same as operator
 Status: Unknown

SHEEP MOUNTAIN MINE Gold, silver, copper, lead

Warm Springs dist., sec. 4, 5, T. 16 N., R. 20 E.
 Operator: Lawrence Lenling, L. A. Sandman, and
 William McVeda, Box 74, Lewistown MT 59457
 Owner: Same as operator
 Employees: 3
 Status: Developing

SPOTTED HORSE MINE Gold, silver, tellurium, lead,
zinc

Warm Springs dist., sec. 5, T. 16 N., R. 20 E.
 Operator: L. C. Hoffman
 Blue Range Mining Co.
 Box 534, Lewistown MT 59457
 Owner: First Trust Co. of Montana, trustee
 Great Falls MT 59401
 Status: Developing

 *Open pit.

FLATHEAD COUNTY: Kalispell

*FLATHEAD-WEST FLATHEAD MINE

Silver, copper, lead
 Hog Heaven dist., sec. 17, T. 25 N., R. 23 W.
 Operator: Waino Lindbom
 1545½ - 7th Ave. W., Kalispell MT 59901
 Owner: The Anaconda Co.
 Butte MT 59701
 Employees: 9
 Status: Producing and developing

**SANKO CREEK MINE Gold, silver, copper

Star Meadow dist., NW¼ sec. 29, T. 31 N., R. 24 W.
 Operator: Kenneth Fishel
 Rte. 3, Kalispell MT 59901
 Status: Unknown

GALLATIN COUNTY: Bozeman

*SUNSHINE MINE Lead

Hyalite dist., sec. 31, T. 3 S., R. 6 E.
 Owner: Ernest Wehren, 421½ Perkins Pl., Bozeman MT 59715,
 and Frank McHenry, 425 E. Aspen, Bozeman MT 59715
 Status: Unknown

GRANITE COUNTY: Philipsburg

BANNER TAILINGS Gold, silver

Moose Lake dist., sec. 36, T. 4 N., R. 16 W.
 Operator: Dick Tunstill
 Philipsburg MT 59858
 Status: Unknown

BIG EXPECTATION MINE

Philipsburg dist., T. 7 N., R. 13 W.
 Operator: Spartan Research & Development Co.
 Philipsburg MT 59858
 Status: Unknown

*BI-METALLIC TAILINGS Gold, silver

Flint Creek dist., T. 7 N., R. 13 W.
 Operator: Frank Antonioni
 724 S. Western, Butte MT 59701
 Owner: Contact Mining Co.
 724 S. Western, Butte MT 59701
 Status: Inactive

*BLACK PINE DUMP Gold, silver, copper, tungsten

Flint Creek dist., sec. 16, T. 8 N., R. 14 W.
 Operator: John C. Bork
 519 W. Porphyry, Butte MT 59701
 Owner: Same as operator
 Status: Producing

*BLACK PINE TAILINGS Gold, silver, silica

Black Pine dist., sec. 16, T. 8 N., R. 14 W.
 Operator: Ben Walkup
 Philipsburg MT 59858
 Owner: August Buschmann Estate
 Seattle WA 98100
 Status: Inactive

BLUE BIRD MINE Gold, silver, copper

Rose Mountain dist., sec. 26, T. 8 N., R. 12 W.
 Operator: Ben Walkup
 Philipsburg MT 59858
 Owner: Same as operator
 Employees: 2
 Status: Developing

**BROOKLYN MINE Silver, copper, lead, zinc, bismuth

Boulder Creek dist., SW¼ NE¼ sec. 4, 5, T. 7 N., R. 12 W.
 Operator: Black and White Mining Co., R. F. Little
 4207 - 21st Ave., Missoula MT 59801
 Owner: Same as operator
 Status: Developing

CADGIE-TAYLOR LEASE Gold, silver, copper, lead, zinc

Flint Creek dist., SW¼ NE¼ sec. 19, T. 7 N., R. 13 W.
 Operator: James W. Young
 Box 342, Philipsburg MT 59858
 Status: Produced

CADGIE-TAYLOR MINE

Flint Creek dist., SW¼ NE¼ sec. 19, T. 7 N., R. 13 W.
 Operator: Cadgie-Taylor Co.
 Philipsburg MT 59858
 Status: Unknown

CARLIN-ONE DOLLAR MINE Silver, copper

Philipsburg dist., sec. 9, T. 6 N., R. 12 W.
 Operator: Harold Sletton
 1700 Tammany Ave., Anaconda MT 59711
 Owner: Same as operator
 Status: Inactive

*Open pit; **Open pit and underground.

GRANITE COUNTY—Continued

CARTER HALL MINE

Princeton district
Operator: Frank Puyear
Philipsburg MT 59858
Status: Inactive

CLIFF MILLSITE Silver, copper, zinc
Philipsburg dist., sec. 31, T. 7 N., R. 13 W.
Operator: Taylor-Knapp Co.
Philipsburg MT 59858
Owner: Trout Mining Co.
233 Broadway, New York NY 10007
Status: Inactive

COMANCHE EXTENSION LEASE (5797)

Flint Creek district
Operator: James W. Young
Box 342, Philipsburg MT 59858
Status: Produced

*COMANCHE EXTENSION MINE (6788) Silver

Flint Creek dist., sec. 19, T. 7 N., R. 13 W.
Operator: Ben Walkup
Philipsburg MT 59858
Owner: William F. Flynn
Anaconda MT 59711
Status: Produced

ELK-MOOSE MINE Gold, silver

Operator: Joe Metesh
Philipsburg MT 59858
Status: Unknown

GOLD REEF MINE Gold, silver

South Boulder dist., T. 7 N., R. 13 W.
Operator: Keith Rush & Associates
2905 Harrison Ave., Butte MT 59701
Owner: Larry McLane
212 Washington, Anaconda MT 59711
Status: Unknown

GRANITE BI-METALLIC MINE Silver

Philipsburg dist., sec. 31, T. 7 N., R. 13 W.
Operator: Hecla Mining Co.
Wallace ID 83873
Owner: Frank Antonioli
724 S Western, Butte MT 59701
Status: Exploration

*GRANITE TAILINGS Gold, silver

Flint Creek district
Operator: Frank Antonioli, 724 S. Western, Butte MT
Owner: Contact Mining Co., 724 S. Western, Butte MT
Status: Inactive

*GWYNN TAILINGS

Operator: Ernest Mazza and Ben Gwynn
Philipsburg MT 59858
Status: Unknown

**HATTA MINE Silver, lead, zinc
Dunkleberg dist., sec. 14, T. 9 N., R. 12 W.
Operator: E. C. Ecklesdafer
532 North Ave. W., Missoula MT 59801
Owner: Same as operator
Status: Developing

HAWKEYE MINE Gold, silver, lead

Operator: Frank Puyear
Philipsburg MT 59858
Owner: Pat McDonald
Philipsburg MT 59858
Status: Inactive

HOBO (NORTH GRANITE) MINE Gold, silver, lead, zinc

Philipsburg dist., T. 7 N., R. 13 W.
Operator: W. B. Hynes
Philipsburg MT 59858
Owner: Hynes-Patten-Wright
Philipsburg MT 59858
Status: Inactive

HOLLY NO. 1 Gold, silver, copper

Dunkleberg dist., sec. 15, T. 9 N., R. 12 W.
Operator: Larry A. McLane
212 Washington, Anaconda MT 59711
Owner: Same as operator
Status: Developing

*HOPE TAILINGS Silver

Hope Hill dist., sec. 19, T. 7 N., R. 13 W.
Operator: Frank Antonioli
724 S. Western, Butte MT 59701
Owner: Contact Mining Co.
724 S. Western, Butte MT 59701
Status: Inactive

*HOPE TAILINGS

Operator: Albert Walkup
Box 416, Philipsburg MT 59858
Owner: Same as operator
Status: Inactive

*LAST CHANCE TAILINGS Copper, silica

Maxville dist., sec. 36, T. 8 N., R. 14 W.
Operator: William R. McLure
Box 5, Philipsburg MT 59858
Status: Unknown

*Open pit; **Open pit and underground

GRANITE COUNTY—Continued

LYCOMING MINE

Philipsburg dist., sec. 17, T. 7 N., R. 13 W.
 Operator: Cadgie-Taylor Co.
 Philipsburg MT 59858
 Status: Produced

*MAXVILLE TAILINGS Gold, silver
 Philipsburg dist., sec. 4, T. 8 N., R. 13 W.
 Operator: James W. Young
 Box 342, Philipsburg MT 59858
 Owner: Granite County
 Philipsburg MT 59858
 Status: Producing

MICKEY MINE Gold, silver
 Red Lion dist., sec. 22, 27, T. 6 N., R. 13 W.
 Operator: Eugene Garrett
 Box 324, Anaconda MT 59711
 Owner: Same as operator
 Employees: 1
 Mill capacity: 15 t/d
 Status: Developing

**MOONLIGHT MINE Gold, silver, copper, lead
 Princeton dist., T. 8 N., R. 12 W.
 Operator: John C. Bork
 519 W. Propyry, Butte MT 59701
 Owner: Same as operator
 Status: Producing and developing

MOOSE TRAIL MINE Gold, silver
 Moose Lake district
 Operator: Gene and Monte Marker
 Garrison MT 59731
 Status: Produced

MOUNTAIN BOY MINE Gold, silver
 Philipsburg dist., sec. 19, T. 7 N., R. 13 W.
 Operator: Frank Puyear
 Philipsburg MT 59858
 Owner: James Patten
 Philipsburg MT 59858
 Status: Inactive

*MYERS QUARTZ CLAIM Gold
 Moose Lake dist., sec. 25, T. 4 N., R. 16 W.
 Operator: Charles Byam
 Philipsburg MT 59858
 Owner: Same as operator
 Status: Inactive

NANCY HANKS, DEWEY, MITCHELL, and MUSSIGBROD
 CLAIMS Gold
 Garnet dist., sec. 3, T. 12 N., R. 14 W.
 Operator: American Mining Co.
 700 Securities Bldg., Seattle WA 98101
 Owner: Same as operator
 Status: Inactive

**NEW SEATTLE (DOLLY QUARTZ) MINE Gold, silver
 Maxville dist., sec. 4, T. 8 N., R. 13 W.
 Operator: Dick Tunstill
 Philipsburg MT 59858
 Owner: Grace Maehl and Fannie Collins
 Maxville MT 59850
 Status: Developing and producing

PARNELL GROUP MINE Silver, copper, lead
 Flint Creek dist., sec. 7, 8, T. 7 N., R. 13 W.
 Operator: P. J. Heaney, Sr.
 Box 130, Philipsburg MT 59858
 Owner: P. J. Heaney and Ethel Heaney
 Box 130, Philipsburg MT 59858
 Status: Developing

POWELL MINE Gold, silver
 Philipsburg dist., T. 7 N., R. 12 W.
 Operator: Frank Puyear
 Philipsburg MT 59858
 Status: Inactive

**QUEEN MINE Silver
 Boulder dist., SW¼ sec. 33, T. 8 N., R. 12 W.
 Operator: R. J. MacCalman
 1010 - 5th St., Deer Lodge MT 59722
 Owner: Mrs. K. W. MacPherson
 St. Helena CA 94574
 Employees: 2
 Status: Developing

ROYAL BASIN DUMP Gold, silver
 Princeton dist., T. 8 N., R. 12 W.
 Operator: Frank Rupinski
 Hayden Lake ID 83835
 Status: Unknown

ROYAL BASIN MINE Gold, silver
 Princeton dist., T. 8 N., R. 12 W.
 Operator: George Knapp
 Philipsburg MT 59858
 Status: Unknown

 *Open pit; **Open pit and underground

GRANITE COUNTY—Continued

- *RUMSEY TAILINGS Gold, silver, silica
Flint Creek dist., sec. 8, T. 6 N., R. 13 W.
Operator: Lindy Fortunati
Anaconda MT 59711
Status: Unknown
- *RUMSEY TAILINGS Gold, silver, silica
Flint Creek dist., sec. 8, T. 6 N., R. 13 W.
Operator: Albert Walkup and William Crncevich
Philipsburg MT 59858
Owner: Jo Wilson
Philipsburg MT 59858
Status: Inactive
- *SALLY ELLEN MINE Gold, silver, lead, zinc
Maxville dist., sec. 16, T. 8 N., R. 12 W.
Operator: Ben Walkup
Philipsburg MT 59858
Owner: Walkup and Puyear
Philipsburg MT 59858
Status: Unknown
- SARANAC MINE Gold, silver
Philipsburg dist., T. 8 N., R. 13 W.
Owner: Princeton Mining Co.
Maxville MT 59850
Status: Produced
- SCRATCH AWL MINE Gold, silver
Flint Creek dist., sec. 29, T. 7 N., R. 13 W.
Operator: William Schneider and Wm. Crncevich
Philipsburg MT, and Frank Antonioli, Butte MT
Owner: Contact Mining Co.
724 S. Western, Butte MT 59701
Employees: 6
Status: Producing and developing
- SEPTEMBER MINE Gold, silver
Operator: George and Jack Knapp
Philipsburg MT 59858
Status: Unknown
- SWEET HOME MINE Gold, silver
Philipsburg dist., T. 7 N., R. 13 W.
Operator: Joe Metesh
Philipsburg MT 59858
Status: Unknown
- SUNRISE MINE Gold, silver
T. 9 N., R. 14 W.
Operator: Sanderson Trucking Co.
Philipsburg MT 59858
Status: Unknown
- TRUE FISSURE MINE Silver, lead, zinc
Flint Creek dist., W½ NW¼ sec. 29, T. 7 N., R. 13 W.
Operator: Taylor-Knapp Co.
Philipsburg MT 59858
Owner: Same as operator
Employees: 40
Mill capacity: 50 t/d
Status: Producing
- VAN DORSTAN MINE Gold, silver
Operator: Otis Redwine
Butte MT 59701
Status: Unknown
- YOUNG AMERICA MINE Gold, silver
Philipsburg dist., T. 7 N., R. 13 W.
Operator: James R. Hunter
Philipsburg MT 59858
Status: Produced

JEFFERSON COUNTY: Boulder

- ALTA MINE Gold, silver, copper, lead, zinc, silica
Colorado (Corbin-Wickes) dist., sec. 10, T. 7 N., R. 4 W.
Operator: Lahey Leasing Co.
Corbin MT
Owner: Alta Mines Corp., c/o Fred Small
Helena MT 59601
Status: Unknown
- Band G MINE Gold, silver, lead
Alhambra-Warm Springs dist., sec. 31, T. 8 N., R. 2 W.
Operator: Carl Benson
716 N. Davis, Helena MT 59601
Owner: Same as operator
Status: Unknown
- *BULLION MINE Gold, silver, lead, zinc
Cataract dist., sec. 13, T. 7 N., R. 6 W.
Operator: D. M. and John Bullock
Basin MT 59631
Status: Unknown
- CAMP OWEN MINE Silver, lead
Whitehall district
Operator: Lester Lindquist
Whitehall MT 59759
Owner: Same as operator
Status: Inactive
- *Open pit

JEFFERSON COUNTY—Continued

CARLSON PROSPECT (NORTH BOULDER GROUP)
 Gold, silver, copper, lead, zinc
 Alta Gulch-Bernice dist., sec. 13, 14, 23, 24, T. 6 N.,
 R. 7 W.
 Operator: The Anaconda Co.
 Butte MT 59701
 Owner: Carlson Estate, Basin MT 59631
 Status: Inactive

CRESCENT MINE Gold, silver, copper, lead
 Cataract (Basin) dist., sec. 28, T. 8 N., R. 5 W.
 Owner: Holter Estate
 Helena MT 59601
 Status: Unknown

CRYSTAL MINE Gold, silver, copper, lead
 Cataract (Basin) dist., sec. 20, T. 7 N., R. 5 W.
 Operator: Crystal Mines, Inc.
 8 First National Bank Bldg., Butte MT 59701
 Owner: Delbert and A. J. Bullock
 Basin MT 59631
 Status: Producing and developing

EDELWEISS MINE Silver, lead, zinc
 Wickes dist., sec. 1, 2, T. 7 N., R. 5 W.
 Operator: Inar and Henning Norgaard
 Box 544, Helena MT 59601
 Owner: Ivor and Glen Jenkins, Russell Tintinger,
 and R. E. Nicolls, Jefferson City MT 59638
 Employees: 3
 Status: Developing

EDGE NO. 1, NORWAY NO. 6, OUR TICKET, and
 EASY MONEY Gold, silver, copper, lead
 Montana dist., sec. 14, 15, 23, 26, T. 9 N., R. 3 E.
 Operator: Earl Lutzenhiser
 2331 National Ave., Helena MT 59601
 Owner: Same as operator
 Status: Developing

ELKHORN MINE Silver, lead, zinc
 Elkhorn dist., sec. 9, 11, 14, 15, 16, 22, 27, 33, 34,
 T. 6 N., R. 3 W.
 Operator: Development Operating Corp.
 Box 14, Boulder MT 59632
 Owner: Mrs. D. C. Walker, C. S. Youlden Estate, and
 Anker Henningsen, Butte MT, and Victoria, B. C.
 Status: Exploration

*Open pit

ELKHORN QUEEN MINE Silver, lead, zinc
 Elkhorn dist., sec. 26, T. 6 N., R. 3 W.
 Operator: Shipman Mining and Exploration Co.
 Boulder MT 59632
 Owner: John Rothfus
 2100 Oregon Ave., Butte MT 59701
 Status: Inactive

*EVA MAY MINE and TAILINGS Silver, copper, zinc
 Basin-Cataract dist., sec. 21, 22, T. 7 N., R. 5 W.
 Operator: W. K. Miller
 Basin MT 59631
 Owner: Neuberg Bros. & Sloan, Inc.
 First National Bank, Butte MT 59701
 Status: Unknown

*GOLDEN ASSETS MINE Gold, silver, copper, lead, zinc
 Golconda dist., sec. 29, T. 7 N., R. 5 W.
 Operator: Fred K. Madison
 1302 W. Geysler, Livingston MT 59047
 Owner: Same as operator
 Status: Developing

GOLDEN CURRY (SOURDOUGH) MINE Gold, silver,
 copper, lead, zinc
 Elkhorn dist., sec. 10, T. 6 N., R. 3 W.
 Operator: John Rothfus
 2100 Oregon Ave., Butte MT 59701
 Owner: Same as operator
 Employees: 2
 Status: Producing and developing

GOOD CHEER MINE Silver
 Warm Springs dist., sec. 18, T. 8 N., R. 2 W.
 Operator: Associated Mining & Metals, Inc.
 Box 95, Clancy MT 59634
 Owner: Same as operator
 Status: Unknown

HARDMORE GROUP Silver, lead
 Elkhorn dist., sec. 5, T. 7 N., R. 2 W.
 Operator: Wayne Miller
 Radersburg MT 59641
 Owner: Ed Hilterbrand
 Status: Unknown

HOPE and BULLION MINE Gold, silver, and base metals
 Comet (Boulder) dist., sec. 6, 31, T. 7 N., R. 6 W.
 Operator: J. Mueller Co.
 Owner: Mrs. A. K. Romerio
 19320 Hinsdale, Torrance CA 90503
 Employees: 5
 Status: Producing and developing

JEFFERSON COUNTY—Continued

*HOPE TAILINGS

Boulder district
 Operator: Frank Antonioli
 724 S. Western Ave., Butte MT 59701
 Status: Inactive

HUMBOLT MINE Gold, silver

Homestake dist., sec. 9, T. 3 N., R. 6 W.
 Operator: Stanley L. Boyce
 Rte. 1, Box 206, Butte MT 59701
 Owner: Same as operator
 Status: Developing

JIB MINE Gold, silver, copper, lead

Basin-Cataract dist., sec. 18, T. 6 N., R. 5 W.
 Operator: Conda Butte Exploration, Inc.
 8 First National Bank Bldg., Butte MT 59701
 Owner: Sylvanite, Inc.
 43 E. Broadway, Butte MT 59701
 Status: Developing

*KING SOLOMON MINE DUMP Silver, lead, zinc

Clancy dist., sec. 6, 7, T. 8 N., R. 3 W.
 Operator: Norman Peura, John Saari, and J. Reilly
 Jefferson City MT 59638
 Owner: R. L. and B. M. Marks
 Clancy MT 59634
 Status: Inactive

KLONDYKE MINE Gold, silver

Elkhorn dist., sec. 11, T. 6 N., R. 3 W.
 Operator: Klondyke Gold Mines, Inc.
 Wade V. Lewis, Boulder MT 59632
 Owner: C. W. and Lilah Schreiner, et al
 3011 Richardson, Butte MT 59701
 Status: Developing

LEADVILLE MINE Silver, lead, zinc

Leadville dist., sec. 36, T. 7 N., R. 8 W.
 Operator: I. W. Stocks
 1118 O'Neil, Deer Lodge MT 59722
 Status: Unknown

LITTLE GOLDIE MINE Gold, silver, lead

Elkhorn district
 Operator: Richard Arnold and Norman Boe
 Boulder MT 59632
 Owner: Sam Arnold
 Boulder MT 59632
 Status: Produced

*LITTLE OWEN MINE

Basin dist., sec. 12, T. 7 N., R. 6 W.
 Operator: H. A. Bolinger, Jr.
 136 E. Main, Bozeman MT 59715
 Owner: Same as operator
 Status: Produced

*LIVERPOOL DUMP Silver, lead

Clancy dist., sec. 33, T. 9 N., R. 3 W.
 Operator: Liverpool Mining Co., c/o Louis Peura
 Clancy MT 59634
 Status: Produced

LOTTA MINE Gold

Basin dist., sec. 17, 18, T. 6 N., R. 5 W.
 Operator: Amazon Minerals Exploration Co., Inc.
 1703 Lakeshore Dr., Michigan City IN 46360
 Owner: Sylvanite, Inc.
 43 E. Broadway, Butte MT 59701
 Status: Unknown

MAMMOTH MINE Gold, silver, lead, zinc

Corbin dist., sec. 35, T. 8 N., R. 4 W.
 Operator: Norman Peura, John Saari, and J. Reilly
 Jefferson City MT 59638
 Owner: Ed Kyler
 Boulder MT 59632
 Status: Developing

MAY and LITTLE SALLIE MINE Gold, silver, copper, lead, zinc

Colorado (Katy Gulch) dist., sec. 1, T. 7 N., R. 5 W.
 Operator: John K. Saari
 305 Clancy St., Helena MT 59601
 Owner: Paul Keller
 Power Block, Helena MT 59601
 Employees: 3
 Status: Developing

MEADOW MINE Silver, lead

Clancy dist., sec. 34, T. 9 N., R. 3 W.
 Operator: Mascot Mines, Inc.
 Box 544, Helena MT 59601
 Owner: Albert Haab
 Clancy MT 59634
 Employees: 3
 Status: Developing

 *Open pit

JEFFERSON COUNTY—Continued

- MOUNTAIN QUEEN MINE Silver, lead, zinc
Big Foot dist., sec. 27, T. 4 N., R. 5 W.
Operator: William Mulcahy
Box 21, Butte MT 59701
Owner: Same as operator
Status: Developing
- NELLIE GRANT MINE Gold, silver, lead zinc
Clancy (Lump Gulch) dist., sec. 14, T. 8 N., R. 5 W.
Operator: Barmont Mines, Inc.
2624 Edwards St., Butte MT 59701
Owner: C. E. Pew
Helena MT 59601
Status: Unknown
- *NEW BALD EAGLE MINE Gold, silver
Big Foot dist., sec. 16, T. 4 N., R. 5 W.
Operator: William Mulcahy
Box 21, Butte MT 59701
Owner: Same as operator
Status: Developing
- *NEW STATE DUMP Silver, copper, lead, zinc
Clancy dist., sec. 9, T. 8 N., R. 3 W.
Operator: Clifford Main
Clancy MT 59634
Status: Unknown
- *NEW YORK DUMP Silver, lead, zinc
Comet dist., sec. 6, T. 6 N., R. 4 W.
Operator: Shipman Mining and Exploration Co.
Box 72, Boulder MT 59632
Owner: St. Paul's Methodist Church and
Intermountain Deaconess Home
Helena MT 59601
Status: Unknown
- NORTH SUNLIGHT GROUP Gold, silver, copper,
lead, zinc
Cardwell district
Operator: William G. Wegener
Box 144, Whitehall MT 59759
Owner: Wegener Bros.
Whitehall MT 59759
Status: Developing
- **PETERSON DUMP Gold, silver, lead
Colorado district
Operator: The Anaconda Co., Butte MT 59701
Owner: John Peterson, Sr.
Jefferson City MT 59638
Status: Inactive
- *Open pit; **Open pit and underground
- *REDEMPTION MINE Gold, silver, silica
Comet district
Operator: E. H. Battermann
Box 461, Basin MT 59631
Owner: Poore, Poore & Poore
Butte MT 59701
Status: Developing
- RUBY SILVER MINE Gold, silver
Lowland dist., sec. 2, 11, T. 5 N., R. 7 W.
Operator: Ruby Silver Mines, Inc.
101 W. Granite, Butte MT 59701
Owner: Same as operator
Employees: 3
Status: Developing
- *RUMLEY DUMP Gold, silver, copper, lead, zinc
Comet dist., sec. 36, T. 7 N., R. 5 W.
Operator: Harold J. Giulio
Boulder MT 59632
Status: Unknown
- SILVER HILL MINE Gold, silver, copper, lead, zinc
Cataract dist., sec. 36, T. 7 N., R. 5 W.
Operator: Harold Giulio
Boulder MT 59632
Status: Unknown
- SILVER QUEEN MINE Gold, silver
Whitehall dist., sec. 6, T. 2 N., R. 5 W.
Operator: William Beete
655 W. Granite, Butte MT 59701
Status: Inactive
- SOUTH VIEW MINE Gold, silver, lead
St. Paul Gulch dist., SE¼ sec. 24, T. 2 N., R. 4 W.
Operator: Charles O. Weber
Box 235, Whitehall MT 59759
Owner: Same as operator
Status: Producing
- SUNNYSIDE MINE Gold, silver
Cardwell dist., SE¼ sec. 13, T. 2 N., R. 4 W.
Operator: Lester Lindquist
Box 373, Whitehall MT 59759
Owner: Same as operator
Status: Inactive
- VERA AND MARIE MINE Silver
Cataract dist., sec. 33, T. 7 N., R. 5 W.
Operator: W. K. Miller
Basin MT 59631
Owner: Drew Jackson
3065 E. 4th St., Casper WY 82601
Status: Inactive

JUDITH BASIN COUNTY: Stanford

CAPE NOME MINE Silver, lead, zinc
 Barker dist., sec. 31, T. 16 N., R. 9 E.
 Operator: Frank and Bill Davis
 1109 First Ave. S., Great Falls MT 59401
 Owner: Same as operator
 Employees: 2
 Status: Developing

LIBERTY MINE Silver, lead, zinc
 Barker dist., sec. 6, 7, 18, T. 15 N., R. 9 E.
 Operator: Anderson and Antonioli
 1001 W. Gold, Butte MT 59701
 Owner: Faith Mining Co.
 Box 1681, Helena MT 59601
 Status: Developing

MONTGOMERY and SAN MIGUEL MINE Gold,
 silver, copper, lead, zinc
 Barker dist., sec. 21, T. 15 N., R. 9 E.
 Operator: Mrs. G. V. R. McBride
 Monarch MT 59463
 Owner: Same as operator
 Status: Developing

TIGER MINE Silver, lead
 Barker dist., sec. 5, 6, T. 15 N., R. 9 E.
 Operator: Croff and Montague
 Box 69, Monarch MT 59463
 Owner: Clendennin Mines, Inc.
 c/o J. T. Nightengale, Boston MA 02100
 Status: Developing

LEWIS AND CLARK COUNTY: Helena

AMERICAN BOY (NORTH GOULD GROUP) MINE
 Gold, silver
 Stemple Pass dist., sec. 10, 11, 14, 15, T. 13 N., R. 7 W.
 Operator: Glenn Allman
 Lincoln MT 59639
 Owner: Same as operator
 Status: Developing

CONSOLATION MINES Silver, copper, molybdenum
 Heddleston dist., sec. 21, T. 15 N., R. 6 W.
 Operator: J. A. Thompson
 Lincoln MT 59639
 Owner: Same as operator
 Status: Developing

*COME AGAIN and CROWN GROUP Gold, silver, silica
 Iowa dist., sec. 26, 27, T. 11 N., R. 4 W.
 Operator: Edwin W. Castle, Inc.
 Box 949, Helena MT 59601
 Owner: E. W. Castle, Inc. and Walwynn Co.
 Helena MT 59601
 Employees: 2 to 5
 Status: Unknown

**COPPER BOWL MINE Copper
 Heddleston dist., sec. 30, T. 16 N., R. 6 W.
 Operator: Clarence J. Erickson
 Box 253, Lincoln MT 59639
 Owner: Same as operator
 Status: Unknown

 *Open pit; **Open pit and underground

*DRUMLUMMON TAILINGS Gold, silver, copper, lead,
 zinc
 Marysville dist., S½ sec. 36, T. 12 N., R. 6 W.
 Operator: Carlos Hieber
 1035 - 12th Ave., Helena MT 59601
 Owner: St. Louis Drumlummon Mines, Inc.
 St. Louis MO 63100
 Status: Developing

EMPIRE MINE Gold, silver, lead
 Marysville dist., sec. 33, 34, T. 12 N., R. 6 W.
 Operator: Herbert Carver
 802 - 5th Ave., Helena MT 59601
 Owner: Albert Fritsche
 Point Lookout, New Ulm MN 56073
 Status: Unknown

EVENING STAR MINE Gold, silver
 Nevada district
 Operator: Ray N. Peterson, Lassalle Travel International
 98 Post St., San Francisco CA 94104
 Owner: Ray N. Peterson, F. Weick, and J. Hamilton
 San Francisco CA 94104
 Employees: 2
 Status: Developing

FRANKLIN MINE Gold, silver, copper, lead
 Tenmile (Scratch Gravel) dist., sec. 11, T. 10 N., R. 4 W.
 Operator: Helena Minerals Co., Inc., c/o Chester Leirness
 1900 - 11th Ave., Helena MT 59601
 Owner: Thomas Cruse Mining & Development Co.
 c/o Fergus Fay, 446 W. Lawrence, Helena MT 59601
 Status: Producing and developing

LEWIS AND CLARK COUNTY—Continued

FREE SPEECH MINE Gold, silver, lead

Rimini dist., sec. 4, T. 8 N., R. 5 W.

Operator: T. L. Thompson

Box 1435, Anaconda MT 59711

Owner: Red Mountain Consolidated Mining Co.

St. Paul MN 55100

Status: Unknown

LUCKY LINDA MINE Silver, lead

Rimini dist., sec. 16, T. 8 N., R. 5 W.

Operator: George Phillips

Rimini Rte., Helena MT 59601

Owner: Same as operator

Status: Developing

*MILJOUR-VIOLET JANE MINE Gold, silver, lead

Cedar Hills dist., sec. 7, 8, 17, 18, T. 11 N., R. 3 W.

Operator: Cal-Mont Associates, Inc.

Earl Enger, Gen. Mgr., Box 548

East Helena MT 59635

Owner: Same as operator

Status: Unknown

MONTE CHRISTO MINE Gold, silver, copper, lead

Rimini (Vaughn) dist., sec. 17, T. 8 N., R. 5 W.

Operator: Hans Mo

1500 Madison Ave., Helena MT 59601

Owner: Same as operator

Status: Produced and developing

OLD BACHELOR MINE

Stemple Pass dist., sec. 15, T. 13 N., R. 7 W.

Operator: Dillsworth and Smith

1509 River Rd., Missoula MT 59801

Owner: Same as operator

Status: Inactive

ORO FINO MINE Silver, molybdenum

Marysville dist., sec. 2, T. 12 N., R. 6 W.

Operator: W. R. Wade

Marysville MT 59640

Owner: Same as operator

Status: Developing

PENNUTE CONSOLIDATED MINING CO. Gold, silver, lead

Stemple and Rimini district (6 mines)

Operator: E. J. Young

409 - 25th Ave. NE, Great Falls MT 59401

Employees: 6

Status: Unknown

SAM GATY MINE Gold, silver, copper, lead

Tennile dist., sec. 11, T. 10 N., R. 4 W.

Operator: Helena Minerals Co., Inc., c/o Chester Leirness

1900 - 11th Ave., Helena MT 59601

Owner: C. E. Pew, et al, c/o Monida Vaughn

937 - 11th Ave., Helena MT 59601

Mill capacity: 150 t/d

Status: Producing and developing

**STEMPLE and JAY GOULD MINES Gold, silver

Stemple Pass dist., sec. 10, T. 13 N., R. 7 W.

Operator: Vern C. Knopf

1621 Cannon St., Helena MT 59601

Owner: Same as operator

Status: Developing

TWILIGHT CLAIMS GROUP Gold, silver, copper

Helena dist., sec. 2, T. 9 N., R. 2 W.

Operator: J. R. Stimps and C. W. Kohl

Box 665, Shelby MT 59474

Owner: Same as operator

Status: Developing

LIBERTY COUNTY: Chester

**SWEETGRASS MINE Silver, copper

East Butte dist., sec. 25, T. 36 N., R. 4 E.

Operator: L. R. Hannah and Cedor Aronow

Box 651, Shelby MT 59474

Owner: Same as operator

Status: Inactive

*Open pit; **Open pit and underground

LINCOLN COUNTY: Libby

- BLUE JAY and STAR CLAIMS Silver, lead
Troy district
Operator: Richard F. Fifield
Box 432, Troy MT 59935
Owner: Same as operator
Status: Developing
- CABINET LEASE (BIG EIGHT MINE) Silver, lead, zinc
Callahan Creek dist., sec. 19, T. 31 N., R. 34 W.
Operator: Eugene F. Tunstill
Box 375, Troy MT 59935
Owner: Bruce R. Taylor
1314 E. 43d Ave., Spokane WA 99203
Status: Developing
- IRON MASK MINE
Troy dist., sec. 11, 14, T. 30 N., R. 34 W.
Operator: Ernie Williams
Troy MT 59935
Status: Unknown
- **SILVER BUTTE MINE Gold, silver, lead, zinc
Silver Butte dist. (unorganized), T. 25 N., R. 30 W.
Operator: Idaho-Cibola Mining Co., c/o Al Chambers
Star Rte. 1, Libby MT 59923
Employees: 6
Mill capacity: 100 t/d
Status: Developing
- SNOWSHOE MINE Gold, silver, lead
Libby (Snowshoe) dist., sec. 11, T. 28 N., R. 32 W.
Operator: Mascot Silver Mines
Wallace ID 83873
Owner: W. B. Foote
Kalispell MT 59901
Status: Inactive
- SNOWSTORM MINE Gold, silver, lead, zinc
Troy dist., sec. 19, 20, T. 31 N., R. 34 W.
Operator: Trojan Silver-Lead Mining Co.
Knutte Kirkeberg, Mgr., Box 549, Troy MT 59935
Employees: 8
Mill capacity: 120 t/d
Status: Developing and exploring

MADISON COUNTY: Virginia City

- *ALAMEDA and BAMBOO CHIEF MINE Gold, silver
Virginia City dist., sec. 27, 28, T. 6 S., R. 3 W.
Operator: Alameda Metals, Inc.
Box 205, Virginia City MT 59755
Owner: Same as operator
Status: Developing
- BESSIE and GOLDEN WAVE MINE Gold, silver,
copper, tungsten
Mineral Hill district
Operator: W. G. Forbes
Pony MT 59747
Owner: Same as operator
Status: Developing
- *BEVERLY CLAIM Gold, silver
Silver Star dist., sec. 8, 9, T. 2 S., R. 6 W.
Operator: John Patterson
Box 145, Sheridan MT 59749
Owner: Same as operator
Status: Developing
- BINS MINE Gold, silver
California Creek (Tobacco Root Range) dist.,
sec. 5, T. 5 S., R. 3 W.
Operator: Goldstream Mining Co.
6715 Village Rd., Salt Lake City UT 84121
Owner: Same as operator
Status: Developing
- BLACK ACE MINE Gold, silver, lead, zinc
Tidal Wave dist., NW¼ NE¼ sec. 34, T. 3 S., R. 5 W.
Owner: Lewis C. Rollins
Box 4, Waterloo MT 59757
Status: Inactive
- BLUE BELL (see page 18)
- BOULDER-COBALT MINE Gold, silver, copper, lead
Tidal Wave dist., sec. 5, T. 3 S., R. 4 W.
Operator: Blue Mountain Mines, Inc., A. A. Moser
Hardin MT 59034
Owner: Same as operator
Status: Developing
- COMMONWEALTH GROUP (CALVIN MINE) Gold,
silver, lead, zinc
McCartney Mountain dist., sec. 28, T. 2 S., R. 8 W.
Operator: Kibbe & Co.
304 First Security Bank Bldg., Salt Lake City UT 84111
W. J. Franklin, Supt.
Box 278, Twin Bridges MT 59754
Owner: Commonwealth Lead Mining Co.
Provo UT 84601
Employees: 6
Status: Producing and developing
- *Open pit; **Open pit and underground

MADISON COUNTY—Continued

BLUE BELL GROUP MINES Silver

Virginia City dist., sec. 31, T. 6 S., R. 3 W.
 Operator: Silver Hill Mines, Inc.
 E. 12707 Valley Way, Spokane WA 99216
 Owner: Silver Hill Mines, Inc., and others
 E. 12707 Valley Way, Spokane WA 99216
 Status: Developing

*EASTON-PACIFIC MINE Gold, silver

Virginia City dist., sec. 9, T. 7 S., R. 3 W.
 Operator: Ed Scheitlin
 Virginia City MT 59755
 Owner: Easton Pacific Co. and Riverside Mining Corp.
 Virginia City MT 59755
 Employees: 3
 Status: Producing

FORKS MINE Gold, silver

Virginia City dist., sec. 33, 34, T. 6 S., R. 3 W.;
 sec. 3, 4, T. 7 S., R. 3 W.
 Operator: R. W. Leighton
 Osburn ID 83849
 Owner: R. W. Leighton and Warren Duffield
 Box 116, Osburn ID 83849
 Status: Developing

FRIDA MARIE CLAIM Gold, silver

Silver Star dist., sec. 10, 11, T. 2 S., R. 6 W.
 Operator: James King
 Box 583, Sheridan MT 59749
 Owner: Same as operator
 Status: Unknown

*GREEN CAMPBELL MINE

Silver Star dist., sec. 3, T. 2 S., R. 6 W.
 Operator: United Investors Corp.
 860 - 18th Ave., Salt Lake City UT 84103
 Owner: Same as operator
 Status: Producing

HILL TOP MINE Gold, silver, copper, lead, zinc

Virginia City dist., sec. 4, T. 7 S., R. 3 W.
 Operator: Ed Scheitlin
 Virginia City MT 59755
 Owner: Same as operator
 Employees: 1
 Status: Developing

HIRST MINE

McCarthy Mountain dist., sec. 18, T. 4 S., R. 8 W.
 Operator: Spokane National Mines, Dillon MT 59725
 Owner: Spokane National Mines
 424 Hutton Bldg., Spokane WA 99204
 Status: Producing

JACK RABBIT MINE

Rochester dist., sec. 21, T. 2 S., R. 8 W.
 Operator: Mountain Gold and Silver, Inc., and others
 c/o Jim McLaughlin, Rte. 1, Box 22, Sheridan MT 59749
 Owner: Same as operator
 Employees: 3
 Status: Producing and developing

JUMPER CLAIMS Gold, silver, copper

Pony dist., sec. 27, T. 2 S., R. 3 W.
 Operator: Carl Masterson, Fishtail MT 59028
 and Harold Neal, Pony MT 59747
 Owner: Same as operator
 Status: Developing

KEARSARGE MINE Gold

Virginia City dist., sec. 23, T. 7 S., R. 3 W.
 Operator: Virgil Smith
 Virginia City MT 59755
 Status: Unknown

MISTAKE MINE Gold, silver

Cherry Creek dist., sec. 31, T. 2 S., R. 2 E.
 Operator: Marion DuBeau
 Box 124, Norris MT 59745
 Owner: Same as operator
 Status: Inactive

MORNING STAR MINE Silver, zinc

Lower Hot Springs dist., sec. 28, 29, T. 3 S., R. 1 E.
 Operator: R. B. Farnsworth
 109 Willson, Bozeman MT 59715
 Owner: Same as operator
 Employees: 2
 Status: Developing

MOUNTAIN FLOWER MINE Gold, silver

Williams Gulch dist., sec. 33, T. 6 S., R. 3 W.
 Operator: R. H. Rogers
 Box 11, Alder MT 59710
 Owner: Same as operator
 Status: Developing

NELLIE BLY GROUP Gold

Fairweather dist., T. 7 S., R. 3 W.
 Operator: Janus Mining Co.
 Virginia City MT 59755
 Status: Unknown

 *Open pit

MADISON COUNTY—Continued

RED CHIEF MINE Gold, silver
Norwegian dist., sec. 1, T. 3 S., R. 2 W.
Operator: Ray Alger
Deer Lodge MT 59722
Owner: Thomas Durham
Pony MT 59747
Status: Producing and developing

RED PINE MINE Gold, silver
Sheridan dist., sec. 5, T. 4 S., R. 4 W.
Operator: Shermont Mining Co.
c/o John Magnus, Twin Bridges MT 59745
Owner: Ruby Valley Development Co., Inc.
14503 Washington Ave. SW, Tacoma WA 98498
Employees: 2
Mill capacity: 100 t/d
Status: Unknown

ST. LAWRENCE CONSOLIDATED MINE Gold, silver
Nevada City dist., T. 6 S., R. 3 W.
Operator: D. W. Thomas, St. Lawrence Consolidated
Mines, Inc., Box 114, Virginia City MT 59755
Owner: E. W. Smith
Virginia City MT 59755
Status: Developing

SCALDED CAT MINE Gold, silver, copper
Mineral Hill dist., sec. 14, T. 2 S., R. 3 W.
Operator: Emmett Clary
Box 628, Pony MT 59747
Owner: Same as operator
Employees: 2
Status: Developing

SHORT SHIFT MINE Gold
Rabbit dist., SE¼ sec. 6, T. 2 S., R. 7 W.
Operator: John A. Layton
3104 Busch, Butte MT 59701
Owner: Same as operator
Mill capacity: 20 t/d
Status: Developing

SILVER QUEEN MINE
Virginia City district
Operator: Silver Hill Mines, Inc.
E. 12707 Valley Way, Spokane WA 99216
Owner: Silver Hill Mines, Mic-Mac Mines, and
Silver Minerals, Inc.,
E. 12707 Valley Way, Spokane WA 99216
Employees: 4
Status: Unknown

SMUGGLER MINE Gold, silver
Mill Creek dist., sec. 13, T. 4 S., R. 4 W.
Operator: Goldstream Mining Co.
6715 Village Rd., Salt Lake City UT 84121
Owner: Same as operator
Status: Developing

SURPRISE CLAIMS GROUP Gold, silver, lead
California (Harris) Creek dist., sec. 5, 6, 7, 8, T. 5 S.,
R. 3 W.
Operator: Harry Bennetts
Sheridan MT 59749
Owner: Same as operator
Status: Developing

TRIANGLE MINE Gold, silver
Norris district
Operator: Triangle Mining Co.
1016 Nevada Ln., Billings MT 59101
Owner: Same as operator
Employees: 4
Status: Unknown

**UNCLE SAM MINE Gold, silver
Mill Creek dist., SE¼ sec. 8, T. 4 S., R. 3 W.
Operator: Mark Mortenson
Sheridan MT 59749
Owner: Same as operator
Status: Unknown

WHITE PINE MINE Gold, silver
Mineral Hill dist., sec. 9, T. 2 S., R. 3 W.
Operator: Fred Box
Pony MT 59747
Owner: Norma and Hester Carmin, and Oleta Box
Pony MT 59747
Employees: 1
Status: Inactive

*Open pit; **Open pit and underground

MEAGHER COUNTY: White Sulphur Springs

CUMBERLAND MINE Silver, lead, zinc
 Castle Mountains dist., sec. 14, T. 8 N., R. 8 E.
 Operator: HOCO, Inc.
 Box 469, White Sulphur Springs MT 59645
 Status: Unknown

**LUCKY DOLLAR MINE Silver, lead
 Castle (unorganized) dist., sec. 12, T. 8 N., R. 8 E.
 Operator: Robinson Mining Co., c/o Carl Berg
 Box 61, Martinsdale MT 59053
 Owner: Carl Berg and George Voldseth
 Box 61, Martinsdale MT 59053
 Employees: 2
 Status: Producing and developing

VOSS MINE Copper
 Castle dist., sec. 1, 2, 3, 11, T. 8 N., R. 8 E.
 Operator: Mt. Casile Mines, Inc.
 8 First National Bank Bldg., Butte MT 59701
 Owner: Carl W. Voss and Owen S. Winters
 Helena MT 59601
 Status: Developing

YELLOWSTONE MINE Lead, zinc
 Castle Mountains dist., sec. 18, T. 8 N., R. 8 E.
 Operator: George Voldseth
 Hamilton Mines, Inc., Martinsdale MT 59053
 Status: Producing and developing

MINERAL COUNTY: Superior

*BLACK TRAVELER and BULORING MINES
 Silver, copper
 St. Regis-Saltese dist., sec. 5, T. 19 N., R. 30 W.
 Operator: Charles F. Buls
 Saltese MT 59867
 Owner: Same as operator
 Employees: 3
 Status: Producing and developing

**BONANZA GROUP MINE Gold, silver, copper, lead
 Cedar Creek dist., sec. 17, T. 15 N., R. 26 W.
 Operator: G. M. Gildersleeve
 Box 565, Superior MT 59872
 Owner: Same as operator
 Status: Developing

BRYAN MINE Silver, lead
 Saltese dist., sec. 28, T. 20 N., R. 31 W.
 Operator: Jupiter Mining Co.
 Box 1010, Wallace ID 83873
 Owner: Same as operator
 Status: Producing

EAST COEUR D'ALENE SILVER MINE Silver,
 copper, lead, zinc
 Keystone dist., T. 17, 18 N., R. 26, 28 W.
 Operator: Elcor Chemical Corp.
 Superior MT 59872
 Owner: East Coeur d'Alene Silver Mines, Inc.
 Scott Bldg., Wallace ID 83873
 Status: Developing

LAST CHANCE MINE Silver, lead
 Saltese dist., sec. 34, T. 20 N., R. 31 W.
 Operator: Jupiter Mining Co.
 Box 1010, Wallace ID 83873
 Owner: Same as operator
 Status: Producing

MINERAL KING MINE Silver, lead, zinc
 Saltese-St. Regis dist., sec. 36, T. 20 N., R. 31 W.
 Operator: Sunshine Mining Co.
 Big Creek ID
 Owner: Mineral King Mining Co., c/o Max Swanson
 144 W. Front, Missoula MT 59801
 Status: Developing

NANCY LEE MINE Silver, lead, zinc
 Keystone dist., sec. 31, 32, T. 18 N., R. 26 W.
 Operator: Nancy Lee Mines, Inc.
 Box 67, Kellogg ID 83837
 Mill capacity: 100 t/d
 Status: Developing

PROSPERITY MINE Silver, copper, lead
 Keystone dist., T. 18 N., R. 26 W.
 Operator: Par-D Mining and Development Co.
 c/o R. L. Helterline, 1317 Dakota St.
 Missoula MT 59801
 Owner: Prosperity Mines, Inc.
 1716 S. 9th W., Missoula MT 59801
 Status: Developing

SPITFIRE MINE Gold, silver, copper
 Sevenmile Creek dist., sec. 35, T. 19 N., R. 27 W.
 Operator: Silver Trend Mining Corp.
 Box 157, St. Regis MT 59866
 Owner: Donald A. Graham
 Box 157, St. Regis MT 59866
 Status: Developing

 *Open pit; **Open pit and underground

MISSOULA COUNTY: Missoula

<p>HIDDEN TREASURE-CAPE NOME MINE Gold, silver, copper, lead Wallace Creek dist., sec. 19, 24, T. 12 N., R. 16, 17 W. Operator: Silver Ledge, Inc. Box 56, Clinton MT 59825 Owner: Hera, Inc. Box 40, Missoula MT 59801 Employees: 9 Mill capacity: 50 t/d Status: Developing</p> <p>SAN MARTINA MINE Gold, silver, copper, lead Ninemile dist., sec. 21, 22, 27, 28, T. 17 N., R. 24 W. Operator: K & N Minerals, c/o W. A. Nagy Huson MT 59846 Owner: Frank Realty Co. 204 Professional Bldg., Butte MT 59701 Status: Developing</p>	<p>*WALDBILLIG MINE Silver, copper Miller Creek dist., sec. 1, 2, T. 11 N., R. 19 W. Operator: Joe and O. R. Waldbillig Rte. 5, Missoula Mt 59801 Owner: Same as operator Status: Developing and exploring</p> <p>WARD LODGE MINE Gold, silver, copper, lead, zinc Sec. 22, T. 11 N., R. 22 W. Operator: Ward Development Corp. 321 N. Higgins Ave., Missoula MT 59801 Owner: Same as operator Employees: 3 Status: Developing</p>
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PARK COUNTY: Livingston

<p>*CROWN BUTTE and MELISSA MINE Gold, silver, copper, lead New World dist., unsurveyed, T. 9 S., R. 14 E. Operator: Beartooth Mining Co. Cooke City MT 59020 Owner: Same as operator Status: Unknown</p>	<p>*GLENGARRY (WHITE) CLAIMS Gold, silver, copper New World dist., sec. 12, T. 9 S., R. 14 E. Operator: Earl Nott Cooke City MT 59020 Owner: Harriet White, Spokane WA 99200 Employees: 1 Status: Produced and developing</p>
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PHILLIPS COUNTY: Malta

<p>GOLD BUG-LITTLE BEN MINE Gold, silver Little Rockies dist., sec. 15, T. 25 N., R. 24 E. Operator: Little Rocky Mining Co., Ltd. Landusky MT 59533 Owner: Little Rockies Mining & Development Co. Lewistown MT 59457 Employees: 4 Status: Unknown</p>	<p>RUBY GULCH MINE Gold, silver Little Rockies dist., sec. 18, T. 25 N., R. 25 E. Owner: Gold Reserve Mining Co. c/o Henry Kolstad Chester MT 59522 Employees: 3 Mill capacity: 500 t/d Status: Exploration</p>
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POWELL COUNTY: Deer Lodge

<p>BUMBLEBEE MINE Gold, copper Ophir dist., sec. 20, T. 11 N., R. 7 W. Operator: Clarke J. Smith Rte. 2, Valencia PA 16059 Owner: Same as operator Status: Inactive</p>	<p>CHARTER OAK MINE Gold, silver, lead, zinc Negro Hill dist., NW¼ SE¼ sec. 36, T. 9 N., R. 7 W. Operator: John F. Hopkins 401 N. Montana, Helena MT 59601 Owner: Same as operator Mill capacity: 50 t/d Status: Inactive</p>
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*Open pit

POWELL COUNTY--Continued

- FAIRVIEW MINE Gold, silver, copper
Ophir dist., sec. 25, T. 11 N., R. 8 W.
Operator: Wesley Dix and Schryver
1109 W. Woolman, Butte MT 59701
Owner: Same as operator
Employees: 3
Status: Developing
- **HARD LUCK MINE Silver, copper, lead, zinc
Elliston dist., sec. 14, 16, 17, 20, 21, T. 8 N., R. 6 W.
Operator: C. J., L. F., and R. L. Ward
Elliston MT 59728
Owner: Hard Luck Mines
Elliston MT 59728
Status: Developing
- *HIDDEN HAND MINE Gold, silver, lead, zinc
Zosell dist., NW¼ SW¼ sec. 2, T. 7 N., R. 8 W.
Operator: Bill Hall
Box 295, Helena MT 59601
Owner: Mrs. Fern Johnson
400 Milwaukee Ave., Deer Lodge MT 59722
Status: Developing and producing
- MONARCH MINE Gold, silver, copper
Ontario dist., sec. 30, 31, T. 8 N., R. 6 W.
Operator: Monarch Minerals, Inc., D. L. Jones, Mgr.
Box 33, Helena MT 59601
Owner: Same as operator
Employees: 3 part time
Status: Developing
- NANCY HELEN MINE Gold, copper
Ophir district
Operator: Clarke J. Smith
Rte. 2, Valencia PA 16059
Owner: Same as operator
Status: Inactive
- NEGROS MINE Gold, silver, lead, zinc
Negro Hill dist., SE¼ SW¼ sec. 36, T. 9 N., R. 7 W.
Operator: J. F. Hopkins
401 N. Montana, Helena MT 59601
Owner: Same as operator
Status: Producing
- **NELSON and DAN 1 & 2 MINES Silver, copper, iron
Elk Creek dist., (Powell and Granite Counties)
sec. 5, 6, 7, 8, T. 12 N., R. 13 W.
Operator: Nelson Mines, Inc., Harold G. Nelson, Sr.
Greenough MT 59836
Owner: Same as operator
Employees: 2
Status: Unknown
- **PRICE GROUP MINE Gold, silver, copper
Ophir dist., NE¼ NE¼ sec. 29, T. 11 N., R. 7 W.
Owner: W. C. Boellard Estate
Elliston MT 59728
Status: Unknown
- **SUNRISE MINE Gold, silver, lead
Negro Hill dist., sec. 12, T. 8 N., R. 7 W.
Operator: Enard A. Lindquist
Box 334, Elliston MT 59728
Owner: Same as operator
Status: Unknown
- WOLVERINE MINE Gold, silver, lead
Elliston dist., sec. 18, 19, 20, T. 8 N., R. 6 W.
Operator: Wolverine Corp.
c/o M. M. Butler, Pres.
2711 Miles Ave., Billings MT 59102
Owner: M. M. and Bernice Butler
2711 Miles Ave., Billings MT 59102
Status: Developing

RAVALLI COUNTY: Hamilton

- *CURLEW MINE Silver, lead
Pleasant View dist., sec. 13, T. 8 N., R. 21 W.
Operator: Dee Mines, c/o H. W. Ebbett
Box 142, Victor MT 59875
Owner: H. W. Ebbett, Roy Davidson, and
William Elsasser, Box 142, Victor MT 59875
Status: Produced
- LOGGER CLAIMS GROUP Silver, copper, beryl
East Fork dist., sec. 6, T. 1 N., R. 17 W.
Operator: Tom Nash, Darby MT 59829
Owner: Tom Nash and others, Darby MT 59829
Status: Unknown
- *WHIPPERWILL MINE Gold, silver, lead, zinc
Pleasant View dist., T. 8 N., R. 21 W.
Operator: Bill Elsasser and Harold Ebbett
Samuels ID 83862
Owner: Albert Smith
Victor MT 59875
Employees: 2
Status: Inactive
- *Open pit; **Open pit and underground

SANDERS COUNTY: Thompson Falls

BLUE CREEK (LUCKY STAR) MINE Silver, lead, zinc
 Blue Creek dist., sec. 3, 10, T. 27 N., R. 34 W.
 Operator: Lucky Star Mining Co.
 Spokane WA 99205
 Owner: G. D. Kile
 Grandview WA 98930
 Status: Developing

BROKEN HILL MINE Silver, lead, zinc
 Heron dist., sec. 10, T. 27 N., R. 34 W.
 Operator: E. R. Schenkel
 6268 Crystal Cove Dr., Long Beach CA 90803
 Owner: J. P. and William Swann and Ruth Goddard
 E. 910½ Hawthorne Rd., Spokane WA 99218
 Status: Inactive

EDDY CREEK MINE
 Eddy Creek dist., sec. 16, 21, T. 20 N., R. 28 W.
 Operator: Coeur d'Alene Silver Development Co.
 Spokane WA 99200
 Owner: The State Mining Co., W. W. Stearns
 Box 141, Plains MT 59859
 Status: Developing

GOPHER HOLE MINE Gold, silver, lead, zinc
 Blue Creek dist., sec. 10, T. 27 N., R. 34 W.
 Operator: J. C. Brooks
 Star Rte., Clark Fork ID 83811, and
 Arthur and Ralph Dettwiler
 Noxon MT 59853
 Owner: Same as operator
 Status: Developing

HEIDELBERG MINE Gold, silver
 Noxon dist., SE¼ sec. 29, NW¼ sec. 32, T. 27 N.,
 R. 31 W.
 Operator: Heidelberg Mining Company of Montana
 c/o G. A. Myers, 1001 Court St., Pasco WA 99301
 Owner: Same as operator
 Status: Developing

HOLLIDAY MINE Silver, lead
 Pilgrim Creek dist., sec. 25, 36, T. 26 N., R. 34 W.
 Operator: Silver Mark Mines, Inc.
 Box 197, Noxon MT 59853
 Owner: Same as operator
 Status: Unknown

RED FIR (AMAZON) MINE Gold, silver, copper
 Blue Creek dist., sec. 25, T. 27 N., R. 34 W.
 Operator: Cominco American Inc.
 W. 818 Riverside, Spokane WA 99201
 Owner: J. C. Brooks, C. R. Weare, and Dettwiler Bros.
 Star Rte., Clark Fork ID 83811
 Status: Developing

SALES MINE Silver, copper
 Thompson River dist., sec. 1, T. 25 N., R. 28 W.
 Operator: Thomas Watts and Nick Sharette
 8 Spruce St., Wallace ID 83873
 Owner: Ruth Sales and Louise Sales
 Kalispell MT 59901
 Status: Inactive

SILVER BOW COUNTY: Butte

BADGER MINE Gold, silver, lead, zinc
 Summit Valley (Butte) dist., NE¼ NW¼ sec. 7, T. 3 N.,
 R. 7 W.
 Owner-Operator: The Anaconda Co.
 Butte MT 59701
 Status: Inactive

*BERKELEY PIT Gold, silver, copper
 Summit Valley (Butte) dist., NE¼ NW¼ sec. 18,
 T. 3 N., R. 7 W.
 Owner-Operator: The Anaconda Co.
 Butte MT 59701
 Status: Producing

 *Open pit; **Open pit and underground

CARVER TAILINGS Gold, silver, copper, lead, zinc
 Butte dist., sec. 21, T. 3 N., R. 7 W.
 Operator: Frank Antonioli
 724 S. Western Ave., Butte MT 59701
 Status: Inactive

**CLIMAX (APEX) LODGE GROUP Gold, silver
 Divide Creek dist., sec. 5, 6, T. 1 N., R. 8 W.
 Operator: James S. Knowlson
 805 W. Granite, Butte MT 59701
 Owner: Intermountain Deaconess Home for Children
 Helena MT 59601
 Employees: 2
 Status: Unknown

SILVER BOW COUNTY—Continued

*COLORADO TAILINGS Gold, silver, copper
Summit Valley dist., sec. 23, T. 3 N., R. 7 W.
Operator: Frank Antonioli
724 S. Western Ave., Butte MT 59701
Employees: 1
Status: Producing

*COPPER HILL MINE Silver, copper
Camp Creek dist., sec. 3, T. 2 S., R. 8 W.
Operator: Frank Bissell
319 N. Excelsior, Butte MT 59701
Owner: Same as operator
Status: Exploration and developing

KELLEY MINE Gold, silver, copper
Summit Valley (Butte) dist., SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7,
T. 3 N., R. 7 W.
Owner-Operator: The Anaconda Co.
Butte MT 59701
Status: Inactive

LEONARD MINE Gold, silver, copper
Summit Valley (Butte) dist., cen. SW $\frac{1}{2}$ sec. 8,
T. 3 N., R. 7 W.
Owner-Operator: The Anaconda Co.
Butte MT 59701
Status: Inactive

*LITTLE BUTTE ORE MINE Copper
Camp Creek dist., sec. 2, T. 2 S., R. 8 W.
Operator: James L. White
1112 Missouri, Butte MT 59701
Owner: Same as operator
Status: Inactive

MOUNTAIN CON MINE Gold, silver, copper
Summit Valley (Butte) dist., NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 3 N.,
R. 8 W.
Owner-Operator: The Anaconda Co.
Butte MT 59701
Status: Producing

**OVERLOOK GROUP MINE Gold, silver, copper
Highland dist., sec. 15, 22, 23, 26, 27, T. 1 N., R. 7 W.
Operator: Universe Minerals Co.
Butte MT 59701
Owner: E. W. Sharak and others
3365 S. 22d St., Milwaukee, WI 53215
Mill capacity: 150 t/d
Status: Developing

STEWART MINE Gold, silver, copper
Summit Valley (Butte) dist., NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 3 N.,
R. 8 W.
Owner-Operator: The Anaconda Co.
Butte MT 59701
Status: Producing

WRONG FONT CLAIMS GROUP Gold, silver
Summit Valley (Butte) dist., sec. 19, 24, T. 3 N.,
R. 9 W.
Operator: Tom Helehan
Fox Hotel, Butte MT 59701
Owner: Same as operator
Status: Developing

SWEET GRASS COUNTY: Big Timber

**SKY BABY CLAIMS Gold, silver
Boulder River dist., sec. 25, T. 4 S., R. 12 E.
Operator: Ben Taylor
Box 516, Big Timber MT 59011
Owner: Ben L. and Martha L. Taylor
Box 516, Big Timber MT 59011
Status: Developing

TOOLE COUNTY: Shelby

*GOLD BUTTE MINE Gold
Gold Butte dist., T. 36 N., R. 3 E.
Operator: Ham Mining Co., c/o Cedor B. Aronow
Box 651, Shelby MT 59474
Owner: Same as operator
Status: Inactive

*Open pit; **Open pit and underground

IRON MINES

BROADWATER COUNTY: Townsend

*IRON CROSS MINE Iron ore
Cedar Plains dist., sec. 12, T. 5 N., R. 1 W.
Operator: R & S Iron Co., Inc.
Radersburg MT 59641
Owner: John M. Ralls and A. W. Sitton
Radersburg MT 59641
Employees: 3
Status: Producing

LUPINE MINE Iron ore
Cedar Plains dist., sec. 21, T. 6 N., R. 1 E.
Operator: R & S Iron Co., Inc.
Radersburg MT 59641
Owner: John M. Ralls and A. W. Sitton
Radersburg MT 59641
Status: Producing and developing

SILVER BOW COUNTY: Butte

IRON KING MINE Iron ore
Little Pine district
Operator: Tom Helehan
Fox Hotel, Butte MT 59701
Owner: Same as operator
Status: Developing

MANGANESE MINES

GRANITE COUNTY: Philipsburg

ALGONQUIN MINE Manganese
Philipsburg dist., sec. 31, T. 7 N., R. 13 W.
Owner: Trout Mining Co.
233 Broadway, New York NY 10007
Status: Inactive

CLIFF MILLSITE MINE Manganese
Philipsburg dist., sec. 31, T. 7 N., R. 13 W.
Operator: Taylor-Knapp Co.
Box 250, Philipsburg MT 59858
Status: Inactive

TRUE FISSURE MINE Manganese
Flint Creek dist., W½ NW¼ sec. 29, T. 7 N., R. 13 W.
Operator: Taylor-Knapp Co.
D. S. Johnson, Mgr.
Box 250, Philipsburg MT 59858
Owner: Same as operator
Mill capacity: 125 t/d
Status: Inactive

MOLYBDENUM MINES

RAVALLI COUNTY: Hamilton

*MOLLY 1, 2, 3, 4, and 5 Molybdenite
Skalkaho dist., unorganized, T. 5 N., R. 18 W.
Operator: Leif Aune
Box 303, Darby MT 59829
Owner: Same as operator
Employees: 1
Status: Developing

*Open pit

THORIUM MINES

BEAVERHEAD COUNTY: Dillon

LAST CHANCE MINE Thorium
 Lemhi Pass dist., sec. 20, 28, 29, T. 10 S., R. 15 W.
 Operator: Union Pacific Railroad Co.
 Spokane WA 99201
 Owner: Sawyer Petroleum Co.
 Suite 314, 650 S. Grand Ave., Los Angeles CA 90008
 Status: Inactive

TUNGSTEN MINES

BEAVERHEAD COUNTY: Dillon

*CALVERT MINE Scheelite
 Wise River dist., sec. 12, T. 1 N., R. 12 W.
 Operator: Minerals Engineering Co.
 817 - 17th St., Denver CO 80202
 Owner: Same as operator
 Mill capacity: 250 t/d
 Status: Inactive as of June 1969

**GREENSTONE MINE Scheelite
 Utopia dist., sec. 11, T. 5 S., R. 10 W.
 Operator: Carl Kennedy
 Box 862, Dillon MT 59725
 Owner: Rex Land Co., c/o Carl Kennedy
 Box 1771, Seattle WA 98111
 Status: Unknown

DEER LODGE COUNTY: Anaconda

OLD BONANZA MINE Scheelite
 Silver Lake dist., sec. 21, 22, T. 5 N., R. 13 W.
 Operator: Tri-City Concrete Products, Inc.
 Anaconda MT 59711
 Owner: Mrs. Mary McCabe and Joe McCabe
 Anaconda MT 59711
 Employees: 4
 Mill capacity: 100 t/d
 Status: Inactive

SILVER BOW COUNTY: Butte

**OVERLOOK GROUP MINE Scheelite
 Highland dist., sec. 15, 22, 23, 26, 27, 28, T. 1 N., R. 7 W.
 Operator: Universe Minerals Co., Butte MT 59701
 Owner: E. W. Sharak and others
 3365 S. 22d St., Milwaukee WI 53215
 Status: Developing

URANIUM MINES

CARBON COUNTY: Red Lodge

**SWAMP FROG MINE Uranium
 Pryor Mountains dist., sec. 17, 20, 21, T. 9 S., R. 27 E.
 Operator: James J. Stoick
 2515 Sunnyview Ln., Billings MT 59101
 Owner: Same as operator
 Status: Developing and exploration

 *Open pit; **Open pit and underground

GOLD PLACERS

GRANITE COUNTY: Philipsburg

CONFIDENT, RADER, CASTLE PLACER 1, and
 CASTLE PLACER 2 Gold, silver
 Granite dist., sec. 22, 34, T. 6 N., R. 13 W.
 Operator: William J. Dean & Son
 309 S. Arizona, Butte MT 59701
 Owner: Same as operator
 Status: Unknown

SUNSET PLACER Gold
 Maxville dist., sec. 20, 21, T. 8 N., R. 12 W.
 Operator: Ben Walkup
 Box 644, Philipsburg MT 59858
 Owner: Same as operator
 Status: Unknown

MASTER PLACER Gold
 Gold Creek dist., T. 8 N., R. 12 W.
 Operator: O. Perl Smith
 745 Sherman, Denver CO 80203
 Owner: Same as operator
 Status: Unknown

JEFFERSON COUNTY: Boulder

BLUEBIRD NO. 1 and 2 PLACER Gold
 Whitehall district
 Operator: Maurice R. Haigh
 Box 293, Three Forks MT 59752
 Owner: Same as operator
 Employees: 1
 Status: Producing and developing

SKOOKUM PLACER Gold
 Comet dist., sec. 12, T. 5 N., R. 6 W.
 Operator: Theodore Nyquest
 Box 133, Boulder MT 59632
 Owner: Same as operator
 Status: Inactive

MADISON COUNTY: Virginia City

BUBANY PLACER Gold
 Virginia City dist., sec. 16, 21, T. 6 S., R. 3 W.
 Operator: Death Valley Tungsten
 325 S. Third, Las Vegas NV 89101
 Owner: Tony Bubany
 Virginia City MT 59755
 Employees: 1
 Status: Developing

NEVADA CITY PLACER Gold
 Virginia City (Nevada) dist., sec. 16, 21, T. 6 S., R. 4 W.
 Operator: Joe Highsmith
 Box 223, Virginia City MT 59755
 Status: Unknown

MEAGHER COUNTY: White Sulphur Springs

CAMP ROBBER PLACER Gold
 Thompson Gulch dist., sec. 22, T. 9 N., R. 4 E.
 Operator: E. L. Burns
 Box 324, White Sulphur Springs MT 59645
 Owner: Same as operator
 Status: Producing

YERDON PLACER Gold
 Meagher district, unorganized
 Owner: Vern Knopf
 1621 Cannon St., Helena MT 59601
 Status: Unknown

MISSOULA COUNTY: Missoula

LaCHAMBRE PLACER Gold
 Ninemile dist., sec. 24, T. 17 N., R. 24 W.
 Operator: J. T. LaChambre
 Heron MT 59844
 Owner: Same as operator
 Status: Inactive

Gold placers—continued

MINERAL COUNTY: Superior

OREGON CREEK PLACER Gold
 Oregon Creek district
 Owner: Oremont, Inc.
 417 Paulsen Bldg., Spokane WA 99201
 Status: Unknown

STEMWINDER PLACER Gold
 Cedar Creek dist., sec. 17, T. 15 N., R. 26 W.
 Operator: George Gildersleeve
 Box 565, Superior Mt 59872
 Owner: Same as operator
 Status: Developing

PARK COUNTY: Livingston

HENKE-BEER PLACER Gold
 Boulder River dist., sec. 20, T. 7 S., R. 12 E.
 Operator: Donald N. Henke
 Box 206, Big Timber MT 59011
 Owner: Same as operator
 Employees: 2
 Status: Developing

W. M. CLAYTON PLACER Gold
 Emigrant dist., sec. 29, T. 6 S., R. 9 E.
 Operator: W. J. Clayton
 Box 54, Pray MT 59065
 Owner: Same as operator
 Status: Developing

POWELL COUNTY: Deer Lodge

JEFFERSON CREEK PLACER Gold
 Finn dist., sec. 11, T. 12 N., R. 9 W.
 Operator: Elmer J. Wagner
 Box 294, Avon MT 59713
 Owner: Same as operator
 Employees: 1
 Status: Developing

OLD SHOE NO. 1 PLACER Gold
 Finn district
 Operator: A. H. Roat and Sons
 Box 266, Alberton MT 59820
 Owner: Same as operator
 Status: Unknown

MASTER PLACER Gold
 Gold Creek dist., T. 9 N., R. 11 W.
 Operator: O. Perl Smith
 745 Sherman, Denver CO 80203
 Owner: Same as operator
 Status: Unknown

PART 2, NONMETAL MINES, PITS, AND QUARRIES

ASBESTOS MINES

GALLATIN COUNTY: Bozeman

- *KARST MINE Anthophyllite asbestos
 Karst Kamp dist., sec. 36, T. 5 S., R. 4 E.
 Operator: Galaxy Mining Co.
 Box 63, Billings MT 59101
 Owner: Interstate Products Co.
 Doyle S. Potts, Pres., East Shore, Polson MT 59860
 Status: Inactive

BARITE MINES

BEAVERHEAD COUNTY: Dillon

- *LUCKY JIM BEAM GROUP MINE Barite
 Jackson dist., sec. 25, 26, T. 4 S., R. 14 W.
 Operator: R. P. Jackson and R. M. Shepard
 Jackson MT 59736
 Owner: Same as operator
 Status: Developing

MISSOULA COUNTY: Missoula

- FROST BARITE DEPOSIT Barite
 Elk Creek dist., sec. 20, T. 13 N., R. 14 W.
 Operator: Bill Frost
 4405 - 23d Ave., Missoula MT 59801
 Status: Unknown

BENTONITE PITS

BLAINE COUNTY: Chinook

- *PETER KIEWIT SONS' PIT Bentonite
 Operator: Peter Kiewit Sons' Co.
 Box 724, Sheridan WY 82801
 Owner: State of Montana and others
 Status: Inactive

CARBON COUNTY: Red Lodge

- *CARBON SERIES PITS Bentonite
 Bridger-Warren area
 Operator: Wyo-Ben Productions, Inc.
 Box 1979, Billings MT 59101
 Owner: Wyo-Ben Products and Big Horn Minerals Co.
 Box 1979, Billings MT 59101
 Status: Inactive

CARTER COUNTY: Ekalaka

- *COLONY OPEN PITS Bentonite
 T. 9 S., R. 58, 59 E.
 Operator: National Lead Co., Baroid Div.
 Box 638, Belle Fourche SD 57717
 Owner: National Lead Co., Baroid Div.
 Box 1675, Houston TX 77001
 Employees: 45
 Mill capacity: 1,000 t/d
 Status: Producing

JUDITH BASIN COUNTY: Stanford

- *RALPH MODIC PIT Bentonite
 Sec. 14, 24, 25, 36, T. 17 N., R. 11 E.; sec. 6, T. 16 N.,
 R. 12 E.; sec. 7, 8, 9, 10, 13, 35, T. 17 N., R. 11 E.
 Operator: Ralph Modic
 Harlem MT 59526
 Status: Inactive

 *Open pit

Bentonite pits—continued

PHILLIPS COUNTY: Malta

*AMERICAN COLLOID Bentonite
Operator: American Colloid Co.
5100 Suffield Ct., Skokie IL 60076
Status: Exploration

*BRAZIL CREEK PIT Bentonite
Operator: Brazil Creek Bentonite Co.
Box 907, Glasgow MT 59230
Owner: Same as operator
Status: Developing

*LITTLE ROCK NO. 1 PIT Bentonite
Operator: Lloyd Knudsen
Malta MT 59538
Owner: Jerad Welch
Zortman MT 59546
Status: Inactive

ROSEBUD COUNTY: Forsyth

*HALLETT MINERALS PIT Bentonite
Sec. 33, 34, 35, T. 8 N., R. 37 E.
Operator: Hallett Minerals
Vananda MT 59230
Owner: Hallett Minerals
Box 7024, Duluth MN 55807
Employees: 19
Mill capacity: 100 t/hr
Status: producing

TREASURE COUNTY: Hysham

*HALLETT MINERALS PIT Bentonite
Sec. 2, 3, 4, 12, T. 7 N., R. 37 E.
Operator: Hallett Minerals
Vananda MT 59230
Owner: Hallett Minerals
Box 7024, Duluth MN 55807
Employees: 19
Mill capacity: 100 t/hr
Status: Producing

VALLEY COUNTY: Glasgow

*ASHLAND CHEMICAL PITS Bentonite
Operator: Ashland Chemical Co.
Box 2219, Columbus OH 43216
Owner: Same as operator
Status: Developing

*BRAZIL CREEK PIT Bentonite
Operator: Brazil Creek Bentonite Co.
Box 907, Glasgow MT 59230
Owner: Same as operator
Status: Developing

CLAY MINES AND PITS

CASCADE COUNTY: Great Falls

*TREASURELITE PIT Clay
Sec. 13, T. 21 N., R. 3 E.
Operator: Treasurelite, Div. Treasure State Industrial
Products, Inc., Box 2750, Great Falls MT 59401
Owner: Same as operator
Status: Unknown

DEER LODGE COUNTY: Anaconda

*PLACER FIRE CLAY PIT Fire clay
Sec. 34, T. 5 N., R. 11 W.
Operator: Harold Snow
Box 1155, Anaconda MT 59711
Owner: Same as operator
Status: Producing

FERGUS COUNTY: Lewistown

*LEWISTOWN PIT Clay
Sec. 15, T. 15 N., R. 18 E.
Operator: Lewistown Brick & Tile Co.
Box 573, Lewistown MT 59457
Status: Producing

JEFFERSON COUNTY: Boulder

*CALICO CLAY PIT Pottery clay
Sec. 36, T. 2 N., R. 3 W.
Operator: Wesley Van Gorden
Box 5, Cardwell MT 59721
Owner: Same as operator
Status: Produced

*Open pit

Clay mines and pits—continued

SILVER BOW COUNTY: Butte

- *GAVIN PLACER Refractory clay
Summit Valley dist., sec. 24, T. 3 N., R. 9 W.
Operator: Stauffer Chemical Co.
Box 3146, Butte MT 59701
Owner: Tom Helehan
Fox Hotel, Butte MT 59701
Status: Inactive

FLUORSPAR MINES

RAVALLI COUNTY: Hamilton

- *CRYSTAL MOUNTAIN MINE Fluorspar
Sec. 18, T. 3 N., R. 19 W.
Operator: Roberts Mining Co.
Box 365, Darby MT 59829
Employees: 25
Mill capacity: 50 t/hr
Status: Produced (summer only)

GYPSUM MINES

BEAVERHEAD COUNTY: Dillon

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| <p>*McCARTHY (DEADWOOD) DEPOSIT Gypsum
Sec. 6, 7, T. 14 S., R. 9 W.
Operator: Tim McCarthy
Lima MT 59739
Owner: Tim McCarthy, Jack Brown, and
Bennett Owens, Lima MT 59739
Status: Developing</p> | <p>*PETERSON DEPOSIT Gypsum
N½ sec. 1, T. 15 S., R. 9 W.
Operator: Mrs. Lanora Peterson
Box 185, Willow Creek MT 59760
Owner: Same as operator
Status: Developing</p> |
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CARBON COUNTY: Red Lodge

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| <p>DAISY MINE Gypsum
Sec. 20, T. 7 S., R. 24 E.
Operator: Bridger Gypsum Co.
Box 63, Billings MT 59101
Owner: Bridger Mercantile Co.
Minneapolis MN 55400
Status: Inactive</p> | <p>*JAY KAY MINE Gypsum
NE¼ SE¼ sec. 19, T. 7 S., R. 24 E.
Operator: Jay Kay, Inc.
607 Garden Ave., Billings MT 59101
Owner: Same as operator
Status: Developing</p> |
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FERGUS COUNTY: Lewistown

- SHOEMAKER (HEATH) MINE Gypsum
Sec. 1, 2, T. 14 N., R. 19 E.
Operator: U. S. Gypsum Co.
Heath MT 59449
Owner: U. S. Gypsum Co.
101 S. Wacker Dr., Chicago IL 60606
Employees: 4
Mill capacity: 400 t/d
Status: Producing

MADISON COUNTY: Virginia City

- *PIKA GYPSUM DEPOSIT Gypsum
Cottonwood dist., unorganized, sec. 25, T. 10 S., R. 3 W.
Operator: Roy Kitson
Alder MT 59710
Owner: Same as operator
Status: Developing

*Open pit

LIMESTONE MINES AND QUARRIES

CARBON COUNTY: Red Lodge

*WARREN QUARRY Chemical limestone
 Sec. 16, T. 5 S., R. 25, 26 E.
 Operator: Big Horn Calcium Co.
 Box 118, Frannie WY 82423
 Owner: The Big Horn Limestone Co.
 Box 5308, Denver CO 80200
 Employees: 28
 Mill capacity: 10 t/hr
 Status: Producing

DEER LODGE COUNTY: Anaconda

*BROWNS QUARRY Metallurgical limestone
 Sec. 23, T. 5 N., R. 12 W.
 Operator: The Anaconda Co.
 Butte MT 59701
 Owner: Same as operator
 Status: Producing

GALLATIN COUNTY: Bozeman

*TRIDENT QUARRY Portland cement limestone
 Sec. 9, 10, T. 2 N., R. 2 E.
 Operator: Ideal Cement Co
 420 Ideal Cement Bldg., Denver CO 80202
 Owner: Same as operator
 Status: Producing

JEFFERSON COUNTY: Boulder

*McCLELLAN QUARRY Limestone
 McClellan dist., sec. 7, T. 9 N., R. 3 W.
 Operator: Maronick Construction Co., Inc.
 East Helena MT 59635
 Owner: E. P. Maronick, Pres.
 East Helena MT 59635
 Status: Producing

*MONTANA CITY QUARRY Portland cement limestone
 Sec. 12, 13, T. 9 N., R. 2 W.
 Operator: Kaiser Cement Co.
 Montana City MT 59602
 Owner: Kaiser Cement and Gypsum Corp.
 Kaiser Center, Oakland CA 94600
 Employees: 75
 Mill capacity: 5,000 b/d
 Status: Producing

POWELL COUNTY: Deer Lodge

*WARM SPRINGS CREEK QUARRY Limestone
 Sec. 5, T. 10 N., R. 9 W.
 Operator: Janney Trucking Co., Inc.
 Garrison MT 59731
 Owner: Same as operator
 Status: Producing and developing

PHOSPHATE MINES

BEAVERHEAD COUNTY: Dillon

CANYON CREEK and EAST LaMARCHE MINES
 Phosphate rock
 Melrose dist., sec. 30, 31, 32, T. 1 S., R. 9 W.;
 sec. 5, 6, 7, T. 2 S., R. 9 W.
 Operator: Stauffer Chemical Co.
 Box 3146, Butte MT 59701
 Status: Inactive

GRANITE COUNTY: Philipsburg

**DOUGLAS CREEK MINE AND MILL Phosphate rock
 Maxville dist., sec. 31, T. 9 N., R. 12 W.
 Operator: Cominco American, Inc.
 Garrison MT 59731
 Owner: Same as operator
 Status: Inactive

*Open pit ; **Open pit and underground

Phosphate mines--continued

POWELL COUNTY: Deer Lodge

BROCK (ANDERSON, WARM SPRINGS CREEK)

Phosphate rock
 Garrison dist., sec. 21, 22, T. 10 N., R. 10 W.
 Operator: Cominco American, Inc.
 Garrison MT 59731
 Owner: Same as operator
 Employees: 150
 Status: Producing and developing

JACKSON MINE Phosphate rock

Elliston dist., sec. 1, 2, T. 9 N., R. 7 W.
 Operator: Vernon Gillman
 Garrison MT 59731
 Owner: A. G. Jackson
 Elliston MT 59728
 Status: Produced

EMERY RIDGE (PIKES PEAK) LEASE Phosphate rock

Pikes Peak Creek dist., sec. 5, 8, 9, T. 8 N., R. 11 W.;
 sec. 32, T. 9 N., R. 11 W.
 Operator: R. M. Parson Co. and J. V. Robinson
 617 W. 7th St., Los Angeles CA 90017
 Owner: Same as operator
 Status: Developing

RELYEA MINE Phosphate rock

Garrison dist., S½ sec. 12, T. 10 N., R. 10 W.
 Operator: George Relyea
 Box 85, Garrison MT 59731
 Owner: Same as operator
 Employees: 10
 Status: Producing

SILVER BOW COUNTY: Butte

MAIDEN ROCK MINE Phosphate rock

Melrose dist., sec. 32, T. 1 S., R. 9 W.
 Operator: Stauffer Chemical Co.
 Box 3146, Butte MT 59701
 Status: Inactive

SAPPHIRE MINES

GRANITE COUNTY: Philipsburg

*AMERICAN SAPPHIRE GEM MINE Sapphire

West Fork Rock Creek, T. 6 N., R. 16 W.
 Operator: Wil Chaussee
 Box 26, Philipsburg MT 59858
 Owner: Chaussee Sapphire, Inc.
 Bothell WA 98011
 Status: Developing and limited production

LEWIS AND CLARK COUNTY: Helena

*EL DORADO BAR SAPPHIRE DIGGINGS Sapphire

Sec. 2, 10, 11, T. 11 N., R. 12 W.
 Operator: Craig Winterburn
 York Rte., Helena MT 59601
 Owner: Lazy B-H Ranch, Inc.
 York Rte., Helena MT 59601
 Status: Producing

SEMIPRECIOUS STONES

HILL COUNTY: Havre

ROCKY BOY QUARTZ DEPOSIT Smoky quartz

Bearpaw Mountains dist., sec. 5, 25, T. 28 N., R. 16 E.
 Operator: Chippewa-Cree Tribal Council
 Rocky Boy Indian Reservation, Box Elder MT
 59521
 Owner: Same as operator
 Status: Inactive

MINERAL COUNTY: Superior

*FOUR V's CLAIMS Smoky quartz

Fish Creek dist., sec. 22, T. 11 N., R. 24 W.
 Operator: Albert E. Volker
 2835 Woodland St., Missoula MT 59801
 Owner: Same as operator
 Status: Producing

 *Open pit

SHALE PITS

CASCADE COUNTY: Great Falls

- *TREASURELITE PIT Expanded shale
 Sec. 13, T. 21 N., R. 3 E.
 Operator: Treasurelite, Div. Treasure State Industrial
 Products, Inc., Box 2750, Great Falls MT 59401
 Owner: Same as operator
 Status: Unknown

GALLATIN COUNTY: Bozeman

- *KANTA PIT Expanded shale
 Sec. 13, T. 2 N., R. 2 E.
 Operator: Kanta Products, Inc.
 Box 96, Three Forks MT 59752
 Owner: Same as operator
 Status: Unknown

YELLOWSTONE COUNTY: Billings

- *MONTANA SHALE PIT Expanded shale
 Operator: Montana Liteweight Aggregate Co.
 Box 20317, Billings MT 59102
 Owner: Same as operator
 Status: Producing

SILICA MINES AND QUARRIES

BEAVERHEAD COUNTY: Dillon

- *CANYON CREEK QUARRY Metallurgical silica
 Melrose dist., sec. 32, T. 1 S., R. 9 W.
 Operator: Industrial Chemical, Div. Stauffer
 Chemical Co., Box 3146, Butte MT 59701
 Status: Produced

DEER LODGE COUNTY: Anaconda

- *LUKE QUARRY Metallurgical silica
 Blue Eyed Nellie dist., NW¼ sec. 24, T. 5 N., R. 12 W.
 Operator: Montana Ores, Inc.
 110 West 3d St., Anaconda MT 59711
 Owner: The Anaconda Co.
 Butte MT 59701
 Status: Producing

JEFFERSON COUNTY: Boulder

- *BASIN QUARTZ QUARRY Industrial silica
 Basin dist., sec. 16, T. 6 N., R. 5 W.
 Operator: Pacific Silica Co.
 Basin MT 59631
 Owner: Union Carbide Co.
 Portland OR 97200
 Status: Producing
- *KYLER SILICA DEPOSIT Portland cement silica
 Colorado-Corbin dist., sec. 13, T. 7 N., R. 4 W.
 Owner: Ed Kyler
 Boulder MT 59632
 Status: Inactive

SOIL CONDITIONERS

BEAVERHEAD COUNTY: Dillon

- *PEAT LEASE Peat
 Sec. 16, 20, T. 4 S., R. 16 W.
 Operator: Intermountain Peat Moss Corp.
 John M. Peart, Pres.
 Box 2285, Salt Lake City UT 84110
 Owner: Columbia Beneficial Holdings, Ltd.
 203 - 14th St., Vancouver, B. C., Canada
 Status: Unknown

GOLDEN VALLEY COUNTY: Ryegate

- *R.K.R. PIT Shell rock
 Sec. 23, T. 7 N., R. 22 E.
 Operator: R.K.R. Soil Amendment, Inc.
 Cushman MT 59023
 Owner: Same as operator
 Status: Inactive

LAKE COUNTY: Polson

- *HOWARD W. MARTIN PEAT Peat
 Sec. 16, 17, T. 24 N., R. 17 W.
 Operator: Martin's Peat & Potting Soils
 Swan Lake MT 59911
 Owner: Howard W. Martin, Swan Lake MT 59911
 Employees: 1
 Status: Producing

STONE QUARRIES

CARBON COUNTY: Red Lodge

*DEADMAN QUARRY Ornamental stone
 Sec. 1, 12, 13, T. 8 S., R. 28 E.; sec. 26, 35, T. 7 S.,
 R. 28 E.
 Operator: Montana Marble, Inc.
 1813 Broadwater, Billings MT 59101
 Employees: 5
 Mill capacity: 30 t/d
 Status: Developing and produced

FERGUS COUNTY: Lewistown

*SURPRISE STONE QUARRY Ornamental stone
 Sec. 32, 33, T. 14 N., R. 22 E.
 Operator: Charles B. Allen
 Box 117, Grassrange MT 59032
 Owner: Same as operator
 Status: Produced and developing

GALLATIN COUNTY: Bozeman

*PICTURE FLAGSTONE QUARRY Picture flagstone
 Sec. 29, T. 2 N., R. 4 E.
 Operator: Orrie B. McElwee
 Box 474, Manhattan MT 59741
 Owner: Same as operator
 Status: Producing

MISSOULA COUNTY: Missoula

*McQUARRIE QUARRY Railroad ballast, road metal
 Clinton (Wallace) dist., sec. 17, T. 12 N., R. 17 W.
 Operator: Lyon Construction Co.
 Clinton MT 59825
 Owner: Northern Pacific Railway Co.
 St. Paul MN 55101
 Employees: 15
 Mill capacity: 200 t/hr
 Status: Producing

RAVALLI COUNTY: Hamilton

*BITTERROOT VALLEY STONE QUARRY
 Ornamental stone
 Sec. 7, T. 32 N., R. 21 W.
 Operator: Henry Andrews
 Rte. 1, Box 274, Hamilton MT 59840
 Owner: Same as operator
 Status: Produced and developing

 *Open pit

CASCADE COUNTY: Great Falls

*FORZLEY SALES CO. QUARRIES Building stone
 4 Mi. S. Monarch
 Operator: Forzley Sales Co.
 Box 2070, Great Falls MT 59401
 Owner: Joe Forzley
 Box 2070, Great Falls MT 59401
 Status: Unknown

FLATHEAD COUNTY: Kalispell

*FLATHEAD SUNSET QUARRY Building stone,
 pozzolan, volcanic ash
 Sec. 24, T. 25 N., R. 24 W.; sec. 34, T. 25 N., R. 24 W.
 Operator: Henry Lozeau
 535 Ford, Missoula MT 59801
 Owner: Same as operator
 Status: Produced

MADISON COUNTY: Virginia City

*WHITE ANGEL QUARRY Onyx marble
 Tidal Wave dist., sec. 27, T. 3 S., R. 5 W.
 Operator: Norman Rogers
 Box 1719, Helena MT 59601
 Owner: American Chemet Corp.
 East Helena MT 59635
 Status: Producing

PARK COUNTY: Livingston

*LIVINGSTON MARBLE and GRANITE QUARRY
 Ashlar, cut stone, rubble
 Sec. 14, 24, T. 9 S., R. 8 E.
 Operator: Livingston Marble and Granite Works
 Livingston MT 59047
 Owner: D. A. and H. W. Strong
 711 E. Park, Livingston MT 59047
 Status: Intermittent operation

SANDERS COUNTY: Thompson Falls

*FISHTRAP QUARRIES Ornamental stone
 Sec. 23, 26, T. 24 N., R. 28 W.
 Operator: U. C. Campbell
 Box 427, Thompson Falls MT 59873
 Owner: Same as operator
 Status: Producing

TALC MINES

BEAVERHEAD COUNTY: Dillon

- *CROWN-SMITH-DILLON MINE Talc
 Axes Creek dist., sec. 23, T. 8 S., R. 8 W.
 Operator: Chas. Pfizer & Co.
 Box 1147, Dillon MT 59725
 Owner: Clyde Smith
 Dillon MT 59725
 Status: Inactive

MADISON COUNTY: Virginia City

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| <p>*BEAVERHEAD MINE Talc
 Stone Creek dist., sec. 11, 14, T. 7 S., R. 6 W.
 Operator: United Sierra Division,
 Cyprus Mines Corp., Box 1201, Trenton NJ 08618
 Owner: Same as operator
 Status: Producing</p> <p>*RUBY NO. 1 and NO. 2 MINE Talc
 Warm Springs dist., sec. 11, T. 8 S., R. 4 W.
 Operator: Sam Maloney and William Pettus
 Box 174, Alder MT 59710
 Owner: Same as operator
 Status: Developing</p> <p>*TALC RIDGE (RUBY) GROUP Talc
 Willow Creek dist., sec. 30, T. 8 S., R. 3 W.
 Operator: Madison Minerals Co., c/o C. W. Hafer
 1967 Yale, Butte MT 59701
 Owner: Carl Garrison and others
 Sheridan MT 59749
 Employees: 2 to 3
 Status: Developing</p> <p>*YELLOWSTONE (CAMERON) MINE Talc
 Johnny Gulch dist., sec. 4, T. 9 S., R. 1 W.
 Operator: United Sierra Division, Cyprus Mines Corp.
 Box 1201, Trenton NJ 08618
 Owner: Same as operator
 Status: Producing</p> | <p>*REGAL MINE Talc
 Sweetwater dist., N½ sec. 2, T. 8 S., R. 7 W.
 Operator: Chas. Pfizer & Co.
 Box 1147, Dillon MT 59725
 Owner: Same as operator
 Employees: 2
 Status: Producing</p> <p>*SNOW CAP MINE Talc
 Operator: W. M. Cocanougher
 Twin Bridges MT 59754
 Owner: Same as operator
 Mill capacity: 30,000 t/d
 Status: Developing</p> <p>*TREASURE STATE MINE Talc
 Stone Creek dist., NE¼ NE¼ sec. 15, T. 7 S., R. 6 W.
 Operator: Chas. Pfizer & Co.
 Box 1147, Dillon MT 59725
 Owner: Same as operator
 Employees: 2
 Status: Producing and developing</p> |
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VERMICULITE MINES

LINCOLN COUNTY: Libby

- *VERMICULITE MOUNTAIN MINE Vermiculite
 Rainy Creek dist., sec. 14, 15, 22, 23, T. 31 N., R. 30 W.
 Operator: Zonolite Division, W. R. Grace & Co.
 62 Whittemore Ave., Cambridge MA 02140
 Owner: Same as operator
 Employees: 160
 Mill capacity: 3,000 t/d
 Status: Producing

MADISON COUNTY: Virginia City

- GILLIAM VERMICULITE DEPOSIT Vermiculite
 Sec. 25, T. 1 S., R. 3 W.
 Operator: W. G. Forbes and Emmett Clary
 Pony MT 59747
 Owner: Celesta Gilliam
 Cardwell MT 59721
 Status: Developing

 *Open pit

PART 3, COAL MINES

BIG HORN COUNTY: Hardin

*ROSEBUD TONGUE RIVER MINE Coal
 Operator: Rosebud Coal Sales Co.
 Box 724, Sheridan WY 82801
 Owner: Same as operator
 Status: Producing

BLAINE COUNTY: Chinook

MILK RIVER MINE Coal
 Operator: Lauren Sargent
 Box 472, Chinook MT 59523
 Owner: Same as operator
 Employees: 4
 Status: Producing

CARBON COUNTY: Red Lodge

BROPHY MINE Coal
 Operator: James Brophy
 Red Lodge MT 59068
 Status: Inactive

ROADSIDE MINE Coal
 Operator: Frank Janskovitch
 Bearcreek MT 59007
 Status: Unknown

CUSTER COUNTY: Miles City

STORM KING MINE Coal
 Operator: Ralph E. Bair
 Box 113, Miles City 59301
 Status: Unknown

DAWSON COUNTY: Glendive

PEUSE MINE Coal
 Sec. 13, T. 16 N., R. 53 E.
 Operator: Gordon Peuse
 Lindsay MT 59339
 Owner: Same as operator
 Status: Developing

McCONE COUNTY: Circle

NO.1 MINE Coal
 Operator: R. D. Stephenson
 Circle MT 59215
 Status: Unknown

MUSSELSHELL COUNTY: Roundup

BLUE FLAME MINE Coal
 Sec. 23, T. 6 N., R. 26 E.
 Operator: Victor and Jack Carlson
 Box 342, Roundup MT 59072
 Owner: Divide Coal Mining Co.
 Box 342, Roundup MT 59072
 Employees: 7
 Status: Producing

DIVIDE MINE Coal
 Operator: Divide Coal Mining Co.
 Roundup MT 59072
 Owner: Victor and Jack Carlson
 Box 342, Roundup MT 59072
 Employees: 6
 Status: Produced

COW CREEK MINE Coal
 Sec. 9, T. 6 N., R. 28 E.
 Operator: George Badovinus and Larry Trudeau
 Klein Star Rte., Roundup MT 59072
 Owner: Same as operator
 Status: Developing

JOHNNY'S MINE Coal
 Sec. 15, T. 7 N., R. 26 E.
 Operator: Johnny Keosky
 1011 - 1st St., Roundup MT 59072
 Owner: Same as operator
 Employees: 3
 Status: Produced

 *Open pit

Musselshell County—continued

NIES MINE Coal

Sec. 21, T. 8 N., R. 25 E.

Operator: Nies Coal Co.

Roundup MT 59072

Owner: William F. Nies, Roundup MT 59072

Employees: 7

Status: Producing

SQUARE DEAL MINE Coal

Sec. 16, T. 8 N., R. 25 E.

Operator: Virgil Cross and Buster Ray

220 - 1st St. W., Roundup MT 59072

Owner: Same as operator

Employees: 12

Status: Producing and developing

P and M MINE Coal

Sec. 13, T. 6 N., R. 27 E.

Operator: Paul Meged

Golden Creek Rte., Roundup MT 59072

Owner: Same as operator

Status: Producing

WESTERN MINE Coal

Operator: Glenn Johnson

Roundup MT 59072

Status: Unknown

POWDER RIVER COUNTY: Broadus

COAL CREEK MINE Coal

Operator: John Schoonover

Box 94, Ashland MT 59003

Status: Unknown

RICHLAND COUNTY: Sidney

BEMER MINE Coal

Operator: Neville Bemer

Culbertson MT 59218

Status: Unknown

KNIFE RIVER MINE Coal

Operator: Knife River Coal Co.

Savage MT 59262

Employees: 17

Status: Producing

ROSEBUD COUNTY: Forsyth

BIG SKY MINE Coal

Operator: Peabody Coal Co.

Colstrip MT 59323

Owner: Same as operator

Employees: 13

Status: Producing

*ROSEBUD NO. 6 MINE Coal

Operator: Western Energy Co.

Colstrip MT 59323

Owner: Montana Power Co.

Butte MT 59701

Employees: 9

Status: Producing

LAME DEER MINE Coal

Operator: Lester Scott

Lame Deer MT 59043

Status: Unknown

SHERIDAN COUNTY: Plentywood

ACME MINE Coal

Operator: M. F. Brenteson

Coalridge MT 59216

Status: Inactive

*LAGERQUIST MINE Coal

Sec. 4, T. 35 N., R. 58 E.



Operator: E. C. Lagerquist

Rte. 1, Westby MT 59275

Owner: Same as operator

Status: Developing

*Open pit

	<h2 style="margin: 0;">MINERAL INDUSTRY SURVEYS</h2> <p style="margin: 0;">U. S. DEPARTMENT OF THE INTERIOR BUREAU OF MINES</p>	
<p>Walter J. Hickel, Secretary</p>		<p>John F. O'Leary, Director</p>

Albany Office of Mineral Resources
Mark L. Wright, Chief
Albany, Oregon

THE MINERAL INDUSTRY OF MONTANA IN 1969

Preliminary Annual Report

The value of Montana mineral production in 1969 rose to \$285.7 million, an increase of 25 percent over the previous year, according to preliminary estimates prepared by the Bureau of Mines, U.S. Department of the Interior. Mineral production value recovered from the effects of the 8-month (1967-68) strike and surpassed the 1966 value of production of \$245.3 million.

Petroleum value, the State's dominant mineral commodity in terms of value, fell 4 percent to \$119.1 million. In spite of this decline, the value of fuels (petroleum, coal, and natural gas) increased, but constituted only 43 percent of total production value, as compared with 56 percent in 1968.

Gold production value almost doubled compared with 1968, and silver increased 29 percent in value in spite of a 17-percent drop in the estimated average annual price. Copper rose 84 percent in value of production and 16 percent when compared with the pre-strike level in 1966.

The value of construction materials rose, with sand and gravel and stone up 69 percent in value of production. The value of clay production rose due to an increase in price while output fell.

Prepared by Fred V. Carrillo and William N. Hale, Geologists, and Mary Anne McComb, Economist, Bureau of Mines, Albany, Oreg., Dec. 17, 1968, under the direction of A.J. Kauffman, Jr., Physical Science Administrator.

TABLE 1.- Mineral production in Montana 1/

Mineral	1968		P/ 1969	
	Quantity	Value (thousands)	Quantity	Value (thousands)
Clays 2/.....thousand short tons	30	\$34	27	\$28
Coal (bituminous and lignite).....do.....	519	1,214	850	2/ 2,100
Copper (recoverable content of ores, etc.).....short tons	69,480	58,151	112,766	107,008
Gem stones.....do.....	NA	109	NA	109
Gold (recoverable content of ores, etc.).....troy ounces	13,385	4/ 525	23,388	987
Iron ore (usable).....thousand long tons, gross weight	12	92	14	W
Lead (recoverable content of ores, etc.).....short tons	1,870	494	1,490	442
Lime.....thousand short tons	179	2,005	184	1,969
Manganese ore and concentrate.....short tons, gross weight	4,649	213	1,996	48
(35 percent or more Mn)				
Manganiferous ore and concentrate (5 to 35 percent Mn).....do.....	2,063	22	-	-
Natural gas.....million cubic feet	19,313	1,757	23,840	2,408
Petroleum (crude).....thousand 42-gallon barrels	48,460	124,488	44,260	119,059
Pumice.....thousand short tons	93	327	W	W
Sand and gravel and stone.....do.....	12,076	12,632	20,000	21,300
Silver (recoverable content of ores, etc.).....thousand troy ounces	2,133	4,574	3,303	5,911
Zinc (recoverable content of ores, etc.).....short tons	3,778	1,020	4,897	1,430
Value of items that cannot be disclosed: Cement, fluorspar, gypsum, natural gas liquids, peat, phosphate rock, talc, tungsten, vermiculite, and values indicated by symbol W.....	XX	20,474	XX	22,854
Total.....	XX	228,131	XX	285,653

P/ Preliminary. NA Not available. W Withheld to avoid disclosing individual company confidential data.

XX Not applicable.

1/ Production as measured by mine shipments, sales, or marketable production (including consumption by producers).

2/ Excludes bentonite; included with "Value of items that cannot be disclosed."

3/ Based primarily on railroad car loadings.

4/ Based on average U.S. Treasury price (\$35.00 per ounce) Jan. 1, 1968 through Mar. 15, 1968 and the average New York selling price for the remainder of the year.

The State legislature passed a law to control dredge mining. The new law, which went into effect on July 1, 1969, was drafted to guarantee land restoration after dredge mining but not to prohibit such mining. The act applies to public and private land in and near stream beds and will be administered by the State Board of Health. To insure compliance, miners must post bonds of \$1,000 per acre. It is believed that although there is little dredge mining in the State at present, this law will inhibit future dredge mining.

The Anaconda Company closed its electrolytic zinc refinery at Anaconda and reactivated two units at its Great Falls refinery. About 300 workers were employed at the Anaconda plant, and most were given the option to transfer. Also, the company reopened its Anaconda copper concentrator to handle increased ore production from the nearby Butte Hill mines. This year, the city of Anaconda enjoyed the highest employment since the late 1950's.

Employment in all nonagricultural industries rose 2 percent to 198,800 (based on a 10-month average). In August, the total civilian work force peaked at 300,200 with an unemployment rate of almost 4 percent. The largest percentage gain (36 percent) was in metal mining, which averaged 3,000; however, this was still below pre-strike levels.

TABLE 2.- Estimated average monthly employment
(thousands)

	First 10 months, 1967	First 10 months, 1968	First 10 months, p/ 1969	Change 1968-69, percent
Mining.....	6.2	5.2	5.8	+11.5
Metal mining.....	3.6	2.2	3.0	+36.4
Quarrying and nonmetallic mining, including coal.....	1.0	1.0	0.9	-10.0
Petroleum and natural gas production.....	1.6	2.0	2.0	-
Manufacturing.....	22.6	23.1	23.8	+3.0
Lumber and timber products....	8.6	9.0	8.5	-5.6
Primary metals.....	3.5	3.6	4.6	+27.8
Petroleum refining.....	1.0	1.1	1.0	-9.1
Contract construction.....	11.6	11.8	11.6	-1.7
Transportation and utilities....	17.8	17.7	17.7	-
All nonagricultural industries..	189.9	195.0	198.8	+1.9

p/ Preliminary.

Source: Montana Labor Market, State Employment Service.

REVIEW BY MINERAL COMMODITIES

METALS

Aluminum. - Output of aluminum from the Anaconda Aluminum Co. plant at Columbia Falls surpassed 1968's record production by 49 percent as the first year of capacity operation was achieved following the installation of two potlines in 1968. Shipments of alumina from Jamaica began arriving at the reduction plant in September through newly constructed unloading facilities, designed to handle 350,000 tons of alumina per year, at Everett, Wash.

Copper. - Annual production of 112,766 tons of copper was 62 percent higher than that produced in 1968 as The Anaconda Company maintained a full production schedule during the year following the 1968 strike. Higher prices and the increased production resulted in an 84-percent increase in value to \$107 million. Anaconda company mines accounted for 112,616 tons or 99.8 percent of the total copper mined in the State. Byproduct copper was produced from silver ores at the American Smelting and Refining Company (Asarco) smelter at East Helena.

The Anaconda Company initiated a program to increase production at its Butte copper operation as the emphasis at Anaconda's Butte mines continued to shift from underground to open pit. Berkeley Pit ore output was increased by 7,500 tons daily in August, and a section of the concentrator at Anaconda was reactivated to handle the increase. Additional increases were made at the Berkeley Pit in October, raising production to 56,000 tons daily. Production at the underground vein mines remained at about 8,000 tons of ore per week. Construction began on a new ore crushing-conveying system estimated to cost about \$6 million and described as the largest gyratory crushing plant in the American mining industry.

The announcement of two Montana properties available for immediate development was made by The Anaconda Company. The Heddleston district, north of Helena, was reported to contain a large low-grade copper-molybdenum deposit with significant silver values. Another property, in the Stillwater area near Nye, was claimed to contain large tonnages of copper-nickel ore which could be mined by open-pit methods.

Exploratory drilling and underhand stoping along a strike length of 650 feet was conducted at the New Departure mine near Dillon. Plans were announced by Spokane National Mines, Inc., to add flotation cells and a closed circuit crushing and grinding section to the company mill at Bannock to boost capacity to 250 tons per day.

Silver Ledge, Inc., stockpiled copper-silver ore from the 1,000-foot level of the Cape Nome mine near Clinton, in Missoula County's Wallace district.

Silver Hill Mining Co. reported small shipments of high-grade ore from a new mine east of Alder.

Gulf Resources & Chemical Corp. and Sun Oil Co. reported a copper discovery in Judith Basin County. A core-drilling program on Cordero Mining Co. property (a wholly owned subsidiary of Sun Oil) indicated ore-grade copper mineralization, with byproduct values in gold and silver.

TABLE 3.- Mine production of gold, silver, copper, lead, and zinc,
in terms of recoverable metals ^{1/}

Year	Mines producing		Material sold or treated ^{2/} (thousand short tons)	Gold (lode and placer)		Silver (lode and placer)	
	Lode	Placer		Troy ounces	Value (thousands)	Troy ounces (thousands)	Value (thousands)
1965.....	121	11	15,634	22,772	\$797	5,207	\$6,733
1966.....	117	5	17,645	25,009	875	5,320	6,878
1967.....	62	3	9,093	9,786	343	2,066	3,203
1968.....	143	3	10,215	13,385	525	2,133	4,574
1969 ^{3/}	145	3	16,319	23,388	987	3,303	5,911

Year	Copper		Lead		Zinc		Total value (thousands)
	Short tons	Value (thousands)	Short tons	Value (thousands)	Short tons	Value (thousands)	
1965.....	115,489	\$81,766	6,981	\$2,178	33,786	\$9,866	\$101,340
1966.....	128,061	92,639	4,409	1,333	29,120	8,445	110,171
1967.....	65,483	50,063	898	251	3,341	925	54,785
1968.....	69,480	58,151	1,870	494	3,778	1,020	64,763
1969 ^{3/}	112,766	107,008	1,490	442	4,897	1,430	115,778

^{1/} Includes recoverable metal content of gravel washed (placer operation), ore milled, old tailings re-treated, and ore, old slag, and mill cleanings shipped to smelters during the calendar year indicated. Data may not add to totals shown because of independent rounding.

^{2/} Does not include gravel washed.

^{3/} Preliminary figures. Values calculated at 1969 average New York selling price: gold, \$42.19 a troy ounce; silver, \$1.7898 a troy ounce; copper, \$0.47447 a pound; lead, \$0.1484 a pound; and zinc, \$0.146 a pound.

Bear Creek Mining Co. completed a 3,000-foot exploration adit at its Spar Lake copper prospect, 20 miles south of Troy. The tunnel was driven into the south side of Mount Vernon to confirm mineral showings found by earlier diamond drilling from the surface.

Gold.- An increase in the average market price of gold to \$42.19 per ounce stimulated interest in gold production and exploration throughout the State. Most of the gold recovered in the State was byproduct gold from copper operations. Increased output from copper operations resulted in a 75-percent increase in production to 23,388 ounces of gold, which had an estimated value of \$987,000.

Pacific Mines, Inc., shipped gold and silver ore from the Eureka and Pacific mines in the Alder-Virginia City region of Madison County. Gold mineralization in blue shale was reported at the Miller mine in Confederate Gulch, Broadwater County.

Iron Ore.- The total iron ore production in the State was from the Iron Cross open-pit mine of R & S Iron Co. near Radersburg. Production increased 17 percent from 1968 to 14,000 tons of ore. The ore was used by the cement industry.

Lead.- Output of lead declined 2 percent from 1968 because of smaller ore shipments from the Mauldin, Jo Dandy, and Sam Gaty mines to the Asarco smelter at East Helena. Despite a 1.6-cent-per-pound increase in the average annual price of lead, the value also decreased \$52,000 to \$442,000. Increased lead production at the Anaconda zinc fuming plant at East Helena was not sufficient to offset the decline in mine output.

Manganese.- No manganese ore was mined in the State during the year, and shipments from The Anaconda Company stockpile accounted for all the manganese production attributed to the State. Shipments of manganese, valued at \$48,000, totaled 1,996 tons which was 51 percent less than that of the previous year.

Silver.- Byproduct silver from copper operations in the State continued to be the chief source. Silver production registered a 55-percent increase reflecting increasing copper production for 1969. Because of a drop in the average annual price of silver to \$1.79 an ounce, the total value for the year was down 28 percent to approximately \$3.3 million.

Interest in locating and developing silver deposits in mining regions throughout the State remained high. Rehabilitation work continued at the Nancy Lee mine near Superior where the main adit (640 level) was advanced to the west, the deepest operating level (940) was extended and rehabilitated, and surface geochemical and drilling programs were initiated. A drilling program was conducted at the Crystal mine near Basin by Utica Mines, Ltd., of Vancouver, British Columbia, Canada.

Spokane National Mines, Inc., reported additional reserves were developed at the New Departure and Cottontail mines near Dillon. Big West Resources, Inc., shipped ore from a new discovery in the Argenta district of Beaverhead County. Midnight Mines, Inc., explored the Polaris mine in Beaverhead County with crosscutting and diamond drilling.

TABLE 4. - Mine production of gold, silver, copper, lead, and zinc in 1969, by months, in terms of recoverable metals

Month	Gold (troy ounces)	Silver (troy ounces)	Copper (short tons)	Lead (short tons)	Zinc (short tons)
January.....	1,268	198,981	8,243	127	577
February....	1,536	228,346	8,820	152	445
March.....	2,098	226,312	9,876	96	422
April.....	1,806	237,172	8,727	134	326
May.....	1,280	269,669	9,882	119	384
June.....	2,133	264,405	9,018	100	603
July.....	2,269	271,903	7,606	129	539
August.....	3,165	319,590	8,119	72	143
September...	1,712	354,681	9,189	172	622
October.....	1,421	281,659	9,264	109	196
November....	2,350	325,000	12,011	140	320
December....	2,350	325,000	12,011	140	320
Total....	23,388	3,302,718	112,766	1,490	4,897

TABLE 5. - Mine production of gold, silver, copper, lead, and zinc in Silver Bow County, in terms of recoverable metals

Year	Mines producing		Material sold or treated <u>1/</u> (thousand short tons)	Gold, lode and placer (troy ounces)	Silver, lode and placer (thousand troy ounces)
	Lode	Placer			
1965.....	8	2	15,462	18,420	4,790
1966.....	5	-	17,503	21,608	4,864
1967.....	5	-	9,041	8,339	1,856
1968.....	6	-	10,089	9,782	1,466
1969 p/...	4	-	16,167	15,962	2,652

Year	Copper (short tons)	Lead (short tons)	Zinc (short tons)	Total value (thousands)
1965.....	115,279	4,594	25,629	\$97,373
1966.....	127,885	2,411	22,284	106,749
1967.....	65,448	64	816	53,450
1968.....	69,362	-	-	61,580
1969 p/...	112,626	-	-	112,296

p/ Preliminary.

1/ Does not include gravel washed.

Thorium.- A research paper was published by the Idaho Nuclear Energy Commission describing thorium deposits of the Lemhi Pass area 1/.

Tungsten.- A 62-percent decline was recorded; no tungsten production was reported in the State during the second half of the year. Tungsten production at the Calvert Creek properties in Beaverhead County was halted in June by foreclosure proceedings initiated against Minerals Engineering Co. by General Electric Co. The mine was closed, and the mill was placed on a standby basis.

Asarco acquired a lease and began surface investigation on a small group of claims near Thompson Falls, which were reported to have tungsten and molybdenum.

Zinc.- Output continued to be derived from both byproduct production from copper mining operations and various small lead-zinc-silver operations. Increased recovery from Anaconda's zinc fuming plant at East Helena accounted for most of the 30-percent rise in the State total to 4,897 tons.

The Anaconda Company closed the electrolytic zinc refinery at Anaconda in August because of insufficient foreign concentrates to continue production at both the Anaconda and the Great Falls refineries. The shutdown involved four refining units at the plant which produced over 48,000 tons of zinc in 1968. At the same time, two additional zinc units were reactivated at the Great Falls refinery. The Anaconda plant's roaster was kept in operation.

NONMETALS

Cement.- The estimated quantity of portland cement shipments increased 60 percent over the 1968 figure. The increase was largely due to cement used in the concrete pour, averaging 6,000 cubic yards per day toward yearend, at Libby Dam. Production continued from operations at Montana City by Kaiser Cement & Gypsum Corp., and at Trident by Ideal Basic Industries, Inc. (formerly Ideal Cement Co.). The complex system of cement, fly ash, and mineral aggregate supply for concrete production at Libby Dam was the subject of a report 2/.

Clays.- Output of common clays and shales for use in making building products and in manufacturing cement declined an estimated 9 percent. Bentonite production declined 21 percent from the 1968 total.

National Lead Co. continued mining bentonite near Colony, Carter County, for use as oil-well-drilling mud. Hallett Minerals Co. mined bentonite near Vananda, Rosebud County, and shipped the material to Burnett, Minn., for milling into a product suitable for use as a binder in pelletizing taconite iron ore concentrate.

1/ Geach, Robert. Thorium Reserves in Montana. Transactions of Thorium Information Meeting, Idaho Nuclear Energy Commission, 1969.

2/ Pacific Builder & Engineer. Access at Libby Dam -- Tall Trestle in Dam Axis. Published by Construction Publications/West, Inc., Sept. 19, 1969, pp. 28-30.

Ashland Chemical Co., Division of Ashland Oil & Refining Co., began construction 18 miles south of Glasgow, Valley County, on a bentonitic-clay processing facility. Construction continued on a railroad spur to serve the plant, designed to make granular and pulverized material from clay dug at the Brazil Creek Bentonite Co. deposit.

Bentonite deposits in Montana were described 3/.

Treasure State Industrial Products, Inc., improved instrumentation of the kiln and cooler and increased the capacity of expanded shale at the Great Falls, Cascade County, Treasurelite lightweight-aggregate plant from 3 to 8 cubic yards (about 5.4 tons) per hour. The firm planned to revamp crushing and screening facilities at the plant over the next 2 years. Operation of plant facilities was described 4/ 5/.

Fluorspar.- Roberts Mining Co., producing fluorspar from the Crystal Mountain mine in Ravalli County, trucked the ore 26 miles to the company heavy-media separation mill at Darby for processing. Metallurgical-grade fluorspar from the milling operation was shipped to industrial consumers.

Gem Stones.- Sapphire properties in Judith Basin and Lewis and Clark Counties were the subjects of articles 6/ 7/.

Gypsum.- The tonnage and value of gypsum mined were greater than the 1968 figures. The Shoemaker mine, Fergus County, owned by United States Gypsum Co., continued to be the source of gypsum.

Lime.- Lime output increased an estimated 3 percent over the 1968 total. The Anaconda Company continued making quicklime in Deer Lodge County for metallurgical use and for water treatment purposes at its own operations. Sugar companies calcined limestone to quicklime for use in sugar refining in Big Horn, Richland, and Yellowstone Counties.

Phosphate Rock.- Output and value of marketable phosphate rock declined an estimated 36 percent below the 1968 total, largely from effects of phasing out, late in 1967 and in 1968, operations in Beaverhead, Granite, and Silver Bow Counties. Production, all from operations in Powell County, went to consumers in the Rocky Mountain area and to Trail, British Columbia, Canada, for manufacturing phosphate fertilizers. Late in the year, Cominco American, Inc., announced that continued weakening of the fertilizer market made curtailment necessary at the Anderson and Warm Spring sections of the Brock mine, and the firm centered all remaining phosphate mining operations in Montana at the Brock mine proper at Garrison.

Stauffer Chemical Co. operated its elemental phosphorus plant at Silver Bow on rock mined at Soda Springs, Idaho.

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- 3/ Berg, R.B. Bentonite in Montana. Montana Bureau of Mines and Geology. Bull. No. 74, 1969.
- 4/ Levine, Sidney. Montana Lightweight Producer Expands to Satisfy Growing Market. Rock Products, v. 72, No. 3, March 1969, pp. 64-66.
- 5/ Trauffer, Walter E. Montana Lightweight Aggregate Plant Expanded. Pit and Quarry, v. 61, No. 11. May 1969, pp. 169-171, 178.
- 6/ Yaras, Herman. Precious Yogo Sapphires Will Again Gleam Among the World's Precious Jewels. Lapidary Journal, April 1969, pp. 178-180.
- 7/ Young, Marjorie Williams. Sapphires on Eldorado Bar. Gems and Minerals, August 1969, pp. 29-31.
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Sand and Gravel and Stone.- Combined output of sand and gravel and stone was estimated at 20 million tons valued at \$21.3 million, an increase of 66 percent over the 1968 production. Much of the increase was due to continued greater use of sand and gravel and stone in constructing Libby Dam, on the Kootenai River in northwestern Montana. Also, there was increased use of sand and gravel and stone at highway construction projects.

Sulfur.- Production of high-purity elemental sulfur increased over the 1968 total. Montana Sulphur & Chemical Co. recovered sulfur from hydrogen sulfide gas byproducts obtained from oil-refining operations at Billings of Continental Oil Co. and Humble Oil & Refining Co. Farmers Union Central Exchange began operating a 28-ton-per-day elemental sulfur recovery system that was contingent upon byproduct hydrogen sulfide gas received from its oil-refining operation at Laurel.

Talc.- There was an estimated 50-percent increase in the quantity of talc output. Talc produced by Charles Pfizer & Co., Inc., from mines in Beaverhead and Madison Counties was ground and sized at the company grinding plant at Barratts, south of Dillon, Beaverhead County. Output by the United Sierra Division of Cyprus Mines Corp. from mines in Madison County was processed at a company grinding plant at Three Forks, Gallatin County; some was shipped out-of-State for grinding.

Vermiculite.- There was an estimated 5-percent increase in the tonnage of crude vermiculite mined by Zonolite Division, W.R. Grace & Co., at its open-pit operation near Libby, in Lincoln County. The mine continued as the principal source of vermiculite in the United States.

MINERAL FUELS

Coal.- Production of bituminous coal and lignite increased an estimated 64 percent above the 1968 output of over one-half million tons. The increase continued to be due to expansion of coal-mining facilities at Colstrip, Rosebud County, for meeting requirements of coal-fired steam-electric plants of Montana Power Co. at Billings, and of Minnesota Power & Light Co. at Cohasset, Minn. Lignite mines in Richland County were the source of fuel for the Montana Dakota Utilities Co. steam-electric generating plant at Sidney. The estimated selling price of the lignite from Richland County was \$1.94 per ton; coal taxes -- license, net proceeds, and property levies -- total 16 cents per ton or about 8.25 percent of the total price.

The unit train technique of coal transportation has sharply reduced the fuel costs of the coal-fired steam-electric plant and has improved the competitive position of Montana coal reserves. Reportedly since June, four unit trains of 100 cars each delivered about 50,000 tons of coal per month from the Peabody Coal Co. operation at Colstrip over 850 miles to the Cohasset, Minn., steam-electric generating station of Minnesota Power & Light Co. Shipments were started under terms of a freight rate established by the Interstate Commerce Commission (ICC) at \$3.65 per ton for the haul from Colstrip to Cohasset, Minn. By 1973, when Minnesota Power & Light Co. completes construction of the coal-fired steam-electric generating plant at Cohasset, and shipments of coal from Colstrip approach 2 million tons per year, the freight rate will be reduced to \$2.74 per ton. Throughout the year, coal was delivered over 100 miles by unit train from the Western Energy Co. (a subsidiary of Consolidation Coal Co.) operation at Colstrip to the Montana Power Co. coal-fired steam-electric generating plant at Billings.

The Montana legislature enacted a measure supplementing a 1967 law under which surface coal mine operators were encouraged to enter into voluntary mined-land reclamation agreements with the State. Although the new law makes previous voluntary agreements compulsory, it provided a credit incentive among operators whereby one-half the cost of reclamation applied against the State's coal mine license tax.

The socio-political aspects related to establishment of a workable system for mined-land reclamation was the subject of a report 8/.

The feasibility of developing Montana coal reserves by strip mining was discussed 9/.

A report was published on the Foster Creek coal deposit in southeastern Montana 10/.

Petroleum and Natural Gas. - Estimated production of crude oil, after reaching an alltime high in 1968, dropped from 48.5 million barrels to 44.3 million barrels valued at \$119 million. The Bell Creek field in the Powder River Basin continued to be the largest source of petroleum in the State; by October, over 10 million barrels of crude oil was produced from the field. Cumulative production since its discovery in 1967 was estimated at 28.6 million barrels of oil and 12 billion cubic feet of natural gas. Crude oil reserves of the field are estimated at 200 million barrels by the Montana Oil and Gas Conservation Commission.

Following the Bell Creek field discovery in Montana, exploration for petroleum and natural gas in the lower Cretaceous Muddy formation has spread to correlative rock units in Wyoming and North and South Dakota, but major production from reservoirs in the formation is centered in Powder River County, Mont., and Campbell County, Wyo. An estimated 12 to 15 million acres of petroleum leases on private and public land in the four-State area were held for exploring rock units correlating with the lower Cretaceous Muddy formation.

Marketed production of natural gas increased to 23.8 billion cubic feet from output of 19.3 billion cubic feet in 1968. Development of natural gas reserves in the Tiger Ridge gas field, discovered by High Crest Oils, Inc., in 1967, has awaited an outlet to major markets. Early in the year, Northern Natural Gas Co. contracted with High Crest Oils, Inc., and other field developers for natural gas reserves in the Tiger Ridge field. The firm announced plans to build a pipeline from Tiger Ridge field to Saskatchewan, Canada, to connect with a major line from Alberta, Canada, to North Branch, Minn.

Petroleum exploration and development on Northern Pacific Railway lands (over 3 million acres in Montana and North Dakota) were described 11/.

This report summarizes mineral industry activity in Montana in 1969 and contains preliminary production data for the year as estimated from company monthly and quarterly production canvasses, smelter receipt reports, and information contained in industry publications.

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- 8/ Groff, Sidney L. Voluntary Mined-Land Reclamation in Montana. Mining Congress Journal, v. 55, No. 10, October 1969, pp. 46-50.
- 9/ Phelps, E.R. Recent Developments in Lignite and Subbituminous Coal in Montana. Skillings Mining Review, March 15, 1969, pp. 11, 12, 20.
- 10/ Gilmour, Ernest H., and Loren A. Williams. Geology and Coal Resources of the Foster Creek Coal Deposit, Eastern Montana. Montana Bureau of Mines and Geology, Bull. 73, June 1969, 9 pp.
- 11/ Go With Northern Pacific Railway. Oil - Black Gold. Published by Northern Pacific Railway Co., v. 1, No. 4, August 1969, pp. 2-6.
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SUPPLEMENTAL LIST OF MINING ENTERPRISES

This list includes mining enterprises that have been inactive up to three years or that that have not returned our questionnaires. The abbreviations used to describe their former status are: A, active; D, developing; I, inactive; P, producing; and U, unknown.

BEAVERHEAD COUNTY

Coolidge I 1967
Grey Jockey I 1967

BROADWATER COUNTY

Bonanza U 1967
Gold Bug and Mary Rose I 1967
Kleinschmidt U 1967

DEER LODGE COUNTY

Lucky Sunday U 1967
Silver Reef U 1967
Snow White silica quarry U 1967

FERGUS COUNTY

Hanover gypsum mine I 1967
Swanson coal mine I 1967
Tuss coal mine I 1967
War Eagle U 1967

FLATHEAD COUNTY

Ole U 1967

GRANITE COUNTY

Men Five U 1967
Potosi U 1967
Scratch All U 1967
Spring Gulch quarry U 1967

JEFFERSON COUNTY

Bertha tailings I 1967
Lahey silica quarry I 1967
Mammoth I 1967

JUDITH BASIN COUNTY

Kibbey gypsum deposits I 1967
Yogo sapphire mine I 1967

LEWIS AND CLARK COUNTY

Emma Miller U 1967
Nick and Dick U 1967
Sambo U 1967

LINCOLN COUNTY

Black Diamond U 1967
Memory (Bi-Metallic) I 1967

MADISON COUNTY

Antelope U 1967
Bedford U 1967
Castle Blue dump I 1967
Cornucopia and Cabin lodes I 1967
Golconda I 1967
Jack Rabbit U 1967
McMurtrey placer U 1967
Midnight U 1967
St. Lawrence I 1967
Skyline I 1968
Surprise U 1967

MINERAL COUNTY

Amazon-Dixie I 1967

MISSOULA COUNTY

Blue Lode U 1967
Silver Streak U 1967
Twin Creeks placer U 1967

MUSSELSHELL COUNTY

Gildroy coal mine I 1967

POWELL COUNTY

Champion tailings I 1967
Jack Pine (Trout Creek) I 1967
Kirbey U 1967
Silver Reef U 1967

SANDERS COUNTY

Jack Waite U 1967

SILVER BOW COUNTY

Jane placer claim U 1967

LIST OF NEW MINING COMPANIES INCORPORATED IN MONTANA IN 1969

CONDA BUTTE EXPLORATION, INC.

Butte (June 24, 1969)
Keith P. Johnson
8 First National Bank Bldg., Butte MT 59701

COTTONWOOD SILVER MINING CO.

Great Falls (March 31, 1969)
Albert H. Neumann
Store 11, Holiday Village, Great Falls MT 59401

CRYSTAL MINES, INC.

Butte (February 10, 1969)
Howard A. Johnson
9 W. Broadway, Butte MT 59701

GOLD AND SILVER CORPORATION OF AMERICA

Virginia City (December 30, 1969)
Chester Lloyd Jones, Esq.,
Virginia City MT 59755

LAST CHANCE MINING INC.

Helena (April 10, 1969)
A. L. Libra
27 Edwards Street, Box 1691, Helena MT 59601

LITTLE OWEN MINING COMPANY, INC.

Bozeman (June 19, 1969)
H. A. Bolinger
136 E. Main, Box 1047, Bozeman MT 59715

MADISON-MINERALS, INC.

Butte (April 4, 1969)
Carl Hafer, Sr.
1967 Yale Avenue, Butte MT 59701

MONTANA NUCLEAR CORPORATION

Billings (December 8, 1969)
James L. Sandall
2501 - 4th Avenue North, Billings MT 59101

CROSS MINING CORPORATION

Superior (October 24, 1969)
George E. Casler
510 Diamond Rd., Superior MT 59872

IVANHOE MINING CORPORATION

Missoula (September 3, 1969)
Kenneth C. Bradford
5832 Kerr Drive, Missoula MT 59801

HI-TARIFF SILVER, INC.

Helena (October 22, 1969)
A. L. Libra
27 Edwards Street, Helena MT 59601

MONTIDA SILVER INC.

Hamilton (December 16, 1969)
Gerald D. Schultz
172 S. Third Street, Hamilton MT 59840

MOUNTAIN GOLD AND SILVER, INC.

Sheridan (June 26, 1969)
James G. McLaughlin
Rte. 1, Sheridan MT 59479

MT. CASTLE MINES, INC.

Butte (February 4, 1969)
Keith P. Johnson
8 First National Bank Bldg., Butte MT 59701

PHILIPSBURG SILVER & TUNGSTEN MINES, INC.

Philipsburg (November 3, 1969)
Richard G. Tunstill
Box "N", Philipsburg MT 59858

RAMCO, INC.

Helena (June 23, 1969)
Truman J. Ames
1034 North Davis Street, Helena MT 59601

SILVER CREEK MINING CO., INC.

Libby (April 23, 1969)
Oscar Hahn
Rte. 2, Box 80, Libby MT 59923

THE 5 PARTNERS MINING COMPANY

Billings (December 16, 1969)
A. L. Rankin
716 N. 29th Street, Billings MT 59101

THE SETTER MINING COMPANY

Helena (July 11, 1969)
James A. Casper
4 Aspen Street, Helena MT 59601

JUMBO SILVER MINING CO., INC.

Kalispell (September 15, 1969)
Roy Norden
14 Meridian Rd., Kalispell MT 59901

KEESA SILVER MINING CO., INC.

Superior (August 11, 1969)
Arthur L. Case
506 Second Avenue West, Superior MT 59872

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Mountain Flower mine -----	18	Old Bonanza mine -----	26
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Ward lode mine -----	21	Zonolite, Div. W. R. Grace & Co. -----	36

LIST OF
MINING DISTRICTS

Beaverhead County, D-4

1. Ajax
2. Argenta (Montana)
3. Bald Mountain
4. Bannack
5. Beaverhead (Dark Horse) (Mulchy Creek)
6. Big Muddy
7. Blacktail
8. Bloody Dick (Beaverhead)
9. Blue Wing
10. Bryant (Hecla) (Glendale)
11. Chinatown (Armstead)
12. Dillon (Carter Creek) (Frying Pan Basin)
13. Elkhorn (Coolidge) (Wise River)
14. Horse Prairie
15. Jake Creek
16. Lost Creek (Brown's Lake) (Rock Creek)
17. Medicine Lodge
18. Monida
19. Mount Torrey
20. Niccolia
21. Nogo (Apex)
22. Pioneer
23. Polaris (Lost Cloud)
24. Ruby
25. Saginaw (Jackson)
26. Utopia (Birch Creek)
27. Vipond
28. Wisdom (Big Hole)

Blaine County, A-8

29. Bearpaw

Broadwater County, C-5

30. Confederate Gulch (Backer) (Canton) (Diamond City)
31. Deep Creek
32. Hellgate
33. Lone Mountain
34. Magpie Gulch
35. Park (Hassel) (Indian Creek) (Townsend)
36. Radersburg (Cedar Plains)
37. Winston (Beaver Creek)

Carbon County, D-7

38. Clark Fork
39. Hellroaring
40. Silver Run

Cascade County, B-5

41. Nelhart (Montana)

Deer Lodge County, D-3

42. Blue Eyed Nellie (Silver Lake)
43. French Gulch
44. Georgetown (Southern Cross) (Cable)
45. Girard
46. Heber (Mill Creek)
47. Lost Creek (Dry Gulch) (Antelope Creek)
48. Oro Fino (Dry Cottonwood)

Fergus County, B-7

49. Cone Butte
50. North Moccasin (Kendall)
51. Warm Springs (Gilt Edge) (Maiden)

Flathead County, A-2

52. Hog Heaven (Flathead) (Kila)
53. Star Meadow (Lupfer)
54. Whitefish

Gallatin County, D-5

55. Eldridge
56. West Gallatin (Spring Hill)

Granite County, C-3

57. Alps (Bonita)
58. Antelope Creek
59. Combination (Henderson) (Black Pine)
60. Dunkleburg
61. Frog Pond Basin
62. Garnet (Top-o-Deep) (First Chance)
63. Maxville (Wyman) (Gird Creek)
64. Moose Lake
65. Philipsburg (Flint Creek) (Granite)
66. Red Lion (Cable Mountain)
67. Rock Creek
68. Rose Mountain (Gold Creek)
69. South Boulder (Princeton)
70. Welcome Creek

Jefferson County, C-4

71. Alhambra (Hot Springs) (Golconda)
72. Amazon Basin (Cataract) (Comet)
74. Beaver Gulch
75. Boulder
76. Big Foot (State Creek)
77. Clancy (Lump Gulch) (Buffalo Creek)
78. Colorado (Corbin) (Gregory) (Wickes)
79. Elkhorn
80. Elk Park
81. Homestake
82. Little Pipestone
83. Lowland
84. McClellan (Mitchell Creek)
85. Montana City
86. Nez Perce
87. Pipestone
88. Whitehall (Cardwell)
89. Whitetail

Judith Basin County, B-6

90. Barker (Hughesville)
91. Running Wolf
92. Yogo

Lake County, B-2

93. Elmo (Chief Cliff)

Lewis and Clark County, B-4

94. Austin (Greenhorn)
95. Blue Cloud
96. Gould-Stemple (Fool Hen) (Foorman)
97. Heddleston (Blackfoot) (Silver)
98. Helena (Last Chance) (Springhill) (Unionville) (Owyhee)
99. Lincoln (McClellan Gulch) (Seven-up Pete Gulch) (Keep Cool Creek) (Liverpool Creek) (Stonewall Mountain)
100. Marysville (Bald Butte) (Ottawa)
101. Missouri River
102. Ophir

103. Rimini (Vaughn) (Bear Gulch)
104. Scratchgravel Hills (Grass Valley)
105. Wolf Creek (Gladstone)
106. York

Lincoln County, A-1

107. Cabinet (Fish River)
108. Libby (Snowshoe)
109. Rainy Creek
110. Sylvanite
111. Tobacco River
112. Troy (Grouse Mountain) (Calahan)
113. Wolf Creek

Madison County, D-5

114. Bismark (Wilmah)
115. Cherry Creek
116. McCarthy Mountain
117. Norris (Lower Hot Springs) (Upper Hot Springs)
118. Norwegian Creek
119. Pony (Mineral Hill)
120. Potosi
121. Renova (Bone Basin) (Mayflower)
122. Rochester (Rabbit)
123. Ruby Mountains
124. Sand Creek
125. Sheridan (Mill Creek) (Brandon) (Indian Creek) (Pamshorn)
126. Silver Star (Iron Rod)
127. South Boulder (Mammoth)
128. Tidal Wave (Twin Bridges)
129. Virginia City (Summit) (Pine Grove) (Highland) (Fairweather) (Nevada) (Junction) (Alder Gulch) (Brown's Gulch) (Grants Creek) (William's Gulch) (Barton Gulch)
130. Washington (Meadow Creek) (McAllister)

Meagher County, C-6

131. Beaver (Elk Creek) (Thompson Creek)
132. Castle Mountains
133. Murray (Battle Creek)
134. Musselshell (Copperopolis)

Mineral County, B-2

135. Cedar Creek (Quartz Creek) (Trout Creek)

Missoula County, C-3

136. Denemora (Big Elk) (Saltese)
137. Iron Mountain (Superior)
138. Keystone
139. Packer Creek
140. Rock Island
141. St. Regis (Deer Creek) (Ward)
142. Clinton (Wallace)
143. Coloma (Potomac)
144. Copper Cliff
145. Elk Creek
146. Nine Mile Creek (Kennedy Creek)
147. Petty Creek
148. Woodman (Lolo)

Park County, D-6

149. Cowles (Haystack)
150. Crevasse

151. Emigrant (Chico)
152. Horseshoe
153. Jardine (Bear Gulch) (Sheepwater)
154. New World (Cooke City) (Blackmore)

Phillips County, A-9

155. Little Rockies (Zortman) (Lardusky)

Powell County, C-4

156. Big Blackfoot (Helmville)
157. Elliston (Ontario) (Nigger Hill)
158. Emery (Zosell)
159. Finn (Washington) (Jefferson, and (Buffalo Gulches)
160. Garrison
161. Ophir (Snowshoe) (Deadwood)
162. Oro Fino
163. Pioneer (Gold Creek)
164. Racetrack (Danielsville)

Ravalli County, C-2

165. Curlew
166. Hughes Creek (Alta) (Overwich)
167. Mineral Point
168. Pleasant View
169. Slate Creek
170. Three Mile

Sanders County, B-1

171. Blue Creek (Heron)
172. Camas Prairie (Perma)
173. Plains
174. Prospect Creek
175. Revals Creek (Dixon)
176. Sleepy Creek (Belknap)
177. Silver Butte (Vermillion) (Cabinet)
178. Spring Gulch
179. Thompson River
180. Trout Creek
181. White Fine (Eagle)

Silver Bow County, D-4

182. Basin Creek
183. Butte (Summit Valley) (Lost Child)
184. Divide Creek
185. Fleecer Mountain
186. German Gulch (Siberia)
187. Highland
188. Independence
189. Melrose (Camp Creek) (Soap Gulch)
190. Moose Creek

Stillwater County, D-7

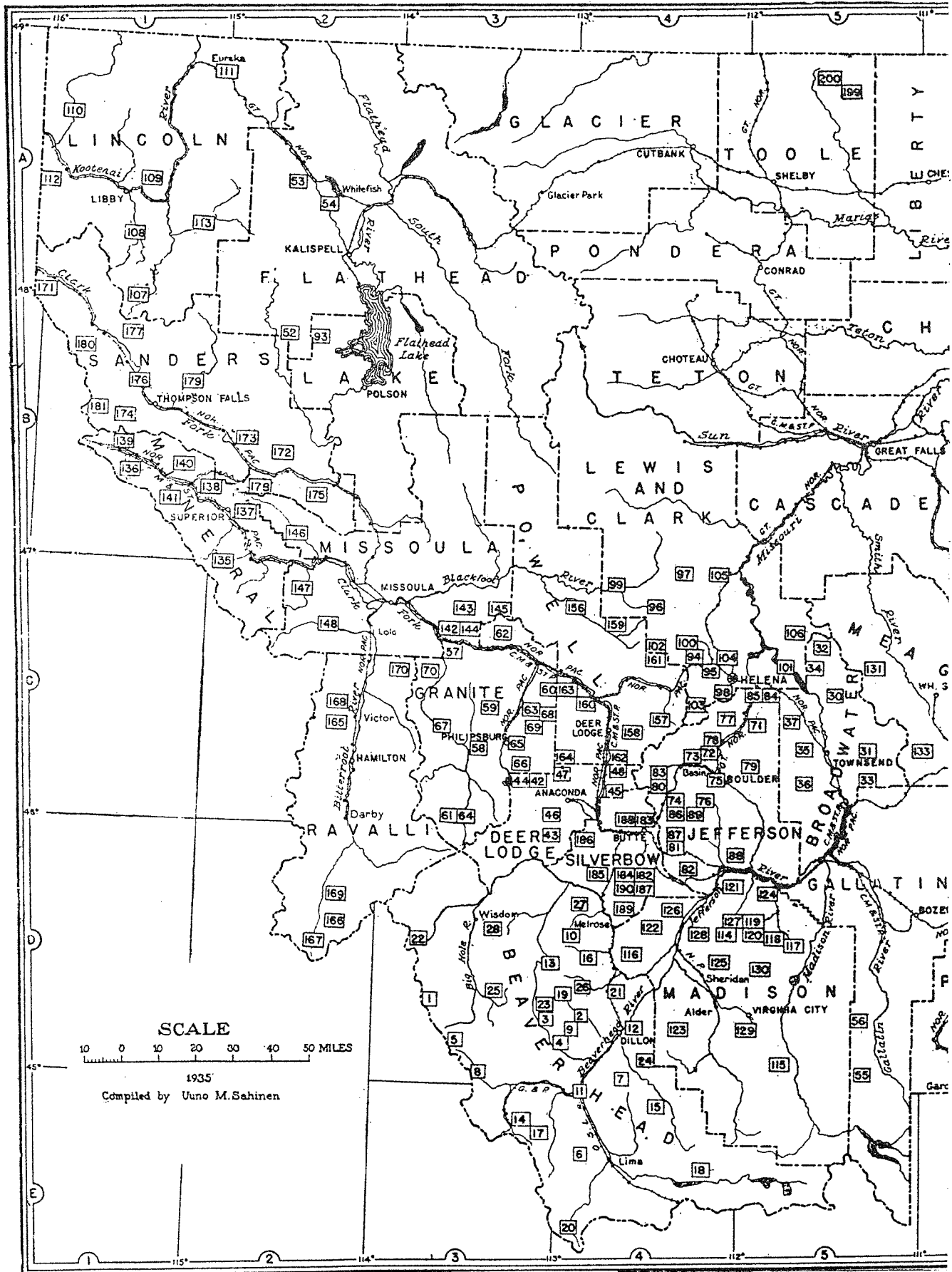
191. Nye
192. Stillwater
193. Yellowstone River

Sweet Grass County, D-6

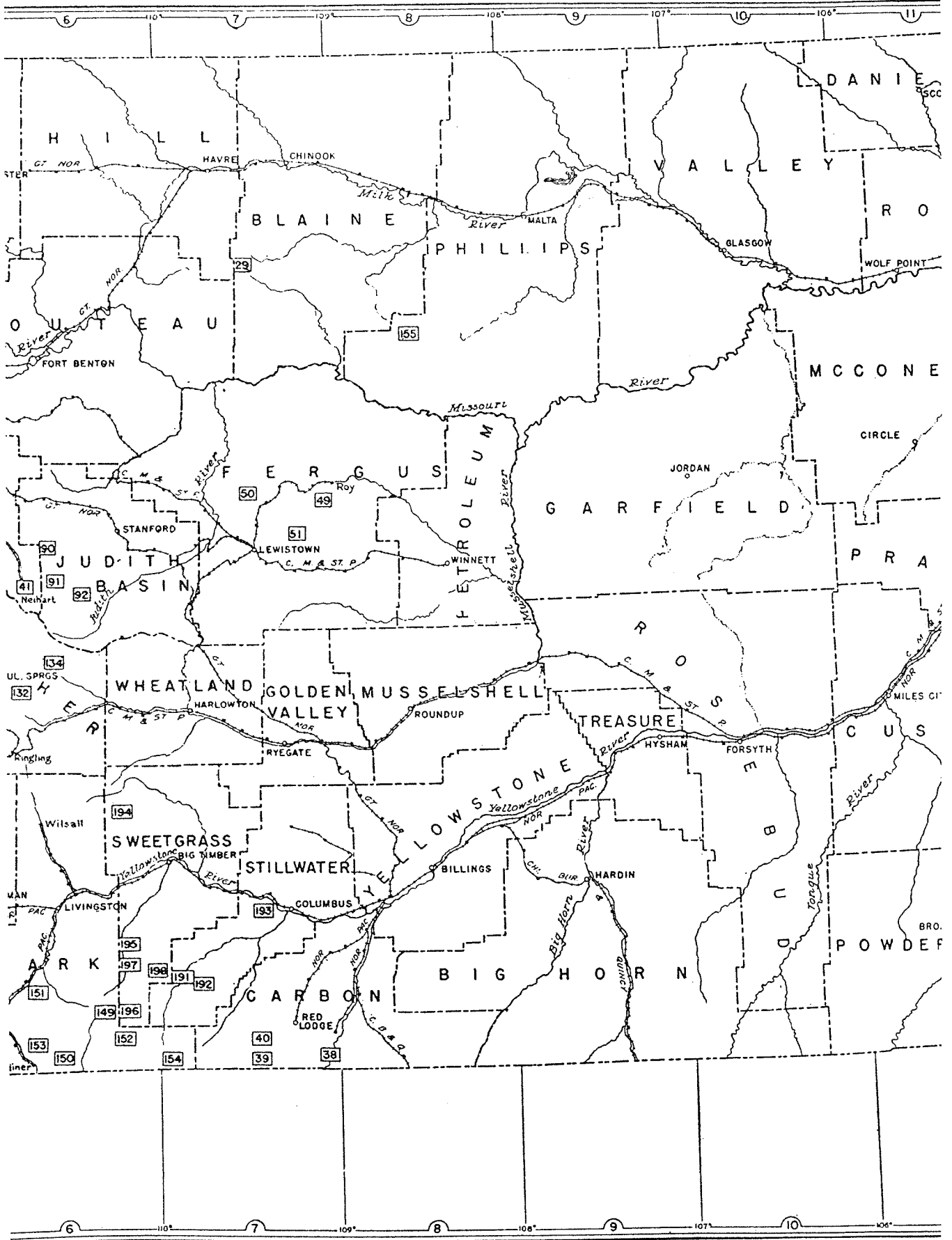
194. Big Timber Canyon
195. Boulder River
196. Independence
197. Natural Bridge
198. West Stillwater

Toole County, A-5

199. Gold Butte
200. West Butte



MAP SHOWING DISTRIBUTION OF



MINING DISTRICTS IN MONTANA

