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

BULLETIN 82

DIRECTORY OF MINING ENTERPRISES FOR 1970

with a

LIST OF COAL MINES, 1970

Compiled by

Miller Hansen Montana Bureau of Mines and Geology

and a section on

THE MINERAL INDUSTRY OF MONTANA IN 1970

by

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



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DIRECTORY OF MINING ENTERPRISES

FOR 1970

by

Miller Hansen

INTRODUCTION

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 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 1970 and a report entitled "The Mineral Industry of Montana in 1970," 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 compiler 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

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: John C. Lawrence, Box 643

Thompson Falls, MT 59873

Owner: U.S. Antimony Corp., Box 643

Thompson Falls, MT 59873

Employees: 15 Mill capacity: 300 t/d

Status: Producing and developing

CHROME MINES

STILLWATER COUNTY: Columbus

MOUAT MINE Chrome ore

Nye dist., sec. 20, T. 5 S., R. 15 E. Owner-Operator: The Anaconda Co.

Butte, MT 59701 Status: Inactive

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

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

*Open pit.

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: Developing and producing

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

BEAVERHEAD COUNTY-Continued

**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 and others

2920 Quincy, Butte, MT 59701

Employees: 1 Status: Inactive

GOLDSMITH MINE Gold, silver, 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: Developing

*GREEN LIZARD MINE Silver

Vipond Park dist., sec. 2, T. 2 S., R. 11 W.

Operator: Silver Valley Mining Co.

Salt Lake City, UT 84100

Owner: Omer H. Boeh

2121 Locust St., Butte, MT 59701

Status: Producing and developing

HECLA MINE Gold, silver

Bryant (Hecla) dist., sec. 2, T. 3 S., R. 11 W.

Owner-Operator: Lively's Inc.

Melrose, MT 59743

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

*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.

Owner-Operator: Rex Land Co.

Box 1771, Seattle, WA 98111

Employees: 4

Status: Developing

LEADVILLE MINE Silver, lead

Vipond Park dist., sec. 34, T. 1 S., R. 11 W.

Owner-Operator: Art Semsak

Butte, MT 59701

Status: Unknown

LUCKY STRIKE MINE Gold, silver, copper

Chinatown (Horse Prairie) dist., sec. 14, T. 11 S., R. 13 W.

Owner-Operator: Owen Adams

Box 64, Teasdale, UT 84773

Status: Developing

*MAIDEN CREEK COPPER MINE Copper

Chinatown dist., sec. 23, T. 11 S., R. 13 W.

Owner-Operator: Chester A. Given

Rte. 1, Box 44-C, Arco, ID 83213

Status: Inactive

HAND MINE Gold, silver, lead

Argenta dist., NW¼ NW¼ sec. 29, T. 6 S., R. 10 W.

Operator: William M. Hand

30 S. Arizona, Dillon, MT 59725

Owner: John Hand Estate

Employees: 6
Status: Producing

NEW ARIADNE MINE Gold, silver

Hecla dist., sec. 2, T. 3 S., R. 11 W.

Owner-Operator: Lively's Inc.

Melrose, MT 59743

Status: Unknown

NEW DEPARTURE MINE Gold, silver, lead, zinc

Blue Wing dist., NW¼ NW¼ sec. 26, T. 7 S., R. 11 W.

Owner-Operator: Spokane National Mines, Inc.

424 Hutton Bldg., Spokane, WA 99204

Status: Producing and developing

**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: 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: Developing

QUEEN OF THE HILLS 1, 2, 3, and 4 Gold, silver, lead

Vipond Park dist., sec. 10, T. 2 S., R. 11 W.

Owner-Operator: Otis Redwine

80 E. Park, Butte, MT 59701

Status: Unknown

*Open pit; **Open pit and underground

BEAVERHEAD COUNTY-Continued

SILVER BELLE GROUP Silver, lead Blue Wing dist., sec. 29, T. 7 S., R. 11 W. Owner-Operator: Spokane National Mines, Inc. 424 Hutton Bldg., Spokane, WA 99204

Status: Inactive

SILVER OUEEN MINE Silver

Jake Canyon dist., sec. 17, T. 10 S., R. 7 W. Operator: Silver Queen Exploration Ltd. 2114 Curtis St., Denver, CO 80205 Owner: Silver Queen Exploration Ltd. Dillon, MT 59725

Employees: 3 Status: Developing

TENDER GROUP Gold, silver, copper, lead, zinc, antimony

Argenta dist., sec. 24, T. 6 S., R. 11 W. Owner-Operator: Claude H. Brown Box 94, Dillon, MT 59725 Status: Producing and developing

VIRGINIA GULCH MINE Gold, silver Argenta dist., sec. 15, T. 6 S., R. 11 W. Owner-Operator: Kenneth Langstaff Dillon, MT 59725

*WEST ERMONT MINE

Status: Developing

Argenta dist., sec. 35, T. 6 S., R. 11 W. Owner-Operator: Big West Resources 905 E. Third, Spokane, WA 99202 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.

Owner-Operator: Bearpaw Development Co., Homer Pike, Secy.

1639 - 5th Ave. NW, Great Falls, MT 59401

Employees: 2 Status: Developing

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: Inactive

JANUARY MINE Silver, lead

Winston dist., sec. 26, T. 8 N., R. 1 W.

Owner-Operator: Mineral Resources Development Co.

2433 N. Montana Ave., Helena, MT 59601

Status: Developing

JEANETTE MINE Gold, silver, lead

Winston district

Owner-Operator: Harold Hogan 1243 N. 160th, Seattle, WA 98133

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

LOOMIS MINE

Operator: Robert Loomis Cleo Springs, OK 73729

*MOUNTAIN VIEW MINE Gold, silver, lead

Winston dist., T. 8 N., R. 1 W. Owner-Operator: R. Gleason, Winston, MT 59647

Status: Producing

*Open pit.

BROADWATER COUNTY-Continued

PIONEER MINE Silver

Indian Creek dist., sec. 35, T. 7 N., R. 1 W.

Owner-Operator: Bill Lowery Box 93, Townsend, MT 59644

Status: Developing

RUBY SILVER MINE Silver, copper, lead, zinc

Radersburg dist., sec. 33, T. 5 N., R. 1 W.

Owner-Operator: W. R. Wade Marysville, MT 59640

Status: Developing and producing

Gold, silver, lead, zinc SANTA ANITA MINE

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.

Owner-Operator: Roy E. Nicolls

Toston, MT 59643

Employees: 2

Status: Developing

*VALLEY VIEW MINE Gold, silver, lead, zinc

Park (Indian Creek) dist., sec. 24, T. 7 N., R. 1 E.

Owner-Operator: Warren Schreiner Box 665, Townsend, MT 59644

Status: Developing

CASCADE COUNTY: Great Falls

DACOTAH MINE Silver, lead, zinc

Neihart dist., sec. 29, 30, 31, 32, T. 14 N., R. 8 E.

Owner-Operator: Carroll R. Bennett Box 2267, Great Falls, MT 59401

Status: Inactive

FLORENCE MINE Silver, lead, zinc

Neihart dist., sec. 29, 30, 31, 32, T. 14 N., R. 8 E.

Owner-Operator: Carroll R. Bennett Box 2267, Great Falls, MT 59401

Status: Exploring

Gold, silver, lead LEXINGTON MINE

Montana dist., sec. 28, T. 14 N., R. 8 E.

Owner-Operator: Lexington Silver-Lead Mining Co.

621 Columbia Bldg., Spokane, WA 99204

Status: Developing

MOGUL LODE MINE Silver, lead

Neihart dist., sec. 32, T. 14 N., R. 8 E.

Owner-Operator: Arthur Schaub

Chester, MT 59522

Status: Unknown

*Open pit.

MORNING STAR MINE Silver, lead, zinc

Neihart dist., unsurveyed sec. 29, T. 14 N., R. 8 E.

Owner-Operator: Northwest Mines Development Corp.

W. 714 Sprague, Spokane, WA 99201

Employees: 15

Mill capacity: 75 t/d

Status: Developing

MOULTON-BROADWATER MINE Silver, lead, zinc

Neihart dist., unsurveyed sec. 29, 32, T. 14 N., R. 8 E.

Owner-Operator: Peter J. Antonioli and Sons

1001 W. Gold, Butte, MT 59701

Employees: 5

Status: Producing

Silver, copper, lead, zinc *PONDEROSA MINE

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: Developing

*SILVER DYKE MINE Silver, lead, zinc

Neihart dist., sec. 10, T. 14 N., R. 8 E.

Owner-Operator: Peter J. Antonioli and Sons

1001 W. Gold, Butte, MT 59701

Employees: 4

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 231, 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.

Owner-Operator: C. L. Bergloff

6082 Florence, Riverside, CA 92504

Status: Developing

MINNEHAHA, HORSESHOE, and HELENA, Gold, silver

Georgetown dist., sec. 9, T. 5 N., R. 13 W.

Owner-Operator: William J. Dean and Son

309 S. Arizona, Butte, MT 59701

Status: Inactive

PYRITE MINE Gold

Georgetown dist., sec. 4, T. 5 N., R. 13 W.

Owner: Albert Sletton

2905 Cable Rd., Anaconda, MT 59711

Status: Inactive

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.

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

Warm Springs dist., sec. 7, 18, T. 16 N., R. 20 E.

204 E. Washington St., Lewistown, MT 59457

204 E. Washington St., Lewistown, MT 59457

Owner-Operator: W. C. Montgomery

1818 W. Park, Anaconda, MT 59711

Status: Produced

FERGUS COUNTY: Lewistown

BARNES-KING and KENDALL MINE \quad Gold, silver

North Moccasin dist., sec. 32, T. 18 N., R. 18 E.

Owner-Operator: Judith Gold Corp.

Box 68, Kellogg, ID 83837

Status: Inactive

BIG GRASSY GROUP Gold, silver

Warm Springs dist., sec. 30, T. 17 N., R. 20 E.

Operator: Blue Range Mining Co.

Rte. 3, Box 35, Lewistown, MT 59457

Owner: L. C. Hoffman

Lewistown, MT 59457

Status: Inactive

*MYRANDA CLAIM Gold, silver, lead

Owner: Thomas A. Pentecost & Sons

Warm Springs dist., sec. 8, T. 16 N., R. 20 E.

Operator: L. A. Sandman

Operator: S & P Mining Co.

Box 189, Lewistown, MT 59457

Owner: L. A. Sandman and others

Box 189, Lewistown, MT 59457

Status: Developing

Status: Developing

BLACK BULL MINE Gold, silver, copper, lead, zinc Warm Springs dist., sec. 7, T. 16 N., R. 20 E.

Owner-Operator: G. S. Abbott

Gilt Edge Rte., Lewistown, MT 59457

Status: Developing

*Open pit; **Open pit and underground.

REPUBLIC MINE Silver, lead, zinc

South Moccasin dist., sec. 23, T. 16 N., R. 17 E.

Owner-Operator: C. L. Kuhnhausen

4906 NE 60th St., Vancouver, WA 98661

FERGUS COUNTY-Continued

SHEEP MOUNTAIN MINE Gold, silver, copper, lead Warm Springs dist., sec. 4, 5, T. 16 N., R. 20 E. Owner-Operator: Lawrence Lenling and others Box 74, Lewistown, MT 59457

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.
Rte. 3, Box 35, Lewistown, MT 59457

Owner: First Trust Co. of Montana, trustee Great Falls, MT 59401

Status: Developing

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

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

*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: Produced

*Open pit; **Open pit and underground.

BLUE BIRD MINE Gold, silver, copper Rose Mountain dist., sec. 26, T. 8 N., R. 12 W.

Owner-Operator: Ben Walkup Philipsburg, MT 59858

Status: Developing

**BROOKLYN MINE Silver, copper, lead, zinc, bismuth Boulder Creek dist., SW¼ NE¼ sec. 4, 5, T. 7 N., R. 12 W.

Owner-Operator: Black and White Mining Co.

c/o R. F. Little, 4207 - 21st Ave., Missoula, MT 59801

Status: Produced and 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

GRANITE COUNTY-Continued

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: Developing

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: Inactive

*GWYNN TAILINGS

Operator: Ernest Mazza Philipsburg, MT 59858

Status: Unknown

**HATTA & MAGNET MINES Silver, lead, zinc

Dunkleberg dist., sec. 14, T. 9 N., R. 12 W.

Owner-Operator: E. C. Ecklesdafer, Sr.

532 North Ave. W., Missoula, MT 59801

Status: Developing

HOLLY NO. 1 Gold, silver, copper

Dunkleberg dist., sec. 15, T. 9 N., R. 12 W.

Owner-Operator: Larry A. McLane

212 Washington, Anaconda, MT 59711

Status: Developing

*Open pit; **Open pit and underground.

*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

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.

Owner-Operator: Eugene Garrett Box 324, Anaconda, MT 59711

Employees: 1 Mill capacity: 15 t/d Status: Developing

**MOONLIGHT MINE Gold, silver, copper, lead

Princeton dist., T. 8 N., R. 12 W. Owner-Operator: John C. Bork 519 W. Porphyry, Butte, MT 59701

Status: Developing

MOOSE TRAIL MINE Gold, silver

Moose Lake district Operator: Gene Marker Garrison, MT 59731

Status: Produced

NANCY HANKS, DEWEY, MITCHELL, and MUSSIGBROD

CLAIMS Gold

Garnet dist., sec. 3, T. 12 N., R. 14 W. Owner-Operator: American Mining Co. 700 Securities Bldg., Seattle, WA 98101

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 Maxville, MT 59850

Status: Developing and producing

GRANITE COUNTY-Continued

PARNELL GROUP MINE Silver, copper, lead Flint Creek dist., sec. 7, 8, T. 7 N., R. 13 W. Owner-Operator: P. J. Heaney, Sr.

Box 130, Philipsburg, MT 59858

Status: Developing

**QUEEN MINE Silver

Boulder dist., SW1/4 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

*RUMSEY TAILINGS Gold, silver, silica

Flint Creek dist., sec. 8, T. 6 N., R. 13 W.

Operator: Lindy Fortunati Anaconda, MT 59711

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 Philipsburg, MT 59858 Owner: Contact Mining Co.

724 S. Western, Butte, MT 59701

Employees: 6
Status: Producing

SEPTEMBER MINE Gold, silver

Operator: George and Jack Knapp

Philipsburg, MT 59858

Status: Unknown

SILVER KING MINE Gold, silver

Rock Creek dist., sec. 5, T. 6 N., R. 15 W.

Operator: Albert Walkup Philipsburg, MT 59858

Owner: Charles Byam Philipsburg, MT 59858

Employees: 2 Status: Developing

SWEET HOME MINE Gold, silver

Philipsburg dist., T. 7 N., R. 13 W.

Operator: Joe Metesh Philipsburg, MT 59858

Status: Unknown

TRUE FISSURE MINE Silver, lead, zinc

Flint Creek dist., W½ NW¼ sec. 29, T. 7 N., R. 13 W.

Owner-Operator: Taylor-Knapp Co.

Philipsburg, MT 59858

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

^{*}Open pit; **Open pit and underground.

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

B and G MINE Gold, silver, lead

Alhambra-Warm Springs dist., sec. 31, T. 8 N., R. 2 W.

Owner-Operator: Carl Benson 716 N. Davis, Helena, MT 59601

Status: Unknown

*BULLION MINE Gold, silver, lead, zinc

Cataract dist., sec. 13, T. 7 N., R. 6 W.

Operator: D. M. Bullock Basin, MT 59631 Status: Producing

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 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 Norgaard
Box 544, Helena, MT 59801
Owner: Ivor Jenkins and others
Jefferson City, MT 59638

Status: Developing

*Open pit.

*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.

Owner-Operator: Earl Lutzenhiser

2331 National Ave., Helena, MT 59601

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 and others

Butte, MT 59701 Status: Exploration

ELKHORN QUEEN MINE Silver, lead, zinc

Elkhorn dist., sec. 26, T. 6 N., R. 3 W.

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: Inactive

*GOLDEN ASSETS MINE Gold, silver, copper, lead,

zinc

Golconda dist., sec. 29, T. 7 N., R. 5 W.

Owner-Operator: Fred K. Madison

1302 W. Geyser, Livingston, MT 59047

Status: Developing

GOLDEN CURRY (SOURDOUGH) MINE Gold, silver,

copper, lead, zinc

Elkhorn dist., sec. 10, T. 6 N., R. 3 W.

Owner-Operator: John Rothfus

2100 Oregon Ave., Butte, MT 59701

Employees: 2 Status: Developing

HARDMORE GROUP Silver, lead

Elkhorn dist., sec. 5, T. 7 N., R. 2 W.

Operator: Wayne Miller Radersburg, MT 59641 Owner: Ed Hilterbrand

JEFFERSON COUNTY-Continued

HOPE and BULLION MINE Gold, silver, and base

metals

Comet (Boulder) dist., sec. 6, 31, T. 6 and 7 N., R. 4 W.

Operator: Romerio Co. Owner: Mrs. A. K. Romerio

19320 Hinsdale, Torrance, CA 90503

Employees: 5
Status: Developing

HUMBOLT MINE Gold, silver

Homestake dist., sec, 9, T. 3 N., R. 6 W.

Owner-Operator: Stanley L. Boyce Rte. 1, Box 206, Butte, MT 59701

Status: Developing

JIB MINE Gold, silver, copper, lead

Basin-Cataract dist., sec. 18, T. 6 N., R. 5 W.

Owner: Sylvanite, Inc.

43 E. Broadway, Butte, MT 59701

Status: Developing

KLONDYKE MINE Gold, silver

Elkhorn dist., sec. 11, T. 6 N., R. 3 W.

Operator: Klondyke Gold Mines, Inc.

Boulder, MT 59632

Owner: C. W. Schreiner and others

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 Boulder, MT 59632

Owner: Sam Arnold

Boulder, MT 59632

Status: Inactive

*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 and others

Jefferson City, MT 59638

Owner: Ed Kyler

Boulder, MT 59632

Status: Inactive

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

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

Status: Developing

MOUNTAIN QUEEN MINE Silver, lead, zinc

Big Foot dist., sec. 27, T. 4 N., R. 5 W.

Owner-Operator: William Mulcahy

Box 21, Butte, MT 59701

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.

Owner-Operator: William Mulcahy Box 21, Butte, MT 59701

Diarus. Developi

^{*}Open pit.

IEFFERSON COUNTY-Continued

*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

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

*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.

Owner-Operator: Ruby Silver Mines, Inc.

101 W. Granite, Butte, MT 59701

Status: Inactive

*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.

Owner-Operator: Charles O. Weber Box 235, Whitehall, MT 59759

Status: Inactive

SUNNYSIDE MINE Gold, silver

Cardwell dist., SE¼ sec. 13, T. 2 N., R. 4 W.

Owner-Operator: Lester Lindquist Box 373, Whitehall, MT 59759

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: Developing

JUDITH BASIN COUNTY: Stanford

CAPE NOME MINE Silver, lead, zinc

Barker dist., sec. 31, T. 16 N., R. 9 E.

Owner-Operator: Frank Davis

1109 First Ave. S., Great Falls, MT 59401

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

*Open pit.

MONTGOMERY and SAN MIGUEL MINE

silver, copper, lead, zinc

Barker dist., sec. 21, T. 15 N., R. 9 E.

Owner-Operator: Mrs. G. V. R. McBride

Monarch, MT 59463

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

Gold

Boston, MA 02100

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.

Owner-Operator: Glenn Allman

Lincoln, MT 59639

Status: Developing

CONSOLATION MINES Silver, copper, molybdenum

Heddleston dist., sec. 21, T. 15 N., R. 6 W.

Operator: The Anaconda Co.

Butte, MT 59701

Owner: J. A. Thompson

Lincoln, MT 59639

Status: Inactive

*COME AGAIN and CROWN GROUP Gold, silver, silica

Iowa dist., sec. 26, 27, T. 11 N., R. 4 W.

Owner-Operator: Edwin W. Castle, Inc.

Box 949, Helena, MT 59601

Status: Unknown

**COPPER BOWL MINE Copper

Heddleston dist., sec. 30, T. 16 N., R. 6 W.

Owner-Operator: Clarence J. Erickson

Box 253, Lincoln, MT 59639

Status: Developing

*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: Inactive

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

Owner-Operator: Ray N. Peterson and others

98 Post St., San Francisco, CA 94104

Employees: 2

Status: Developing

*Open pit; **Open pit and underground.

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

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.

Owner-Operator: George Phillips

Rimini Rte., Helena, MT 59601

Status: Developing

*MILJOUR-VIOLET JANE MINE Gold, silver, lead

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

Owner-Operator: Cal-Mont Associates, Inc.

Box 548, East Helena, MT 59635

Status: Unknown

MONTE CHRISTO MINE Gold, silver, copper, lead

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

Owner-Operator: Hans Mo

1500 Madison Ave., Helena, MT 59601

Status: Produced and developing

OLD BACHELOR MINE

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

Owner-Operator: Dillsworth and Smith

1509 River Rd., Missoula, MT 59801

Status: Inactive

ORO FINO MINE Silver, molybdenum

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

Owner-Operator: W. R. Wade

Marysville, MT 59640

Status: Developing

PEN-UTE CONSOLIDATED MINING CO. Gold,

silver, lead

Stemple and Rimini district (6 mines)

Owner-Operator: E. J. Young, Pres., Pen-Ute Consolidated

Mining Co., Box 2713, Great Falls, MT 59401

Employees: 6

LEWIS AND CLARK COUNTY-Continued

Gold, silver, copper, lead SAM GATY MINE Tenmile 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 and others 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.

Owner-Operator: Vern C. Knopf

1621 Cannon St., Helena, MT 59601

Status: Developing

TWILIGHT CLAIMS GROUP Gold, silver, copper

Helena dist., sec. 2, T. 9 N., R. 2 W. Owner-Operator: J. R. Stimps Box 665, Shelby, MT 59474

Status: Developing

LINCOLN COUNTY: Libby

Silver, lead BLUE JAY and STAR CLAIMS

Troy district

Owner-Operator: Richard F. Fifield Box 432, Troy, MT 59935

Status: Developing

CABINET LEASE (BIG EIGHT MINE) Silver, lead,

Callahan Creek dist., sec. 19, T. 31 N., R. 34 W.

Operator: Eugene F. Tunstill Box 522, Troy, MT 59935 Owner: Bruce R. Taylor

1314 E. 43d Ave., Spokane, WA 99203

Status: Developing and produced

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 and producing

SNOWSHOE MINE Gold, silver, lead

Libby (Snowshoe) dist., sec. 11, T. 28 N., R. 32 W.

Operator: Sidney Mining Co. Box 1049, Kellogg, ID 83837

Owner: W. B. Foote Kalispell, MT 59901 Status: Developing

Silver, lead, zinc SNOWSTORM MINE

Troy dist., sec. 19,20, T. 31 N., R. 34 W.

Operator: Trojan Silver-Lead Mining Co.

Knute Kirkeberg, Mgr., Box 549, Troy, MT 59935

Employees: 4

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.

Owner-Operator: Alameda Metals, Inc. Box 205, Virginia City, MT 59755

Status: Inactive

*BEVERLY CLAIM Gold, silver

Silver Star dist., sec. 8, 9, T. 2 S., R. 6 W.

Owner-Operator: John Patterson Box 145, Sheridan, MT 59749

Status: Developing

BESSIE and GOLDEN WAVE MINE Gold, silver

copper, tungsten Mineral Hill district

Owner-Operator: W. G. Forbes

Pony, MT 59747 Status: Developing

BINS MINE Gold, silver

California Creek (Tobacco Root Range) dist., sec. 5,

T. 5 S., R. 3 W.

Owner-Operator: Goldstream Mining Co.

6715 Village Rd., Salt Lake City, UT 84121

^{*}Open pit; **Open pit and underground.

MADISON COUNTY-Continued

BLACK ACE MINE Gold, silver, lead, zinc

Tidal Wave Dist., NW1/4 NE1/4 sec. 34, T. 3 S., R. 5 W.

Owner: Lewis C. Rollins

Box 4, Waterloo, MT 59757

Status: Inactive

BLUE BELL GROUP MINES Silver

Virginia City dist., sec. 31, T. 6 S., R. 3 W.

Owner-Operator: Silver Hill Mines, Inc. Rte. 1, Chattaroy, WA 99003

Status: Inactive

DIVIDEND LODE MINE

Mineral Hill dist., sec. 15, T. 2 S., R. 3 W.

Owner: Chester G. Horton, Jr.

Pony, MT 59747 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 Sec. 3, 4, T. 7 S., R. 3 W.

Virginia City dist., sec. 33, 34, T. 6 S., R. 3 W.

Owner-Operator: R. W. Leighton Box 116, Osburn, ID 83849

Status: Developing

FRIDA MARIE CLAIM Gold, silver

Silver Star dist., sec. 10, 11, T. 2 S., R. 6 W.

Owner-Operator: James King Box 583, Sheridan, MT 59749

Status: Unknown

*GREEN CAMPBELL MINE

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

Status: Developing

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

Owner-Operator: Ed Scheitlin Virginia City, MT 59755

Employees: 1
Status: Developing

Virginia City dist., sec. 4, T. 7 S., R. 3 W.

BOULDER-COBALT MINE Gold, silver, copper, lead

Tidal Wave dist., sec. 5, T. 3 S., R. 4 W.

Owner-Operator: Blue Mountain Mines, Inc.

A. A. Moser, Hardin, MT 59034

Status: Developing

COMMONWEALTH GROUP (CALVIN MINE) Gold,

silver, lead, zinc

McCartney Mountain dist., sec. 28, T. 2 S., R. 8 W.

Operator: Kibbe & Co., W. J. Franklin, Supt.

Box 278, Twin Bridges, MT 59754

Owner: Commonwealth Lead Mining Co.

Provo, UT 84601

Status: Inactive

JACK RABBIT MINE

Rochester dist., sec. 21, T. 2 S., R. 8 W.

Owner-Operator: Mountain Gold and Silver, Inc., and

others, c/o Jim McLaughlin

Rte. 1, Box 22, Sheridan, MT 59749

Employees: 3

Status: Producing and developing

JUMPER CLAIMS Gold, silver, copper

Pony dist., sec. 27, T. 2 S., R. 3 W.

Owner-Operator: Harold Neal

Pony, MT 59747 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

MORNING STAR MINE Silver, zinc

Lower Hot Springs dist., sec. 28, 29, T. 3 S., R. 1 E.

Owner-Operator: R. B. Farnsworth 109 Willson, Bozeman, MT 59715

Employees: 2 Status: Developing

MOUNTAIN FLOWER MINE Gold, silver

Williams Gulch dist., sec. 33, T. 6 S., R. 3 W.

Owner-Operator: R. H. Rogers Box 11, Alder, MT 59710

Status: Developing

NELLIE BLY GROUP Gold

Fairweather dist., T. 7 S., R. 3 W.

Operator: Janus Mining Co. Virginia City, MT 59755

^{*}Open pit

MADISON COUNTY-Continued

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: Developing

ST. LAWRENCE CONSOLIDATED MINE Gold, silver Nevada City dist., sec. 31, 32, 33, 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, tungsten

Mineral Hill dist., sec. 14, T. 2 S., R. 3 W.

Owner-Operator: Emmett Clary Box 628, Pony, MT 59747

Employees: 2 Status: Developing

SHORT SHIFT MINE Gold

Rabbit dist., SE¼ sec. 6, T. 2 S., R. 7 W.

Owner-Operator: John A. Layton 3104 Busch, Butte, MT 59701

Mill capacity: 20 t/d Status: Developing

SMUGGLER MINE Gold, silver

Mill Creek dist., sec. 13, T. 4 S., R. 4 W.

Owner-Operator: Goldstream Mining Co.

6715 Village Rd., Salt Lake City, UT 84121

Status: Developing

SURPRISE CLAIMS GROUP Gold, silver, lead

California (Harris) Creek dist., sec, 5, 6, 7, 8, T. 5 S., R. 3 W.

Owner-Operator: Harry Bennetts

Sheridan, MT 59749 Status: Developing

**TAMARACK MINE Gold

Sheridan dist., sec. 17, T. 4 S., R. 4 W.

Operator: R. L. Holladay

Box 302, Sheridan, MT 59749

Owner: Broadgauge Mine, Inc.

Box 302, Sheridan, MT 59749

Employees: 3 Status: Developing

**UNCLE SAM MINE Gold, silver

Mill Creek dist., SE¼ sec. 8, T. 4 S., R. 3 W.

Owner-Operator: Mark Mortenson

Sheridan, MT 59749

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 Carmin and others

Pony, MT 59747

Employees: 1 Status: Inactive

MEAGHER COUNTY: White Sulphur Springs

**LUCKY DOLLAR MINE Silver, lead

Castle (unorganized) dist., sec. 12, T. 8 N., R. 8 E.

Owner-Operator: Robinson Mining Co.

c/o Carl Berg

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.

Owner: Carl W. Voss 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: Produced

^{*}Open pit; **Open pit and underground.

MINERAL COUNTY: Superior

*BLACK TRAVELER and BULORING MINES

Silver, copper

St. Regis-Saltese dist., sec. 5, T. 19 N., R. 30 W.

Operator: Charles P. Buls

416 E. Beckwith Ave., Missoula, MT 59801

Owner: Buloring Mining Co.

416 E. Beckwith Ave., Missoula, MT 59801

Status: Developing

**BONANZA GROUP MINE Gold, silver, copper, lead

Cedar Creek dist., sec. 17, T. 15 N., R. 26 W.

Owner-Operator: G. M. Gildersleeve Box 565, Superior, MT 59872

Status: Developing

BRYAN MINE Silver, lead

Saltese dist., sec. 28, T. 20 N., R. 31 W.

Owner-Operator: Jupiter Mining Co.

Box 1010, Wallace, ID 83873 Status: Inactive

EAST COEUR D'ALENE SILVER MINE Silver,

copper, lead, zinc

Keystone dist., T. 17, 18 N., R. 26, 28 W.

Operator: Tierra Exploration Inc.

Superior, MT 59872

Owner: East Coeur d'Alene Silver Mines, Inc.

Scott Bldg., Wallace, ID 83873

Status: Inactive

LAST CHANCE MINE Silver, lead

Saltese dist., sec. 34, T. 20 N., R. 31 W.

Owner-Operator: Jupiter Mining Co.

Box 1010, Wallace, ID 83873

Status: Inactive

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: Tierra Exploration Inc.

Superior, MT 59872

Owner: Nancy Lee Mines, Inc.

Box 67, Kellogg, ID 83837

Employees: 30

Mill capacity: 150 t/d

Status: Producing

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: Inactive

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

MISSOULA COUNTY: Missoula

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

Status: Inactive

**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

*WALDBILLIG MINE Silver, copper

Miller Creek dist., sec. 1, 2, T. 11 N., R. 19 W.

Owner-Operator: Joe and O. R. Waldbillig

Rte. 5, Miller Creek, Missoula, MT 59801

Status: Developing and exploring

WARD LODE MINE Gold, silver, copper, lead, zinc

Sec. 22, T. 11 N., R. 22 W.

Owner-Operator: Ward Development Co.

321 N. Higgins Ave., Missoula, MT 59801

Employees: 5

Status: Developing

*Open pit; **Open pit and underground.

PARK COUNTY: Livingston

*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: Developing

PHILLIPS COUNTY: Malta

GOLD BUG-LITTLE BEN MINE Gold, silver

Little Rockies dist., sec. 15, T. 25 N., R. 24 E.

Operator: Niseka Mining, Ltd. Landusky, MT 59533

Owner: Little Rockies Mining & Development Co.

Lewistown, MT 59457

Employees: 4 Status: Developing 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

POWELL COUNTY: Deer Lodge

BUMBLEBEE MINE Gold, copper

Ophir dist., sec. 20, T. 11 N., R. 7 W.

Owner-Operator: Clarke J. Smith Rte. 2, Valencia, PA 16059

Status: Developing

MONARCH MINE Gold, silver, copper Ontario dist., sec. 30, 31, T. 8 N., R. 6 W.

Owner-Operator: Monarch Minerals, Inc., D. L. Jones, Mgr.

Box 33, Helena, MT 59601

Employees: 3 part time Status: Developing

FAIRVIEW MINE Gold, silver, copper

Ophir dist., sec. 25, T. 11 N., R. 8 W.

Owner-Operator: Wesley Dix

1109 W. Woolman, Butte, MT 59701

Employees: 3 Status: Developing NANCY HELEN MINE Gold, copper

Ophir district

Owner-Operator: Clarke J. Smith Rte. 2, Valencia, PA 16059

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. Ward and others

Elliston, MT 59728 Owner: Hard Luck Mines Elliston, MT 59728 Status: Developing

NEGROS MINE Gold, silver, lead, zinc

Negro Hill dist., SE¼ SW¼ sec. 36, T. 9 N., R. 7 W.

**NELSON and DAN 1 & 2 MINES Gold, silver, copper Elk Creek dist. (Powell and Granite Counties) sec. 5, 6, 7, 8, T. 12 N., R. 13 W.

Owner-Operator: Nelson Mines, Harold G. Nelson, Sr.

Owner-Operator: J. F. Hopkins

401 N. Montana, Helena, MT 59601

Status: Producing and developing

Greenough, MT 59836

*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

Employees: 2 Status: Developing

**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

*Open pit; **Open pit and underground

POWELL COUNTY-Continued

Gold, silver, lead **SUNRISE MINE Negro Hill dist., sec. 12, T. 8 N., R. 7 W.

Owner-Operator: Enard A. Lindquist

Box 334, Elliston, MT 59728

Status: Developing

Gold, silver, lead WOLVERINE MINE Elliston dist., sec. 18, 19, 20, T. 8 N., R. 6 W. Owner-Operator: Wolverine Corp. c/o M. M. Butler, Pres. 2711 Miles Ave., Billings, MT 59102 Status: Developing

RAVALLI COUNTY: Hamilton

Silver, lead *CURLEW MINE

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 and others

Box 142, Victor, MT 59875

Status: Produced

Silver, copper, beryl LOGGER CLAIMS GROUP

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

Gold, silver, lead, zinc *WHIPPERWILL MINE Pleasant View dist., T. 8 N., R. 21 W.

Operator: Bill Elsasser Samuels, ID 83862 Owner: Albert Smith Victor, MT 59875

Employees: 2 Status: Inactive

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

Silver, lead, zinc BROKEN HILL MINE

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. Swann and others

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: Silver Mountain Exploration Co., Rm 708 N. 4407 Division St., Spokane, WA 99207

Owner: The State Mining Co., W. W. Stearns

Box 141, Plains, MT 59859

Status: Developing

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

Gold, silver HEIDELBERG MINE

Noxon dist., SE¼ sec. 29, NW¼ sec. 32, T. 27 N., R. 31 W.

Owner-Operator: Heidelberg Mining Company of Montana, c/o G. A. Myers

1001 Court St., Pasco, WA 99301

Status: Developing

HOLLIDAY MINE Silver, lead

Pilgrim Creek dist., sec. 25, 36, T. 26 N., R. 34 W.

Owner-Operator: Silver Mark Mines, Inc. Box 197, Noxon, MT 59853

^{*}Open pit; **Open pit and underground

SANDERS COUNTY-Continued

RED FIR (AMAZON) MINE Gold, silver, copper Blue Creek dist., sec. 25, T. 27 N., R. 34 W. Owner-Operator: J. C. Brooks and others

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

8 Spruce St., Wallace, ID 83873

Owner: Ruth Sales Kalispell, MT 59901

Status: Inactive

SILVER BOW COUNTY: Butte

BADGER MINE Gold, silver, lead, zinc

Summit Valley 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 dist., NE¼ NW¼ sec. 18, T. 3 N.,

R. 7 W.

Owner-Operator: The Anaconda Co.

Butte, MT 59701 Status: Producing

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: Produced

**CLIMAX (APEX) LODE GROUP Gold, silver

Divide Creek dist., sec, 5, 6, T. 1 N., R. 8 W.

Operator: James S. Knowlson, III 805 W. Granite, Butte, MT 59701

Owner: Intermountain Deaconess Home for Children

Helena, MT 59601

Employees: 2 Status: Developing

*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.

Owner-Operator: Frank Bissell

319 N. Excelsior, Butte, MT 59701 Status: Exploration and developing

*Open pit; **Open pit and underground.

KELLEY MINE Gold, silver, copper

Summit Valley dist., SW¼ SW¼ 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 dist., center SW½ 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.

Owner-Operator: James L. White 1112 Missouri, Butte, MT 59701

Status: Inactive

MOUNTAIN CON MINE Gold, silver, copper

Summit Valley dist., NE¼ SW¼ 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

Status: Developing

STEWARD MINE Gold, silver, copper

Summit Valley dist., NW1/4 NE1/4 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 dist., sec. 19, 24, T. 3 N., R. 9 W.

Owner-Operator: Tom Helehan

Fox Hotel, Butte, MT 59701

SWEET GRASS COUNTY: Big Timber

**SKY BABY CLAIMS Gold, silver

Boulder River dist., sec. 25, T. 4 S., R. 12 E.

Owner-Operator: Ben Taylor

Box 516, Big Timber, MT 59011

Status: Developing

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 59644 Owner: John M. Ralls

Radersburg, MT 59644

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 Radersburg, MT 59641

Status: Developing

SILVER BOW COUNTY: Butte

IRON KING MINE Iron ore

Little Pine district

Owner-Operator: Tom Helehan Fox Hotel, Butte, MT 59701

Status: Inactive

MOLYBDENUM MINES

RAVALLI COUNTY: Hamilton

*MOLLY 1, 2, 3, 4, and 5 Molybdenite

Skalkaho dist., unorganized, T. 5 N., R. 18 W.

Owner-Operator: Leif Aune Box 303, Darby, MT 59829

Employees: 1
Status: Developing

THORIUM MINES

BEAVERHEAD COUNTY: Dillon

LAST CHANCE MINE Thorium, rare earths
Lemhi Pass dist., sec. 20, 28, 29, T. 10 S., R. 15 W.
Owner-Operator: Sawyer-Adecor Inter., Inc.

3780 Wilshire Blvd., Los Angeles, CA 90005

^{*}Open pit; **Open pit and underground.

TUNGSTEN MINES

BEAVERHEAD COUNTY: Dillon

*CALVERT MINE Scheelite

Wise River dist., sec. 12, T. 1 N., R. 12 W.

Owner-Operator: Minerals Engineering Co.

817 - 17th St., Denver, CO 80202

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: Developing

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

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.

Owner-Operator: James J. Stoick

2515 Sunnyview Ln., Billings, MT 59101

Status: Developing and exploring

^{*}Open pit; **Open pit and underground.

GOLD PLACERS

GRANITE COUNTY: Philipsburg

CONFIDENT, RADAR, CASTLE PLACER 1, and CASTLE PLACER 2 Gold, silver

Granite dist., sec. 22, 34, T. 6 N., R. 13 W.
Owner-Operator: William J. Dean & Son
309 S. Arizona, Butte, MT 59701

Status: Unknown

MASTER PLACER Gold

Gold Creek dist., T. 8 N., R. 12 W. Owner-Operator: O. Perl Smith 745 Sherman, Denver, CO 80203

Status: Unknown

JEFFERSON COUNTY: Boulder

BLUEBIRD NO. 1 and 2 PLACER Gold

Whitehall district

Owner-Operator: Maurice R. Haigh Box 293, Three Forks, MT 59752

Employees: 1

Status: Producing and developing

SKOOKUM PLACER Gold

Comet dist., sec. 12, T. 5 N., R. 6 W. Owner-Operator: Theodore Nyquest Box 133, Boulder, MT 59632

Status: Developing

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.

Owner-Operator: E. L. Burns

Box 324, White Sulphur Springs, MT 59645

Status: Producing

YERDON PLACER Gold
Meagher district, unorganized

Owner: Vern Knopf

1621 Cannon St., Helena, MT 59601

Status: Unknown

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.

Owner-Operator: George Gildersleeve Box 565, Superior, MT 59872 Status: Developing and producing

GOLD PLACERS-Continued

PARK COUNTY: Livingston

HENKE-BEER PLACER Gold

Boulder River dist., sec. 20, T. 7 S., R. 12 E.

Owner-Operator: Donald N. Henke Box 206, Big Timber, MT 59011

Employees: 2

Status: Developing

W. M. CLAYTON PLACER Gold

Emigrant dist., sec. 7, T. 6 S., R. 9 E.

Owner-Operator: W. J. Clayton

Box 54, Pray, MT 59065

Status: Inactive

POWELL COUNTY: Deer Lodge

JEFFERSON CREEK PLACER Gold

Finn dist., sec. 11, T. 12 N., R. 9 W.

Owner-Operator: Elmer J. Wagner

Box 292, Avon, MT 59713

Employees: 1

Status: Developing

MASTER PLACER Gold

Gold Creek dist., T. 9 N., R. 11 W.

Owner-Operator: O. Perl Smith

745 Sherman, Denver, CO 80203

Status: Unknown

OLD SHOE NO. 1 PLACER Gold

Finn district

Owner-Operator: A. H. Roat and Sons

Box 266, Alberton, MT 59820

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.

Big Fork, MT 59911 Status: Developing

BARITE MINES

BEAVERHEAD COUNTY: Dillon

*LUCKY JIM BEAM GROUP MINE Barite

Jackson dist., sec. 25, 26, T. 4 S., R. 14 W.

Owner-Operator: R. P. Jackson Jackson, MT 59736

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

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: Developing

*BRAZIL CREEK PIT Bentonite

Owner-Operator: Brazil Creek Bentonite Co.

Box 907, Glasgow, MT 59230

Status: Developing

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

*GLASGOW PITS Bentonite

> Owner-Operator: Federal Bentonite Co. 4614 Prospect Ave., Cleveland, OH 44103

Status: Developing

BRAZIL CREEK PIT Bentonite Operator: Federal Bentonite Co.

4614 Prospect Ave., Cleveland, OH 44103

Owner: Brazil Creek Bentonite Co. Box 907, Glasgow, MT 59230

Status: Developing

CLAY MINES AND PITS

CASCADE COUNTY: Great Falls

*TREASURELITE PIT Clay

Sec. 13, T. 21 N., R. 3 E.

Owner-Operator: Treasurelite, Div. Treasure State Industrial Products, Inc.

Box 2750, Great Falls, MT 59401

Status: Unknown

-----*Open pit.

CLAY MINES-Continued

DEER LODGE COUNTY: Anaconda

*PLACER FIRE CLAY PIT Fire clay

Sec. 34, T. 5 N., R. 11 W.

Owner-Operator: Harold Snow

Box 1155, Anaconda, MT 59711

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.

Owner-Operator: Wesley Van Gorden Box 5, Cardwell, MT 59721

Status: Produced

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: Produced

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

^{*}Open pit.

GYPSUM MINES:

BEAVERHEAD COUNTY: Dillon

*McCARTHY (DEADWOOD) DEPOSIT

Sec. 6, 7, T. 14 S., R. 9 W.

Operator: Tim McCarthy Lima, MT 59739

Owner: Tim McCarthy and others

Lima, MT 59739 Status: Developing Gypsum

*PETERSON DEPOSIT Gypsum N½ sec. 1, T. 15 S., R. 9 W.

Owner-Operator: Mrs. Lanora Peterson Box 185, Willow Creek, MT 59760

Status: Inactive

CARBON COUNTY: Red Lodge

*JAY KAY MINE Gypsum

NE¼ SE¼ sec. 19, T. 7 S., R. 24 E. Owner-Operator: Jay Kay, Inc.

607 Garden Ave., Billings, MT 59101

Status: Developing

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.

Owner-Operator: Roy Kitson

Alder, MT 59710 Status: Developing

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

...

^{*}Open pit.

LIMESTONE MINES-Continued

DEER LODGE COUNTY: Anaconda

*BROWNS QUARRY Metallurgical limestone

Sec. 23, T. 5 N., R. 12 W.

Owner-Operator: The Anaconda Co.

Butte, MT 59701 Status: Producing

GALLATIN COUNTY: Bozeman

*TRIDENT QUARRY Portland cement limestone

Sec. 9, 10, T. 2 N., R. 2 E.

Owner-Operator: Ideal Cement Co.

420 Ideal Cement Bldg., Denver, CO 80202

Status: Producing

JEFFERSON COUNTY: Boulder

*McCLELLAN OUARRY 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

Portland cement limestone *MONTANA CITY QUARRY

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.

Owner-Operator: Janney Trucking Co., Inc.

Garrison, MT 59731

Status: Producing and developing

PHOSPHATE MINES

POWELL COUNTY: Deer Lodge

BROCK (ANDERSON, WARM SPRINGS CREEK)

Phosphate rock

Garrison dist., sec. 21, 22, T. 10 N., R. 10 W.

Owner-Operator: Cominco American, Inc.

Garrison, MT 59731

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: Inactive

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.

Owner-Operator: R. M. Parson Co.

617 W. 7th St., Los Angeles, CA 90017

Status: Developing

*Open pit.

RELYEA MINE Phosphate rock

Garrison dist., S½ sec. 12, T. 10 N., R. 10 W.

Owner-Operator: George Relyea

Box 85, Garrison, MT 59731

Employees: 10

Status: Producing

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

LEWIS AND CLARK COUNTY: Helena

*EL DORADO BAR SAPPHIRE DIGGINGS Sapphire

Sec. 2, 10, 11, T. 11 N., R. 12 W. Operator: Dr. James Peterson

2428 No. Highland, Altadena, CA 91001

Owner: Eldorado, Inc.

York Rte., Helena, MT 59601 Status: Producing and developing

SEMIPRECIOUS STONES

MISSOULA COUNTY: Missoula

*FOUR V's CLAIMS Smoky quartz

Fish Creek dist., sec. 22, T. 11 N., R. 24 W.

Owner-Operator: Albert E. Volker

2835 Woodland St., Missoula, MT 59801

Status: Producing and developing

SHALE PITS

CASCADE COUNTY: Great Falls

*TREASURELITE PIT Expanded shale

Sec. 13, T. 21 N., R. 3 E.

Owner-Operator: Treasurelite, Div. Treasure State Industrial Products, Inc.

Box 2750, Great Falls, MT 59401

Status: Unknown

GALLATIN COUNTY: Bozeman

*KANTA PIT Expanded shale

Sec. 13, T. 2 N., R. 2 E.

Owner-Operator: Kanta Products, Inc. Box 96, Three Forks, MT 59752

Status: Unknown

YELLOWSTONE COUNTY: Billings

*MONTANA SHALE PIT Expanded shale

Owner-Operator: Montana Liteweight Aggregate Co.

Box 20317, Billings, MT 59102

Status: Inactive

*Open pit.

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: Producing

DEER LODGE COUNTY: Anaconda

*LUKE QUARRY Metallurgical silica

Blue Eyed Nellie dist., NW1/4 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.

Owner-Operator: R.K.R. Soil Amendment, Inc.

Cushman, MT 59023

Status: Inactive

LAKE COUNTY: Polson

*HOWARD W. MARTIN PEAT Peat

Sec. 16, 17, T. 24 N., R. 17 W.

Owner-Operator: Martin's Peat & Potting Soils, Howard W. Martin

Swan Lake, MT 59911

Employees: 1

Status: Producing

*Open pit.

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: Produced and developing

CASCADE COUNTY: Great Falls

*FORZLEY SALES CO. QUARRIES Building stone

Four mi. S. Monarch

Owner-Operator: Forsley Sales Co. Box 2070, Great Falls, MT 59401

Status: Producing

FERGUS COUNTY: Lewistown

*SURPRISE STONE QUARRY Ornamental stone Sec. 32, 33, T. 14 N., R. 22 E. Owner-Operator: Charles B. Allen

Box 117, Grassrange, MT 59032 Status: Produced and developing

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.

Owner-Operator: Henry Lozeau 535 Ford. Missoula, MT 59801

Status: Produced

GALLATIN COUNTY; Bozeman

*PICTURE FLAGSTONE QUARRY Picture flagstone

Sec. 29, T. 2 N., R. 4 E.

Owner-Operator: Orie B. McElwee Box 474, Manhattan, MT 59741

Status: Producing

*Open pit.

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: Inactive

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: Burlington Northern, Inc.

St. Paul, MN 55101

Employees: 15

Mill capacity: 200 t/hr 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. Strong

711 E. Park, Livingston, MT 59047

Status: Producing

RAVALLI COUNTY: Hamilton

*BITTERROOT VALLEY STONE QUARRY

Ornamental stone

Sec. 7, T. 32 N., R. 21 W.

Owner-Operator: Henry Andrews

Rte. 1, Box 274, Hamilton, MT 59840

Status: Produced and developing

SANDERS COUNTY: Thompson Falls

*FISHTRAP QUARRIES Ornamental stone

Sec. 23, 26, T. 24 N., R. 28 W.

Owner-Operator: U. C. Campbell

Box 427, Thompson Falls, MT 59873

Status: Producing

TALC MINES

MADISON COUNTY: Virginia City

*BEAVERHEAD MINE Talc

Stone Creek dist., sec. 11, 14, T. 7 S., R. 6 W.

Owner-Operator: United Sierra Division

Cyprus Mines Corp., Box 1201, Trenton, NJ 08618

Status: Producing

*REGAL MINE Talc

Sweetwater dist., N½ sec. 2, T. 8 S., R. 7 W.

Owner-Operator: Chas. Pfizer & Co.

Box 1147, Dillon, MT 59725

Employees: 2

Status: Producing

*RUBY NO. 1 and NO. 2 MINE Talc

Warm Springs dist., sec. 11, T. 8 S., R. 4 W.

Owner-Operator: Sam Maloney

Box 174, Alder, MT 59710

Status: Developing

*SNOW CAP MINE Talc

Owner-Operator: W. M. Cocanougher

Twin Bridges, MT 59754

Mill capacity: 30,000 t/d

Status: Developing

*TALC RIDGE (RUBY) GROUP Talc

Willow Creek dist., sec. 30, T. 8 S., R. 3 W.

Operator: Madison Minerals Corp., c/o C. W. Hafer, Sr.

1967 Yale, Butte, MT 59701

Owner: Carl Garrison and others

1967 Yale, Butte, Mt 59701

Employees: 2 to 3

Status: Producing and developing

*TREASURE STATE MINE Talc

Stone Creek dist., NE¼ NE¼ sec. 15, T. 7 S., R. 6 W.

Owner-Operator: Chas. Pfizer & Co.

Box 1147, Dillon, MT 59725

Employees: 2

Status: Producing

*YELLOWSTONE (CAMERON) MINE Tal

Johnny Gulch dist., sec. 4, T. 9 S., R. 1 W.

Owner-Operator: United Sierra Division

Cyprus Mines Corp., Box 1201, Trenton, NJ 08618

Status: Producing

VERMICULITE MINES

LINCOLN COUNTY: Libby

*VERMICULITE MOUNTAIN MINE Vermiculite

Rainy Creek dist., sec. 14, 15, 22, 23, T. 31 N., R. 30 W.

Owner-Operator: Construction Materials Division

W. R. Grace & Co.

62 Whittemore Ave., Cambridge, MA 02140

Employees: 160

Mill capacity: 3,000 t/d

Status: Producing

MADISON COUNTY: Virginia City

GILLIAM VERMICULITE DEPOSIT Vermiculite

Mineral Hill dist., sec. 25, T. 1 S., R. 3 W.

Operator: W. G. Forbes

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 Owner-Operator: Rosebud Coal Sales Co. Box 724, Sheriday, WY 82801

Status: Produced; inactive after April 1970

BLAINE COUNTY: Chinook

MILK RIVER MINE Coal

Owner-Operator: Lauren Sargent Box 472, Chinook, MT 59523

Employees: 4

Status: Closed April 1970

CUSTER COUNTY: Miles City

STORM KING MINE Coal Operator: Ralph E. Bair

Box 113, Miles City, MT 59301

Status: Unknown

DAWSON COUNTY: Glendive

PEUSE MINE Coal
Sec. 13, T. 16 N., R. 53 E.
Owner-Operator: Gordon Peuse
Lindsay, MT 59339

Status: Developing

McCONE COUNTY: Circle

No. 1 MINE Coal

Operator: R. D. Stephenson Circle, MT 59215 Status: Produced

MUSSELSHELL COUNTY: Roundup

BLUE FLAME MINE Coal
Sec. 23, T. 6 N., R. 26 E.

Owner-Operator: Victor Carlson Box 342, Roundup, MT 59072

Employees: 7

Mill capacity: 100 t/d Status: Producing

*Open pit.

COW CREEK MINE Coal Sec. 9, T. 6 N., R. 28 E.

Owner-Operator: George Badovinus Klein Star Rte., Roundup, MT 59072

Status: Developing

MUSSELSHELL COUNTY-Continued

DIVIDE MINE Coal

Operator: Divide Coal Mining Co.

Roundup, MT 59072

Owner: Victor Carlson

Box 342, Roundup, MT 59072

Employees: 6 Status: Produced

JOHNNY'S MINE Coal

Sec. 15, T. 7 N., R. 26 E.

Owner-Operator: Johnny Keosky

1011 - 1st St., Roundup, MT 59072

Employees: 3 Status: Produced

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 and developing

P and M MINE Coal

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

Owner-Operator: Paul Meged

Golden Creek Rte., Roundup, MT 59072

Status: Producing

SQUARE DEAL MINE Coal

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

Owner-Operator: Virgil Cross

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

Employees: 12

Status: Producing and developing

WESTERN MINE Coal

Operator: Glenn Johnson

Roundup, MT 59072

Status: Producing

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

Owner-Operator: Peabody Coal Co.

Colstrip, MT 59323

Employees: 13

Status: Producing

LAME DEER MINE Coal

Operator: Lester Scott

Lame Deer, MT 59043

Status: Unknown

*Open pit.

*ROSEBUD NO. 6 MINE

Operator: Western Energy Co.

Colstrip, MT 59323

Owner: Montana Power Co.

Butte, MT 59701

Employees: 9

Status: Producing

COAL MINES-Continued

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. Owner-Operator: E. C. Lagerquist Rte. 1, Westby, MT 59275 Status: Inactive

PART 4, THE MINERAL INDUSTRY OF MONTANA IN 1970

MINERAL INDUSTRY SURVEYS



Fred J. Russell, Acting Secretary

Elburt F. Osborn, Director

Albany Mineral Supply Field Office Mark L. Wright, Acting Chief Albany, Oregon

THE MINERAL INDUSTRY OF MONTANA IN 1970

Preliminary Annual Report

The value of mineral production in 1970 rose to \$309.8 million, an increase of almost 10 percent over the previous year, according to preliminary estimates by the Bureau of Mines, U.S. Department of the Interior. The metallic values were mixed, with gold, lead, manganese, and zinc all declining in value, and copper and silver increasing 45 and 26 percent, respectively. Copper's value of mineral production was 46 percent of the State total, which was partially due to a 24-percent increase in the annual average price.

Petroleum production value, at one time the State's dominant mineral commodity in terms of value, fell 12 percent to \$103.7 million. In spite of increases in coal and natural gas, mineral fuels value of production declined to 36 percent of the total value of mineral production, compared with 44 percent in 1969 and 56 percent in 1968. Both losses were due to petroleum.

The value of construction materials (cement, clay, sand and gravel and stone) dropped compared with 1969. This was paralleled by a decline in employment in the construction industry.

Prepared by Fred V. Carrillo and William N. Hale, Geologists, and Mary Anne McComb, Economist, Bureau of Mines, Albany, Oreg., Dec. 14, 1970, under the direction of A.J. Kauffman, Jr., Physical Science Administrator.

TABLE 1.- Mineral production in Montana 1/

| | 1969 | ď | P/ 1970 | 0 |
|---|----------|-------------|----------|-------------------|
| | | Value | | Value |
| Mineral | Quantity | (thousands) | Quantity | thousands/ |
| Antimony ore and concentrateshort tons, antimony content | 1 - N | 1 KY# | 51 | 09 |
| Clays 2/thousand short tons | 1 030 | 2.199 | 1,740 | 4,100 |
| Coal (bituminous and lignite)short tons | 105,314 | 98,219 | 121,663 | 142,759 |
| | NA | 109 | NA CO | 100 100 |
| Gem stonestroy ounces | 24,189 | 1,004 | 24,222 | + 1 3 |
| Tron ore (usable)thousand long tons, gross weight | 1 757 | 205 205 | 1,581 | 76 ^t 1 |
| Lead (recoverable content of ores, etc.)shousand short tons | 1,17 | 2,737 | 227 | 2,802 |
| Lime Lime (25 nercent or more Mn) | |) (i | 049 | 51 |
| Manganese ore and concentrate () for some short tons, gross weight | 775 | 200 | 210 | 4.855 |
| | 41,229 | 4,202 | 47,550 | 103,675 |
| Natural gas (criide)thousand 42-gallon barrels | 45,954 | 110,007 | A | M |
| : | 104 | 24.962 | 22,000 | 22,500 |
| | 7,100 | 6,141 | 4,281 | 7,767 |
| ores, etc | 6.143 | 1,794 | 5,131 | 1,572 |
| .c.). | | | | |
| Value of items that cannot be disclosed: Cement, crass | | | | |
| (bentonite), fluorspar, gypsum, marging end phosphate rock, talc, tungsten (1969), vermiculite, and | XX | 22,189 | X | 18,032 |
| values indicated by symbol W | | | | |
| | × | 282,631 | XX | 309,750 |
| 10 car. | | | | |

Not available. W Withheld to avoid disclosing individual company confidential data. Production as measured by mine shipments, sales, or marketable production (including consumption by NA Preliminary.

producers). Excludes bentonite; included with "Value of items that cannot be disclosed."

Montana, having one of the largest strip-minable coal reserves in the Nation, low in sulfur and high in heat value, was seeking legislation to guarantee land restoration after strip mining. Up to this time, restoration had been done on a voluntary basis, and firms were granted special tax privileges on reclamation. The State hoped to parallel the restrictions on Federal lands bearing leasable minerals. The Dredge Mining Law was ruled unconstitutional as it did not cover all developers equally; for example, gravel extraction and strip coal mining were not covered.

According to estimates of the Montana Department of Employment, the State had not experienced the serious economic downturn that was generally true in the Pacific Northwest. In October, the rate of unemployment in Montana was less than Oregon, Idaho, or Washington, and below that of the Nation by over 1 percent. Employment in the mining industry posted a gain of 12 percent compared with that of 1969. Average hourly earnings in mining were \$3.93 in October, as compared with \$3.62 in October of the previous year.

In 1970, the category "All Nonagricultural Industries" was replaced by "Total Employment" in table 2. By comparison, total employment for 1969 and 1968 was 260,300 and 258,100, respectively.

TABLE 2.- Estimated average monthly employment (thousands)

| | First 10 | First 10 | First 10 | Change |
|--|--|--|--|--|
| | months, | months, | months, | 1969-70, |
| | 1968 | 1969 | P/ 1970 | percent 1∕ |
| Mining Metal mining Quarrying and nonmetallic mining, including coal Petroleum and natural gas production Manufacturing Lumber and timber products Primary metals Petroleum refining Contract construction Transportation and utilities All nonagricultural industries Total employment | 5.4 2.2 1.0 2.1 23.0 8.9 3.6 1.0 11.7 17.7 194.6 <u>2</u> / | 6.0 3.2 0.8 2.1 24.1 8.9 4.7 1.0 10.4 17.6 196.6 | 6.8 4.1 0.7 1.9 23.8 8.6 4.7 1.1 10.2 17.1 2/ 262.8 | +12.1 +28.0 -5.3 -6.3 -1.2 -3.5 - +11.3 -1.4 -2.9 |

p/ Preliminary.

^{1/} Percentages cannot be calculated from table because of rounding.

^{2/} As of 1970, the category "All Nonagricultural Industries" has been replaced by "Total Employment." See text.

REVIEW BY MINERAL COMMODITIES

METALS

Aluminum. - Capacity operation of the Anaconda Aluminum Co. plant at Columbia Falls, Flathead County, resulted in comparable production to that of 1969.

Antimony. - U.S. Antimony Corp. began developing a new domestic source of antimony from the Agau Mines, Inc., property in the Prospect Creek drainage near Thompson Falls, Sanders County. Construction of a mill capable of processing 1,800 tons of ore daily was completed in October. Approximately 125 tons of antimony concentrates valued at \$200,000 was produced since October when the new mill was put on stream.

Copper. - Annual production of 121,633 tons of copper was 18 percent higher than that of 1969, as The Anaconda Company stepped up operations at its Butte facilities. Higher prices and the increased production resulted in a 45-percent increase in value to \$143 million. Anaconda company mines accounted for 121,550 tons or 99.9 percent of the total copper mined in the State.

The Anaconda Company continued its program to increase production at the Butte copper operations. The capacity of the copper precipitation plant to produce precipitates for shipment to the smelter at Anaconda was doubled, and a new ore crushing-conveying system for the Berkeley pit was also installed. The ore-hauling fleet at the Berkeley pit was upgraded with the addition of fourteen 100-ton trucks, two drills, and a 15-cubic-yard shovel.

Major improvements in the copper smelter at Anaconda were begun in January. Construction of 1,200 feet of insulated steel flue to replace an obsolete flue section was the principal part of the project, which also included modernization of portions of the reverberatory furnace and converter departments.

Exploration for copper was reported 20 miles south of Troy in the area of the Bear Creek Mining Co. Spar Lake copper deposit in Lincoln and Sanders Counties. Kennecott Copper Corp. announced plans to put the Spar Lake copper deposit into production in 1971. Plans were to include construction of a 20,000-ton-per-day ore crusher and concentrator. Underground drilling and detailed geologic studies were undertaken to define the characteristics of the ore body. Phelps-Dodge Corp. entered into a preliminary work agreement with Hillside Mines, Inc., covering a copper prospect near Troy, in the general area of Kennecott's Spar Lake discovery.

<u>Gold.</u>- Most of the gold recovered during the year was byproduct gold from copper operations. Despite the increase in copper production, gold production declined 7 percent to 22,330 ounces. A \$5.63-per-ounce decrease in the average annual price resulted in a 20-percent drop in estimated value of production to \$801,000.

Iron Ore. The total iron ore production in the State was from the open-pit Iron Cross mine of R & S Iron Co. near Radersburg. Production increased 15 percent from 1969 to 15,000 long tons of ore. As in past years, the iron ore was used by the cement industry.

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

| | | | Material | ia1 or | Gold (lode | Gold (lode and placer) | Silver (lod | Silver (lode and placer) |
|--------|----------------------|------------|-------------|---|-------------------|------------------------|----------------------|--------------------------|
| Year | Mines producing | oducing | treated 2/ | ed 2/ | Troy | Value | Troy | Value |
| | | £ () | (thousand | sand tons) | onuces | (thousands) | (thousands) | (thousands) |
| | годе | Fracer | 21101 C | LO113 / | | | | ***** |
| , | į. | L | 17 | ٦) ا | 97,009 | \$875 | 5,320 | \$6,878 |
| 1966 | J.T.T | Λ k | - 0 | ,047 003 | 9.786 | 545 | 5,066 | 3,203 |
| 1967 | ָיוֹ טְּיַ קַּיִּ | 71 | `` <u>`</u> |),(),(),(),(),(),(),(),(),(),(),(),(),() | 13,385 | 525 | 2,133 | 4,574 |
| 1968 | 145 | ^ (| 2 7 | 121 | 180 180 180 | 1,004 | 3,429 | 6,141 |
| 1969 | 8 % | N CI | 18 | 18,997 | 22,333 | 801 | 4,281 | 7,767 |
| | | | | | | | | |
| | | | | ٠ | • | 7.inc | | Total |
| | - | Copper | | Lead | ad | | | 7:1 |
| Year | Short | Va | lue , | Short | (+houseands) | Short | Value (thousands) | (thousands) |
| | tons | (thous | sands) | cons | Lilousailus | | | |
| | | 7 | | 001 | \$1, 233 | 29,120 | \$8,445 | \$110,171 |
| 1966 | 128,061 | 0,00 | 600 | , 00 00 00 00 00 00 00 00 00 00 00 00 00 | 251 | 3,341 | 925 | 54,785 |
| 1967 | 65,465 | 0,000 | | 1 870 | †6† | 5,778 | 1,020 | 64,764 |
| 1968 | 69,460 | 1,00 | 10 | 1 753 | 000 | 6,143 | 1,794 | 107,679 |
| 1969 | 105,514 | 142,7 | 759 | 1,581 | 164 | 5,131 | 1,572 | 153,397 |
| 17 o V | | | | | | | i | 1 + 0.1 1.5000 |
| | | | | | 1.11/2007 | or operation) | ore milled, o | Old callings |

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

Preliminary figures. Values calculated at 1970 average New York selling price: gold, \$35.88 a troy ounce; silver, \$1.8143 a troy ounce; copper, \$0.5867 a pound; lead, \$0.15731 a pound; and zinc, \$0.15319 a pound. MID

| TABLE 4. | - | Mine | produc | tion | of | gol | d, 8 | silver | , co | opper, | lead, | and z | zinc |
|----------|---|------|---------|------|-----|------|------|--------|------|--------|--------|-------|------|
| | | iı | n 1970, | bу | mon | ths, | in | terms | of | recov | erable | metal | Ls |

| Month | Gold (troy ounces) | Silver (troy ounces) | Copper (short tons) | Lead (short tons) | Zinc (short tons) |
|--|--|---|---|---|---|
| January February March April May June July August September October November | 1,863 1,793 1,926 1,946 2,274 1,801 2,036 1,721 1,541 1,726 1,853 1,853 | 316,045 365,845 310,767 342,505 387,506 387,432 377,669 381,688 349,710 335,766 363,000 | 10,055 8,416 9,275 10,501 10,748 11,116 10,708 9,712 10,874 10,244 10,007 | 83 176 112 155 144 128 103 154 132 142 142 126 | 397 413 368 42 4 407 398 393 454 431 576 435 |
| Total | 22,333 | 4,280,933 | 121,663 | 1,581 | 5,131 |

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

| Year | Mines j | oroducir Place | and the later construction of | Material sold or treated (thousan short to | <u>1</u> / d | Gold, lode and placer (troy ounces) | Silver, lode and placer (thousand troy ounces) |
|---|---|-------------------|-------------------------------|--|-----------------|---|---|
| 1966 1967 1968 1969 1970 p/ | 5 5 6 5 4 | - - - - | | 17,503 9,041 10,089 16,022 18,906 | | 21,608 8,339 9,782 15,428 19,320 | 4,864 1,856 1,466 2,563 3,610 |
| Year | Copper (shortons | t | | (short (sl | | inc hort ons) | Total value (thousands) |
| 1966 1967 1968 1969 | 127,889 65,444 69,362 103,179 121,556 | 3 | | 2,411 64 - - | 22 | ,284 816 - W - | \$106,749 53,450 61,580 103,321 149,577 |

p/ Preliminary. W Withheld to avoid disclosing individual company confidential data.

^{1/} Does not include gravel washed.

<u>Lead.</u>- Byproduct lead from The Anaconda Company's zinc fume plant and the American Smelting and Refining Co. (Asarco) smelter at East Helena continued to supply most of the State's production. Output declined 10 percent from 1969 to 1,581 tons. Value declined only 5 percent to \$497,000 as a 0.8-cent increase in the average annual price to 15.7 cents per pound was registered.

Manganese. - Shipments from The Anaconda Company stockpile accounted for all the manganese production attributed to the State, as no manganese ore was mined in Montana during the year. Shipments of manganese, valued at \$21,000, totaled 672 tons, which was 13 percent less than that of the previous year.

<u>Silver.</u>- Byproduct silver from copper operations in the Butte area continued to be the chief source. Silver production registered a 25-percent increase, reflecting increased copper production for 1970. Total value for the year was up 26 percent to approximately \$7.8 million.

Interest in locating and developing silver deposits remained high in mining regions throughout the State. Diamond-drilling and surface exploration were conducted at the Nancy Lee mine near Superior, Mineral County. Evaluation drilling was reported on the 1,200-foot level of the Snowstorm mine near Troy, Lincoln County, and at the Mascot Silver-Lead Mines, Inc., Meadow mine in Jefferson County.

Sierra Silver Mining Co. explored the No. l vein of the Cadgie Taylor property near Philipsburg. Golden Eagle Mining Co. made its first shipment of ore from the Hi Tariff mine in the Remini mining district west of Helena. Midnight Mines, Inc., made shipments from its Polaris mine in Beaverhead County to the Anaconda smelter.

Tungsten. - No tungsten production was reported in the State during the year. Asarco completed exploration drilling for tungsten and molybdenum on claims near Goat Creek about 6 miles northeast of Thompson Falls in Sanders County.

Zinc. - Output was derived from both byproduct production from copper mining operations and various small lead-zinc-silver operations. Production dropped 16 percent from the 1969 total to 5,131 tons. The Anaconda Company zinc refinery at Great Falls reduced production from domestic and foreign ores about 12 percent in July because of heavy inventories of slab zinc and lessening demand. The lower output also resulted in a 12-percent decline in value to \$1,572,000.

NONMETALS

Cement. - The quantity and value of portland cement shipments declined 27 percent below the 1969 figures. The decline largely was due to less cement used in the concrete pour at Libby Dam. Production was by Kaiser Cement & Gypsum Corp. at Montana City and by Ideal Basic Industries, Inc., at Trident.

To meet necessary environmental control, increase efficiency, and boost production capacity 12 percent at the Trident plant, Ideal Basic Industries, Inc., announced plans to replace four small kilns, currently in operation, by a large single kiln. The changes along with other improvements, estimated to cost about \$10 million, were expected to be completed by mid-1973.

<u>Clays.</u>- Output of common clays and shale for use in making building products declined an estimated 9 percent due to adverse economic conditions affecting the market for clay products. Bentonite production advanced 4 percent over the 1969 total.

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

Ashland Oil, Inc., sold its bentonite processing plant, under construction at Glasgow, and its northeastern Montana bentonite reserves to Federal Bentonite Co. The plant, linked to the Great Northern Railway by an 18-mile spur, was being constructed to process bentonitic clay from reserves delimited in the area during the 1950's. The Montana plant, which made Federal Bentonite Co. potentially one of the larger suppliers of clay binders to the iron ore pelletizing industry, was scheduled to start operations in 1971.

Beds of bentonite within the Bearpaw Shale, exposed in the Ingomar-Vananda area in Treasure and Rosebud Counties, were described in a report $\underline{1}/.$

Fluorspar. - Roberts Mining Co. continued producing fluorspar at the Crystal Mountain mine in Ravalli County. The ore was trucked 26 miles to the firm's heavy-media separation mill at Darby for processing; metallurgical-grade fluorspar from the milling operation was shipped to industrial consumers.

Gypsum. - The estimated production of gypsum declined 27 percent from the 1969 total. The Shoemaker mine, Fergus County, of United States Gypsum Co., continued to be the source of gypsum.

Lime. - Lime output declined an estimated 11 percent from the 1969 total. The Anaconda Company made quicklime in Deer Lodge County for metallurgical use and for water treatment in tailing disposal systems at its own operations. Sugar companies calcined limestone to quicklime for use in sugar refining in Big Horn, Richland, and Yellowstone Counties.

Berg, Richard B. Bentonite Deposits in the Ingomar-Vananda Area, Treasure and Rosebud Counties, Montana. Montana Bureau of Mines and Geology Spec. Publ. 51, September 1970.

Phosphate Rock. - Output of marketable phosphate rock continued to decline, falling an estimated 38 percent below the 1969 total, largely from effects of continued weakening of the fertilizer market. 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. The weakened fertilizer market made phasing out and curtailment of operations necessary by Cominco American, Inc., at the Anderson and Warm Springs sections of the Brock mine. The firm centered all phosphate mining operations at the Brock mine proper at Garrison.

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

Rocky Mountain Phosphates, Inc., operating a phosphate-rock defluorinating plant at Garrison, was involved in its seventh year of varied litigations over alleged responsibility by the firm for air pollution at the Garrison plant.

Phosphorus, the major resource of Permian rocks of southwest Montana, along with the distribution of fluorine, uranium, oil shale, and several other elements, was the subject of a report 2/.

Sand and Gravel and Stone. - Combined output of sand and gravel and stone was estimated at 22 million tons valued at \$22.5 million, a decline of 9 percent from the 1969 production. There was less use of sand and gravel and stone in highway construction and at the Libby Dam project on the Kootenai River in northwestern Montana, one of the larger construction projects in the Pacific Northwest.

<u>Sulfur.</u>- Output of high-purity elemental sulfur declined compared with the 1969 total. Sulfur was recovered by Montana Sulphur & Chemical Co. from hydrogen sulfide gas byproducts obtained from two oil-refining operations at Billings, and by Farmers Union Central Exchange from a recovery system that was contingent upon byproduct hydrogen sulfide gas received at its oil-refining operation at Laurel.

Talc.- Talc output did not change appreciably from the 1969 total. Production from mines in Beaverhead and Madison Counties by Chas. Pfizer & Co., Inc., was ground and sized by the firm at Barratts, Beaverhead County. Output from mines in Madison County by United Sierra Division of Cyprus Mines Corp. was processed at a company grinding plant at Three Forks; some was shipped out-of-State for processing at grinding plants in Nebraska and California.

Vermiculite. There was no significant change in vermiculite output from the 1969 total. The open-pit mine near Libby, Lincoln County, of Zonolite Division, W.R. Grace & Co., continued to be the principal source of vermiculite in the United States. The transfer point at the mine site, the receiving and distributing site for ore and waste products, was revamped to more effectively utilize a conveyor transporting system. The firm continued research directed toward recovering asbestos as a byproduct at the vermiculite operation.

Swanson, Roger W. Mineral Resources in Permian Rocks of Southwest Montana. U.S. Geol. Survey Prof. Paper 313-E, pp. 661-777, 1970.

MINERAL FUELS

Coal. Output of bituminous coal and lignite increased an estimated 69 percent above the 1969 production. The increase continued to be due to expansion of coal-mining facilities at Colstrip, Rosebud County, by Western Energy Co. and by Peabody Coal Co. Western Energy Co. furnished coal to the coal-fired steam-electric generating plant of Montana Power Co. at Billings. Under terms of a 6-year contract, the company began shipping ½ million tons of coal annually to Northern States Power Co., Minneapolis, Minn. Peabody Coal Co. supplied coal to the Minnesota Power & Light Co. steam-generating plant at Cohasset, Minn. Richland County was the major source of lignite, which was mined by Knife River Coal Mining Co. for use at the Montana-Dakota Utilities Co. coal-fired steam-electric generating plant at Sidney. Montana-Dakota Utilities announced construction at Miles City, Custer County, of a 20-megawatt natural gas-fired steam-electric generating plant, to be operational by May 1972. The plant was to burn natural gas received from a Montana-Dakota Utilities high-pressure transmission line between Baker, Fallon County, and Worland, Wyo.

Pacific Power & Light Co. signed an agreement with Rosebud Coal Sales Co. for mining and marketing 5 million tons of coal annually from southeastern Montana coal deposits near Decker, Big Horn County. The cooperative project was established to furnish coal for use in coal-fired steam-electric generating plants in the Midwest and Rocky Mountain States. A 60,000-ton shipment of coal mined from a pit at the Decker coal field was tested in Illinois at Commonwealth Edison Co. steam generating plants.

A legislative committee considered the feasibility and legality of a proposal for transporting coal slurry by pipeline over 700 miles from Colstrip to Midwest terminals.

Reconnaissance of coal resources in McCone County by drilling 17 holes and taking five core samples resulted in delimiting two strippable coal deposits $\underline{3}/.$

Petroleum and Natural Gas. - Estimated recovery of crude oil declined 15 percent from 44 million barrels in 1969 to 37.6 million barrels valued at \$103.7 million. The Bell Creek field in the Powder River basin continued to be the greatest source of petroleum; by October, over 6 million barrels of crude oil was produced from the field.

Marketed production of natural gas increased 13 percent to 46.7 billion cubic feet valued at \$4.9 million. Bell Creek field was the largest source of natural gas, followed by the Cut Bank field. Development of natural gas reserves in the Tiger Ridge gas field, discovered in 1967 by High Crest Oils, Inc., continued to await an outlet to major markets. Northern Natural Gas Co. contracted with field developers for natural gas reserves in Tiger Ridge field.

Matson, Robert E. Preliminary Report, Strippable Coal Resources, McCone County, Montana. Montana Bureau of Mines and Geology Bulletin 78, 1970, 13 pp.

The National Energy Board of Canada rejected an application by the firm for constructing a gas-transmission line from Alberta, Canada, to Minnesota that included a spur line, along with necessary compressor facilities, to the Montana field. The rejected application thereby curtailed any immediate plans for an outlet from the Tiger Ridge natural gas source.

Exploration drilling activities in northwestern and eastern Montana were described $\frac{4}{5}$ $\frac{6}{6}$.

Geologic structure, surface features, stratigraphic sequence of rock units, and other features related to mining and petroleum exploration and development were subjects of reports $\frac{7}{8}$ $\frac{8}{10}$.

This report summarizes mineral industry activity in Montana in 1970 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.

McCaslin, John C. The Red River Flows New Hope for Oil Hunters in Three-State Area. The Oil and Gas Journal, v. 68, No. 42, Oct. 19, 1970, p. 117.

McCaslin, John C. Wildcatters Trying Again at the Doorstep of the Montana Rockies. The Oil and Gas Journal, v. 68, No. 46, Nov. 16, 1970, p. 203.

^{6/} Kinnard, John C. Wyoming's Central Williston Basin Activity Spills Into Saskatchewan. The Oil and Gas Journal, v. 68, No. 30, July 27, 1970, pp. 160-166.

Montana Bureau of Mines and Geology Spec. Publ. 50, May 1970, 24 pp.

^{8/} Botz, M.K. Conversion of Section-Township-Range to Latitude-Longitude -- A Computer Technique. Montana Bureau of Mines and Geology Spec. Publ. 48, 1969, 15 pp.

^{9/} Botz, M.K. Hydrogeology of the Upper Silver Bow Creek Drainage Area, Montana. Montana Bureau of Mines and Geology Bulletin 75, 1969, 32 pp.

^{10/} Fraser, G.D., H.A. Waldrop, and H.J. Hyden. Geology of the Gardiner Area, Park County, Montana. U.S. Geol. Survey Bulletin 1277, 1969, 118 pp.

SUPPLEMENTAL LIST OF MINING ENTERPRISES

This list includes mining enterprises that have been inactive up to three years or 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 COU | YTY | | HILL COUNTY |
|--|--------------|--------------|---------------------------------------|
| | | 1970 | Rocky Boy quartz deposit I 1969 |
| Burgierosa Canyon Creek and East LaMa | | 1370 | Rooky Doy quartz aspess |
| Canyon Cleek and East Laine | I | 1970 | JEFFERSON COUNTY |
| Capitol (Cave Gulch) | | 1969 | Camp Owen I 1969 |
| Coolidge | | | Camp C wen |
| Coonage | | | dood energ |
| BLAINE COUNT | Y | | King Solomon I 1969 |
| Peter Kiewit Sons pit | I | 1969 | LIBERTY COUNTY |
| 1 | | | Sweetgrass I 1969 |
| BROADWATER COU | INTY | | Sweetglass |
| Gold Bug and Mary Rose | I | 1969 | MADISON COUNTY |
| Gold Bug and Mary Rose | ı | 1707 | T 10/0 |
| CARBON COUNT | Ϋ́ | | Mistake I 1969 Silver Queen I 1970 |
| 0/1/2011 00 01.12 | | | Silver Queen I 1970 |
| Brophy | | 1969 | MISSOULA COUNTY |
| Carbon Series pits | | 1969 | MIDDOOM OCCUR |
| Daisy | | 1969 1969 | LaChambre placer I 1969 |
| Roadside | 1 | 1909 | · |
| DEER LODGE COU | INTY | | PARK COUNTY |
| DEEK LODGE COC | 1111 | | Crown Butte and Melissa U 1969 |
| Ruby | I | 1969 | |
| DED GLIQ GOLD II | D % Z | | PHILLIPS COUNTY |
| FERGUS COUNT | ΙΥ | | Little Rock No. 1 pit I 1969 |
| Montago | I | 1969 | Little Rock No. 1 pit I 1969 |
| S | | | POWELL COUNTY |
| GRANITE COUN | ITY | | 0.40 |
| Algonquin | Ţ | 1969 | Charter Oak I 1969 |
| Algonquin Bi-Metallic | | 1969 | ON AUTO DOW COLINEY |
| Carlin-One Dollar | | 1969 | SILVER BOW COUNTY |
| Carter Hall | | 1969 | Maiden Rock I 1969 |
| Cliff Millsite manganese | | 1969 | |
| Douglas Creek | I | 1969 | TOOLE COUNTY |
| Granite tailings | I | 1969 | Gold Butte I 1969 |
| Hawkeye | I | 1969 | Gold Butte I 1969 |
| Hobo | 1 | 1969 | |
| Hope tailings | I | 1969 | |
| Mountain Boy | I | 1969 | |
| Myers quartz | I | | · |
| Powell | I | | |
| Sally Ellen | I | | |
| Sunset placer | I | | |
| True Fissure manganese | I | 1969 | |

LIST OF NEW MINING COMPANIES INCORPORATED IN MONTANA IN 1970

ARGO, INC.

Helena (December 29, 1970)

Walter H. Bolkovatz

Box 1691, Helena, MT 59601

THE BEST CORPORATION

Butte (April 23, 1970)

Arthur E. Benson

1000 California Street, Butte, MT 59701

BIG SKY SAND AND GRAVEL, INC.

Choteau (March 13, 1970)

Richard L. Headington

Box 779, Choteau, MT 59422

BROAD GAUGE MINE, INC.

Sheridan (November 18, 1970)

Robert L. Holladay

302 Mill Street, Sheridan, MT 59749

CROSS MINING CORPORATION

Superior (October 24, 1969)

George E. Casler

510 Diamond Rd., Superior, MT 59872

THE 5 PARTNERS MINING COMPANY

Billings (December 16, 1969)

A. L. Rankin

716 N. 29th Street, Billings, MT 59101

GOLD AND SILVER CORPORATION OF AMERICA

Virginia City (December 30, 1969)

Chester L. Jones, Esq.

Virginia City, MT 59755

HIDDEN HAND MINING, INC.

Helena (January 30, 1970)

Walter H. Bolkovatz

27 Edwards Street, Helena, MT 59601

HI-TARIFF SILVER, INC.

Helena (October 22, 1969)

A. L. Libra

27 Edwards Street, Helena, MT 59601

JOHNSTON-REID, INC.

Butte (April 20, 1970)

George W. Richardson

215 Medical Arts Bldg., Butte, MT 59701

LAST CHANCE SILVER GOLD MINING CO.

Helena (September 14, 1970)

Inar Norgaard

Box 544, Helena, MT 59601

MONTANA NUCLEAR CORPORATION

Billings (December 8, 1969)

James L. Sandall

2501 - 4th Avenue N., Billings, MT 59101

MONTIDA SILVER, INC.

Hamilton (December 16, 1969)

Gerald D. Schultz

172 S. 3d Street, Hamilton, MT 59840

PHILIPSBURG SILVER & TUNGSTEN MINES, INC.

Philipsburg (November 3, 1969)

Richard C. Tunstill

Box H, Philipsburg, MT 59858

REGALA MINING COMPANY

Missoula (January 15, 1970)

E. W. Thomas

118 E. Broadway, Missoula, MT 59801

REUSTACO CORPORATION

White Sulphur Springs (November 19, 1970)

Richard J. Conklin

15 W. Main, White Sulphur Springs, MT 59645

VICTOR CURLEW MINING COMPANY

Helena (October 13, 1970)

John H. Risken

415 Power Block, Box 225, Helena, MT 59601

WEGENER ENTERPRISES, INC.

Butte (February 13, 1970)

Robert A. Poore

400 Silver Bow Block, Butte, MT 59701

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 4. Bannack
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- Beaverhead
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 (Mulchy Creek)
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 Bloody Dick
 (Beaverhead)
 Blue Wing
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 Mount Torrey
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 (Apex)
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- (Lost Cloud) Ruby 25.
- Saginaw (Jackson) 26. Utopia (Birch Creek)
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 Lone Mountain
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41. Neihart (Montana)

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 43. French Gulch
 44. Georgetown
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 (Cable)
 45. Girard
 46. Heber
 (Mill Creek)
 47. Lost Creek
 (Dry Gulch)
 (Antelope Creek)
 48. Ore Fino

 - (Dry Cottonwood)

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