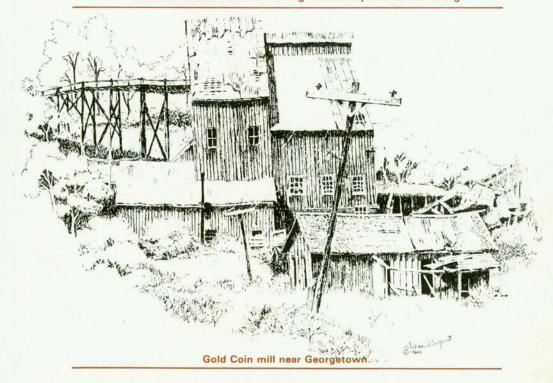
M B M G



## DIRECTORY OF MONTANA MINING ENTERPRISES FOR 1984

compiled by D. C. Lawson

with a section on the Elk Creek-Coloma mining district by Richard B. Berg



Bulletin 122 1985

Montana Bureau of Mines and Geology
A Department of
Montana College of Mineral Science and Technology

### 753 (4.74)

Apply 1 to the control of the first of the control of the control

And A. Committee of the control of the

#### **Bulletin 122**



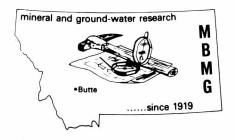
## DIRECTORY OF MONTANA MINING ENTERPRISES FOR 1984

compiled by

D. C. Lawson

## with a section on the Elk Creek-Coloma mining district

by Richard B. Berg



#### **Contents**

PREFACE	
FOREWORD	iv
PART I—METAL MINES	
Antimony	. 1
Gold, silver, copper, lead, zinc	. 1
Iron	
Molybdenum	17
Titanium	
Tungsten	18
Uranium	
Placer	
PART 2—NONMETAL MINES, PITS AND QUARRIES	22
Barite	22
Bentonite	22
Chlorite	22
Clay	22
Fluorspar	23
Graphite	23
Gypsum	23
Limestone	
Phosphate	24
Sapphire	24
Semiprecious stones	24
Shale	
Silica	24
Soil conditioners	
Stone	
Talc	
Vermiculite	26
PART 3-COAL MINES	27
DRILL-CORE REPOSITORY	
MINE INSPECTION LAW	
THE ELK CREEK-COLOMA MINING DISTRICT	
Figure 1—Index maps showing locations of Elk Creek and Coloma	30
Figure 2—Generalized geologic map of the Elk Creek-Coloma district	. 32
Figure 3—Veins at Coloma	. 35
Figure 4—Sketch of Elk Creek barite vein exposed in cut	.36
References	42
APPENDIX	
Table 1—Nonfuel mineral production in Montana	44
List 1—Major Montana exploration projects	45
List 2—Supplemental list of mining enterprises	46
List 3— Mining districts	47
List 4— Strippable subbituminous and lignite coal fields	49
List 5—New mining companies incorporated in Montana in 1983	. 51
INDEX	
	. 33
Sheet	

Distribution of mining districts and strippable coal fields in Montana .... (back pocket)

#### **Preface**

Each year the Bureau Staff Field Agent visits many mining properties in Montana under the Title III Aid to Small Miners Program and the long-established Bureau Small Mines Program. With the tremendously accelerated mineral activities in the State, however, it is impossible to visit all properties during the year, and therefore information is requested by mail from mine operators and owners relating to their mining activities. The responses to this canvassing and to personal interviews are then compiled and published annually in the Directory of Montana Mining Enterprises.

Mining enterprises are listed, by counties, either under *Metal Mines, Nonmetal Mines, Pits and Quarries* or *Coal Mines*. Within the counties, the properties are listed alphabetically, and contain the type of ore or mineral produced; mining district and location of the property based on legal subdivisions of land survey; owners' and operators' names and addresses; mill capacity; and the number of employees. The yearly status is also outlined, i.e., whether the property produced ore during the year; is still producing; developed ore without producing; did exploration work; or remained totally inactive. To facilitate use of the Directory, an index of mines, mine owners and operators is included at the back. Also included is a list entitled *Major Montana Exploration Projects*.

The map in the back pocket includes township and range lines to facilitate locating the area in which a mine or group of claims is located. Also, the Directory entries include the mining district index number in [brackets], which will allow one quickly to locate the district on the map.

The Directory contains a supplemental list of mines that have previously been listed as active but have been inactive over three continuous years. Mines inactive for a period of six consecutive years have been dropped entirely from the Directory.

The compiler wishes to thank the many Montana mine owners and operators for allowing information on their activities to be published. 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 potential. 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 cases, the missing data have been supplied from the best sources available.

For their contributions to the Directory, special acknowledgements are due W. L. Rice, U.S. Bureau of Mines, who provided the *Foreword* on the mineral industry of Montana in 1984, and to Richard B. Berg, who contributed the section on the Elk Creek-Coloma mining district. This feature is the fifth of such articles on selected mining areas within the State, and we hope to continue these profiles in forthcoming directories.

If any additional facts or corrections are known, please submit such information to D. C. Lawson, Montana Bureau of Mines and Geology, Butte, Montana 59701, phone 406/496-4171.

The abbreviations and symbols used throughout the Directory are: (sec.), section; (T.), township; (R.), range; (t/d), tons per day; (t/hr), tons per hour; (t/y), tons per year; (g/d), gallons per day; (y/hr), yards per hour; (\*), openpit; (\*\*), openpit and underground.

D. C. Lawson
Staff Field Agent
Montana Bureau of Mines and Geology

Butte March 5, 1985

#### **Foreword**

The estimated value of nonfuel mineral production in Montana for 1984 was \$248 million, a decrease of 15 percent from that recorded in 1983, according to the Bureau of Mines, U.S. Department of the Interior. The most significant losses were in copper and silver production, although a substantial gain was made in the production of gold. Metallic minerals accounted for 60 percent of the State's total production value for 1984.

ASARCO Inc. maintained silver and copper production from the Troy mine near Libby. Pegasus Gold Ltd. produced gold and silver at its Zortman and Landusky heap leaching operation in Phillips County; Pegasus' acquisition of Meridian Land and Minerals Company claims added substantially to their ore reserves and mine life. Placer U.S. Inc. concluded the first full year of gold production from the 5,000-ton-per-day Golden Sunlight mine near Whitehall. The Black Pine mine continued to produce low-grade silver ore, which was processed in Contact Mining Company's 1,000-ton-per-day mill at Philipsburg. Judith Gold Corporation and Golden Maple Mining and Leaching Company produced gold from heap leach operations at Kendall and Giltedge, respectively. Companies announcing plans for gold and silver mining operations included Homestake Mining Company at Jardine, CoCa Mines Inc. near Polson, Pegasus Gold at the Beal property in German Gulch, and the Centennial Minerals-U.S. Minerals Exploration Montana Tunnels joint venture, near Wickes.

Exploration and development activity dropped below the level of 1983, although progress was made on several significant projects. Asarco submitted a plan of operations for a 10,000-ton-per-day underground mine at the Rock Creek silver-copper deposit in the Cabinet Mountains Wilderness, Sanders County; U.S. Borax & Chemical Corporation continued exploration on adjoining claims. The Anaconda Minerals Company-Manville Corporation-Chevron joint venture continued a feasibility study for a platinum group minerals operation in the Stillwater Complex. Plexus Resources Corporation completed drilling at its New World gold property, Park County. In the Marysville gold district, AMAX Exploration Inc. and Gulf Titanium Ltd. were active at the Cruse-Belmont property, and the Consolidated Paymaster Resources Ltd.-Goldsil Mining and Milling Inc. joint venture drilled at the Drumlummon mine. Aries Resources explored for silver and base metals west of Butte on property leased from The Anaconda Minerals Company. Lee Mining Corporation explored for silver near Walkerville, and for gold at the Southern Cross mine west of Anaconda.

Industrial minerals production continued at about the same level as in 1983. Montana Barite Company operated mines at Elk Creek and Coloma, and began mining the Kenelty deposit near Libby. Stauffer Chemical Company reactivated a shutdown furnace at its Silver Bow elemental phosphorus plant. Aurora Industries Inc. sold its Federal Bentonite Division to IMCO Services; affected was an active bentonite mine in Valley County. Nicor Mineral Ventures announced plans for a \$10 million open-pit talc mine and processing plant.

W. L. Rice
State Liaison Officer
U.S. Bureau of Mines

Spokane January 28, 1985

## Part I—Metal Mines ANTIMONY MINES

Ravalli County: Hamilton 59840

\*DOMINIC GROUP Antimony Sec. 35, T. 7 N., R. 19 W. Owner-Operator: Betty Lykins

Box 181, 300 S. 9th, Hamilton MT 59840

Status: Developing

#### Sanders County: Thompson Falls 59873

BABBIT MINE Antimony Prospect Creek dist. [174], 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: 12

Mill capacity: 250 t/d, refinery and electrolytic plant Smelter: High-purity antimony, battery-grade antimony, antimony trioxide, sodium antimonate

Status: Producing

#### GOLD, SILVER, COPPER, LEAD AND ZINC MINES

#### Beaverhead County: Dillon 59725

AJAX MINE Gold, silver, lead Sec. 7, T. 6 S., R. 17 W. Owner-Operator: Ajax Gold, Inc. Willow Creek Rd., Corvallis MT 59828

Mill capacity: 50 t/d Status: Inactive

BURGIEROSA MINE Silver, lead, copper Vipond Park dist. [27], sec. 34, 35, T. 1 S., R. 11 W. Owner-Operator: Burgierosa Silver Mines, Inc. P.O. Box 65, Genoa City WI 53128

Employees: 2 Status: Developing

BUSTER MINE Silver, gold, lead, copper, zinc Birch Creek dist. [26], sec. 17, 18, 19, 20, T. 5 S., R. 10 W. Owner-Operator: Ken Langstaff 5200 Argenta Rd., Dillon MT 59725

Status: Inactive

ERMONT MINES Copper, silver, gold Dillon dist. [12], sec. 35, T. 6 S., R. 11 W. Operator: CSC of Montana, Inc. 301 1st National Bank Building, Box 1715, Helena MT 59624
Owner: Overland Gold Corp.

Owner: Overland Gold Corp. STE 451 400 Jefferson Building,

Spokane WA 99204 Status: Developing FAITHFUL LODE Silver, lead

Vipond Park dist. [27], sec. 3, T. 1 S., R. 11 W.

Owner-Operator: Lively Mining, Inc. Box 96, Melrose MT 59743

Status: Inactive

FERDINAND MINE Lead, zinc, silver Argenta dist. [2], sec. 29, T. 6 S., R. 10 W. Owner-Operator: Rudy and Nels Nygren 4700 Argenta Rd., Dillon MT 59725

Status: Inactive

GOLDEN DAWN MINE Gold, silver Argenta dist. [2], SE¼ sec. 24, T. 6 S., R. 11 W. Owner-Operator: Dan A. MacDonald 7200 Argenta Road, Dillon MT 59725

Status: Developing

\*GRASS HOPPER CLAIMS NO. 1 Gold, silver, lead Bannack dist. [4], sec. 9, T. 8 S., R. 11 W. Owner-Operator: Martin L. Belus 35021 W.V.H., Algona WA 98002

Status: Developing

\*\*GRASSHOPPER M

\*\*GRASSHOPPER MINE Gold
Bannack dist. [4], sec. 8, T. 8 S., R. 11 W.
Operator: R. A. Hanson Mining Co.
N. 8700 Crestline, Spokane WA 99207
Owner: Hanson Properties, Inc.
N. 8700 Crestline, Spokane WA 99207

Status: Exploration

#### Beaverhead County (continued)

HAND MINE Gold, silver, lead

Argenta dist. [2],

NW1/4 NW1/4 sec. 29, T. 6 S., R. 10 W.

Operator: William M. Hand 30 S. Arizona, Dillon MT 59725

Owner: Hand Mine

P.O. Box 1298, Dillon MT 59725

Status: Inactive

\*LAMPLIGHTER GROUP Silver, copper

Vipond Park dist. [27],

sec. 29 (unsurveyed), T. 2 S., R. 11 W.

Owner-Operator: Roy Hoekema and Arthur Semsak Box 180, Sultan WA 98294

Status: Developing

LAST CHANCE GROUP Gold

Vipond Park dist. [27], sec. 9, T. 2 S., R. 11 W.

Owner-Operator: Harvey Allan

Route 1, Box, 95, Sheridan MT 59749

Status: Developing

\*\*LUCKY STRIKE MINE Gold, silver, copper Horse Prairie dist. [14], sec. 14, T. 11 S., R. 13 W.

Owner-Operator: Owen Adams Box A, Teasdale UT 84773

Status: Unknown

MAYDAY MINE Gold, silver, lead

Argenta dist. [2], sec. 7, T. 6 S., R. 10 W. Owner-Operator: Rudy and Nels Nygren

4700 Argenta Rd., Dillon MT 59725

Status: Inactive

POLARIS MINE Silver

Polaris (Lost Cloud) dist. [23], sec. 28, T. 5 S., R. 12 W.

Owner-Operator: Midnite Mines, Inc.

15600 Redmond Way, Redmond WA 98052

Status: Inactive

\*\*SATA MAIRA RAINBOW GROUP Copper,

silver, lead, tungsten

Utopia dist. [26], sec. 21, 27, 28, T. 5 S., R. 10 W.

Owner-Operator: J. V. Brady and Harold Reid

Box 3, Moise MT 59824

Status: Developing

SILVER RIDGE GROUP Silver, molybdenum, tungsten

Sec. 26, T. 5 S., R. 17 W. Operator: S & S Diversified

Ted Siaperias, General Manager Box 4123, Pocatello ID 83201

Owner: Florence Coates and others P.O. Box 368, Mullan ID 83846

Employees: 8

Status: Developing

SYLVIA AND SYLVIA EXTENSION MINE Gold,

lead, silver

Argenta dist. [2], sec. 13, 24, T. 6 S., R. 10, 11 W.

Owner-Operator: Rudy and Nels Nygren 4700 Argenta Rd., Dillon MT 59725

Status: Inactive

THUNDERBIRD GROUP Silver, tungsten,

molybdenum

Elkhorn dist. [13],

sec. 14, 15, 22, 23, T. 4 S., R. 12 W.

Owner-Operator: Thunderbird Resources

Don L. Jenkins, President

P.O. Box 506, Corvallis MT 59828

Status: Exploration

\*\*TIGER GROUP Silver, tungsten, lead, zinc,

copper

Elkhorn dist. [13],

sec. 13, 14, 15, 22, 23, 26, 27, T. 4 S., R. 12 W.

Owner-Operator: Don L. Jenkins P.O. Box 506, Corvallis MT 59828

Status: Exploration

VIRGINIA GULCH MINE Gold, silver

Argenta dist. [2], sec. 15, T. 6 S., R. 11 W. Owner-Operator: Kenneth Langstaff

125 Grey Wolf Drive, Ronan, MT 59864

Employees: 1

Status: Developing

WAPITA MINE Lead, silver

Argenta dist. [2], sec. 22, 24, T. 6 S., R. 11 W.

Owner-Operator: Rudy and Nels Nygren

4700 Argenta Rd., Dillon MT 59725

Status: Developing

YELLOWBAND GROUP Gold, silver

Argenta dist. [2], sec. 1, 2, 11, T. 6 S., R. 11 W.

Operator: Nelson Associates

3926 Bellecrest, Missoula MT 59801

Owner: E. E. Nelson, 3926 Bellecrest, Missoula MT 59801; Carl Shafer et al., Dillon, MT 59725

Employees: 4

Status: Developing

#### **Broadwater County: Townsend 59644**

BLUEBELL GROUP Copper, silver, gold, lead, zinc Hassel dist. [35], sec. 1, T. 6 N., R. 1 W.;

sec. 32, T. 7 N., R. 1 E. Owner-Operator: Nila Tyrrel Box 211, Kirkwood IL 61447

Status: Developing

\*CHAR TAM MINE Gold, silver, lead

Winston dist. [37], sec. 13, T. 8 N., R. 1 W.

Owner-Operator: Don Holmes

409 Cherry St., Townsend MT 59644

Employees: 2

Status: Producing, developing

#### **Broadwater County (continued)**

CROSS MINE Lead, zinc, gold, silver
Park dist. [35], sec. 20, 21, T. 7 N., R. 1 W.
Owner-Operator: L. W. Doggett, C. Kokoruda and
F. Beniger

810 Breckenridge, Helena MT 59601

Status: Inactive

CUSTER MINE Gold

Winston dist. [37], sec. 13, T. 8 N., R. 1 W. Owner-Operator: West Gate Mining and

Construction

U.S. Route 19 North, R.D. 13, Box 101,

Morgantown WV 26505 Mill capacity: 250 t/d

Status: Inactive

DIAMOND HILL MINE Gold, tungsten Hassel dist. [35], sec. 36, T. 7 N., R. 1 W.

Owner-Operator: Mrs. Palmer Engh Box 231, Townsend MT 59644

Mill capacity: 10 t/d Status: Developing

EAST PACIFIC MINE Gold, silver, lead Winston dist. [37], sec. 26, T. 8 N., R. 1 W.

Operator: Herb Carver (care taker)

Winston MT 59647

Owner: East Pacific Mining Co., c/o Bill Cullen, 1306 Washington, Mutual Bldg., Spokane WA 99201

Mill capacity: 40 t/d Status: Inactive

EDNA MINE Gold, silver

Winston dist. [37], sec. 13, T. 7 N., R. 1 W.

Operator: Don Holmes

Route 1, Box 138, Townsend MT 59644

Owner: Bob Cobben Winston MT 59647 Status: Developing

\*\*GRANITE HILL NO. 1 AND NO. 2 Ox Tree mill

North Fork-Deep Creek dist. [31], sec. 35, 36, T. 8 N., R. 4 E.

Owner-Operator: Arnold J. Kolberg R.R. 1, Box 57, Toston MT 59643

Employees: 2 Status: Developing

HARD CASH MINE Gold

Cedar Plains dist. [36], sec. 10, 11, T. 5 N., R. 1 W.

Operator: Dennis Miller Radersburg MT 59641 Owner: Jim Forkner

6037 N. Van Hess Blvd., Fresno CA 93705

Status: Inactive

IRON AGE GROUP Gold

Winston dist. [37], sec. 13, 24, T. 7 N., R. 1 W.

Operator: Don Holmes

Route 1, Box 138, Townsend MT 59644

Owner: Mrs. Gwendlyn Couch Johnson and others 2875 Westwood Lane No. 2

Carmichael CA 95608 Status: Developing \*\*KOLBERG EUREKA LEAD NO. 1 Silver, lead,

Eureka dist., sec. 20, T. 7 N., R. 1 W. Owner-Operator: Arnold J. Kolberg R.R. 1. Box 57. Toston MT 59643

Employees: 2 Status: Developing

KOLBERG MILL Free milling (Preferred)
Toston Flat dist., sec. 5, T. 4 N., R. 2 E.
Owner-Operator: Arnold J. Kolberg
R.R. 1, Box 57, Toston MT 59643

Mill capacity: 40 t/d

Employees: 3

LITTLE GIANT Gold, silver

Sec. 1, 2, 35, 36, T. 6 N., R. 1 W.

Operator: Dennis R. Miller

Route 1, Box 25-A, Toston MT 59643 Owner: Radersburg Mining Company 4344 IDS Center, Minneapolis MN 55402

Employees: 2 Status: Developing

MAPLES AND BRIDGTON GROUP Gold, silver Winston dist. [37], sec. 24, T. 7 N., R. 1 W.

Owner-Operator: Don Holmes

Route 1, Box 138, Townsend MT 59644

Status: Developing

SILVER DIKE GROUP Gold, silver

Cedar Plains dist. [36], sec. 4, T. 7 N., R. 1 W.

Operator: Don Holmes

409 Cherry St., Townsend MT 59644 Owner: Mary Ann Miller and Don Holmes Box 748, Townsend MT 59644

Employees: 2 Status: Produced

SKY MINE Gold, silver

Cedar Plains dist. [36], sec. 10, 15, T. 6 N., R. 1 W.

Operator: Don Holmes

409 Cherry St., Townsend MT 59644 Owner: Mary Ann Miller and Don Holmes Route 1, Box 138, Townsend MT 59644

Status: Developing

STOLEN SWEETS MINE Gold, silver

Winston dist. [37], sec. 24, T. 7 N., R. 1 W.

Operator: Don Holmes

409 N. Cherry St., Townsend MT 59644

Owner: Ed Sewell

6314 Laurel Canyon Blvd., N. Hollywood CA 91606

Status: Inactive

\*\*SLIM SAM GROUP Lead, silver, gold

Radersburg dist. [36],

sec. 19, 20, 29, 30, T. 6 N., R. 1 W. Owner-Operator: Art Roberts

Box 65, Radersburg MT 59641

Status: Inactive

#### **Broadwater County (continued)**

\*\*VALLEY VIEW MINE Gold, silver, lead, zinc Park (Indian Creek) dist. [35].

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

sec. 24, T. 7 N., R. 1 W.

Status: Inactive

VULTURE MINE Lead, silver Park dist. [35], sec. 8, T. 7 N., R. 1 W. Owner-Operator: Dr. Raymond G. Bayles Box 55, Townsend MT 59644

Status: Developing

#### Cascade County: Great Falls 59401

CHAMPION B. MINE Silver, lead, zinc Neihart dist. [41], unsurv., sec. 29, T. 14 N., R. 8 E. Owner-Operator: Marvin E. Corkill

Box 403, White Sulphur Springs MT 59645

Status: Inactive

FLORENCE and QUEEN MINE Silver, lead, zinc Neihart dist. [41], sec. 29, 30, 31, 32, T. 14 N., R. 8 E. Operator: Hecla Mining Co., Gordon Waldo, Mgr., New Mines, Box 220, Wallace ID 83873 Owner: The Monarch Co., Carroll R. Bennett

Box 2267, Great Falls MT 59401 Status: Exploration, inactive

MOULTON MINE

Silver, lead, zinc
Neihart dist. [41], sec. 29, 32, unsurv., T. 14 N., R. 8 E.
Operator: West Gate Mining and Construction
U.S. Route 19 North, R.D. 13, Box 101,

Morgantown WV 26505 Owner: Peter J. Antonioli Estate 1001 W. Gold, Butte MT 59701

Status: Inactive

\*\*PONDEROSA 102 and 102A MINE Gold, silver, lead, zinc, copper
Neihart dist. [41], sec. 15, T. 14 N., R. 8 E.
Operator: Morgan Enterprises, Inc.
Mike Morgan, Pres., c/o MED-PRO
P. O. Box 53, Virginia City MT 59755
Owner: James M. Morgan
P.O. Box 15, Neihart MT 59465

Employees: 2 Status: Developing

\*SILVER DYKE MINE Silver, lead, zinc Neihart dist. [41], sec. 10, T. 14 N., R. 8 E. Owner-Operator: Peter J. Antonioli 1001 W. Gold, Butte MT 59701

#### Deer Lodge County: Anaconda 59711

\*GREAT EASTERN MINE Silver, copper, zinc Lost Creek dist. [47], sec. 9, 10, T. 5 N., R. 11 W. Owner-Operator: Nettie Lord, Two Knudson Dr., Yerington NV 89447; and Lyman Thayer, 3103 Lost Creek Rd., Anaconda MT 59711 Status: Developing

#### Fergus County: Lewistown 59457

\*\*BLACK BULL MINE Gold, silver, copper, lead,

Warm Springs dist. [51], sec. 7, T. 16 N., R. 20 E.

Owner-Operator: G. S. Abbott

Gilt Edge Route, Lewistown MT 59457

Status: Developing

BONANZA GROUP Gold, silver Kendall dist. [50], sec. 30, T. 18 N., R. 18 E. Owner-Operator: Arnold Smith 318 W Blvd., Lewistown MT 59457

Status: Developing

\*COPPER ELK GROUP Lead, silver Cone Butte dist. [49], sec. 22, T. 17 N., R. 20 E. Owner-Operator: T. A. Pentecost and others 204 E. Washington, Lewistown MT 59457

Status: Developing

\*\*FEDERAL RESERVE GROUP Silver, lead, gold South Moccasin dist. sec. 35, T. 17 N., R. 17 E. Operator: Dean C. Burnham Route 3, Lewistown MT 59457 Owner: D. C. Burnham and others

Owner: D. C. Burnham and other: Route 3, Lewistown MT 59457

Status: Developing

GILT EDGE Gold Gilt Edge dist. [51],

sec. 17, 18, 19, 20, T. 16 N., R. 20 E.

Operator: Golden Maple Mining & Leaching Co.

P.O. Box 1131 Lewistown, MT 59457 K. V. Lonn, Resource Manager

Owner: Gilt Edge Corp. Big Horn, WY 82833

Employees: 5

Status: Producing, developing

#### Fergus County (continued)

\*JAY DEE NO. 3 Gold, silver Cone Butte (unorg.), sec. 8, T. 17 N., R. 21 E. Owner-Operator: John and Dolores Rife P.O. Box 193, Roy MT 59471 Status: Developing

KENDALL MINE Gold
North Moccasin dist. [50], sec. 31, T. 18 N., R. 18 E.
Owner-Operator: Triad Investments, Inc.
5360 Manhattan Cr., Suite 201
Boulder CO 80303

Mill capacity: 150 t/d Employees: 12

Status: Producing, developing

\*\*MAGINNIS MINE Gold, silver Warm Springs (Gilt Edge) dist. [51], sec. 5, T. 16 N., R. 20 E. Operator: Jerry Hanley

138 - 13th Ave., Lewistown MT 59457 Owner: Selma Hanley and others

Lewistown MT 59457 Status: Developing

MYRANDA CLAIM Gold, silver, lead Warm Springs dist. [51], sec. 8, T. 16 N., R. 20 E. Owner-Operator: William and Glenn McVeda 915 W. Watson, Lewistown MT 59457 Status: Developing

\*NO. 4 MINE Gold, silver, copper, lead, zinc Warm Springs dist. [51], sec. 7, 18, T. 16 N., R. 20 E. Operator: S & P Mining Co.

204 E. Washington, Lewistown MT 59457 Owner: T. A. Pentecost and others

204 E. Washington, Lewistown MT 59457 Status: Inactive

REPUBLIC MINE Silver, lead, zinc, gold, lanthanum group Sec. 23, T. 16 N., R. 17 E. Owner-Operator: Mrs. C. L. Kuhnhausen

P.O. Box 278, Lewistown MT 59457 Status: Inactive SHEEP MOUNTAIN MINE Gold, silver, copper, lead

Warm Springs dist. [51], sec. 4, 5, T. 16 N., R. 20 E. Owner-Operator: Lawrence Lenling and others Box 74, Lewistown MT 59457

Status: Developing

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

Warm Springs dist. [51], sec. 5, T. 16 N., R. 20 E. Operator: Joint venture of Minerals Inc. and

D.B.A. Colerate Minerals Inc. Thomas R. Young, Pres. 2433 Ford St., Golden CO 80401 Owner: Viking Exploration, Inc., Charles A. Eimarsen, Pres. 801 Denver Center Bldg. 1776 Lincoln St., Denver CO 80203

Employees: 5 Status: Developing

\*TWO LADY NO. 7 Gold, silver Cone Butte (unorg.), sec. 17, T. 17 N., R. 21 E. Owner-Operator: John and Dolores Rife P.O. Box 193, Roy MT 59471

Status: Developing

\*\*WAR EAGLE MINE Silver, lead Warm Springs dist. [51], sec. 7, T. 16 N., R. 20 E. Operator: Harry Abbott AM Mining and Development Co. Box 413, Lewistown MT 59457

Owner: Cougau Calgary, Alberta, Canada

Employees: 3 Status: Developing

#### Flathead County: Kalispell 59901

\*HERRIGG CREEK MINING CO. INC. GROUP Gold, silver, copper, bismuth Sec. 14, T. 28 N., R. 25 W. Owner-Operator: L. O. and Jack Bauska Box 511, Kalispell MT 59901

Status: Developing

HOG HEAVEN PROJECT Silver, gold
Hog Heaven dist. [52], sec. 17, T. 25 N., R. 23 W.
Owner-Operator: CoCa Mines, Inc.,
Gordon L. Steele, Project Mgr.
P.O. Box 131, Polson MT 59868
Employees: 12

#### Granite County: Philipsburg 59858

BLACK PINE MINE Silver, gold

Black Pine dist. [59], sec. 7, 8, 16, 17 and

18, T. 8 N., R. 14 W.

Operator: Black Pine Mining Co. Dan McLaughlin, Mgr.

Box 618, Philipsburg MT 59858

Owner: Inspiration Consolidated Copper Co.

55 Madison, Morristown NJ 07960

Employees: 90

Status: Producing, developing

BLUE BIRD MINE Gold, silver, copper

Rose Mountain dist. [68], sec. 26, T. 8 N., R. 12 W.

Operator: David M. Harris

Box 296, Philipsburg MT 59858

Owner: Ben Walkup Philipsburg MT 59858

Employees: 2 Status: Developing

CONTACT MINING CUSTOM MILL Sulfide ores Flint Creek dist. [65], sec. 36, T. 7 N., R. 14 W.

Operator: Contact Mining Co.

724 S. Western Ave., Butte MT 59701

Owner: Contact Mining Co.

P.O. Box 337, Philipsburg MT 59858

Mill capacity: 1,000 t/d Employees: 12 Status: Producing

GLITTERING HILL MINE Gold

Red Lion dist. [66],

sec. 22,, 23, 26, 27, T. 6 N., R. 12 W.

Operator: Joe Balkovatz

1016 W. 4th, Anaconda MT 59711

Owner: Mary L. McCabe

2010 Haggin Ave., Anaconda MT 59711

Status: Produced, developing

\*\*GOLDEN JUBILEE MINE Gold, silver

Red Lion dist. [66], sec. 14, T. 6 N., R. 13 W.

Owner-Operator: Golden Jubilee Corp.,

D. C. Nielsen, Pres.

Box 322, Philipsburg MT 59858

Mill capacity: 200 t/w

Status: Produced, developing

HOPE GROUP Silver, siliceous ore

Flint Creek dist. [65], sec. 19, T. 7 N., R. 13 W.

Operator: Contact Mining Co.

724 S. Western Ave., Butte MT 59701

Owner: Contact Mining Co.

P.O. Box 337, Philipsburg MT 59858

Status: Inactive

\*\*NEW SEATTLE (DOLLY QUARTZ) MINE

Silver, gold

Maxville dist. [63], sec. 9, T. 8 N., R. 13 W. Owner-Operator: James E. Maehl and Grace Maehl

Maxville Star Route, Philipsburg MT 59858

Status: Producing

\*NUT PINE MINE Gold, silver, tungsten

Gold Bar Basin-Twin Peaks-Red Lion dist. [66],

sec. 7, T. 6 N., R. 12 W. Owner-Operator: F. N. Earll

2044 S. Gaylord Ave., Butte MT 59701

Status: Developing

PARNELL GROUP MINE Silver, copper, lead

Flint Creek dist. [65], sec. 7, 8, T. 7 N., R. 13 W.

Owner-Operator: Ethel C. Heaney Box 130, Philipsburg MT 59858

Status: Developing

\*\*QUEEN MINE Silver, lead

South Boulder dist. [69],

SW1/4 sec. 33, T. 8 N., R. 12 W.

Owner-Operator: Mrs. K. W. MacPherson

St. Helena CA 94574

Status: Unknown

SILVER KING MINE Gold, silver

Rock Creek dist. [67], sec. 4, 5, T. 6 N., R. 15 W.

Operator: Aurum, Inc.

10th Floor, East Tower, 5080 Spectrum Dr.,

Dallas TX 75248

Owner: Charles Byam, Frenett Byam

P.O. Box 640, Philipsburg MT 59858

Employees: 4

Status: Developing

#### Jefferson County: Boulder 59632

\*\*BASIN JIB GROUP Gold, silver, copper, lead, zinc

Cataract dist. [73], sec. 18, T. 6 N., R. 5 W.

Operator: Gladstone Crushing & Construction, Inc. 1825 Gladstone, Butte MT 59701

Owner: Silvinite, Inc. Butte MT 59701 Employees: 10 Mill capacity: 150 t/d

Status: Producing, developing

\*\*BIG MARY MINE Gold, silver Sec. 10, T. 7 N., R. 2 W.

Owner-Operator: Horace Wilson Box 4012, Helena MT 59601

#### Jefferson County (continued)

BOULDER CHIEF MINE Silver, lead

Cataract (Basin) dist. [73], sec. 27, T. 7 N., R. 5 W.

Operator: Medalion Minerals 1804 Lafeyette, Butte MT 59701

Owners: Mrs. Esther Brandems, Mrs. Margaret

Evans; Everett WA 98201 Status: Producing, developing

COMET GROUP Silver, gold, lead, zinc Comet dist. [73], sec. 36, T. 7 N., R. 5 W.

Operator: Billern Corp.

Basin MT 59631

Owner: Martyn Salusso, Lloyd Wilhelm 1825 Gladstone, Butte MT 59701

Mill capacity: 150 t/d Status: Developing

\*CRYSTAL MINE Gold, silver, copper, lead, zinc Cataract (Basin) dist. [73], sec. 20, T. 7 N., R. 5 W. Owner-Operator: Delbert and John Bullock

Basin MT 59631 Status: Inactive

\*\*EAST RIDGE GROUP Gold, copper, lead, zinc Nez Perce dist. [86], sec. 12, T. 3 N., R. 7 W. Owner-Operator: Leber Mining Co.

36 S. Market St., Elizabethtown PA 17022

Status: Developing

FLORENCE GROUP Gold, silver Sec. 18, T. 2 N., R. 3 W. Owner-Operator: Lester Lindquist P.O. Box 373, Whitehall MT 59759

Employees: 2 Status: Developing

\*\*GOLDEN CURRY (SOURDOUGH) MINE

Gold, silver, copper, lead, zinc

Elkhorn dist. [79], sec. 10, T. 6 N., R. 3 W.

Operator: Mt. Heagon Dev. Inc. C. A. Dickey, Pres.

P.O. Box 501, Boulder MT 59632

Owner: John Rothfuss

2100 Oregon Ave., Butte MT 59701

Status: Developing

\*\*GOLDEN SUNLIGHT GROUP Gold, silver

Cardwell dist. [88].

sec. 17, 18, 19, 20, T. 2 N., R. 3 W.

Owner-Operator: Golden Sunlight Mines, Inc.

P.O. Box 678, Whitehall MT 59759 Employees: 140

Mill capacity: 5,000 t/d

Status: Producing

GREY EAGLE GROUP Gold, silver, lead Comet dist. [73], sec. 34, 35, 36, 2, 3, T. 6 N. & 7 N.,

R. 4 W. & 5 W.

Owner-Operator: Cumberland Mining Co. Inc.

Jim Knowlson, Pres.

233 S. Washington St., Butte MT 59701

Status: Developing

\*\*HOPE AND BULLION GROUP Gold, silver,

copper, lead, zinc

Comet dist. [73], sec. 6, T. 6 N., R. 7 W.;

sec. 31, T. 7 N., R. 5 W. Operator: Romerio Co. Boulder MT 59632 Owner: Mrs. A. K. Romerio

19320 Hinsdale, Torrance CA 90503

Status: Unknown

HUMBOLT MINE Gold, silver

Homestake dist. [81], sec. 9, T. 3 N., R. 6 W.

Owner-Operator: Stanley L. Boyce

Box 4222, Butte MT 59702

Status: Inactive

INFINITE GROUP Gold, silver

Lowland dist. [83], sec. 11, 12, 13, T. 6 N., R. 7 W. Owner-Operator: Harvey Allen and George Kralicek

Route 1, Box 95, Sheridan MT 59749

Status: Developing

\*\*KADY GULCH GROUP Gold, silver, copper, lead, zinc

Colorado dist. [78], sec. 1, T. 7 N., R. 5 W.; sec. 6, T. 7 N., R. 4 W.

Owner-Operator: Leber Mining Co.

36 S. Market St., Elizabethtown PA 17022

Status: Developing

\*\*LUCKY HIT GROUP Gold, silver, lead

Sec. 19, T. 2 N., R. 3 W. Operator: Ralph Huckaba Box 336, Whitehall MT 59759

Owner: Ralph Huckaba and Charlie Weber Route 2, Box 2228, Whitehall MT 59759

Mill capacity: 60 t/d

Employees: 3

Status: Produced, producing, developing

MAGDELENA GROUP Gold, silver

Basin dist. [73], sec. 31, T. 8 N., R. 5 W.;

sec. 36, T. 7 N., R. 6 W.

Owner-Operator: Robert L. Lynn

690 S. Hilltop Rd., Columbia Falls MT 59912

Status: Developing

MEADOW MINE Silver, lead

Clancy dist. [77], sec. 34, T. 9 N., R. 3 W.

Owner-Operator: David H. Dennis

Clancy MT 59634 Mill capacity: 75 t/d Status: Inactive

MONTANA TUNNEL GROUP Gold, silver, lead,

Wickes dist. [78], sec. 8, T. 7 N., R. 4 W.

Operator: Centennial Minerals Inc. 4th Floor Power Block Building

6th and Last Chance Gulch, Helena MT 59601

Owner: U.S. Minerals Exploration Co.

12189 Ralston Road, Suite 200, Arvada CO 80002

#### **Jefferson County (continued)**

MOUNTAIN QUEEN MINE Copper, silver, lead, uranium

Big Foot dist. [76], sec. 26, T. 4 N., R. 5 W. Owner-Operator: William Mulcahy

Box 631, Butte MT 59701

Status: Developing

\*\*PAYDAY GROUP Gold, silver

Cardwell dist. [88], sec. 18, T. 2 N., R. 3 W.

Owner-Operator: Ralph Huckaba Box 336, Whitehall MT 59759

Employees: 1 Mill capacity: 35 t/d

Status: Producing, developing

\*PIERMONT NO. 1 EAST MINE Lead, gold, silver,

copper, zinc

Cataract dist. [73], sec. 8, T. 7 N., R. 5 W. Owner-Operator: Raymond L. Beaver 829 N. Lamborn St., Helena MT 59601

Status: Developing

\*RUMLEY MINE Lead, gold, silver

Comet dist. [73], sec. 36, T. 7 N., R. 5 W.

Owner-Operator: Harold J. Giulio 305 S. Cleveland, Boulder MT 59632 Status: Produced, producing, developing STREAK OF LUCK, SUNNYSIDE GROUP

Gold, silver

Cardwell dist. [88], sec. 18, T. 2 N., R. 3 W.

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

Mill capacity: 3 t/d

Status: Produced, producing, developing

TOURMALINE QUEEN MINE Gold

Elkhorn dist. [79], sec. 22, T. 6 N., R. 3 W.

Operator: Falcon Explorations 1900 Powell St., Emerville CA 94608

Owner: Wade V. Lewis Estate

Boulder MT 59632 Status: Inactive

WILD CAT and LINE LODE Gold, silver

SE¼ sec. 33, T. 7 N., R. 2 W. Owner-Operator: Tom Coster

117 - 11th St., Black Eagle MT 59414

Status: Developing

#### **Judith Basin County: Stanford 59479**

\*\*CLENDENNIN GROUP Lead, silver, zinc Barker dist. [90], sec. 5, 6, T. 15 N., R. 9 E.

Operator: Croff and Montague Box 69, Monarch MT 59463 Owner: G. A. Croff and others Box 69, Monarch MT 59463

Employees: 2 Status: Developing

LIBERTY MINE Silver, lead, zinc

Barker dist. [90], sec. 6, 7, 18, T. 15 N., R. 9 E.

Operator: Amax Exploration, Inc. Giles Walker, District Geologist Box 5358, Helena MT 59604

Owner: Mrs. G. V. R. McBride and others

Box 905, Monarch MT 59643

Status: Inactive

\*\*MONTGOMERY and SAN MIGUEL MINE Gold, silver, copper, lead, zinc Barker dist. [90], sec. 31, T. 15 N., R. 9 E. Owner-Operator: Mrs. G. V. R. McBride

Box 905, Monarch MT 59463

Status: Developing

\*\*SETTER MINE Silver, copper, lead

Running Wolf dist. [91], sec. 21, T. 14 N., R. 10 E.

Operator: Don Prickett

232 Wapita Dr., Bayfield CA 81122

Owner: Setter Mining Co. Box 322, Stanford MT 59479

Status: Inactive

#### Lewis and Clark County: Helena 59601

\*\*GRAY ROCK MINE Gold, copper, zinc Owyhee dist. [98], sec. 11, T. 9 N., R. 4 W. Owner-Operator: Carl A. Tintinger

Box 658, Helena MT 59624

Status: Developing

\*\*HUMDINGER GROUP Gold, copper, molybdenum

Sec. 35, T. 13 N., R. 9 W.

Owner-Operator: Guy E. Maycumber 2217 Hwy. 2E, Kalispell MT 59901

Status: Developing

INDEPENDENT MINE Gold, copper, zinc, uranium Owyhee dist. [98], sec. 11, T. 9 N., R. 4 W.

Owner-Operator: Carl A. Tintinger Box 658, Helena MT 59624 Status: Produced, developing

\*\*MARYSVILLE PROJECT Gold, silver Marysville dist. [100], sec. 33, 34, T. 12 N., R. 5 W.;

sec. 36, T. 12 N., R. 6 W.

Owner-Operator: Goldsil Mining and Milling, Inc.,

P.O. Box 5626, Helena MT 59604

Employees: 4

Mill capacity: 500 t/d Status: Developing

#### Lewis and Clark County (continued)

MONTE CHRISTO MINE Gold, silver, copper, lead Rimini (Vaughn) dist. [103], sec. 17, T. 8 N., R. 5 W. Owner-Operator: Hans Mo

1500 Madison Ave., Helena MT 59601

Status: Developing

NEW VALLEY FORGE MINE Silver, lead Rimini dist. [103], sec. 33, T. 9 N., R. 5 W. Owner-Operator: Medallion Minerals 1804 Lafayetta Ave., Butte MT 59704

Mill capacity: 10 t/d Employees: 1 Status: Developing PEGGY ANN MINE Gold, silver Sec. 24, T. 13 N., R. 7 W. Operator: Peggy Ann Mines, Inc. C. E. Mannix, President Box 494, Canyon Creek MT 59633 Owner: C. E. Mannix

Owner: C. E. Mannix

12520 - 19 N.E., Seattle WA 98125

Status: Inactive

\*\*SKY MINE Gold, silver, copper, zinc
Owyhee dist. [98], sec. 2, 11, T. 9 N., R. 4 W.
Owner-Operator: Carl A. Tintinger
1857 Oro Fino Gulch, Helena MT 59601

Status: Developing

\*\*TWILIGHT GROUP Gold, silver, copper, barite Halena dist. [98], sec. 2, T. 9 N., R. 2 W. Owner-Operator: Charles Hansen Box 309, Big Sandy MT 59520 Status: Developing

#### Lincoln County: Libby 59923

CABLEWAY GROUP Silver, lead, gold

Sec. 33, T. 28 N., R. 31 W.

Owner-Operator: Donald C. and Marie O. Cripe Route 1, Box 929-B, Libby MT 59923

Status: Developing

GOLDEN WEST MINE Gold, silver Cabinet dist. [107], sec. 34 E½, T. 27 N., R. 31 W.

Owner-Operator: AMCO Minerals

1018 Antimony, Dept. B, Butte MT 59701

Status: Exploration

\*\*PRINCESS ETHNE Gold, silver

West Fisher dist. sec. 26, T. 27 N., R. 31 W. Owner-Operator: Rockie Nethercott

Route 1, Box 164, Polson MT 59860

Mill capacity: 1 t/d Employees: 1

Status: Producing, developing

TROY UNIT Silver, copper

Sec. 12, 13, 14, 23, 24, 25, 26, 35, 36,

T. 29 N., R. 34 W.

Operator: Troy Unit, ASARCO, Inc. Jack Bingham, Project Manager Box 868, Troy MT 59935

Owner: ASARCO, Inc. 120 Broadway, New York NY 10271

Mill capacity: 8,500 t/d Employees: 350 Status: Producing

#### Madison County: Virginia City 59755

ALAMEDA-WAKOOSTA MINE Gold, silver Virginia City dist. [129], sec. 27, 28, T. 6 S., R. 3 W. Owner-Operator: Cumberland Mining Co., Inc. Jim Knowlson, Pres.

283 S. Washington St., Butte MT 59701

Status: Inactive

\*ATLANTIC PACIFIC MINE Gold, silver, copper Mineral Hill dist. [119], sec. 20, T. 2 S., R. 3 W. Owner-Operator: Fred Box Estate, Oleta C. Box

Pony MT 59747 Status: Inactive B & H (PETE & JOE) GROUP Gold, silver,

copper, lead

Tidal Wave dist. [128], sec. 7, T. 3 S., R. 4 W.

Operator: Winchester Gold Co.

451 Jefferson, 400 Building, Spokane WA 99204

Owner: Gold Ranch Mining Corp.

Twin Bridges MT 59754

Employees: 4 Status: Developing

BADGER NO. 1 and NO. 2 MINES Gold, silver Norris (Lower Hot Springs) dist. [17],

sec. 19, 20, T. 3 S., R. 1 E. Owner-Operator: Earl Clopton P.O. Box 66, Norris MT 59745

Mill capacity: 4 t/d Status: Developing

#### Madison County (continued)

BESSIE and GOLDEN WAVE MINE Gold, silver, copper, tungsten

Mineral Hill dist. [119], sec. 14, 15, T. 2 S., R. 2 W.

Owner-Operator: W. G. Forbes Pony MT 59747

Mill capacity: 10 t/d Employees: 3 Status: Developing

DIVIDEND LODE MINE Gold, silver

Mineral Hill dist. [119], sec. 15, T. 2 S., R. 3 W.

Owner-Operator: Richard F. Horton and

Mildred M. Horton

1304 N. 195th, Seattle WA 98133

Status: Inactive

DON-A-VERA GROUP Gold, silver

Fairweather dist. [129], sec. 25, 26, 35, T. 6 S., R. 3 W.

Owner-Operator: Western Division, Tabor Mines and Metals Corp., c/o A. J. Katches

Box 252, Virginia City MT 59755

Status: Developing

EAGLE BLACK GROUP Gold, silver, copper Highland dist. [129],

sec. 2, 3, 10, 11, T. 7 S., R. 3 W.

Owner-Operator: Western Division, Tabor Mines and Metals Corp., c/o A. J. Katches Box 252, Virginia City MT 59755

Status: Developing

FRIDA MARIE GROUP Gold

Silver Star dist. [126], sec. 10, 11, T. 2 S., R. 6 W.

Operator: Northern Mining Co., Inc.
P.O. Box 583, Sheridan MT 59749
Owner: Robert Decker, Sr., Frida Decker,
Russ Herman

P.O. Box 583, Sheridan MT 59749

Employees: 2 Status: Developing

\*GLENAM CLAIM Gold, silver

Mill Creek dist. [125], sec. 24, T. 4 S., R. 4 W.

Operator: Richard Anderson P.O. Box 154, Sheridan MT 59749

Owner: Goldstream Corporation

2163 South 2700 West, West Valley City UT 84119

Employees: 3

Status: Developing

\*\*GREEN CAMPBELL MINE Gold

Silver Star dist. [126], sec. 3, T. 2 S., R. 6 W. Owner-Operator: United Investors Corporation

L. S. Leatham, President

546 DeSoto St., Salt Lake City UT 84103

Mill capacity: 100 t/d Status: Developing \*\*GRUBSTAKE MINE Gold, silver

Lower Hot Springs dist. [117], sec. 19, 24, 30, T. 3 S., R. 1 E.

Operator: Sam Phifer, Mgr. P.O. Box 2812, Norris MT 59745 Owner: Resources America, Inc.

P.O. Box 1843, Winter Park FL 32790

Mill capacity: 100 t/d Employees: 14

Status: Developing, inactive

\*\*HIGH HOPE MINE Gold, silver

Mill Creek dist. [125], sec. 9, T. 4 S., R. 3 W.

Operator: Raymond D. Shafer Sheridan MT 59749

Owner: Raymond Shafer and Dorothy Buck

Sheridan MT 59749 Status: Developing

HIGHRIDGE MINE Gold, silver

Tidal Wave dist. [128], sec. 27, T. 3 S., R. 5 W.

Operator: George Guay

532 Howard Ave., Billings MT 59101

Owner: Gold Ridge Mining Co. 532 Howard Ave., Billings MT 59101

Employees: 2

Status: Developing

JACK RABBIT MINE Gold, silver, lead

Rochester dist. [122], sec. 21, T. 2 S., R. 8 W. Owner-Operator: Jim McLaughlin Route 1, Box 22, Sheridan MT 59749

Status: Inactive

\*\*KENNETT-BERTHA MINE Gold, silver, lead,

zinc, manganese

Virginia City (Alder Gulch) dist. [129], sec. 5, T. 6 S., R. 2 W.

Operator: Hughes Mining Co., Inc.

Rick Hughes, Drawer J, Twin Bridges MT 59754

Owner: Kennett Gold Corp. Twin Bridges MT 59754

Status: Developing

KEYHOLD GROUP Gold, silver

Highland dist. [129], sec. 1, 12, T. 7 S., R. 3 W. Owner-Operator: Western Division, Tabor Mines

and Metals Corp., c/o A. J. Katches

Box 252, Virginia City MT 59755

Status: Developing

MADDEN GROUP Gold

Virginia City (Alder Gulch) dist. [129], sec. 12, T. 7 S., R. 3 W.

Owner-Operator: Lively Mining Co.

Box 96, Melrose MT 59743

#### Madison County (continued)

\*\*MAMMOTH MINE Gold

Mammoth dist. [127], sec. 7, 18, T. 2 S., R. 3 W. Operator: South Boulder Mining Corp.

R. Von Kleist, President

Box 696, Whitehall MT 59759

Owner: Ed Workman

Box 4, Cardwell MT 59721

Status: Inactive

MORNING STAR MINE Silver, zinc Lower Hot Springs dist. [117],

sec. 28, 29, T. 3 S., R. 1 E.

Owner-Operator: R. B. Farnsworth Estate

P.O. Box 788, Bozeman MT 59715

Status: Inactive

MOUNTAIN VIEW MINE Gold, silver

Tidal Wave dist. [128], sec. 2, 3, T. 3 S., R. 5 W.

Owner-Operator: Johnson-Reid Corp.

Reid Kephart, Pres.

2000 Harrison Ave., Butte MT 59701

Status: Developing

NELLIE BLY GROUP Gold

Highland dist. [129], sec. 1, 12, T. 7 S., R. 3 W.

Owner-Operator: Western Division,

Tabor Mines and Metals Corp., c/o A. J. Katches

Box 252, Virginia City MT 59755

Status: Developing

NEW WINNETKA TRUST GROUP Gold, silver Highland dist. [129], sec. 1, 2, T. 7 S., R. 3 W.

Owner-Operator: A. J. Katches Box 275, Virginia City MT 59755

Status: Developing

PEARL GROUP Gold, silver

Alder Gulch dist. [129], sec. 1, 2, T. 7 S., R. 3 W.

Owner-Operator: Western Division,

Tabor Mines and Metals Corp., c/o A. J. Katches

Box 252, Virginia City MT 59755

Status: Developing

RED PINE MINE Gold, silver

Sheridan dist. [125], sec. 34, T. 3 S., R. 4 W.;

sec. 3, T. 4 S., R. 4 W.

Owner-Operator: Shermont Mining Co.

John Magnus, Pres., Box 254, Sheridan MT 59749

Mill capacity: 50 t/d

Status: Producing, developing

RIDGEWAY MINE Gold

Operator: Modern Technology Mining Corp.

Gerald A. Hanneman, Pres.

P.O. Box 4753, Missoula MT 59801

Owner: Evelyn Hines

2526 Stanley Dr., Route 3, Moses Lake WA 98837

Status: Inactive

ST. JOHN GROUP Gold, silver

Highland dist. [129], sec. 1, T. 7 S., R. 2 W.

Owner-Operator: Western Division,

Tabor Mines and Metals Corp., c/o A. J. Katches

Box 252, Virginia City MT 59755

Status: Developing

SCALDED CAT MINE Gold, silver

Mineral Hill dist. [119], sec. 14, T. 2 S., R. 3 W.

Operator: Jean Clary

5375 S. Sandhill Rd., Las Vegas NV 89120

Owner: Jean Clary and Jack Clary

5375 S. Sandhill Rd., Las Vegas NV 89120

Status: Inactive

SHORT SHIFT MINE Gold

Rabbit dist. [122], SE¼ sec. 6, T. 2 S., R. 7 W.

Owner-Operator: John A. Layton Estate

c/o D. J. Thiessen, 216 - 13 W., Billings MT 59102

Mill capacity: 20 t/d

Status: Inactive

SILVER CROWN MINE Gold, silver, lead

Unorg. dist. sec. 5, T. 2 S., T. 2 E.

Operator: Clinton A. Cain Box 2864, Norris MT 59745

Owner: Silver Crown Mines, Inc.,

Clinton Cain, Pres., Norris MT 59745

Status: Inactive

SPUHLER GROUP Gold, silver, lead

Sec. 20, T. 3 S., R. 4 W. Owner-Operator: Harvey Allen

Route 1, Box 95, Sheridan MT 59749

Status: Developing

STRAWN MINE Gold, silver, antimony

Unorg., sec. 18, T. 2 S., R. 4 W.

Operator: Sam Bear Mining Co. Twin Bridges MT 59754

Owner: Dale Bros.

Box 302, Twin Bridges MT 59754

Mill capacity: 20 t/d

Employees: 2

Status: Produced, developing

UNCLE SAM MINE Gold, silver

Mill Creek dist. [125], NE1/4 sec. 17, T. 4 S., R. 3 W.

Owner-Operator: Steve Mortensen and

Audrey Mortensen

Sheridan MT 59749

Employees: 3

Mill capacity: 40 t/d

Status: Producing, developing

VALLEY VIEW MINES Gold, silver

Williams Gulch dist. [129], sec. 29, T. 6 S., R. 3 W.

Operator: Jim Thomas

Box 52, Virginia City MT 59755

Owner: St. Lawrence Consolidated Mines, Inc.

Box 52, Virginia City MT 59755

Status: Inactive

WATSECA MINE Gold, silver

Rabbit dist. [122], sec. 31, 32, T. 2 S., R. 3 W.

Owner-Operator: Rocky Mountain Minerals, Inc.

W. Ray Hill, Pres., P.O. Box 489, Butte MT 59701

Mill capacity: 200 t/d

Employees: 3

#### Meagher County: White Sulphur Springs 59645

BIGLER GROUP Gold

Thompson Creek dist. [131], sec. 28, T. 9 N., R. 4 E.

Operator: G & M Mining

c/o Richard K. Geordge and Kenneth McGuire P.O. Box 510, White Sulphur Springs MT 59645

Owner: A. J. Burchak and Travis Belue 213 Collins, Lavina MT 59046; and 1242 Avenue F, Billings MT 59102

Employees: 6

Status: Produced, producing, developing

\*LOGGERS DREAM Gold, silver

Beaver Creek dist. [131], sec. 32, T. 9 N., R. 4 E.

Operator: Gypsy Creek Mining Co. Lloyd Craig, President

White Sulphur Springs MT 59645

Owner: Lloyd T. Craig

Box 778, White Sulphur Springs MT 59645

Status: Inactive

LUCKY DOLLAR MINE Lead, silver

Castle Mountains dist. [132], sec. 12, T. 8 N., R. 8 E.

Owner-Operator: Carl Berg

Box 126, Martinsdale MT 59053

Status: Developing

\*McDANIEL COPPER GROUP Silver, copper, lead,

Unorg. dist. sec. 17, 18, T. 13 N., R. 7 E.

Owner-Operator: Duane McDaniel Box 33, Neihart MT 59465

Status: Developing

SNOW BANK MINE Gold

Beaver Creek dist. [131], sec. 28, T. 9 N., R. 4 E.

Operator: G & M Mining

Richard K. Geordge and Kenneth McGuire

P.O. Box 510. White Sulphur Springs MT 59645

Owner: Steve and Mary Helburn

1301 Loreauville Rd., New Iberia LA 70560

Employees: 2

Status: Produced, producing, developing

#### Mineral County: Superior 59872

AMAZON-DIXIE MINE Copper, lead, zinc Saltese dist. [136], sec. 4, 5, T. 19 N., R. 32 W.

Owner-Operator: Amazon-Dixie Mining Co. Box 469, Scott Bldg., Wallace ID 83873

Status: Unknown

BONANZA GROUP Gold, silver, copper, lead,

Cedar Creek dist. [135], sec. 29, T. 15 N., R. 26 W.

Owner-Operator: G. M. Gildersleeve

Box 568, Superior MT 59872

Status: Developing

\*CROWN SILVER GROUP Lead, zinc, copper, silver

Sec. 19, 20, T. 20 N., R. 31 W. Operator: Frank A. Morbeck Box 1127, Wallace ID 83873

Owner: Crown Silver Mining Co.

504 Bank St., Box 1127, Wallace ID 83873

Employees: 4 Status: Developing

EAST COEUR D'ALENE SILVER MINE Silver,

copper, lead, zinc

Keystone dist. [138], sec. 17, T. 18 N., R. 26, 27 W.

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

Scott Bldg., Wallace ID 83873

Status: Unknown

LITTLE ANACONDA GROUP Silver, lead, zinc

Sec. 35, T. 18 N., R. 26 W. Operator: Sunrise Silver Mines

c/o Hugh G. King, Frenchtown MT 59834 Owner: Hugh G. King and Lucinda Cone

Box 8717, Missoula MT 59807

Status: Inactive

RIVERS CREEK MINE Silver, lead

Saltese dist. [136], sec. 5, T. 18 N., R. 30 W.

Owner-Operator: Charles L. Kannegaard and

Ray and Charles Minnick

Box 386, Medical Lake WA 99022

Status: Unknown

SILVER CABLE GROUP Lead, zinc, copper, silver

Sec. 24, T. 20 N., R. 31 W. Operator: Frank A. Morbeck Box 1127, Wallace ID 83873 Owner: Silver Cable Mining Co.

504 Bank St., Box 1127, Wallace ID 83873

Status: Developing

SILVER PEAK GROUP Lead, zinc, copper, silver

Sec. 10, T. 20 N., R. 32 W. Operator: Frank A. Morbeck Box 1127, Wallace ID 83873 Owner: Silver Peak Mining Co.

504 Bank St., Box 1127, Wallace ID 83873

#### Missoula County: Missoula 59801

CHARCOAL GROUP Lead, zinc, silver, copper Coloma dist. [143], sec. 11, T. 12 N., R. 16 W.

Owner-Operator: Esther Keller

547 S. 5th St. W., Missoula MT 59801

Status: Inactive

\*\*NINE MILE MINE Gold Nine Mile Creek dist. [146],

sec. 21, 22, 27, 28, T. 17 N., R. 24 W.

Operator: Nine Mile Mines, Inc. Box 100, Huson MT 59846 Owner: Nine Mile Mines, Inc. Box 1329, Park City UT 84060

Mill capacity: 150 t/d Employees: 6 Status: Developing

NUGGET MINE Lead, zinc, copper, silver

Nine Mile Creek dist. [146], sec. 13, T. 16 N., R. 23 W. Operator: Frank A. Morbeck Box 684, Wallace ID 83873 Owner: Nugget Mining Co.

5041/2 Bank St., Box 1127, Wallace ID 83873

Status: Developing

SILVER BELL GROUP Copper, silver, gold Clinton dist. [142], sec. 17, T. 12 N., R. 16 W.

Operator: Silver Bell, Inc.

965 - 8th St. W. Riverside, Missoula MT 59801 Owner: Del Fontaine, Les Bonnet, Del Holter, Richard Souders

965 - 8th St. W. Riverside, Missoula MT 59801

Status: Developing

WALDBILLIG MINE Copper, silver, gold Sec. 1, 2, T. 11 N., R. 19 W.

Owner-Operator: Joe and O. R. Waldbillig Route 5, Miller Creek, Missoula MT 59801

Status: Developing

WALLACE CREEK CUSTOM MILL Gold, silver, copper, lead

Wallace Creek dist. [146], sec. 24, T. 12 N., R. 17 W.

Operator: Wallace Creek Milling Co.,

Harold Ask, Supv.

23001 Wallace Creek Rd., Clinton MT 59825 Owner: Wallace Creek Milling Co., 820 Denver Ctr. 1776 Lincoln St., Denver CO 80203

Mill capacity: 50-100 t/d

Status: Inactive

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

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

Owner-Operator: Nyvatex Marketing Box 1835, Billings MT 59103

Status: Inactive

#### Park County: Livingston 59047

ACME GROUP Silver, lead New World dist. [154], sec. 34, T. 8 S., R. 14 E.

Owner-Operator: Margaret Reeb Box 301, Livingston MT 59047

Status: Developing

\*\*BAR GROUP Gold, silver, lead, copper, molybdenum

Emigrant dist. [151], sec. 5, 6, 7, 8, 9, 16, 17, 19, 20, 21 and 30, T. 7 S., R. 9 E.

20, 21 and 30, 1. 7 3., 11.

Operator: J. H. Counts

221 South C St., Livingston MT 59047 Owner: J. H. Counts, Jr., Silase Counts and Steven J. Counts

622 S. 12th St., Livingston MT 59047

Status: Developing

BARBARA ANN MINE Gold, silver, lead, copper Sec. 26, 35, T. 6 S., R. 9 E.

Owner-Operator: Barbara Prather Apt. 147, 3477 E. 49th Ave.,

Vancouver, B.C., Canada V5S 1M3

Status: Unknown

\*COPPER GROUP Copper, iron, nickel Emigrant dist. [151], sec. 1, 2, 3, T. 7 S., R. 8 E. Operator: J. H. Counts 221 South C St., Livingston MT 59047 Owner: J. H. Counts, Jr., Silase Counts and Steven J. Counts

221 South C St., Livingston MT 59047

Status: Developing

COPPER KING GROUP Platinum, palladium, copper, molybdenum, gold, silver

New Word dist. [154], sec. 19, T.8 S., R. 15 E.

Owner-Operator: Copper King Mining Co. Margaret Reeb, President

Box 301, Livingston MT 59047

Status: Developing

GOLDEN GRIZZLY GROUP Gold, silver, copper New World dist. [154], sec. 2, 3, 10, 11, 12, 13, T. 9 S., R. 14 E.

Owner-Operator: Ranchers Exploration and Development Corp., J. E. Motica, Mgr. Spec. Proj. P. O. Box 6217, Albuquerque NM 87197

Status: Inactive

#### Park County (continued)

GOOSE LAKE GROUP Platinum, palladium, copper, lead, tungsten, gold, silver New World dist. [154], sec. 19, T. 15 E., R. 8 S. Owner-Operator: Margaret Reeb Box 301, Livingston MT 59047

Status: Developing

\*\*HENDERSON GROUP Gold, silver, copper New World dist. [154], sec. 14, T. 9 S., R. 14 E.

Owner-Operator: Margaret Reeb Box 301, Livingston MT 59047

Status: Developing

\*HOPE GROUP Copper, silver

Emigrant dist. [151], sec. 36, T. 6 S., R. 8 E.

Operator: J. H. Counts

221 South C St., Livingston MT 59047 Owner: J. H. Counts, Jr., Silase Counts and Steven J. Counts 221 South C St., Livingston MT 59047

Status: Developing

\*\*MAGNITITE GROUP Gold, silver, lead, iron, copper, nickel

Emigrant dist. [151],

sec. 2, 10, 11, 12, 18, 21, 24, 25, T. 7 S., R. 8 E.

Operator: J. H. Counts

221 South C St., Livingston MT 59047 Owner: J. H. Counts, Jr., Silase Counts and Steven J. Counts

221 South C St., Livingston MT 59047

Status: Developing

MOHAWK MINE Gold, lead, silver

New World dist. [154], sec. 25, 36, T. 9 S., R. 14 E.

Operator: Durden Construction and Cop

Construction

Box 845, Colstrip MT 59323

Owner: Durden Construction and Cop

Construction

Box 39189, Billings MT 59104

Status: Developing

NEW WORLD PROJECT Gold, copper

New World dist. [154], sec. 11, T. 9 S., R. 14 W.

Owner-Operator: Plexus Resources Inc. A. H. Ditto, Pres.

Suite 781, 175 SW Temple St.,

Salt Lake City UT 84101

Status: Developing

\*\*REPUBLIC MINES Lead, silver, zinc

New World dist. [154], sec. 36, T. 9 S., R. 14 E.

Owner-Operator: Ralph Huckaba Box 336, Whitehall MT 59759

Employees: 2

Mill capacity: 35 t/d Status: Produced, developing

#### Phillips County: Malta 59538

\*GOLD BUG-LITTLE BEN-AUGUST GROUP Gold, silver

Little Rockies dist. [155], sec. 15, T. 25 N., R. 24 E. Operator: Zortman-Landusky Mining Co. Bob Turner, Resident Manager

P.O. Box 313, Zortman MT 59546

Owner: Wharf Resources, 2790 Scotia Centre, 700 - 2d St. SW, Calgary, Alberta, Canada T2P2W2

Mill capacity: 14,000 t/d

Employees: 85 Status: Producing MONTANA GROUP Gold, silver Little Rockies dist. [155].

sec. 10, 11, 12, 14 and 15, T. 25 N., R. 24 E. Owner-Operator: Zortman-Landusky Mining Co.

Bob Turner, Resident Manager P.O. Box 313, Zortman MT 59546

Employees: 85 Status: Developing

\*RUBY GULCH MINE Gold, silver

Little Rockies dist. [155], sec. 18, T. 25 N., R. 25 E.

Operator: Zortman-Landusky Mining Co.

Bob Turner, Resident Manager P.O. Box 313, Zortman MT 59546

Owner: Gold Reserve Corp.

503 Northtown Office Bldg., Spokane WA 99207

Mill capacity: 14,000 t/d

Employees: 85 Status: Producing

#### Powell County: Deer Lodge 59722

AMANDA MINE Gold, silver

Elliston dist. [157], sec. 22, T. 8 N., T. 6 W.

Owner-Operator: Enard Lindquist and

James R. Dixon

1805 Joslyn, Helena MT 59601

Status: Developing

\*BARRY DEAN MINE Gold

Zosell dist. [158], sec. 10, T. 7 N., R. 8 W.

Owner-Operator: Lionel C. Taft

920 - 65th Ave. NE, Puyallup WA 98371

Status: Developing

\*\*ELLISTON CONSOLIDATED GROUP Lead, zinc, silver, gold

Elliston dist. [157].

sec. 5, 8, 10, 15, 22, T. 8 N., R. 6 W.

Owner-Operator: Elliston Consolidated Mining Co. c/o Dave R. Newman, Box 396, Elliston MT 59728

Employees: 1 Status: Developing

MONARCH MINE Gold, silver, copper

Ontario dist. [157], sec. 30, 31, T. 8 N., R. 6 W.

Owner-Operator: Monarch Minerals, Inc. D. L. Jones, Mgr., Box 33, Helena MT 59601

Status: Inactive

NEGROS MINE Gold, silver, lead, zinc

Nigger Hill dist. [157],

SE¼ SW¼ sec. 36, T. 9 N., R. 7 W.

Owner-Operator: James R. Dixon, Box 302, Elliston MT 59728: Enard Lindquist, 1805 Joslyn, Helena

MT 59601

Status: Inactive

NORTH POLE MINE Silver, copper, zinc, gold Elliston dist. [157], sec. 29, T. 8 N., R. 6 W.

Operator: James R. Dixon

Box 302, Elliston MT 59728

Owner: James R. Dixon and Dorothy E. Dixon

Box 302, Elliston MT 59728

Status: Inactive

THIRD TERM MINE Zinc, copper, gold, silver, lead Elliston dist. [157], sec. 28, T. 9 N., R. 6 W.

Owner-Operator: Delbert Woodley

Box 353, Warm Springs Rd., Garrison MT 59731

Status: Developing

TIBBETTS MINE Gold

Sec. 7, 8, T. 8 N., R. 11 W.

Operator: Clifford Hatton

2501 S. Dakota St., Butte MT 59701

Owner: Clifford Hatton and others 2501 S. Dakota St., Butte MT 59701

Status: Developing

#### Ravalli County: Hamilton 59840

\*CURLEW MINE Silver, lead

Pleasant View dist. [168], sec. 13, T. 8 N., R. 21 W.

Owner-Operator: Holter Estate, c/o First National

Bank, Helena MT 59601

Status: Inactive

LBJ, PIC AND PER GROUPS Gold, silver, platinum

Sec. 8, 17, T. 2 S., R. 22 W.,

sec. 35, 36, T. 1 S., R. 22 W.

Operator: Aljon Mining and Exploration, Inc. 716 South First Street, Hamilton MT 59840 Owner: Aljon Mining and Exploration, Inc.

West Fork Road, Darby MT 59829

Employees: 2

Status: Developing

\*\*VIOLET GROUP Molybdenum, tungsten,

silver, gold

Mineral Point dist. [167],

sec. 22, 28, 29, T. 4 S., R. 22 W.

Owner-Operator: Mary W. Motley

121 Parkside Apts., #205

121 State St., Hamilton MT 59840

Status: Inactive

\*WOODS CREEK COPPER MINE Copper,

silver, gold

Mineral Point dist. [167],

sec. 16, 17, 20 and 21, T. 3 S., R. 22 W.

Owner-Operator: Shook Mines, Inc.,

Earnest J. Shook, Pres.

Box 77, Darby MT 59829

Status: Developing

#### Sanders County: Thompson Falls 59873

BABE #1 (old Sid claim) Copper

Trout Creek dist. [171], sec. 24, T. 24 N., R. 32 W.

Owner-Operator: Sidney A. deBarathy 2900 Sherman Ave., Butte MT 59701

Employees: 1 Status: Inactive BAY CHIEF MINE Lead, silver, copper Sec. 14, 23, T. 20 N., R. 28 W.

Operator: U.S. Antimony Corp.

John C. Lawrence, President

Box 643, Thompson Falls MT 59873

Owner: State Mining Co.

509 N. Main St., Colville WA 99114

Status: Inactive

#### Sanders County (continued)

HEIDELBERG MINE Gold, silver SE¼ sec. 29, NW¼ sec. 32, T. 27 N., R. 31 W.

Owner-Operator: Heidelberg Mining and

Leasing Co. (G. A. Myers)

1001 W. Court St., Pasco WA 99301

Employees: 3 Status: Developing

LUCKY LADY GROUP Gold, silver, lead, zinc Blue Creek dist. [171], sec. 10, T. 27 N., R. 34 W. Owner-Operator: J. C. Brooks Estate

c/o Geraldine LaMarche, Route 1, Box 132, Sagle ID 83860; Ralph Dettwiler, Noxon MT 59853

Status: Inactive

MONTRO GOLD MINES Lead, silver, copper, gold Plains dist. [173], SE1/4 sec. 4, SW1/4 sec. 3, T. 19 N., R. 26 W.

Operator: William L. Burns

Moise MT 59824

Owner: Mrs. Marion R. Kruger and William L. Burns

Plains MT 59859 Status: Inactive

RAVEN MINE Copper, silver Thompson River dist. [179],

NW 1/4 sec. 4, T. 21 N., R. 28 W.; and SW 1/4 sec. 33, T. 22 N., R. 28 W. Owner-Operator: Raven Mining Co.,

Austin Monk, Pres., Marion MT 59925

Status: Inactive

#### Silver Bow County: Butte 59701

\*BERKELEY PIT Copper, gold, silver Summit Valley dist. [183], sec, 5, 6, 7, 8, 18,

T. 3 N., R. 7 W.

Owner-Operator: Anaconda Minerals Co. J. F. Gardner, Operations Manager Box 689, Butte MT 59701

Mill capacity: 42,000 t/d

Status: Inactive

DAY AND HARVEY GROUP Silver, gold Moose Creek dist. [190], sec. 9, T. 1 S., R. 8 W. Owner-Operator: Royal Apex Silver, Inc.

P.O. Box 886, Wallace ID 83873

Status: Developing

\*EAST BERKELEY PIT Copper, molybdenum Summit Valley dist. [183], sec. 5, 6, 7, 8, 18, T. 3 N., R. 7 W.

Owner-Operator: Anaconda Minerals Co. J. F. Gardner, Gen. Mgr., Montana Operations

Box 687, Butte MT 59701

Employees: 737

Mill capacity: 42,000 t/d

Status: Inactive

EMMA MINE Gold, silver

Highland dist. [187], sec. 29, T. 1 N., R. 7 W.

Owner-Operator: Howard Stratton 2619 Walnut St., Butte MT 59701 Mill capacity: 5 t/d

Status: Producing, developing

FOURTH ESTATE MINE Fluorspar, gold

Summit Valley dist. [183], sec. 13, T. 3 N., R. 7 W. Owner-Operator: Tom Heiehan

Box 235, Butte MT 59701

Status: Developing

LAST CHANCE MINE Gold, silver Highland dist. [187], sec. 28, T. 1 N., T. 7 W. Owner-Operator: Howard Stratton 2619 Walnut St., Butte MT 59701

Status: Developing

MONTE CLARK GROUP Silver, copper

Moose Creek dist. [190],

sec. 25, 30, T. 1 S., R. 8, 9 W. Owner-Operator: Lively's, Inc.

Box 96, Melrose MT 59743

Status: Developing

MOONLIGHT MINE Gold, silver

Highland dist. [187], sec. 28, T. 1 N., R. 7 W. Owner-Operator: Howard Stratton 2619 Walnut St., Butte MT 59701

Status: Developing

PEABODY MINE Silver, lead

Soap Gulch dist. [189], sec. 6, T. 1 S., R. 8 W.

Owner-Operator: Lively's, Inc. Box 96, Melrose MT 59743

Status: Inactive

STRATTON MINE Gold, silver, copper

Highland dist. [187], sec. 32, T. 1 N., R. 7 W.

Owner-Operator: Howard Stratton 2619 Walnut St., Butte MT 59701

Employees: 2

Status: Developing

\*WRONG FONT GROUP Gold, silver

Summit Valley dist. [183], sec. 24, T. 3 N., R. 9 W.

Owner-Operator: Tom Helehan Box 235, Butte MT 59701

#### Iron Mines

#### Meagher County: White Sulphur Springs 59645

\*BLACK BUTTE MINE Iron Sec. 34, T. 12 N., R. 6 E. Operator: Hallett Minerals Co. Irving Sewell, General Manager Box 169, Livingston MT 59047 Owner: R. Borland and J. Potter White Sulphur Springs MT 59645

Employees: 3 Status: Producing

#### Molybdenum Mines

#### Beaverhead County: Dillon 59725

ELKHORN GROUP Molybdenum, silver Elkhorn dist. [13], sec. 15, 21, 22, 27, 28, T. 4 S., R. 12 W. Owner-Operator: Timberline Minerals, Inc. John A. Wells, Bd. Chm. Box 308, Dubois WY 82513 Status: Inactive

#### **Broadwater County: Townsend 59644**

\*SPOKANE HILLS MINE Tungsten, molybdenum Winston dist. [37], sec. 11, 12, T. 9 N., R. 1 W. Owner-Operator: West Gate Mining & Construction 3301 San Mateo NE, Suite 200, Albuquerque NM 87110 Status: Inactive

#### Ravalli County: Hamilton 59840

VIOLET GROUP Molybdenum, tungsten, silver, gold Mineral Point dist. [167], sec. 22, 28, 29, T. 4 \$., R. 22 W. Owner-Operator: Mary W. Motley 121 Parkside Apts., #205 121 State St., Hamilton MT 59840 Status: Inactive

#### **Titanium Mines**

#### Teton County: Choteau 59422

\*CHOTEAU PROJECT Titanium, iron, zircon Sec. 11, 12, 13, 14, T. 25 N., R. 6 W.; sec. 18, T. 25 N., R. 5 W. Owner-Operator: Earthsearch, Inc. 7100 W. 44th St., Suite 201, Wheatridge CO 80033 Status: Developing

#### **Tungsten Mines**

#### Beaverhead County: Dillon 59725

THUNDERBIRD GROUP Silver, tungsten, molybdenum
Elkhorn dist. [13],
sec. 14, 15, 22, 23, T. 4 S., R. 12 W.
Owner-Operator: Thunderbird Resources,
Don L. Jenkins, Pres.
P. O. Box 506, Corvallis MT 59828

Employees: 2 Status: Developing

#### **Broadwater County: Townsend 59644**

\*SPOKANE HILLS MINE Tungsten, molybdenum Winston dist. [37], sec. 11, 12, T. 9 N., R. 1 W. Owner-Operator: West Gate Mining & Construction U.S. Route 19 North, P.O. 13, Box 101, Morgantown WV 26503

Status: Inactive

#### **Uranium Mines**

#### Carbon County: Red Lodge 59068

\*\*SWAMP FROG MINE Uranium Sec. 17, 20, 21, T. 9 S., R. 27 E. Owner-Operator: James J. Stoick Box 2074, Billings MT 59101 Status: Developing

#### Jefferson County: Boulder 59632

FREE ENTERPRISE URANIUM-RADON MINE
Uranium, radon
Boulder dist. [75], sec. 22, T. 6 N., R. 4 W.
Owner-Operator: Elkhorn Mining Co.,
Wade V. Lewis, Pres.
201 N., Boulder MT 59632
Employees: 5
Status: Active health mine

#### **Placer Mines**

#### Beaverhead County: Dillon 59725

\*GOLD NUGGET PLACER CLAIMS Gold SW¼ sec. 30, T. 3 S., R. 17 W.; N½ sec. 36, T. 3 S., R. 18 W. Owner-Operator: Prospect Mining Co., Inc. Preston ID 83263 Status: Developing

\*RUBY GOLD PLACER CLAIMS Gold Pioneer dist. [22], sec. 29, T. 3 S., R. 17 W. Owner-Operator: Valley International Products, Inc. P.O. Box 1721, Helena MT 59601

#### **Broadwater County: Townsend 59644**

\*INDIAN CREEK PLACER Gold

Indian Creek dist. [35], Sec. 28, T. 7 N., R. 1 E.

Operator: Raymond G. Bayles Box 1108, Townsend MT 59644

Owner: Indian Creek Inc. Box 1108, Townsend MT 59644 Status: Producing, developing

#### Granite County: Philipsburg 59858

\*ELM NO. 6 Placer gold

Philipsburg dist. [65], sec. 31, T. 8 N., R. 15 W.

Operator: Chris Koenig 8860 Sharptail, Missoula MT 59802

Owner: SK Ventures, Inc., A. K. Raymond, Pres.

P.O. Box 255, Baldwin City KS 66006

Status: Inactive

#### Jefferson County: Boulder 59632

\*BLACK CANYON PLACERS Gold

Alhambra dist. [71], sec. 14, 15, T. 7 N., R. 3 W.

Owner-Operator: A. E. Reichel Estate, Horace Wilson

Box 4012, Helena MT 59601

Status: Developing

CHINESE DIGGINGS Gold

Boulder dist. [75], sec. 5, 8, 9, T. 5 N., R. 4 E.

Operator: S & G Mining Co.

Thomas Gwynn, Manager, Resource Development

Box 3049, Sheridan WY 82801

Owner: Kiewit Mining and Engineering Co.

1000 Kiewit Plaza, Omaha NE 68131

Status: Inactive

#### Lewis and Clark County: Helena 59601

\*FRENCH BAR PLACER Sapphire, gold

Missouri River dist. [101], sec. 4, 5, T. 10 N., R. 1 W.

Owner-Operator: James McMaster Box 483, East Helena MT 59635 Status: Produced, producing

FRENCH BAR UNDERWATER SECTION

Gold, sapphires, garnets, rubies

Missouri River dist. [101], sec. 4, T. 10 N., R. 1 W. Operator: Montana Gold and Sapphires, Inc.

MacDonald M. Mader II Box 155, Helena MT 59624

Owner: State of Montana, Helena MT

Plant: 8" suction dredge Status: Developing

\*PRETTY GIRL PLACER Gold Sec. 9, 10, T. 9 N., R. 4 W. Operator: Al Ballard, P.G. Mine, Box 106, Wolf Creek MT 59648 Owner: Ballard Mining Corp.

1712 Grizzly Gulch, Helena MT 59601

HAWKEYE PLACER Gold

R. L. Lynn, President

Status: Developing

Sec. 24, 25, T. 7 N., R. 2 W.

Owner-Operator: Lynn Mines & Mining, Inc.

690 S. Hilltop Road, Columbia Falls MT 59912

Employees: 4 Mill capacity: 40 y/h Status: Produced

#### Lincoln County: Libby 59923

HARRY HOWARD GROUP Placer gold

Sec. 27, T. 29 N., R. 31 W.

Owner-Operator: Donald C. and Marie O. Cripe

Route 1, Box 929-B, Libby MT 59923

#### Madison County: Virginia City 59755

\*BUBANY PLACER Gold

Browns Gulch dist. [129], sec. 16, 21, T. 6 S., R. 3 W. Owner-Operator: Montana Minerals Browns Gulch

Placer, Box 34, Virginia City MT 59755

Status: Produced, developing

NORWEGIAN PLACER Gold Norwegian Creek dist. [118], NE¼ sec. 31, T. 2 S., R. 1 W.

Operator: Clinton Cain, Alder MT 59710; Darrel Taylor, Norris MT 59745

Owner: L. L. Higinbotham, Harrison MT 59735

Status: Inactive

#### Meagher County: White Sulphur Springs 59645

\*BLUE JAY PLACER Gold

Beaver Creek dist. [131], sec. 3, T. 8 N., R. 4 E.

Owner-Operator: Norman Walters

Box 722, White Sulphur Springs MT 59645

Status: Developing

\*CAMP ROBBER PLACER Gold Thompson Creek dist. [131], sec. 22, 27, T. 9 N., R. 4 E. Owner-Operator: Larry Burns

Box 324, White Sulphur Springs MT 59645

Status: Inactive

\*HUNGRY HOLLOW PLACER Gold

Beaver Creek dist. [131], sec. 23, 24, T. 10 N., R. 3 E.

Owner-Operator: Howard Weaver, Albert Bodle Box 215, White Sulphur Springs MT 59645

Status: Inactive

\*MARY SUE PLACER Gold

Beaver Creek dist. [131],

SE¼ sec. 24, T. 10 N., R. 4 E. Owner-Operator: Raymond J. Heinrich Box P, White Sulphur Springs MT 59645

Status: Developing

#### Mineral County: Superior 59872

\*F. D. PLACER Gold

SE¼ NE¼ SW¼ and SE¼ SW¼ SW¼ sec. 8; N½ N½ NW¼ sec. 17, T. 12 N., R. 24 W.

Owner-Operator: Fred D. Slemes

Box 143, Alberton MT 59820

Employees: 3 Status: Developing

LOST GULCH PLACER Gold

Cedar Creek dist. [135], sec. 24, T. 16 N., R. 27 W.

Owner-Operator: Ray Wagner Box 137, Ravalli MT 59863

Status: Producing

\*MEADOW CREEK PLACER Gold

Sec. 24, T. 15 N., R. 25 W.

Owner-Operator: C & H Company

c/o Sam Coleman, Box 74, Superior MT 59872

Status: Developing

\*STEMWINDER PLACER Gold

Cedar Creek dist. [135], sec. 29, T. 15 N., R. 27 W.

Owner-Operator: George Gildersleeve

Box 565, Superior MT 59872

Status: Developing

\*SUNRISE CREEK PLACER Gold Sec. 21, T. 15 N., R. 26 W.

Owner-Operator: C & H Company

c/o Sam Coleman, Box 74, Superior MT 59872

Status: Developing

TRIANGLE PLACER Gold

Quartz Creek dist. [135], sec. 3, T. 14 N., R. 26 W.

Owner-Operator: Victor D. Wright Box 40, Superior MT 59872

Status: Developing

\*TROUT CREEK PLACER Gold

Trout Creek dist. [135], sec. 28, T. 16 N., R. 26 W.

Owner-Operator: Mrs. Joe Arpan Box 51, Superior MT 59872

Status: Inactive

#### Missoula County: Missoula 59801

\*CLAY LEWIS PLACER Gold

Nine Mile dist. [146], sec. 16, T. 17 N., R. 24 W.

Operator: Clay Lewis

Huson MT 59846

Owner: Stanley McElligett Family

1001 Stella Road, Longview WA 98632

Employees: 1

Status: Producing

\*IDA A. PLACER Gold Nine Mile Creek dist. [146],

sec. 15, T. 16 N., R. 23 W.

Operator: Albert Byron Peterson, Claude DeValle

1859 S. 9th St. W., Missoula MT 59801

Owner: A. B. Peterson

1859 S. 9th St. W., Missoula MT 59801

#### Missoula County (continued)

NINE MILE PLACER Placer gold Sec. 13, 14, 23, 24, T. 16 N., R. 23 W. Owner-Operator: U.S. Antimony Corp. John C. Lawrence, Pres. Box 643, Thompson Falls MT 59873

Employees: 5 Status: Producing \*ROBIN L. PLACER Gold Nine Mile Creek dist. [146]. sec. 21, T. 17 N., R. 24 W. Owner-Operator: Mary C. Anliker 923 Spartan Dr., Missoula MT 59801

Status: Developing

#### Park County: Livingston 59047

\*STILLWATER RIVER PLACER Gold New World dist. [154], sec. 9, 10, 16, T. 9 S., R. 14 E. Owner-Operator: Margaret Reeb General Delivery, Livingston MT 59047 Status: Inactive

#### Powell County: Deer Lodge 59722

\*BIG SKY PLACER Gold, placer gold Pioneer dist. [163], sec. 1, T. 8 N., R. 11 W. Owner-Operator: T & B Mining Co., Inc. 621 Kentucky, Box 9, Deer Lodge MT 59711 Status: Unknown

KLONDIKE ORE #1 Placer gold Finn dist. [159], sec. 2, T. 12 N., R. 8 W. Owner-Operator: Ernest H. and Bill E. Young Box 568, Deer Lodge MT 59722

Status: Developing

OLYMPIC #2 Placer gold Finn dist. [159], sec. 11, T. 12 N., R. 8 W. Owner-Operator: Ernest H. and Bill E. Young 102 N. Main, Deer Lodge MT 59722

Status: Developing

\*SILVER BAR PLACER Placer gold Big Blackfoot dist. [156]. sec. 15, 16, 21, 22, T. 13 N., R. 10 W. Owner-Operator: Roy A. Betlach Route 7, Spokane WA 99206 Mill capacity: 20-50 t/d Status: Inactive

\*YOUR NAME PLACER Placer gold, tungsten Sec. 4, 13, 17, 18, 22, 23, T. 13 N., R. 12, 13 W. Owner-Operator: H. C. Craig and Co. 336 Peyton Bldg., Spokane WA 99201 Status: Unknown

#### Silver Bow County: Butte 59701

GLORIA ALICE PLACER Placer gold Highland dist. [187], sec. 2, 28, T. 1 N., R. 7 W. Operator: Baty Mining Co.

Bruce Baty, Pres.

525 Battery Place, #9, Chattanooga TN 37403

Owner: Howard Stratton 2619 Walnut, Butte MT 59701 Status: Producing, developing

HIGHLAND PLACER Gold Highland dist. [187], sec. 28, T. 1 N., R. 7 W. Operator: Howard Stratton, Mark Stratton, Gladstone Crushing and Construction Co. 2619 Walnut St., Butte MT 59701

Owner: Butte Water Co.

124 W. Granite St., Butte MT 59701

Status: Producing

\*MACKEG PLACER Gold Soap Gulch dist. [189], sec. 12, T. 2 S., R. 9 W. Owner-Operator: Lively Mining Co. Box 96, Melrose MT 59743

#### Part 2-Nonmetal Mines, Pits and Quarries

#### **Barite Mines**

#### Beaverhead County: Dillon 59725

\*LUCKY JIM BEAM GROUP MINE Barite Jackson dist. [25], sec. 25, 26, T. 4 S., R. 14 W.

Operator: Elena Jackson Jackson MT 59736

Owner: R. P. Jackson and R. M. Shepherd

Jackson MT 59736 Status: Inactive

#### Lincoln County: Libby 59923

KENELTY MINE Barite

Libby dist. [108], sec. 34, T. 27 N., R. 28 W.

Owner-Operator: Montana Barite Co.,

Bob Walish, Mgr.

P.O. Box 3296, Missoula MT 59801

Employees: 4 Status: Producing

#### Mineral County: Superior 59872

BONANZA GROUP Barite

Cedar Creek dist. [135], sec. 29, T. 15 N., R. 27 W.

Owner-Operator: Fern and George Gildersleeve

Box 568, Superior MT 59872

Status: Developing

\*MULLEN BARITE MINE Barite

St. Regis dist. [141], sec. 9, T. 18 N., R. 28 W.

Owner-Operator: June Alexander Box 167, St. Regis MT 59866

Mill capacity: 50 t/d Employees: 4 Status: Developing

#### Missoula County: Missoula 59801

\*\*COLOMA MINE Barite

Coloma dist. [143], sec. 31, T. 13 N., R. 14 W.

Owner-Operator: Montana Barite Co.

Bob Walish, Mgr.

Box 3296, Missoula MT 59801

Mill capacity: 40 t/h Status: Producing

ELK CREEK MINE Barite

Elk Creek dist. [145],

sec. 15, 16, 20, T. 13 N., R. 14 W.

Owner-Operator: Montana Barite Co.

Bob Walish, Mgr.

P.O. Box 3296, Missoula MT 59801

Status: Producing

FROSTBITE DEPOSIT Barite

Elk Creek dist. [145], sec. 20, T. 13 N., R. 14 W.

Operator: Montana Barite Co.

Bob Walish, Mgr.

P.O. Box 3296, Missoula MT 59801

Owner: Anaconda Minerals Co.

**Butte MT 59701** Status: Inactive

#### **Bentonite Pits**

#### Phillips County: Malta 59538

\*AMERICAN COLLOID PIT Bentonite

Sec. 6, T. 26 N., R. 31 E. Operator: American Colloid Co.

Malta MT 59538

Owner: American Colloid Co. 5100 Suffield Ct., Skokie IL 60076

Status: Inactive

MALTA PLANT Bentonite

NW 1/4 SE 1/4 sec. 16, T. 30 N., R. 30 E.

Operator: American Colloid Co. Malta MT 59538

Owner: American Colloid Co.

5100 Suffield Ct., Skokie IL 60076

Mill capacity: 500 t/d Employees: 6

Status: Producing

#### Chlorite Mines

#### Madison County: Virginia City 59755

\*ANTLER MINING COMPANY PIT Chlorite Silver Star dist. [126], sec. 14, T. 2 S., R. 6 W. Owner-Operator: Sylvan Donegan, Jr., Robert Nolte Box 304, Twin Bridges MT 59754

Employees: 3 Status: Producing

#### Clay Mines and Pits

#### Deer Lodge County: Anaconda 59711

\*PLACER FIRE CLAY PIT Fire clay

Sec. 34, T. 5 N., R. 11 W. Owner-Operator: Harold Snow Box 1155, Anaconda MT 59711

Status: Inactive

#### Jefferson County: Boulder 59632

\*CALICO CLAY PIT Pottery clay

Sec. 36, T. 2 N., R. 3 W.

Owner-Operator: Robert C. and Barbara Nevin

Box 5, Cardwell MT 59721

Mill capacity: 50 g/d Employees: 1

Status: Producing

#### Fluorspar Mines

#### Mineral County: Superior 59872

SNOWBIRD MINE Acid-grade fluorspar Unorg., sec. 19, T. 12 N., R. 25 W. Owner-Operator: Paul and Jerry Carter RFD 1, Box 79, Spanish Fork UT 84661, and Al Willden, 347 S. Main, Spanish Fork UT 84661

Status: Inactive

#### Silver Bow County: Butte 59701

\*\*FOURTH ESTATE MINE Fluorspar, gold Summit Valley dist. [183], sec. 13, T. 3 N., R. 9 W.

Owner-Operator: Tom Helehan Box 235, Butte MT 59701

Status: Developing

#### **Graphite Mines**

#### **Broadwater County: Townsend 59644**

BLACK DIAMOND GROUP Graphite Indian Creek dist. [35].

sec. 17, 20, 29, 32, T. 7 N., R. 1 E.

Owner-Operator: Black Diamond Graphite Co.

Jim Hill, Mgr., Clancy MT 59634

Status: Developing

#### Gypsum Mines

#### Fergus County: Lewistown 59457

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

Mill capacity: 240 t/d

Employees: 35 Status: Producing

#### Limestone Mines and Quarries

#### Beaverhead County: Dillon 59725

\*\*WHITE LIME GROUP Limestone Argenta dist. [2], sec. 17, T. 6 S., R. 10 W. Owner-Operator: Rudy Nygren Argenta Star Route, Dillon MT 59725

Status: Inactive

#### Limestone (continued)

#### **Broadwater County: Townsend 59644**

\*CONTINENTAL LIME INC. PLANT Quick lime,

limestone

Indian Creek dist. [35], sec. 28, 33, T. 7 N., R. 1 E.

Operator: Continental Lime Inc.

P.O. Box 550

Owner: Steel Brothers Canada 215-10451 Shellbridge Way Richmond, B.C., Canada V6X 2W8

Mill capacity: 480 t/d Employees: 20 Status: Producing

#### Carbon County: Red Lodge 59068

\*WARREN QUARRY Limestone Sec. 24, 25, T. 8 S., R. 25 E., and sec. 19, 30, T. 8 S., R. 26 E. Operator: Big Horn Calcium Co. P.O. Box 22007, Billings MT 59104 Owner: Big Horn Limestone Co. P.O. Box 1952, Denver CO 80901

Mill capacity: 10 t/hr Employees: 20 Status: Producing

#### Gallatin County: Bozeman 59715

\*TRIDENT QUARRY Portland cement limestone

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

Owner-Operator: Ideal Basic Industries-Cement Div. W. T. Springman, Vice Pres., Prod., Western Div.

P.O. Box 8789, Denver CO 80201

Mill capacity: 330,000 t/y Employees: 100

Status: Producing

#### Jefferson County: Boulder 59632

\*McCLELLAN QUARRY Limestone

McClellan dist. [84], sec. 7, T. 9 N., R. 2 W. Operator: Maronick Construction Co., Inc.

East Helena MT 59635 Owner: E. P. Maronick, Pres.

East Helena MT 59635 Mill capacity: 600 t/d

Employees: 3 Status: Producing

### \*MONTANA CITY QUARRY

Portland cement limestone Sec. 12, 13, T. 9 N., R. 3 W.

Operator: Kaiser Cement Corp. (R. J. O'Hara, Plant Mgr.) Montana City MT 59602

Owner: Kaiser Cement Corp. Kaiser Center, Oakland CA 94600

Mill capacity: 1000 t/d

Employees: 86 Status: Produced

#### Phosphate Mines

#### Powell County: Deer Lodge 59722

RELYEA MINE Phosphate rock

Garrison dist. [160], S1/2 sec. 12, T. 10 N., R. 10 W.

Owner-Operator: George Relyea Estate

Box 116, Garrison MT 59731

Mill capacity: 50 t/d

Status: Inactive

WARM SPRINGS MINE Phosphate rock Garrison dist. [160], sec. 11, 13, 24, T. 10 N.,

R. 10 W.; sec. 19, T. 10 N., R. 9 W. Owner-Operator: Cominco American, Inc.

Garrison MT 59731 Employees: 115

Status: Producing, developing

#### Sapphire Mines

#### Granite County: Philipsburg 59858

GEM MOUNTAIN SAPPHIRE MINE Sapphire [Old Chaussee Sapphire mine]

Rock Creek dist. [67], sec. 16, T. 6 N., R. 16 W.

Owner-Operator: Gem Mountain Sapphire

Richard and Joan Taplin,

P.O. Box 701, Philipsburg MT 59856

Status: Developing

#### Judith Basin County: Stanford 59479

YOGO SAPPHIRE MINE Sapphire

Yogo dist. [92], sec. 19, 20, 21, 22, T. 13 N., R. 11 E. Silica Mines and Quarries

Owner-Operator: Intergem, Inc. 3025 S. Parker, Aurora CO 80014

Mill capacity: 500 t/d

Employees: 5

Status: Produced, developing

#### Lewis and Clark County: Helena 59601

\*EL DORADO BAR SAPPHIRE MINE Sapphire

Sec. 2, 10, 11, T. 11 N., R. 12 W. Owner-Operator: El Dorado Inc.

6240 Nelson Road, Helena MT 59601

Status: Producing

FRENCH BAR PLACER Placer sapphire, gold

Missouri River dist. [101], sec. 4, 5, T. 10 N., R. 1 W.

Owner-Operator: James McMaster Box 483, East Helena MT 59635

Employees: 2

Status: Produced, producing

#### FRENCH BAR UNDERWATER SECTION

Gold, sapphire, garnet, rubies

Missouri River dist. [101], sec. 4, T. 10 N., R. 1 W.

Operator: Montana Gold & Sapphire, Inc. MacDonald M. Mader II, Pres.

P.O. Box 155, Helena MT 59624

Owner: State of Montana, Helena MT 59604

Plant: 8" suction dredge Status: Produced, developing

#### Semiprecious Stones

#### Missoula County: Missoula 59801

\*FOUR V's CLAIMS Smoky quartz

Sec. 22, T. 11 N., R. 24 W.

Owner-Operator: Albert E. Volker 1806 S. 10th West, Missoula MT 59801

Status: Producing

#### Shale Pits

#### Gallatin County: Bozeman 59715

\*KANTA PIT Expanded shale

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

Owner-Operator: Kanta Products, Inc.

George E. Kanta, President Box 96, Three Forks MT 59752

Employees: 1

Status: Produced, producing

#### Jefferson County: Boulder 59632

\*CARDWELL PIT Expanded shale

Unorg., E½ W½ sec. 36, T. 2 N., R. 3 W.

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

Owner: State of Montana, Helena MT 59601

Employees: 1 Status: Producing

#### Beaverhead County: Dillon 59725

\*CANYON CREEK QUARRY Metallurgical silica

Sec. 32, T. 1 S., R. 9 W.

Owner-Operator: Industrial Chemical Div., Stauffer

Chemical Co., Box 3146, Butte MT 59702

Mill capacity: 500 t/d Employees: 3

Status: Producing

#### Jefferson County: Boulder 59632

\*BASIN QUARTZ QUARRY Industrial silica

Basin dist. [73], sec. 16, T. 6 N., R. 5 W.

Operator: Pacific Silica Co. Basin MT 59631

Owner: Union Carbide Co.

Portland OR 97200

Status: Inactive

#### Ravalli County: Hamilton 59840

\*\*EAGLE ROCK GROUP Quartz

Unorg., sec. 1, 2, 6, 10, 11, 12, 13, 14, 15, and

22, T. 5 N., R. 19 W.

Owner-Operator: Eagle Rock Mining Co., Inc.

1308 S. 1st St., Hamilton MT 59840

Status: Unknown

#### Soil Conditioners

#### Lake County: Polson 59860

\*MARTIN'S PEAT, INC. Peat Sec. 16, 17, T. 24 N., R. 17 W. Owner-Operator: Martin's Peat, Inc.

Ronald I. Martin, Pres., Swan Lake MT 59911

Employees: 12

Mill capacity: 6,000 t/y Status: Produced

### Stone Quarries Missoula County: Missoula 59801

\*McQUARRIE QUARRY Ballast and road material Clinton (Wallace) dist. [142],

sec. 17, T. 12 N., R. 17 W. Operator: Janney Construction Co., Inc. Box 517, Deer Lodge MT 59723

Owner: Burlington Northern, Inc. St. Paul MN 55101

Mill capacity: 200 t/hr Employees: 10 Status: Producing

#### Park County: Livingston 59047

\*LIVINGSTON MARBLE & 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: H. W. Strong

711 E. Park, Livingston MT 59047

Mill capacity: 18 t/d Employees: 7 Status: Producing

#### Talc Mines

#### Madison County: Virginia City 59755

ADAM AND EVE NO. 1 and NO. 2 Talc Unorg., sec. 30, T. 8 S., R. 4 W.

Owner-Operator: Sam Maloney, Goldie S. Maloney

and others

Box 118, Alder MT 59710

Status: Inactive

\*BEAVERHEAD MINE Talc Sec. 11, 14, T. 7 S., R. 6 W.

Owner-Operator: Cyprus Industrial Minerals 7000 South Yosemite St., Englewood CO 80155

Status: Developing

\*BIG WILLOW NO. 1 and NO. 2 Talc Unorg., sec. 30, T. 8 S., R. 4 W.

Owner-Operator: Sam Maloney, Goldie S. Maloney

and others Box 118, Alder MT 59710

Status: Inactive

JOHNNY GULCH TALC MINE Talc

Sec. 9, T. 9 S., R. 1 W.

Operator: Nicor Mineral Ventures Donald Kennedy, Proj. Manager P.O. Box 296, Ennis MT 59729

Owner: Joint ventures of Nicor Ventures and

Sheridian Land and Mineral Co. P.O. Box 296, Ennis MT 59729

Status: Developing

\*REGAL MINE Talc

Unorg., N½ sec. 2, T. 8 S., R. 7 W. Owner-Operator: Pfizer, Inc.

Box 1147, Dillon MT 59725

Status: Inactive

\*RUBY NO. 1 and NO. 2 MINE Talc Unorg., sec. 11, T. 8 S., R. 4 W.

Owner-Operator: Sam Maloney, Goldie S. Maloney

Box 118, Alder MT 59710

Status: Developing

\*TREASURE CHEST MINE AND PLANT Talc Unorg., NE% NE% sec. 15, T. 7 S., R. 6 W.

Owner-Operator: Pfizer, Inc. Box 1147, Dillon MT 59725

Employees: 118 Status: Producing

\*WILLOW CREEK MINE (RUBY RIDGE GROUP)

Talc

Unorg., sec. 30, T. 8 S., R. 3 W. Owner-Operator: Madison Minerals Inc. Carl Hafar, Jr., 6050 Porter, Butte MT 59701

Status: Inactive

\*YELLOWSTONE (CAMERON) MINE Talc

Sec. 4, T. 9 S., R. 1 W.

Owner-Operator: Cyprus Industrial Minerals 7000 South Yosemite St., Englewood CO 80153

Employees: 101 Status: Producing

#### **Vermiculite Mines**

#### Lincoln County: Libby 59923

\*ZONOLITE MINE Vermiculite

Rainy Creek dist. [109],

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

Owner-Operator: Construction Products Division,

W. R. Grace & Co.

62 Whittemore Ave., Cambridge MA 02140

Mill capacity: 1000 t/d Employees: 200 Status: Producing

#### Madison County: Virginia City 59755

\*CONSTELLATION DEPOSIT Vermiculite

Mineral Hill dist. [119], sec. 26, T. 1 S., R. 3 W.

Owner-Operator: Mine-X, Inc., c/o W. G. Forbes, Pres.

Box 656, Pony MT 59747

Status: Developing

\*GILLIAM VERMICULITE DEPOSIT Vermiculite

Mineral Hill dist. [119], sec. 25, T. 1 S., R. 3 W.

Owner-Operator: Mine-X, Inc., c/o W. G. Forbes, Pres.

Box 656, Pony MT 59747 Employees: 4

Status: Developing

#### Ravalli County: Hamilton 59840

\*WESTERN VERMICULITE COMPANY Vermiculite

Sec. 24, 25, T. 6 N., R. 19 W. Operator: Western Vermiculite Co. P.O. Box 220, Victor MT 59893

Owner: National Vermiculite Corp. and Argee Corp.

Box 220, Victor MT 59875

Mill capacity: 100 t/hr

Employees: 2 Status: Inactive

#### Part 3—Coal Mines

#### Big Horn County: Hardin 59034

\*ABSALOKA MINE Coal Sec. 25, T. 1 N., R. 37 E. Operator: Morrison-Knudsen Co., Inc. Don Cutbirth, Business Manager Box 529, Hardin MT 59034 Owner: Westmoreland Resources

Owner: Westmoreland Resource Box 430, Hardin MT 59034

Employees: 113 Status: Produced

\*EAST DECKER MINE Coal Sec. 11, 12, 14, T. 9 S., R. 40 E. Owner-Operator: Decker Coal Co. Box 12, Decker MT 59025

Employees: 242 Status: Producing

SPRING CREEK MINE Coal Sec. 16, T. 8 S., R. 40 E. Operator: Spring Creek Coal Co. William Ritchie, Gen. Mgr. Box 67, Decker MT 59025 Owner: NERCO, Inc.

111 SW Columbia, Portland OR 97201 Plant capacity: 10,000,000 t/y

Employees: 112 Status: Producing

\*WEST DECKER MINE Coal Sec. 9, T. 9 S., R. 40 E. Operator: Decker Coal Co.

P.O. Box 12, Decker MT 59025 Owner: Kiewit Mining and Engineering Co., and

Pacific Power and Light Co. 1000 Kiewit Plaza, Omaha NE 68131

Mill capacity: 3,000 t/hr Employees: 222 Status: Producing

#### **Dawson County: Glendive 59330**

\*PEUSE MINE Coal Sec. 13, T. 16 N., R. 53 E. Owner-Operator: Gordon Peuse CB Route, Glendive MT 59330

Mill capacity: 500 t/d Status: Inactive

#### Musselshell County: Roundup 59072

\*P. M. MINE Coal Sec. 13, T. 6 N., R. 26 E.

Owner-Operator: P. M. Coal Mining Co.

Meged Bros.

Goulding Creek Route, Roundup MT 59072

Mill capacity: 100 t/h Employees: 4 Status: Producing STORM KING PIT Coal Sec. 24, T. 6 N., R. 26 E.

Operator: Storm King Coal Mining Co., Inc.

Jerry J. Prouse, Mgr.,

427 Lordwith Dr., #5, Billings MT 59102

Owner: L. Von Bretz

427 Lordwith Dr., #5, Billings MT 59102

Employees: 5 Status: Producing

#### Powder River County: Broadus 59317

\*COAL CREEK MINE Coal Sec. 3, T. 3 S., R. 45 E.

Owner-Operator: Coal Creek Mining Co.

Clayton Tonnemaker, Pres. P.O. Box 145, Ashland MT 59003

Mill capacity: 500 t/d Status: Inactive

#### Richland County: Sidney 59270

\*SAVAGE MINE Coal Sec. 27, T. 20 N., R. 57 E.

Operator: Knife River Coal Mining Co.

Box 32, Savage MT 59262 Owner: Knife River Coal Co.

Douglas Kane, Vice President Operations 1915 Kavaney Dr., Bismarck ND 58501

Plant capacity: 350 t/hr Employees: 17 Status: Producing

#### Rosebud County: Forsyth 59327

\*BIG SKY MINE Coal Sec. 27, T. 1 N., R. 41 E. Operator: Peabody Coal Co.

Tracy Hendricks, Supt. Box 97, Colstrip MT 59323 Owner: Peabody Coal Co.

301 N. Memorial Dr., St. Louis MO 63102

Employees: 129

Mine capacity: 3,000,000 t/y

Status: Producing

\*ROSEBUD MINE Coal

Sec. 1, 2, 3, 4, 5, 9, 10, 12, T. 1 N., R. 41 E.;

sec. 34, 35, T. 2 N., R. 41 E. Owner-Operator: Western Energy Co. Richard T. Dale, Operations Manager

Box 99, Colstrip MT 59323

Employees: 325

Mine capacity: 15,000,000 t/y

Status: Producing

#### **Drill-Core Repository**

The drill-core library, established in 1979, is housed in a permanent facility at the Mineral Research Center south of Butte. The cores are donations from exploration drilling projects in Montana. They are available to individuals, companies and institutions for examination and research purposes. Bureau geologists skeletonize the core in order to provide space for additions to the drill-core library. Most core donations are accompanied by drill logs and location maps. Financial donations also have been received to help support the repository. The table below provides a brief description of the cores available at the repository. To visit the facility, please contact the Montana Bureau of Mines and Geology.

Open-File Report 148 (completed May 1984), gives detailed listings of available core donations, donor, number of holes, depth and location. Locations in most cases are to the quarter section. Donation of core for the past year include additional core from the North Moccasin Mountains by Gold Fields Mining, and from south of Crystal Park and on Stone Creek in the Pioneer Mountains by Utah International. These donations totaled over 18,000 feet of diamond drilling.

#### Available Core

Name	County	Donator
April claims	Madison	U.S. Steel
Aurora-Borealis mine	Madison	Blue Jay Mining Company
Bald Butte	Lewis and Clark	AMAX
Brown's Lake mine	Beaverhead	GE, Utah International
Calvert mine	Beaverhead	Minerals Engineering,
		Utah International
Crystal Park	Beaverhead	Utah International
Cumberland	Meagher	United Nuclear, Russell Manger
Elkhorn mine	Beaverhead	Bethlehem Steel
Emery (Zosell) district	Powell	Gulf Mineral Resources
Emigrant Gulch	Park	AMAX
Ermont mine	Beaverhead	Gold Fields Mining
Golden Sunlight mine	Jefferson	U.S. Bureau of Mines
Heath Oil Shale	Fergus	MBMG
НО	Granite	Union Carbide
Lost Creek	Beaverhead	GE, Utah International
McCartney Mountain	Madison	Freeport Exploration
McDowell Ranch	Carter	Marathon Resources
North Moccasin Mountains	Fergus	Gold Fields Mining
Monitor	Jefferson	Union Pacific Railroad
Ontario Creek	Powell	Utah International
Red Star	Beaverhead	Utah International
Stone Creek	Beaverhead -	Utah International
Silver Bell	Lewis and Clark	Utah International
WASA	Granite	General Crude, Texas Gas, Lake Ronel

# ALL MINERS AND PROSPECTORS SHOULD BE AWARE OF THE STATE LAW PERTAINING TO INSPECTION OF MINES [Title 50-108 (3425)]

"This act shall apply to all mines (except coal and lignite) and individuals, owners, lessors, lessees, agents, partnerships, corporations, managers, operators or employers operating any surface or underground metal or nonmetallic mines in this state. These individuals, owners, lessors, lessees, agents, partnerships, corporations, managers, operators or employers operating any surface or underground metal or nonmetallic mines (excluding coal and lignite) shall report the same to the Workers' Compensation Division (State Inspector of Mines), state the name of the mine, the location of the same, the name of the company, person or persons owning or operating the same, post office address and number of men employed."

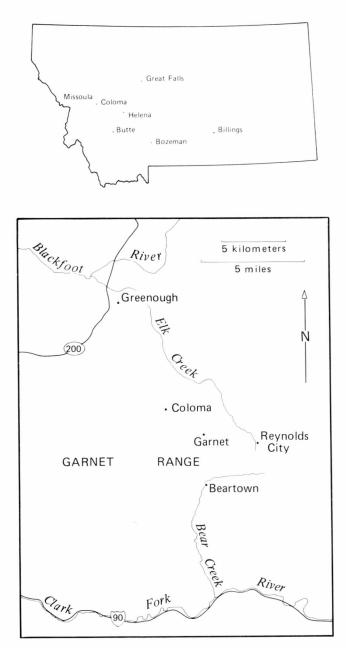


Figure 1—Index maps showing locations of Elk Creek and Coloma.

# The Elk Creek-Coloma mining district, Missoula County, Montana

# by Richard B. Berg

#### Introduction

The Elk Creek-Coloma district is situated 30 miles east of Missoula in the Garnet Range, a timber-covered mountain range of relatively low relief by Montana standards (Figure 1). The highest point in the range is Elevation Mountain (7,073 feet) 5½ miles east of Coloma. The elevation of the old townsite of Coloma is 5,940 feet. All that now remains are several cabins and other wood structures in various stages of collapse. Although there are no active mines at Coloma, there are two operating barite mines in the district and some placer mining along-Elk Creek.

This district has had an interesting and varied history, but in terms of total value has not been a large producer. Total gold production through 1959 from both lodes and placers is estimated to be between 70,000 and 117,000 ounces, of which only an estimated 17,000 ounces are from the lodes at Coloma (Koschmann and Bergendahl, 1968, p. 164). Minor silver and lesser copper were also recovered from the ores. Total barite production from the district, which is by far the largest barite-producing district in Montana, is estimated to be more than 200,000 tons.

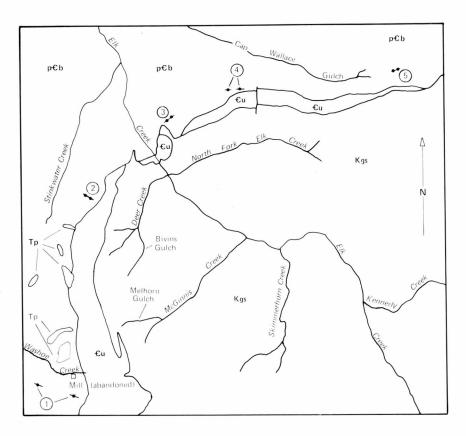
Mineral production has continued intermittently for more than 100 years starting with placer mining for gold in 1865 followed by lode mining at Coloma and, after a hiatus of several years, by renewed placer mining along Elk Creek. In 1951 the first barite mine in Montana was opened above Elk Creek within half a mile of gravel that had been mined for gold. With an interruption caused by poor markets in the late 1960s and early 1970s, barite mining has continued from several mines in the district. During the summer of 1984 exploration for gold was initiated by a major mining company at Coloma, and in the fall of the same year a new barite vein was discovered just south of the district. The future of the Elk Creek-Coloma district is obviously tied to the price of gold and to the demand for barite.

The prospector should be given his due. Most mines in the district are the direct result of his persistence.

No attempt was made to include a discussion of the Garnet (First Chance) district 2½ miles southeast of Coloma; the Copper Cliff district to the southwest; or the Top o' Deep district to the southeast of Coloma.

# Geology

As with many areas in western Montana, the understanding of the geology of this area is the result of the cumulative effort of many geologists over more than half a century. Pardee (1918) provided the first geologic map and description of mineral deposits in the area. In recent years Brenner (1964) and Wallace, Schmidt, Waters, Lidke and



#### **EXPLANATION**

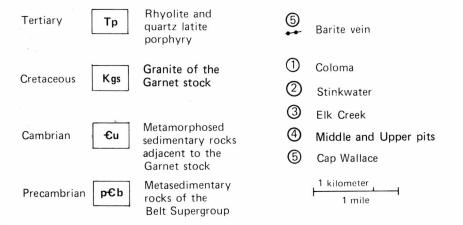


Figure 2—Generalized geologic map of the Elk Creek-Coloma district.

French (1981) added more detail. Information specifically on mineral deposits was provided by Clawson (1957), Sahinen (1957), DeMunck and Ackerman (1958) and Earll (1963). The following synopsis of the geology, as well as the description of barite deposits, is from the author's research on barite deposits in Montana now in preparation for publication by the Montana Bureau of Mines and Geology. The geologic map (Figure 2) is a generalized map from this work.

#### General geology

The Elk Creek-Coloma district straddles the contact between the Garnet stock and Precambrian and Paleozoic metasedimentary rocks (Figure 2). Barite veins have been found only in Precambrian metasedimentary rocks of the Belt Supergroup and gold veins in this district are confined to granite of the Garnet stock.

Three formations of the Belt Supergroup are exposed north and west of the Garnet stock: the Mount Shields Formation north of a high-angle fault along Cap Wallace Gulch, the McNamara Formation northwest of the stock and the more widely exposed overlying Garnet Range Formation. North of Cap Wallace Gulch, the Mount Shields Formation is light gray to light tan to light pink quartzite that contains fine-grained muscovite and minor biotite. The McNamara Formation consists of greenish gray to light olive gray, fine-grained quartzite and siltite. These lithologies grade upward into coarser grained quartzite of the Garnet Range Formation. Quartzite of the Garnet Range Formation is characterized by biotite layers a few millimeters thick that parallel bedding and coarse-grained muscovite that occurs along bedding planes. Color ranges from olive gray to brownish gray with limonite-coated joint surfaces in some outcrops. Metamorphism of the McNamara Formation next to the Garnet stock produced a hornfels containing cordierite porphyroblasts. In the vicinity of the Cap Wallace pit (Figure 2, Locality 5) metamorphism of the Garnet Range Formation produced a muscovite-biotite-quartz-feldspar gneiss.

A stratigraphic section of Cambrian units consisting of (in ascending order), the Flathead Sandstone, Wolsey Shale, Silver Hill Formation and Hasmark Dolomite overlies the Garnet Range Formation. The Flathead Sandstone is a very hard pink to tan vitreous quartzite. In contrast to the resistant Flathead Sandstone, the Wolsey Shale is only exposed where it was metamorphosed to hornfels close to the Garnet stock. The lower shale of the Silver Hill Formation is overlain by mottled black and white dolomite which in turn is overlain by gray limestone. At Coloma, and along the northern contact of the Garnet stock, the Silver Hill Formation was metamorphosed to marble with less pure beds forming skarns. Metamorphic minerals identified in these skarns, listed in order of decreasing abundance, are grossularite, diopside, tremolite-actinolite, clinozoisite, vesuvianite and scapolite. Some of the marble along the western contact of the stock is dolomitic and probably represents metamorphosed Hasmark Dolomite.

The Garnet stock is an epizonal Cretaceous pluton. Elliptical in outcrop, it is elongated in a northeast direction with an exposed area approximately 5 miles by 12 miles. The Coloma-Elk Creek district is situated at the western contact of the pluton. The contact of the pluton with intruded sedimentary and metasedimentary rocks is regionally concordant, but locally discordant. The granite intruded a SE-plunging syncline with a more steeply dipping eastern limb. The contact north of the North Fork of Elk

Creek is nearly vertical and concordant whereas distribution of contact metamorphism and outcrop trace of the contact around Coloma and to the south suggest a very gentle west dip. Dikes and irregular apophyses of granite are abundant where the plutonic contact crosses Elk Creek. Here there is a relatively abrupt change in attitude of bedding of the country rock from the steep dip of the eastern limb of this syncline. In the vicinity of this abrupt change in attitude of bedding more abundant fractures may have facilitated the intrusion of apophyses from the Garnet stock.

In the Elk Creek-Coloma district the Garnet stock is a light gray, medium-grained, biotite-hornblende granite. The granite is generally equigranular with weak lineation and in some instances foliation caused by the alignment of hornblende prisms. Minerals of this granite, listed in order of decreasing abundance, are plagioclase (andesine), quartz, K-feldspar, hornblende, biotite, sphene, magnetite, apatite and zircon. Inclusions of black hornblende, rarely surrounding pale green diopsidic cores, are abundant next to the contact in the vicinity of Coloma.

Dikes and irregular bodies of porphyritic rhyolite and quartz latite are poorly exposed west of the Garnet stock. These rocks contain prominent quartz, K-feldspar, albite and biotite phenocrysts. A previously unpublished K-Ar date on biotite separated from a rhyolite porphyry dike parallel to the barite vein at the Coloma mine is  $45.7 \pm 1.8$  m.y.

#### Gold veins at Coloma

Pardee (1918) provided the most detailed information on the veins and is the source of the following summary.

The gold veins at Coloma, all of which are confined to the granite of the Garnet stock, strike east-west to northeast-southwest and have an average southerly dip of 30° (Figure 3). Most of the veins are less than a foot or two wide and, with the exception of the Comet mine, only ore in the oxidized zone was mined. The sequence of sulfide deposition in these quartz veins is inferred by Pardee (1918, p. 199) to be pyrite, chalcopyrite and tetrahedrite. He suggests that the deposition of tetrahedrite is unrelated to the distribution of gold-bearing pyrite. Barite is not a gangue mineral in these veins. The lack of barite in gold veins is an indication that the processes that formed the barite veins were independent of those responsible for the formation of the gold-quartz veins at Coloma.

The Mammoth mine was the largest producer of gold at Coloma. Production was estimated to be worth \$200,000 for the years prior to 1916, at the then prevailing price of \$20.67 per ounce. Production since 1916 has been considerably less. Sulfide ore at a depth of 270 feet in this shaft mine was reported by Pardee (1918, p. 196-197) to average between \$20 and \$30 a ton in gold with higher grade oxidized ore in the upper levels.

The Valley, Crystal Spring, Clemantha and Rambler veins north of the Mammoth vein are approximately parallel to this vein. Of these veins the only one with any significant reported production is the Clemantha. In the years before 1916 this vein produced \$40,000 worth of direct-shipping ore.

The Cato vein, situated southeast of the main concentration of veins, was the first vein to be worked in the district, but evidently did not produce much ore. The Comet

vein is also separated somewhat from the other veins of the district, lying three quarters of a mile northeast of the Mammoth vein. Although developed to a depth of 500 feet by a two-compartment shaft and several levels including one 1000-foot crosscut, the mine was not very productive and, considering the amount of development undertaken on this property, it was probably far from a profitable venture. In a proprietor's report, prepared around 1905, W. D. Rumsey stated that the Comet vein averaged 2 feet wide and carried an average of \$17 worth of gold per ton.

The Dixie mine east of Coloma was developed by a 275-foot adit on a vein striking approximately N 50° E and dipping 22° southeast. The vein varies from 6 inches to 1 foot wide and was reported to range between \$100 and \$300 per ton in gold (Sahinen, 1957, p. 27-28).

The occurrence of gently dipping veins at Coloma, situated close to the roof of the Garnet stock in an area where evidence favors a gently dipping contact, encourages speculation that blind veins may await discovery in the granite under the marble cover west and south of Coloma.

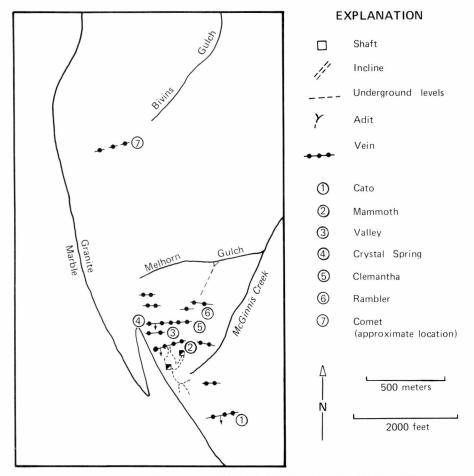


Figure 3-Veins at Coloma (modified slightly from Pardee, 1918, p. 196).

# Placer deposits along Elk Creek

As for most placer districts, detailed information either on gold production or the actual placer deposits along Elk Creek is not available. Pardee (1918, p. 232) estimated the value of gold production from these placers to be at least \$1,000,000 and perhaps more than \$2,000,000. Lyden (1948, p. 108) estimated that production for the years between 1916 and 1948 amounted to \$105,000. The only published description of gold from Elk Creek is that of Pardee (1918, p. 232-235) and it is summarized below.

Gold is found in the gravels of Elk Creek and its tributaries draining the Coloma and Garnet districts, the obvious sources of the placer gold. Gold is also found in Washoe Creek southwest of Coloma. Fineness of gold from Elk Creek is 906 and is generally in flat flakes, smaller than those found in the Bear Gulch placers south of Garnet. Color of the gold is deep yellow, although some particles that laid undisturbed in the gravel for a long time, are coated with limonite, giving the gold a rusty coating. Virtually the entire stretch of Elk Creek shown in **Figure 2** was placer mined at least once for gold.

#### **Barite veins**

Barite has been mined at nine localities in the district, six of which are briefly described. The largest mine is the underground Elk Creek mine (Figure 2, Locality 3) which has a probable total production in excess of 120,000 tons of barite. At present two mines are active, the Coloma and Elk Creek mines. All of the barite veins within the district occur in quartzite of the Garnet Range Formation and are within a mile of the

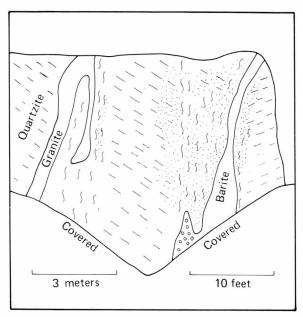


Figure 4—Sketch of Elk Creek barite vein exposed in cut. Dashed lines represent attitude of bedding in quartzite of the Garnet Range Formation, wiggly lines represent numerous fractures and shear planes and stippling indicates limonite along fractures.

exposed contact of the Garnet stock; most are within half a mile of the contact. This is the largest known concentration of barite in Montana.

The barite is white, coarse grained and of high purity. Included fragments of country rock are the most common contaminant. Veins are nearly vertical and shearing parallel to the veins has in some instances caused pronounced alignment of the long axes of barite grains in a plane parallel to the walls of the vein (Figure 4). Because the barite deformed easily even during brittle deformation, brecciated barite is rare. However, barite has cemented brecciated quartzite. In common with barite veins elsewhere in metasedimentary rocks of the Belt Supergroup, barite veins in this district pinch and swell over short distances. This variation in thickness is probably caused by both variation in original thickness of the barite vein as deposited and also modification of the vein by movement along shear planes subparallel to the vein.

Quartzite of the Garnet Range Formation is microfractured next to some veins as a result of cataclastic deformation coeval with shearing along the veins. Hydrothermal alteration next to barite veins was only recognized in the Middle and Upper pits where feldspars in the quartzite next to the barite veins were kaolinized. Pale pink andalusite grains found in the crumbly quartzite next to several of the barite veins may also be of hydrothermal origin. The only known occurrence of sulfides within barite veins of the district is at the southwestern end of the vein at the Elk Creek mine where pyrite, pyrrhotite, galena and sphalerite have been found (DeMunck and Ackerman, 1958, p. 14).

The location of these barite veins is controlled by stratigraphy, structure and proximity to the Garnet stock. A likely source of the barium in these veins is the surrounding quartzite of the Garnet Range Formation. Harrison and Grimes (1970), as well as other investigators, have shown that rocks of the Belt Supergroup generally contain barium at a concentration greater than 200 ppm. Barium and sulfate ions transported in aqueous solutions evidently replaced quartzite along faults. Heat from the cooling pluton would have caused more active convective movement of ground water near the stock, providing a mechanism for more efficient concentration of barite into veins in the area. A more detailed discussion of the origin of these and other barite veins will be presented in a report in preparation on barite deposits in Montana.

The Coloma mine (**Figure 2**, *Locality 1*) is the southernmost barite deposit in this district. This NW-trending vein has been mined on both sides of Washoe Creek and is now being mined on the east side of the creek where it is locally more than 10 feet thick. Unfortunately, this vein is highly variable in thickness and in some exposures appears more podlike than veinlike. A vertical quartz latite dike lies along the northeastern contact of this vein at the large open cut east of Washoe Creek.

The Stinkwater vein (**Figure 2**, *Locality 2*) also strikes northwest. This vein was mined in an open cut where it crosses the ridge between Stinkwater Creek on the west and Deer Creek on the east. Apparently the vein does not continue downhill along strike in either direction. Where exposed in prospect trenches in 1963, the vein was between 1 and 5 feet thick (Brenner, 1964, p. 76).

The Elk Creek mine, known as the Greenough mine in earlier days, was the first barite mine in Montana and has produced more barite than any other mine in Montana, (Figure 2, Locality 3). It is now an important source of barite for the Montana Barite

Company. Mining is currently from a decline from the lowest of three levels. This level was driven for 650 feet in granite of the Garnet stock before reaching quartzite of the Garnet Range Formation which is encountered for another 250 feet before intersecting the barite vein. The vein ranges up to 27 feet thick (DeMunck and Ackerman, 1958, p. 14), but a more typical thickness throughout much of the mine is 8 feet. In the lowest level this vein pinches out completely from a 19-foot thickness within only 175 feet along the drift. However, where this vein is now being mined below this level, it has an average thickness of 11 feet. A fault that locally parallels the vein is exposed along the hanging wall, then cuts across the vein and is exposed along the footwall (Clawson, 1957, p. 23). Clawson also observed that a granite dike parallels the vein and, like the fault, it is exposed along the hanging wall at some places, in the footwall at other locations, and also within the vein. A pegmatite dike also cuts the vein. This barite vein has also been mined from two surface cuts along strike northeastward from the underground mine.

Northeast of the Elk Creek mine another barite vein was mined in the Middle and Upper pits (**Figure 2**, *Locality 4*). Because of concerns about the stability of the steep face on the south side of the Middle pit, mining was discontinued in 1980. Mining of the barite vein at the Upper pit was discontinued in 1955 or 1956. In 1980, a 12-foot thickness of the vertical barite vein in the Middle pit was being mined. A granite dike parallels this vein and is in contact with it on the north side. The Upper pit is 800 feet east of the Middle pit and, although along strike on the same vein, exploration cuts between the two pits failed to expose more than a few small fragments of barite. The granite dike is not exposed in the Upper pit and, because the barite vein had been mined out to the level of the floor of the pit, the thickness of the vein could not be estimated.

The Cap Wallace pit (**Figure 2**, *Locality 5*) has not produced much barite, but it is interesting because of the unusual occurrences of barite. Quartzofeldspathic gneiss formed by contact metamorphism of quartzite of the Garnet Range Formation contains concordant layers of barite up to ½ inch thick. This gneiss is cut by pegmatite veinlets up to several inches thick which contain quartz, K-feldspar, muscovite, black tourmaline and barite. The pegmatite veinlets may have been generated by partial melting of the quartzofeldspathic gneiss during the peak of contact metamorphism. The barite-bearing gneiss is not considered to be an example of a bedded barite occurrence, but is probably a result of remobilization of barite in the Garnet Range Formation during the metamorphism that produced the gneiss.

# History of mining

Historical information was gathered mainly from published sources including the U.S. Geological Survey Mineral Resources of the United States for the years 1905 through 1931 and the U.S. Bureau of Mines Minerals Yearbooks that superseded this series for the years 1932 through 1982. Other sources of information were individuals familiar with the district, the Montana Department of State Lands and the author's own observations.

#### Chronology

- **1852**—The first discovery of gold in Montana in gravel along Gold Creek 30 miles southeast of Coloma.
- 1865 Gold discovered in the gravels of Elk Creek as well as along Bear Creek to the south (Figure 1). Reynolds City, more of a mining camp than a city, sprang up near the head of Elk Creek to serve the influx of miners. By 1866, standard supplies at Reynolds City were not cheap: bacon at 80¢ a pound, potatoes 12 ½¢, salt 50¢, sugar 75¢, and nails 75¢ a pound (Pardee, 1918, p. 231). Within three or four years the easily mined ground had been worked out and the miners moved to more productive districts. Pardee (1918, p. 232) estimated that between 1865 and 1916 \$1 to \$2 million worth of gold was removed from the Elk Creek placers, mainly in the 1865-1870 period. During this period of intense activity, Chinese immigrants were an important part of the work force. An example of their diligence can be seen along McGinnis Creek, a tributary of Elk Creek, where a flume was constructed to divert water and enable them to mine the gravel in the bed. The five-foot high walls of this flume were constructed of local rock. Recent placer mining along Elk Creek uncovered some of the posts from old drifts along the bedrock. One miner also reports finding boulders, evidently too large to remove from their underground workings, that were supported by timber props to enable the miners to recover the gold along the bedrock underneath them. At least one recent operator found that, unfortunately for his profitability, the early placer miners were very efficient in their recovery of gold from these deposits.
- 1867 Discovery of gold veins 2 ¼ miles southeast of Coloma at a site that later became the Garnet (First Chance) district.
- 1885 A number of mining claims were staked in the vicinity of what was later to
- 1890—The Mammoth Gold Mining Company acquired the Mammoth mine at Coloma (Figure 3) and by 1898 had constructed a ten-stamp cyanide mill on Washoe Creek (Calderhead, 1898, p. 176). Some of the ore from the Mammoth mine was shipped directly to the smelter and the rest was hauled to the mill where most of the gold was reportedly lost in the tailings (Pardee, 1918, p. 196). All that now remains of the mill on the south side of Washoe Creek are old timbers and bearing blocks for the stamp mill. Tailings from this mill are not evident along this small creek, perhaps indicating that, in common with many mills, only a small quantity of ore was processed.
- 1905—Quantock Mining and Milling Company installed a 15-ton Huntington mill at the Comet mine and accomplished considerable development work on this property. Pardee (1918, p. 199) reported that, A two-compartment shaft, with its collar about 5,250 feet above the sea, is said to have been sunk 500 feet on the vein and several levels were run, one of them a crosscut 1,000 feet to the south. Rumsey, in his proprietor's report, stated that average ore from this mine runs \$17.00 per ton in gold with the highest assay of \$985.00 per ton. Rumsey also stated that the Comet Gold and Silver Mining Company, headed by its president, H. J. Seibel, Jr. of Philadelphia, had 16 mining claims staked at the Comet. It is interesting to speculate on the amount of money that must have been ex-

pended on the Comet vein which was reported to assay considerably less than other veins in the district. It makes one suspect that only the promoter realized a profit on this property. Presumably mining also continued at the Mammoth mine at this time. Rumsey described the Mammoth mine as consisting of a 270-foot deep shaft with about 2000 feet of drifts and a 400-foot incline. According to this promotional report (which may or may not have been entirely factual), that the Mammoth mine contained about 2500 tons of ore that were reported to range in grade from \$20 to \$38 per ton. Rumsey further described the facilities at the Mammoth mine as consisting of, A first class Hoisting Engine, three boilers, Ingersoll-Sargent Air Compressors, Cages, Pumps, etc. A gallows-frame such as you see in Butte on deep Copper Mines, splendid large Shaft House, Boiler and Engine Rooms, Dry, etc., Boarding House, Stables, Office, Library, Reading Room and Cabins. With 2500 tons of ore in sight at the Mammoth mine, a ten-stamp mill on Washoe Creek and a well equipped camp complete with a reading room this must certainly have been the high point in Coloma's short history.

- 1912 Mining continued from two mines at Coloma, probably the Mammoth and the Comet, through 1912, but no further production was reported for the next 25 years. Placer mining on Elk Creek continued intermittently during these years, but on a much smaller scale than in the boom years before the turn of the century.
- 1913—The Elk Creek Hydraulic Mining Company operated a Hendy hydraulic elevator for 108 days handling 14,000 yards of gravel. Unfortunately they recovered only a small quantity of gold. Rumsey reported that the gravel on Elk Creek carried 30 cents per yard in gold.
- 1916—The only activity at Coloma at this time was the driving of a tunnel southeastward to intersect the Mammoth and other veins (Pardee, 1918, p. 197). This tunnel, at an elevation of about 5,350 feet, would be approximately 350 feet below the bottom of the Mammoth mine. Although by September 1916, 1000 feet of tunnel had been completed with about an equal distance remaining, work on the tunnel was stopped about 400 feet short of the Mammoth mine workings.
- 1916-1930s A small amount of gold was recovered from the placers on Elk Creek. The Davey placer was apparently the major and perhaps only producer. No production was reported from the underground mines of the district.
- 1937-1947 Production was reported from the Mammoth and Clemantha mines. A small amount of direct-shipping ore was produced from these mines, in addition to a lesser amount from the Cato. For instance, in 1944 only 57 tons of gold ore were shipped from the Mammoth mine and in 1945 only 44 tons of ore were shipped from the mine to the East Helena smelter.
- 1938-1940 A dry-land dredge began working upstream along Elk Creek from its confluence with the North Fork of Elk Creek. In 1939 a drag-line dredge was also working along Elk Creek. Total production for this three-year period was approximately 2,400 fine ounces of gold. The dry-land dredge handled 110,000 cubic yards of gravel in 1940 and recovered 507 fine ounces of gold for an average recovery of only 0.0046 ounce per yard.

- 1946 Forty six fine ounces of gold and 5 fine ounces of silver were mined from the Elk Creek placers and 32 tons of gold ore were shipped from the Mammoth and Cato claims. Only a small amount of gold was produced from the Elk Creek placers until the 1970s when the dramatic increase in the price of gold caused renewed interest in these deposits.
- 1950 There was some production from the Clemantha fraction and Mammoth claims.
- June 1951 Finlen and Sheridan Mining Company of Butte began mining barite at the Greenough mine on Elk Creek. This underground mine, now generally known as the Elk Creek mine, was the first barite mine in Montana.
- June 1952 A mill for processing barite from the Elk Creek mine was completed and in operation. The mill was situated on the Blackfoot River about 6 ½ miles northeast of the mine. Crude barite ore was crushed and jigged using a diaphragm jig. Ore destined for use as a weighting agent in drilling mud was pulverized. Nearly 3.000 tons of barite ore were mined in 1952.
- 1953—More than 16,000 tons of barite were sold by Finlen and Sheridan from their Greenough mill. Of this production 10,920 tons were ground to 325 mesh for use in the well drilling industry and 5,542 tons of crushed barite were sold to chemical companies and sugar refineries.
- 1955-1956 In addition to continued mining at the Greenough mine, barite was mined at the Middle and Upper pits situated approximately one mile northeast of the Greenough mine. Also, William Dittrich operated the Crystal Spring mine at Coloma and produced some ore. This is the last reported production from the Coloma gold mines.
- Fall 1955—A new barite deposit was discovered by Mr. William Dittrich. As described by Sahinen (1957, p. 43), Dittrich was sitting on the side of the hill where the barite vein is now located, watching the draw below for wild game when a squirrel in a nearby tree began to create a disturbance by chattering. He picked up a stone to throw at the squirrel and noticed the unusual weight of the stone for its size. Upon examining the stone and the surrounding area, he discovered a small vein of barite with an unusual amount of barite float in the surrounding overburden. The area was subsequently staked out as mineral claims by Dittrich and then leased to the National Lead Company.
- March 1956—Second adit crosscut started 110 feet below first adit at the Greenough mine.
- June 1, 1956 National Lead Company purchased the mines and mill from Finlen and Sheridan Mining Company. The mines and mill were then operated by the Baroid Sales Division of National Lead Company.
- July 1956—Mining of the newly discovered Coloma deposit by open cut began. Between July and November 16, 1956 an estimated 10,000 tons of ore and waste were removed from this cut.
- 1963 Discovery of a barite vein on the ridge approximately 2 miles north of Coloma by Jim Frost. This deposit later became known as the Stinkwater mine, named for the Stinkwater Creek just to the west. Mining continued at the Greenough mine with the addition of a third deeper level.

- 1966—Only stockpiled barite ore was milled during the year, and because of decreased demand for barite the National Lead Company closed their mill in November. The mill was subsequently dismantled and sold.
- 1970s Placer mining increased substantially along Elk Creek. By the summer of 1980 there were three active placer mines working along the drainages. Between 1978-1983, 225 ounces of gold were recovered from a lease on State section 36, T. 13 N., R. 14 W. along Elk Creek. Placer mining activity decreased in the early 1980s.
- 1976 Montana Barite Company, a newly formed company, began mining barite from the Coloma and Stinkwater mines. Barite ore was milled at their newly constructed Missoula mill for use as a weighting agent in drilling mud.
- 1980 Barite was mined from both the Coloma deposit and from the Middle pit. Mining at the Middle pit, after it had first been dewatered, was carried on by two men who, on a good day, could mine 150 tons of barite from this vertical vein with a 12-foot mineable width.
- 1981 The lowest adit of the Elk Creek mine was reopened preparatory to further mining of barite.
- 1983—Nicor Mineral Ventures acquired the Montana Barite Company and continued mining and milling of barite under the name Montana Barite Company.
- 1983-Present Montana Barite Company continues to mine barite from the Coloma mine, now entirely an open cut. Barite is also mined from the Elk Creek mine using a decline from the lowest level.
- 1984—Anaconda Minerals Company staked claims adjacent to Coloma and did some trenching and sampling. In the fall of 1984 a barite vein reported to be of mineable width was found by a prospector south of the area shown in Figure 2.

# Acknowledgements

This article benefitted from the reviews and suggestions for improvement by Mervin J. Bartholomew, Fred N. Earll, Mindy Mason and Robert C. Walish. Their comments are appreciated.

#### References cited

- **Brenner**, R. L., 1964, Geology of the Lubrecht Experimental Forest, Missoula County, Montana [Master's thesis]: Montana State University, Missoula, Montana, 90 p.
- Calderhead, J. H., 1898, Sixth annual report of the Bureau of Agriculture, Labor and Industry, year ending November 30, 1898, State of Montana.
- Clawson, P. N., 1957, Geology of the Greenough barite mine, Missoula County, Montana [Master's thesis]: Montana State University, Missoula, Montana, 42 p.
- DeMunck, V. C., and Ackerman, W. C., 1958, Barite deposits in Montana: Montana Bureau of Mines and Geology Information Circular 22, 30 p.
- **Earll, F. N.**, 1963, Economic geology—metallic resources, *in* Geology of the Garnet-Bearmouth area, western Montana, Marvin E. Kauffman: Montana Bureau of Mines and Geology Memoir 39, 40 p.

- Harrison, J. E., and Grimes, D. J., 1970, Mineralogy and geochemistry of some Belt rocks, Montana and Idaho: U.S. Geological Survey Bulletin 1312-0, 49 p.
- Koschmann, A. H., and Bergendahl, M. H., 1968, Principal gold-producing districts of the United States: U.S. Geological Survey Professional Paper 610, 283 p.
- Lyden, C. J., 1948, The gold placers of Montana: Montana Bureau of Mines and Geology Memoir 26, 152 p.
- Pardee, J. T., 1918, Ore deposits of the northwestern part of the Garnet Range, Montana: U.S. Geological Survey Bulletin 660-F, p. 159-239.
- Rumsey, W. D., (no date), Proprietor's report on the Garnet mining district, 14 p.
- Sahinen, U. M., 1957, Mines and mineral deposits Missoula and Ravalli counties, Montana: Montana Bureau of Mines and Geology Bulletin 8, 63 p.
- Wallace, C. A., Schmidt, R. G., Waters, M. R., Lidke, D. J. and French, A. B., 1981, Preliminary geologic map of parts of the Butte 1° X 2° quadrangle, central Montana: U.S. Geological Survey Open-File Report 81-1030.

# **Appendix**

Table 1-Nonfuel mineral production in Montana\* (from U.S. Bureau of Mines).

			1983	1	984**
Mineral	Measure	Quantity	Value (thousands)	Quantity	Value (thousands)
Antimony	short tons	253	W	_	_
Barite	thousand short tons	10	\$ 750	W	W
Clayst	thousand short tons	194	6,205	434	\$ 13,238
Copper (recoverable					
content of ores, etc.)	metric tons	33,337	56,245	W	W
Gem stones		NA	300	NA	400
Gold (recoverable content					
of ores, etc.)	troy ounces	161,436	68,449	W	W
_ead (recoverable content					
of ores, etc.)	metric tons	1,163	556	W	W
Lime	thousand short tons	86	W	W	W
Sand and gravel (constr.)	thousand short tons	<b>‡5,000</b>	<b>‡10,200</b>	5,400	12,900
Silver (recoverable content					
of ores, etc.)	thousand troy ounces	5,708	65,299	W	W
Stone, crushed	thousand short tons	872	2,344	1,300	3,900
Combined value of cement,					
graphite, gypsum, iron ore,					
molybdenum, peat, phosphate					
ock, sand and gravel (indus-					
trial), stone (dimension), talc,					
vermiculite, and values indi-					
cated by symbol W		XX	82,947	XX	217,523
TOTAL		XX	\$293,295	XX	\$247,961

<sup>\*</sup>Production as measured by mine shipments, sales or marketable production (including consumption by producers).

Note: Montana coal production in 1984 was 33,053,890 tons, produced from 9 mines (from Department of Labor and Industry).

<sup>\*\*</sup>Preliminary.

<sup>‡</sup>Estimated.

<sup>\*</sup>Excludes fire clay; value included in "Combined value" figure.

<sup>(</sup>NA), not available; (W), withheld to avoid disclosing company proprietary data (value included in "Combined value" figure); (XX), not applicable.

#### List 1

#### **Major Montana Exploration Projects**

Cabinet Project

Pacific Coast Mines

T. 27 N., R. 34 W., Lincoln County

Copper, silver

Rock Creek Project

ASARCO, Inc.

T. 27 N., R. 32 W., Lincoln County

Copper, silver

PGM Stillwater Joint

Venture Project

Stillwater PGM Resources

Anaconda Minerals Company Chevron and Johns-Manville

Stillwater Complex

Stillwater and Sweet Grass counties

Platinum-group metals

# List 2

# **Supplemental List of Mining Enterprises**

This list includes mining enterprises that have been inactive up to three years, or have not returned questionnaires. The abbreviations used to describe their former status are: (I), inactive; (U), unknown.

BEAVERHEAD COUNTY			LINCOLN COUNTY		
Calvert mine	1	1983	Lost Cause	1	1982
Cleve-Avon and Franklin mine	1	1984	MADISON COUNTY		
Comet group	1	1983			1000
Grasshopper placer	1	1982	Easton Pacific mine	!	1982
Ground Hog mine	1	1983	Exchequer mine	!	1984
Hecla group	1	1982	Gold Bar mine	!	1982
Last Chance mine	U	1983	Lucky Strike mine	+	1982 1984
Lost Creek mine	1	1984	Mueller mine U.S. Grant mine	- 1	1984
CARBON COUNTY					1304
Brophy No. 2 mine	1	1983	MEAGHER COUNTY		201020-2011
CASCADE COUNTY			Rich-Mich placer	U	1984
Spoofer mine	1	1983	MINERAL COUNTY		
FERGUS COUNTY	•	1000	Nancy Lee mine	1	1984
		1000	MISSOULA COUNTY		
Lewistown pit	U	1983	Bellview mine	ĭ	1982
GRANITE COUNTY					1002
Cadgie-Taylor mine	1	1984	POWELL COUNTY		
Ivanhoe mine	1	1982	Pineau placer	1	1982
Lycoming mine	1	1984	RAVALLI COUNTY		
Mickey mine	1	1982	Molly 1, 2, 3, 4 & 5 mine	Î.	1982
JEFFERSON COUNTY				*	
Big Major mine		1983	SANDERS COUNTY		
Columbia mine	i	1984	Red Fir (Amazon) mine	U	1983
Rhoades mine	Ú.	1983	SILVER BOW COUNTY		
Skookum placer	Ü	1984	Kelley mine	1	1984
Solar Silver mine	1	1983	3. Marie 1970 1970 1970 1970 1970 1970 1970 1970	,	1001
LEWIS AND CLARK COUNTY			TOOLE COUNTY		
Franklin mine		1984	Gold Butte placer	1	1984
General mine	Ü	1984	VALLEY COUNTY		
Jolly Roger mine	Ü	1984	Glasgow works	1	1983
Lucky Linda mine	Ü	1984	Glasgow works		1303
Lucky Linda IIIIII	U	1304			

88. Whitehall

# List 3

### Mining Districts

Beaverhead Co., D-4 33. Lone Mountain

Granite Co., C-3

Beavernead Co., D-4	34. Marria Culab	Granite Co., C-3	(Cardwell)
1. Ajax	34. Magpie Gulch 35. Park	57. Alps	89. Whitetail
2. Argenta	(Hassel)	(Bonita)	65. Wilitetan
(Montana)	(Indian Creek)	58. Antelope Creek	Judith Basin Co., B-6
3. Bald Mountain	(Townsend)	59. Combination	00 8 1
4. Bannack		(Henderson)	90. Barker
5. Beaverhead	36. Radersburg	(Black Pine)	91. (Hughesville)
(Dark Horse)	(Cedar Plains)	60. Dunkleburg	91. Running Wolf
(Mulchy Creek)	37. Winston	61. Frog Pond Basin	92. Yogo
6. Big Muddy	(Beaver Creek)	62. Garnet	
7. Blacktail	Carbon Co., D-7	(Top-o'Deep)	Lake Co., B-2
8. Bloody Dick	TOO 100 100 100 100 100 100 100 100 100 1	(First Chance)	93. Elmo
(Beaverhead)	38. Clark Fork	63. Maxville	(Chief Cliff)
9. Blue Wing	39. Hellroaring	(Wyman)	
10. Bryant	40. Silver Run	(Gird Creek)	Lewis and Clark Co., B-4
(Hecla)	Cascade Co., B-5	64. Moose Lake	0.4
(Glendale)	50 00 00 00 00 00 00 00 00 00 00 00 00 0	65. Philipsburg	94. Austin
11. Chinatown	41. Neihart	(Flint Creek)	(Greenhorn)
(Armstead)	(Montana)	(Granite)	95. Blue Cloud
12. Dillon		66. Red Lion	96. Gould-Stemple
(Carter Creek)		(Cable Mountain)	(Fool Hen)
(Frying Pan Basin)	Deer Lodge Co., D-3	67. Rock Creek	(Poorman)
13. Elkhorn	42. Blue Eyed Nellie	68. Rose Mountain	97. Heddleston
(Coolidge)	(Silver Lake)	(Gold Creek)	(Blackfoot)
(Wise River)	43. French Gulch	69. South Boulder	(Silver)
14. Horse Prairie	44. Georgetown	(Princeton)	98. Helena
15. Jake Creek	(Southern Cross)	70. Welcome Creek	(Last Chance)
16. Lost Creek	(Cable)		(Springhill)
(Brown's Lake)	45. Girard		(Unionville)
(Rock Creek)	46. Heber	Jefferson Co., C-4	(Owyhee)
17. Medicine Lodge	(Mill Creek)	71. Alhambra	99. Lincoln
18. Monida	47. Lost Creek	(Hot Springs)	(McClellan Gulch)
<ol><li>Mount Torrey</li></ol>	(Dry Gulch)	(Golconda)	(Seven-up Pete Gulch)
20. Niccolia	(Antelope Creek)	72. Amazon	(Keep Cool Creek)
21. Nogo	48. Oro Fino	73. Basin	(Liverpool Creek)
(Apex)	(Dry Cottonwood)	(Cataract)	(Stonewall Mountain)
22. Pioneer		(Comet)	100. Marysville
23. Polaris	Fergus Co., B-7	74. Beaver Gulch	(Bald Butte)
(Lost Cloud)	reigus Co., B-7	75. Boulder	(Ottawa)
<b>24.</b> Ruby	49. Cone Butte	76. Big Foot	101. Missouri River
25. Saginaw	50. North Moccasin	(State Creek)	102. Ophir
(Jackson)	(Kendall)	77. Clancy	103. Rimini
26. Utopia	51. Warm Springs	(Lump Gulch)	(Vaughn)
(Birch Creek)	(Gilt Edge)	(Buffalo Creek)	(Bear Gulch)
27. Vipond Park	(Maiden)	78. Colorado	104. Scratchgravel Hills
28. Wisdom	Flathead Co., A-2	(Corbin)	(Grass Valley)
(Big Hole)		(Gregory)	105. Wolf Creek
Blaine Co., A-8	52. Hog Heaven	(Wickes)	(Gladstone)
	(Flathead)	79. Elkhorn	106. York
<ol><li>Bearpaw Mountain</li></ol>	(Kila)	80. Elk Park	Lincoln Co., A-1
Broadwater Co., C-5	53. Star Meadow	81. Homestake	107 0-1:
	(Lupfer)	82. Little Pipestone	107. Cabinet
30. Confederate Gulch	54. Whitefish	83. Lowland	(Fish River)
(Backer)	Gallatin Co., D-5	84. McClellan	108. Libby (Snowshoe)
(Canton)	34.14.1.1 551, 5 5	(Mitchell Creek)	
(Diamond City)	55. Eldridge	85. Montana City	109. Rainy Creek
31. Deep Creek	56. West Gallatin	86. Nez Perce	110. Sylvanite 111. Tobacco River
32. Hellgate	(Spring Hill)	87. Pipestone	TTT. TODACCO MIVE

# List 3-Mining Districts (continued)

112. Troy
(Grouse Mountain)
(Calahan)
113. Wolf Creek
Madison Co., D-5
114. Bismark
(Wilmah)
115. Cherry Creek
116. McCarthy Mountain
117. Norris
(Lower Hot Springs)
(Upper Hot Springs)
118. Norwegian Creek
119. Pony
(Mineral Hill)
120. Potosi
121. Renova
(Bone Basin)
(Mayflower)
122. Rochester
(Rabbit)
123. Ruby Mountains
124. Sand Creek
125. Sheridan
(Mill Creek)
(Brandon)
(Indian Creek)
(Ramshorn)
126. Silver Star
(Iron Rod)
127. South Boulder
(Mammoth)
128. Tidal Wave
(Twin Bridges)
129. Virginia City
(Summit)
(Pine Grove)
(Highland)
(Fairweather)
(Nevada)
(Junction)
(Alder Gulch)
(Brown's Gulch)
(Granite Creek)
(William's Gulch)
(Barton Gulch)
130. Washington
(Meadow Creek)
(McAllister)

(Elk Creek) (Thompson Creek) 132. Castle Mountains
133. Murray (Battle Creek)
134. Musselshell (Copperopolis)
Mineral Co., B-2
135. Cedar Creek (Quartz Creek) (Trout Creek) 136. Denemora (Big Elk)
(Saltese) 137. Iron Mountain (Superior)
138. Keystone 139. Packer Creek 140. Rock Island 141. St. Regis (Deer Creek) (Ward)
Missoula Co., C-3
142. Clinton (Wallace) 143. Coloma (Potomac) 144. Copper Cliff 145. Elk Creek 146. Nine Mile Creek (Kennedy Creek) 147. Petty Creek 148. Woodman (Lolo) Park Co., D-6
149. Cowles (Haystack) 150. Crevasse 151. Emigrant (Chico) 152. Horseshoe 153. Jardine (Bear Gulch) (Sheepeater)

Meagher Co., C-6
131. Beaver Creek

154. New World	173. Plains
(Cooke City)	174. Prospect Creek
(Blackmore)	175. Revais Creek
	(Dixon)
Phillips Co., A-9	176. Sleepy Creek
( <del>-</del> )	(Belknap)
155. Little Rockies	177. Silver Butte
(Landusky)	(Vermillion)
(Zortman)	
	(Cabinet)
	178. Spring Gulch
Powell Co., C-4	179. Thompson River
7 ONCH 301, 3 4	180. Trout Creek
156. Big Blackfoot	181. White Pine
(Helmville)	(Eagle)
157. Elliston	3
(Ontario)	Silver Bow Co., D-4
(Nigger Hill)	5 22 62
158, Emery	182. Basin Creek
(Zosell)	183. Butte
159. Finn	(Summit Valley)
	(Lost Child)
(Washington)	184. Divide Creek
(Jefferson and	185. Fleecer Mountain
Buffalo Gulches)	186. German Gulch
160. Garrison	(Siberia)
161. Ophir	187. Highland
(Snowshoe)	188, Independence
(Deadwood)	189. Melrose
162. Oro Fino	
163. Pioneer	(Camp Creek)
(Gold Creek)	(Soap Gulch)
164, Racetrack	190. Moose Creek
(Danielsville)	
,,	Stillwater Co., D-7
	ommutator con, z .
Ravalli Co., C-2	191. Nye
	192. Stillwater
165. Curlew	193. Yellowstone River
166. Hughes Creek	
(Alta)	
(Overwich)	Sweet Grass Co., D-6
167. Mineral Point	
168. Pleasant View	194. Big Timber Canyon
169. Slate Creek	195. Boulder River
170. Three Mile	196. Independence
	197. Natural Bridge
Sanders Co., B-1	198. West Stillwater
Sanders Co., D-1	
171. Blue Creek	Toole Co., A-5
(Heron)	Toule Co., A-5

199. Gold Butte

200. West Butte

(Heron) 172. Camas Prairie

(Perma)

List 4
Strippable Subbituminous and Lignite Coal Fields

No.			Est. reserves		<b>4</b>			
on map	Name of field	Coal bed	in millions of tons	Acreage	Average tons/acre	Ash*	Sulfur*	Btu*
1C	Decker	Anderson-Dietz 1 & 2	2,239.99	25,523	87,763	4.0	.40	9,652
2C	Deer Creek	Anderson-Dietz 1 & 2	495.65	14,214	35,397	4.0	.50	9,282
3C	Roland	Roland	218.04	12,076	18,055	9.2	.74	8,164
4C	Squirrel	Roland	133.41	6,208	21,490	5.5	.29	7,723
5C	Kirby	Anderson	216.52	5,655	38,285	4.2	.32	8,328
		Wall	473.69 834.35	5,952	79,579	5.8	.59	8.509
		Dietz Canyon	158.53	17,516 4,066	47,630 38,983	5.8	.24	8,789
6C	Canyon	Wall	1.884.25	23,859	78,974	4.6	.30	9.088
OC.	Carryon	Brewster-Arnold	65.86	2,067	31,859	7.5	.40	8.444
7C	Birney	Brewster-Arnold	180.55	6,969	25,905	5.1	.41	9.055
8C	Poker Jim Lookout	Anderson-Dietz	872.65	19,609	44,501	5.2	.37	7,925
9C	Hanging Woman Creek	Anderson	1,583.29	30,547	51,830	4.9	.29	8.496
	The state of the s	Dietz	1,120.96	43,654	25,678	5.5	.33	8,078
10C	West Moorhead	Anderson	883.74	19,660	44,949	5.3	.36	8,296
		Dietz	397.49	20,416	19,469	4.1	.41	7,990
		Canyon	690.19	22,547	30,611	5.6	.45	8,055
11C	Poker Jim O'Dell	Knobloch	373.29	7,890	47,311	5.1	.22	8,846
		Knobloch	564.78	7,187	78,581			
12C	Otter Creek	Knobloch	2,075.55	25,791	80,475	4.7	.36	8,468
13C	Ashland	Knobloch	2,696.20	27,200	99,125	4.8	. 15	8,421
		Sawyer A & C	357.49	20,262	17,643	4.9	.49	7,883
14C	Colstrip	Rosebud	1,439.26	33,379	43,118	9.5	.12	8,836
15C	Pumpkin Creek	Sawyer	2,426.50	45,695	53,102	7.5	.34	7,438
16C	Foster Creek	Knobloch	708.13	27,801	25,470	7.8	.76	7,573
		Terret	460.87	27,462	16,782	5.8	.21	7,770
		Flowers-Goodale	258.90	14,444	17,924	7.8	.51	7,553
17C	Broadus	Broadus	739.82	18,429	40,142	7.2	.27	7,437
18C	East Moorhead	Ť	525.21	15,559	33,756	6.2	.57	7,120
19C	Diamond Butte	Canyon	418.02	21,363	19,566	4.8	.43	7,330
20C	Goodspeed Butte	Cook	628.95	13,446 8,486	46,775	10.6	1.63	6,771 7,739
21C	Fire Gulch	Pawnee & Cook	336.69 326.33	10,921	39,674 29,880	3.8 9.1	.33	8,175
22C 23C	Sweeney-Snyder Yager Butte	Terret Elk & Dunning	1,175.86	26.924	43.673	4.8	.33	7,646
230	rager butte	Cook	312.02	14,507	21,507	6.7	.63	7,254
24C	Threemile Buttes	Canyon & Ferry	225.40	13,836	16,289	5.5	.94	6,867
25C	Sonnette	Pawnee	320.25	8,224	38,940	9.8	.88	6,964
200	Somette	Cook	362.98	10,470	34,668	8.1	1.23	6,891
26C	Home Creek Butte	Canyon & Ferry	217.21	4,851	44,774	1000		
27C	Little Pumpkin Creek	Sawyer A & C, D, X & E	215.83	8,534	25,290			
28C	Sand Creek	Knobloch	267.34	5,952	44,915	6.6	.30	7,340
29C	Beaver-Liscom	Flowers-Goodale & Terret	135.87	8,851	15,350	8.1	.96	8,102
		Knobloch	491.62	17,075	28,791	7.7	.50	8,027
30C	Greenleaf-Miller Creek	Rosebud, Knobloch and						
		Sawyer	453.71	14,918	30,413	7.5	.71	8,422
31C	Pine Hills	Dominy	193.87	6,022	32,191	7.2	.53	7,293
32C	Knowlton	Dominy (M & L)	747.51	19,613	38,112	7.1	.41	6,710
		Dominy (U)	120.31	4,448	27,048	5.6	.38	6,645
33C	Sarpy Creek	Rosebud-McKay	1,500.00	42,373	35,400	6.5	.50	8,600
34C	Cheyenne Meadows	Knobloch	1,200.00	13,560	88,500	4.1	.40	8,400
35C 36C	Little Wolf Jeans Fork	Rosebud-McKay	314.00 90.00	7,411 3.800	42,370 23.685			
37C	Wolf Mountains		1.922.00	31,000	62,000			
38C	Lame Jones	Dominy	150.00	10,593	14,160			6,020
39C	Lame Jones Lamesteer	Harmon(?)	35.00	1,978	17,700			6,332
40C	Wibaux	C	643.00	18,518	34,720	7.9	.90	6,050
41C	Little Beaver	C	134.00	8.445	15.865	7.5	.50	0,030
42C	Four Buttes	č	91.00	5,180	17,570			6.140
43C	Hodges	-	10.00	807	12,390			5,140
44C	Griffith Creek		10.00	568	17,700			
45C	Smith-Dry Creek	G	150.00	8,475	17,700			
46C	O'Brian-Alkalie Creek	C 8 C	150.00	8,475	17,700			
47C	Breezy Flat	Pust	200.00	7,062	30,090	6.7	.50	6,660
48C	Burns Creek	Pust	200.00	7,062	30,090			
49C	N. F. Thirteen Mile Creek	Pust	225.00	5,085	44,250			6,880
50C	Fox Lake	Pust	46.00	2,166	21,240			6,880
51C	Lane	Lane	561.00	44,582	12,390			7,150
52C	Carroll	Carroll	345.00	29,780	11,584	5.5	.30	7,400

# List 4-Strippable Subbituminous and Lignite Coal Fields (continued)

No. on map	Name of field	Coal bed	Est. reserves in millions of tons	Acreage	Average tons/acre	Ash*	Sulfur*	Btu*
53C	Redwater River	S	642.00	24, 181	26,550	6.1	.40	7,400
54C	Weldon-Timber Creek	S	724.00	25,565	28,320			7,660
55C	Fort Kipp	Ft. Kipp-Ft. Peck	331.00	14,500	22,830	4.6	.20	6,110
56C	Lanark	Lanark	100.00	3,531	12,390	6.3	.40	6,853
57C	Medicine Lake		58.00	3,740	15,510	7.2	1.00	6,870
58C	Reserve		246.00	18,231	13,495	7.6	.40	6,599
59C	Coal Ridge	Coal Ridge	150.00	19,200	17,700	7.5	.40	5,830
60C	Carpenter Creek	Carpenter	50.00	3,211	14,015	6.5	.40	9,270
61C	Charter	Mammoth	60.00	3,210	17,700	6.0	.90	10,190
62C	Little Sheep Mountain	A&C	200.00	10,272	19,470			
		TOTAL	42 561 93	1 152 640				

<sup>•&</sup>quot;As received" basis. Where more than one sample available, average figures are given. (Robert E. Matson, pers. commun., 1973.)

#### List 5

#### New Mining Companies Incorporated in Montana in 1984.

ALJON MINING AND EXPLORATION, INC. John D. Greef

716 South First St., Hamilton MT 59840

ALADDIN MINING CO.

Beverly A. Glueckert

1529 Choteau St., Helena MT 59601

ALLISON RESOURCES INC.

Dennis A. Allison

1639 Yellowstone, Billings MT 59101

ANTELOPE CREEK MINERAL CO.

John A. Adams

Box 227, Melville, MT 59055

ARIES RESOURCES (U.S.) INC.

Joseph Chelini

1110 Dewey Blvd., Butte MT 59701

BASIN RIDGE COAL COMPANY

United States Corporation Company

501 North Sanders St., Helena MT 59601

BATY MINING COMPANY, INC.

Mark Stratton

2619 Walnut St., Butte MT 59701

**BO-MONT EXPLORATION INC.** 

Brice Boedecker

921 N. Kendrick, Glendive MT 59330

CGS MINING INC.

Charles Speak

2001 Monroe, Butte MT 59701

CABRE EXPLORATION INC.

C. T. Corporation

406 Fuller, Box 1166, Helena MT 59624

CATSAM MINING COMPANY

Charles J. Speake, Jr.

2001 Monroe, Butte MT 59701

CENTENNIAL MINERALS INC.

CSC of Montana Inc.

301 First National Bank Bldg., Box 1715,

Helena MT 59624

CHANNEL MINING INC.

Ted J. Doney

314 N. Last Chance Gulch, Helena MT 59601

CONSOLIDATED MINERALS CORPORATION

J. David Penwell

12 North 3rd, Bozeman MT 59715

COOPER-PLYMALE MINING MATERIAL, INC.

Dewey H. Cooper

Rural Route 1, Box 968, Townsend MT 59644

DYNASTY ENERGY EXPLORATION AND

DEVELOPMENT, LTD.

C T Corporation System

406 Fuller, Box 1166, Helena MT 59624

DENIMIL RESOURCES (U.S.) INC.

Rainer Wolf

Pony MT 59747

**EXPLORATION VENTURES COMPANY** 

C T Corporation System

406 Fuller Ave., Box 1166, Helena MT 59624

GEN-REV MINERALS DEVELOPMENTS, INC.

Fred Kern, Jr.

5558 Canyon Court, Helena MT 59601

GILTEDGE GOLD CORPORATION

Winifred Kimpall

907 Water St., Box 924, Lewistown MT 59457

GOLD PEAK MINERALS, INC.

C T Corporation System

406 Fuller Ave., Box 1166, Helena MT 59624

**GOLD PRIZE INCORPORATED** 

James Girdler

Box 514, Pray MT 59065

GOLD RIDGE MINING CO.

George Guay

332 Howard Avenue, Billings MT 59101

GOLDSTONE MINERALS RESOURCE CORP.

C T Corporation System

406 Fuller Ave., Box 1166, Helena MT 59624

HABERSHAM EXPLORATION, INC.

United States Corporation Company

501 N. Sanders St., Helena MT 59601

IDAHO MINERAL AND GOLD EXTRACTION, INC.

Kenneth R. Flatt

Box 758, Lincoln MT 59639

INLAND PACIFIC MINERALS CORPORATION

Jack M. Brooks

2332 Pine St., Billings MT 59101

INTERNATIONAL MINERAL DEVELOPMENT

& RESEARCH, INC.

Joseph Osterbauer

305 Eire, Hamilton MT 59840

JUDITH MT. MINES, INC.

Willard L. Morgan

R.R. 3, P.O. Box 3073 B, Lewistown MT 59457

KEWA EXPLORATION INC.

Michael J. Harwood

220 Main, Shelby MT 59474

KRITI EXPLORATION INC.

C T Corporation System

406 Fuller, Box 1166, Helena MT 59624

KWAPY MINERAL INVESTMENTS, INC.

Robert C. Kwapy

912 Lakeside, Lolo MT 59847

LEE IRELAN MINING COMPANY, INC. Helen Bryno

2001 Highland Ave., Helena MT 59601

LEVON RESOURCES, INC.

Julie White

212 Pinckney St., Hamilton MT 59840

MAGNUM MINERALS DEVELOPMENT, CORPORATION

Michael M. Nash

211 W. Main, Bozeman MT 59715

MEDALLION MINERALS, INC.

Lloyd Wilhelm

1804 Lafayette St., Butte MT 59701

MINERAL CORPORATION OF AMERICA, INC.

Paul G. Olson

720 N. 30th St., Billings MT 59101

MINERS, INC.

Ward A. Shannahan

301 1st National Bank Building, Helena MT 59601

MINE, SHAFT AND TUNNEL CORPORATION

William R. Bovee

318 West Groschell, East Helena MT 59635

M & M STONE, INC.

Marvin Martin

NE 3493 Holly Lane, Stevensville MT 59870

MONTANA MINING CORPORATION

Donald W. Quander

175 N. 27th St., Billings MT 59101

NATURAL RESOURCES CORPORATION OF

TEXAS

C T Corporation System

406 Fuller, Box 1166, Helena MT 59601

OROGRANDE GOLD, INC.

C. I. Miller

2480 E. Broadway #7B, Helena MT 59601

OVERLAND GOLD CORPORATION

CSC of Montana, Inc.

301 1st National Bank Building, Box 1715,

Helena MT 59624

PIONEER MINERALS, INC.

Byrl Thompson

3103 Burlington St., Butte MT 59701

PRECIOUS MINERALS CORPORATION

Michael B. McLaughlin

Gilt Edge Stage Road, Box 945, Lewistown MT 59457

RADERSBURG MINING COMPANY

Dennis R. Miller

Route 1, Box 25-A, Toston MT 59643

RAINBOW GOLD, INC.

Samuel K. Phillips, Sr.

Route 3, Box 3188, Lewistown MT 59457

RAYROCK MINES, INC.

C T Corporation System

406 Fuller Ave., Box 1166, Helena MT 59624

RECREATIONAL GOLD PROPERTIES, INC.

Joy Lynn Twibey

701 1st St., Hamilton MT 59840

SANTA FE MINERALS, INC.

Prentice-Hall Corporation

26 W 6th Ave., Helena MT 59624

SHELL MINING CORPORATION

C T Corporation System

406 Fuller Ave., Box 1166, Helena MT 59624

SIERRA EXPLORATION COMPANY

C T Corporation System

406 Fuller Ave., Box 1166, Helena MT 59624

SITTING BULL MINING COMPANY

CSC of Montana, Inc.

Box 1715, Helena MT 59624

STAR MEADOW MINING, INC.

Ivan Despain

606 W. Arizona, Kalispell MT 59901

SWEETWATER MINING CORPORATION

James C. Reynolds

407 2nd Ave. E., Box 778, Eureka MT 59917

TAP RESOURCES U.S.A.

George H. Corn

212 Pinckney St., Hamilton MT 59840

TRITON MINERALS & ROYALTY, INC.

C T Corporation System

406 Fuller Ave., P.O. Box 1166, Helena MT 59624

UNION RESERVE COAL COMPANY, INC.

Robert L. Stephens, Jr.

316 N 25th, Billings MT 59101

WHITE STONE, INC.

Fred E. Work, Jr.

3311 4th Ave. N., Billings MT 59101

WESTERN EXPLORATION, INC.

CSC of Montana, Inc.

301 First National Bank Building, Box 1715,

Helena MT 59624

YOUNG EXPLORATION COMPANY

Prentice-Hall Corporation System

26 West Sixth Ave., Helena MT 59601

# Index of Mines, Mine Owners and Operators (Mines in Supplemental List [page 46] not included in this Index.)

Abbott, G. S4	Beavernead mine
Abbott, Harry5	Belue, Travis
Absaloka mine	Belus, Martin L1
Acme group	Beniger, F
Adam and Eve No. 1 and No. 225	Bennett, Carroll R 4
Adams, Owen	Berg, Carl
Ajax Gold, Inc1	Berkeley pit
Ajax mine	Bessie and Golden Wave mine 10
Alameda-Wakoosta mine 9	Betlach, Roy A
Alexander, June	Big Horn Calcium Co 23
Aljon Mining and Exploration, Inc 15	Big Horn Limestone Co 23
Allen, Harvey	Big Mary mine 6
AM Mining and Development Co5	Big Sky mine
Amanda mine15	Big Sky placer
Amax Exploration, Inc8	Big Willow No. 1 and No. 2 25
Amazon-Dixie mine	Bigler group
Amazon-Dixie Mining Co	Billern Corp
AMCO Minerals	Bingham, Jack9
American Colloid Co	Black Bull mine 4
	Black Butte mine
American Colloid pit	Black Canyon placers
American Smelting & Refining Co., Inc9	Black Diamond Graphite Co23
Anaconda Minerals Co	Black Diamond graphite Co
Anderson, Richard	Black Diamond group
Anliker, Mary C	Black Pine mine
Antler Mining Co. pit	Black Pine Mining Co
Antonioli, Peter J., Estate	Blue Bird mine
Argee Corp	Blue Jay placer
Arpan, Joe, Mrs20	Bluebell group
ASARCO, Inc9	Bodle, Albert
Ask, Harold	Bonanza group (Fergus Co.)4
Atlantic Pacific mine9	Bonanza group (Mineral Co.) 12,22
August-Gold Bug-Little Ben group 15	Bonnet, Les
Aurum, Inc 6	Borland, R17
	Boulder Chief mine
B & H (Pete & Joe) group	Box, Fred, Estate9
Babbit mine	Box, Oleta C9
Babe #1	Boyce, Stanley L7
Badger No. 1 and No. 2 mines 9	Brady, J. V
Balkovatz, Joe 6	Brandems, Esther (Mrs.)
Ballard, Al	Brooks, J. C., Estate 16
Ballard Mining Corp19	Bubany placer
Bar group	Buck, Dorothy
Barbara Ann mine	Bullion and Hope group
Barry Dean mine	Bullock, Delbert
Basin Jib group 6	Bullock, John
Basin quartz quarry	Burchak, A. J
Baty, Burce	Burgierosa Mine1
Baty Mining Co	Burgierosa Silver Mines, Inc
Bauska, Jack	Burlington Northern, Inc25
Bauska, L. O	Burnham, D. C., and others
Bay Chief mine	Burnham, Dean C
Bayles, Raymond G4, 19	Burns, Larry
Beaver, Raymond L8	Burns, William L16

Buster mine	Craig, Lloyd T1	
Butte Water Co	Cripe, Donald C	
Byam, Charles 6	Cripe, Marie O	
Byam, Frenett 6	Croff, G. A., and others	
	Croff and Montague	8
C & H Company 20	Cross mine	
Cableway group	Crown Silver group1	12
Cain, Clinton A11,20	Crown Silver Mining Co	12
Calico clay pit22	Crystal mine	7
Cameron (Yellowstone) mine 28	CSC of Montana, Inc	
Camp Robber placer	Cullen, Bill	
Canyon Creek quarry 24	Cumberland Mining Co., Inc7,	9
Cardwell pit	Curlew mine	15
Carter, Jerry23	Custer mine	
Carter, Paul	Cutbirth, Don	
Carver, Herb	Cyprus Industrial Minerals	25
Centennial Minerals Inc7		
Champion B. mine 4	Dale Bros	
Char Tam mine	Dale, Richard T	27
Charcoal group	Day and Harvey group	16
Chinese Diggings19	deBarathy, Sidney A	15
Choteau project	Decker Coal Co	
Clary, Jack	Decker, Frida	
Clary, Jean	Decker, Robert, Sr	
Clay Lewis placer20	Dennis, David H	
Clendennin group 8	Dettwiler, Ralph	
Clopton, Earl 9	DeValle, Claude	
Coal Creek mine	Diamond Hill mine	
Coal Creek Mining Co27	Dickey, C. A	
Coates, Florence, and others 2	Ditto, A. H	14
Cobben, Bob	Dividend Lode mine	
CoCa Mines, Inc5	Dixon, Dorothy E	
Coleman, Sam	Dixon, James R	15
Colerate Minerals Inc5	Doggett, L. W	
Coloma mine	Dolly Quartz (New Seattle) mine	. 6
Comet group	Dominic group	
Cominco American, Inc	Don-A-Vera group	
Cone, Lucinda	Donegan, Sylvan, Jr	22
Constellation deposit 26	Durden Construction	14
Contact Mining Co 6	Dardon Construction	
Contact Mining Custom Mill 6	Eagle Black group	10
Continental Lime, Inc	Eagle Rock group	24
Continental Lime Inc. plant	Eagle Rock Mining Co., Inc	
Cop Construction	Earll, F. N	
Copper Elk group4	Earthsearch, Inc.	
Copper group	East Berkeley pit	
	East Coeur d'Alene silver mine	
Copper King group	East Coeur d'Alene Silver Mines, Inc	
Copper King Mining Co		
	East Decker mine	
Coster, Tom8	East Pacific Mining Co	
Country I II	East Pacific Mining Co	
Counts, J. H	East Ridge group	
Counts, John H., Jr	Edna mine	
Counts, Silase	Elmarsen, Charles A	
Counts, Steven J	El Dorado Bar Sapphire mine	
Craig, H. C., and Co	El Dorado Inc	24

Elk Creek mine	Golden Jubilee mine	6
Elkhorn group	Golden Maple Mining & Leaching Co	4
Elkhorn Mining Co	Golden Sunlight group	7
Elliston Consolidated group	Golden Sunlight Mines, Inc	7
Elliston Consolidated Mining Co 15	Golden Wave and Bessie mine	
Elm No. 6	Golden West mine	9
Emma mine16	Goldsil Mining and Milling, Inc	
Engh, Palmer (Mrs.)	Goldstream Corp	
Ermont mine1	Goose Lake group	
Evans, Margaret (Mrs.)	Grace, W. R., and Co	
Evallo, Margarot (Milor,	Granite Hill No. 1 and No. 2	
F. D. placer	Grass Hopper claims No. 1	
Faithful Lode	Grasshopper mine	
Falcon Explorations8	Gray Rock mine	
Farnsworth, R. B., Estate	Great Eastern mine	
Federal Reserve group	Green Campbell mine	
Ferdinand mine	Grey Eagle Group	
First National Bank, Helena16	Grubstake mine	
Florence group7	Guay, George	
Florence and Queen mine	Gwynn, Thomas	9
Fontaine, Del	Gypsy Creek Mining Co	2
Forbes, W. G		
Forkner, Jim3	Hafar, Carl, Jr2	
Four V's claims 24	Hallett Minerals Co 1	
Fourth Estate mine 16,23	Hand mine	
Free Enterprise Uranium-Radon mine 18	Hand, William M	2
French Bar placer 19,24	Hanley, Jerry	
French Bar underwater section 19,24	Hanley, Selma, and others	
Frida Marie group	Hanneman, Gerald A1	
Frostbite deposit	Hansen, Charles	9
•	Hanson Properties, Inc	1
G & M Mining	Hanson, R. A., Mining Co	1
Gardner, J. F	Hard Cash mine	3
Gem Mountain Sapphire 24	Harris, David M	6
Gem Mountain Sapphire mine 24	Harry Howard group	9
Geordge, Richard K12	Hatton, Clifford	
Gildersleeve, Fern	Hatton, Clifford, and others 1	
Gildersleeve, G. M	Hawkeye placer	
Gildersleeve, George	Heaney, Ethel C	
Gilliam vermiculite deposit 26	Heath (Shoemaker) mine	
Gilt Edge	Hecla Mining Co	
Giltedge Corp	Heidelberg mine1	
Giulio, Harold J	Heidelberg Mining and Leasing Co1	
Gladstone Crushing & Construction, Inc. 6,21	Heinrich, Raymond J2	
Glenam claim	Helburn, Mary	
Glittering Hill mine6	Helburn, Steve	
Gloria Alice placer	Helehan, Tom	
Gold Bug-Little Ben-August group 14	Henderson group1	
	Hendricks, Tracy	
Gold Ranch Mining Corp.	Herman, Russ	
Gold Record Corp		
Gold Ridge Mining Co	Herrigg Creek Mining Co., Inc. group	
Gold Ridge Mining Co	High Hope mine1	
Golden Curry (Sourdough) mine	Highland placer	
Golden Dawn mine	Highridge mine	
Golden Grizzly group	Higinbotham, L. L	
Golden Jubilee Corp 6	Hill, Jim2	

Hill, W. Ray	Kiewit Mining and Engineering Co 19,27
Hines, Evelyn	King, Hugh G
Hoekema, Roy2	Klondike Ore #1
Hog Heaven project 5	Knife River Coal Co
Holmes, Don	Knife River Coal Mining Co 27
Holter, Del	Knowlson, Jim
Holter Estate	Koenig, Chris19
Hope and Bullion group	Kokoruda, C3
Hope group (Granite Co.) 6	Kolberg, Arnold J
Hope group (Park Co.)14	Kolberg Eureka Lead No. 1
Horton, Mildred M10	Kolberg mill
Horton, Richard F	Kralicek, George
Huckaba, Ralph	Kruger, Marion R. (Mrs.)16
Hughes Mining Co., Inc	Kuhnhausen, C. L. (Mrs.) 5
Hughes, Rick	Naminassi, S. E. (Wist,
Humbolt mine	LaMarche, Geraldine16
Humdinger group	Lamplighter group
Hungry Hollow placer20	Langstaff, Kenneth
Truligly Flollow placel	Last Chance group (Beaverhead Co.)2
Ida A. placer	Last Chance group (Beavernead Co.)2 Last Chance mine (Silver Bow Co.)16
Ideal Basic Industries	Lawrence, John C
Independent mine	Layton, John A., Estate
Indian Creek, Inc	
Indian Creek placer	LBJ, Pic and Per groups
Infinite group	Leber Mining Co7
Inspiration Consolidated Copper Co6	
Intergem, Inc	Lenling, Lawrence, and others 5 Lewis, Clay
Iron Age group 3	Lewis, Wade V
Jack Rabbit mine10	Lewis, Wade V., Estate
	Liberty mine
Jackson, Elena22	Lindquist, Enard
Jackson, R. P	Lindquist, Lester
Janney Construction Co., Inc	Little Anaconda group
	Little Ben-Gold Bug-August group 15
Jenkins, Don L	Little Giant
Johnny Gulch Talc mine	Lively Mining Co10,21
Johnson, Gwendlyn Couch, and others 3	Lively Mining, Inc
Johnson-Reid Corp	Lively's, Inc
Jones, D. L	Livingston marble and granite quarry 25
Kada Calab assure	Livingston Marble and Granite Works25
Kady Gulch group	Loggers Dream mine12
Kaiser Cement Corp	Lonn, K. V
	Lord, Nettie
Kannegaard, Charles L	Lost Gulch placer
Kanta, George E24	Lucky Dollar mine
Kanta pit	Lucky Hit group
Kanta Products, Inc24	Lucky Jim Beam group mine
Katches, A. J	Lucky Lady group
Keller, Esther	Lucky Strike mine (Beaverhead Co.) 2
Kendall mine5	Lykins, Betty
Kenelty mine	Lynn Mines & Mining, Inc
Kennedy, Donald	Lynn, R. L
Kennett-Bertha mine10	Lynn, Robert L7
Kennett Gold Corp10	
Kephart, Reid11	MacDonald, Dan A
Keyhold group	Mackeg placer

MacPherson, K. W. (Mrs.) 6	Monk, Austin
Madden group	Montana Barite Co22
Mader, MacDonald M., II19,24	Montana City quarry
Madison Minerals Inc 25	Montana Gold and Sapphires, Inc 19, 24
Maehl, Grace 6	Montana group
Maehl, James E 6	Montana Minerals Browns Gulch placer 20
Magdelena group7	Montana, State of 19,24,27
Maginnis mine 5	Montana Tunnel group7
Magnitite group	Monte Christo mine 9
Magnus, John	Monte Clark group
Maloney, Goldie S25	Montgomery and San Miguel mine 8
Maloney, Goldie S., and others 25	Montro gold mines
Maloney, Sam	Moonlight mine
Malta plant	Morbeck, Frank A
Mammoth mine	Morgan Enterprises, Inc 4
Mannix, C. E9	Morgan James M4
Maples and Bridgton group3	Morgan, Mike4
Maronick Construction Co., Inc 23	Morning Star mine
Maronick, E. P	Morrison-Knudsen Co., Inc 27
Martin, Ronald I	Mortensen, Audrey
Martin's Peat, Inc	Mortensen, Steve
Mary Sue placer	Motica, J. E
Marysville project8	Motley, Mary W
Maycumber, Guy E 8	Moulton mine4
Mayday mine	Mountain Queen mine 8
McBride, G. V. R. (Mrs.)8	Mountain View mine11
McBride, G. V. R. (Mrs.), and others8	Mt. Heagon Div. Inc
McCabe, Mary L 6	Mulcahy, William8
McClellan quarry	Mullen barite mine22
McDaniel, Copper group	Myers, G. A
McDaniel, Duane12	Myranda claim
McElligett, Stanley, Family	iviyianaa ciamii
McGuire, Kenneth	National Vermiculite Corp26
McLaughlin, Dan6	Negros mine
McLaughlin, Jim	Nellie Bly group
McMaster, James	Nelson Associates
McQuarrie quarry25	Nelson, E. E
McVeda, Glenn 5	NERCO, Inc
McVeda, William	Nethercott, Rockie 9
Meadow Creek placer	Nevin, Barbara
Meadow creek placer	Nevin, Robert C
Medalion Minerals	New Seattle (Dolly Quartz) mine
Meged Bros	New Velley Forge mine
Midnite Mines, Inc	New Valley Forge mine
Miller, Dennis	New Winnetka Trust group
	New World project
Miller, Mary Ann	Newman, Dave R15
Minerals Inc5	Nicar Mineral Ventures
Mine-X, Inc	Nicar Ventures
Minnick, Charles	Nielsen, D. C
Minnick, Ray	Nine Mile mine
Modern Technology Mining Corp11	Nine Mile Mines, Inc
Mo, Hans9	Nine Mile placer
Mohawk mine	Nolte, Robert
Monarch Co., The4	North Pole mine15
Monarch mine	Northern Mining Co., Inc
Monarch Minerals, Inc 15	Norwegian placer20

Nugget mine13	Regal mine
Nugget Mining Co13	Reichel, A. E., Estate
No. 4 mine	Reid, Harold
Nut Pine mine 6	Relyea, George, Estate24
Nygren, Nels1,2	Relyea mine
Nygren, Rudy 1,2,23	Republic mine (Fergus Co.)5
Nyvatex Marketing 13	Republic mines (Park Co.)14
	Resources America, Inc
O'Hara, R. J	Ridgeway mine 11
Olympic #2 placer	Rife, Delores5
Overland Gold Corporation 1	Rife, John5
	Ritchie, William 27
P. G. Mine	Rivers Creek mine
P. M. Coal Mining Co27	Roberts, Art
P. M. mine	Robin L. placer
Pacific Power and Light Co27	Rocky Mountain Minerals, Inc11
Pacific Silica Co24	Romerio, A. K. (Mrs.)
Parnell group mine 6	Romerio Co7
Payday group8	Rosebud mine
Peabody Coal Co27	Rothfuss, John7
Peabody mine	Royal Apex Silver, Inc16
Pearl group	Ruby Gold placer claims18
Peggy Ann mine 9	Ruby Gulch mine14
Peggy Ann Mines, Inc9	Ruby No. 1 and 2 mine 25
Pentecost, T. A., and others4,5	Ruby Ridge group (Willow Creek mine) 28
Pete & Joe (B & H) group	Rumley mine
Peterson, A. B	•
Peterson, Albert Byron20	S & G Mining Co
Peterson, Guardee15	S & P Mining Co
Peuse, Gordon	S & S Diversified, Inc2
Peuse mine	St. John group
Pfizer, Inc	St. Lawrence Consolidated Mines, Inc 11
Phifer, Sam	Salusso, Martyn7
Piermont No. 1 East mine 8	Sam Bear Mining Co11
Placer fire clay pit	San Miguel and Montgomery mine 8
Plexus Resource Inc	Sata Maira Rainbow group 2
Polaris mine	Savage mine27
Ponderosa 102 and 102A mine 4	Scalded Cat mine
Potter, J	Schreiner, Warren 4
Prather, Barbara	Semsak, Arthur
Pretty Girl placer	Setter mine8
Prickett, Don	Setter Mining Co8
Princess Ethne mine	Sewell, Ed3
Prospect Mining Co., Inc	Sewell, Irving
Prouse, Jerry J27	Shafer, Carl
110000, 0011, 0111111111111111111111111	Shafer, Raymond D10
Queen mine 6	Sheep Mountain mine
Queen and Florence mine 4	Shepherd, R. M
Quocit una Florence mino	Sheridian Land and Minerals Co25
Radersburg Mining Co	Shermont Mining Co
Ranchers Exploration & Development Corp 13	Shoemaker (Heath) mine
Raven mine16	Shook, Earnest J
Raven Mining Co	Shook Mines, Inc
Raymond, A. K	Short Shift mine
Red Pine mine	Siaperias, Ted
Reeb, Margaret	
need, Margaret	Silver Bar placer

Silver Bell group	Taplin, Joan	4
Silver Bell, Inc	Taplin, Richard	4
Silver Cable group	Taylor, Darrel	
Silver Cable Mining Co12	Thayer, Lyman	
Silver Crown mine11	Thiessen, D. J	
Silver Crown Mines, Inc11	Third Term mine	5
Silver Dike group3	Thomas, Jim 1	
Silver Dyke mine 4	Thunderbird group	
Silver King mine 6	Thunderbird Resources2, 18	
Silver Peak group	Tibbetts mine	
Silver Peak Mining Co12	Tiger group	2
Silver Ridge group2	Timberline Minerals, Inc	
Silvinite, Inc 6	Tintinger, Carl A	
SK Ventures, Inc	Tonnemaker, Clayton	
Sky mine (Broadwater Co.)3	Tourmaline Queen mine	8
Sky mine (Lewis and Clark Co.)9	Treasure Chest mine and plant	
Slemes, Fred D	Triad Investments, Inc	
Slim Sam group3	Triangle placer	
Smith, Arnold 4	Trident quarry	
Snow Bank mine12	Trout Creek placer	Ö
Snow, Harold22	Troy unit	
Snowbird mine23	Turner, Bob	4
Souders, Richard13	Twilight claims group	
Sourdough (Golden Curry) mine 7	Two Lady No. 7	
South Boulder Mining Corp11	Tyrrel, Nila	
Spokane Hills mine	Tyrroi, raile	_
Spotted Horse mine	Uncle Sam mine	1
Spring Creek Coal Co	Union Carbide Co2	
Spring Creek mine	United Investors Corp	
Spring creek mile	U.S. Antimony Corp	
Spuhler group	U.S. Gypsum Co	
State Mining Co15	U.S. Minerals Exploration Co	
Stauffer Chemical Co	0.0. Willierals Exploration Co	•
Steel Brothers Canada	Valley International Products, Inc	ρ
Steele, Gordon L5	Valley View mine (Broadwater Co.)	
Stemwinder placer	Valley View mines (Madison Co.)1	
Stillwater River placer	Viking Exploration, Inc.	
Stoick, James J	Violet group	
Stolen Sweets mine	Virginia Gulch mine	2
	Volker, Albert E	2
Storm King Coal Mining Co., Inc27 Storm King pit27	Von Bretz, L	
	Von Kleist, R	
Stratton, Howard         16,21           Stratton, Mark         21	Vulture mine	
	vulture mine	4
Stratton mine         16           Strawn mine         11	Wagner, Ray	2
Streak of Luck, Sunnyside group8	Waldbillig, Joe	
Strong, H. W	Waldbillig mine	
Sunnyside, Streak of Luck group8	Waldbillig, O. R	
Sunrise Creek placer	Waldo, Gordon	
Sunrise Silver Mines	Walish, Bob	
Swamp Frog mine18	Walker, Giles	
Sylvia and Sylvia Extension mine2	Walkup, Ben	
T 0 D M 1 - 0 - 1 - 21	Wallace Creek Custom Mill	
T & B Mining Co., Inc	Wallace Creek Milling Co	
Tabor Mines and Metals Corp10	Walters, Norman	
Taft, Lionel C	Wapita mine	2

War Eagle mine	Wilson, Horace 6,19
Ward lode mine	Winchester Gold Co 9
Warm Springs mine 24	Woodley, Delbert
Warren quarry	Woods Creek copper mine 15
Watseca mine	Workman, Ed11
Weaver, Howard	Wright, Victor D20
Weber, Charlie	Wrong Font group 16
Wells, John A	
West Decker mine27	Yellowband Group2
West Gate Mining & Construction . 3, 4, 17, 18	Yellowstone (Cameron) mine 25
Western Energy Co	Yogo Sapphire mine
Western Vermiculite Co 26	Young, Bill E21
Westmoreland Resources 27	Young, Ernest H21
Wharf Resources	Young, Thomas R5
White Lime group	Your Name placer
Wild Cat and Line Lode 8	
Wilhelm, Lloyd7	Zonolite mine
Willden, Al	Zortman-Landusky Mining Co14
Willow Creek mine (Ruby Ridge group) 25	

#### **Production Information**

Camera-ready copy prepared on EditWriter 7500 by MBMG.

Stock: Cover -

Text - 60 lb. Mountie Matte

Sheet - 50 lb. Offset Book

Composition: Univers type

Heads - 1st order (12 pt. theme, leaded 2 pt.)

2d order (11 pt. theme, leaded 2 pt.) 3d order (10 pt. theme, leaded 2 pt.)

Text - Mine entries - 8 pt. theme, leaded 1 pt. Article - 10 pt. theme, leaded 2 pt.

7 pt. Warrenflo

References - 9 pt. theme, leaded 1 pt.

Presswork: Heidelberg

Ink: Leber Klondike (Cover)

Binding: Perfect binding Press run: 2,000 copies

Front Cover—Sketch by Diane Nugent.

# **Back Pocket**

Map showing distribution of mining districts and strippable coal fields in Montana.