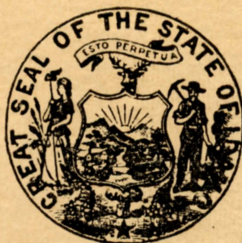


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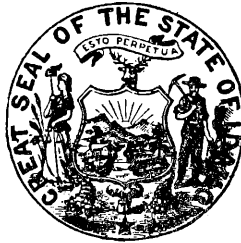
Twenty-Eighth  
Annual Report  
of the  
**Mining Industry**  
of Idaho for the  
Year 1926



STEWART CAMPBELL  
INSPECTOR OF MINES



Twenty-Eighth  
Annual Report  
of the  
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of Idaho for the  
Year 1926



**STEWART CAMPBELL**  
INSPECTOR OF MINES

**ALICE H. DARRAH**  
SECRETARY



## LETTER OF TRANSMITTAL

To His Excellency,

THE HONORABLE C. C. MOORE,  
Governor of Idaho.

SIR:

In compliance with the provisions of section 5480, Idaho Compiled Statutes, I have the honor to transmit herewith the annual report of the inspector of mines for the year ended December 31, 1926.

Respectfully submitted,

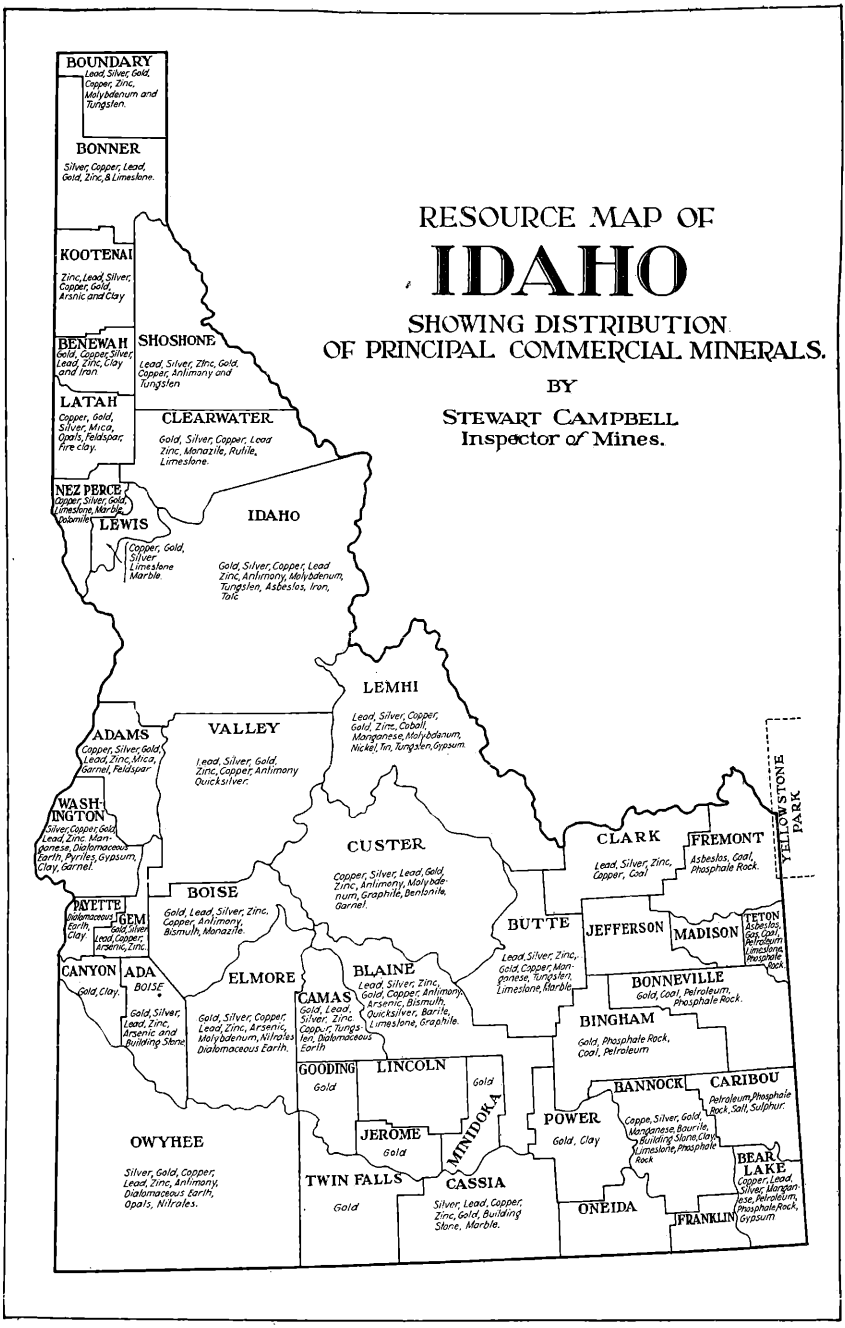
STEWART CAMPBELL,

Inspector of Mines.

# RESOURCE MAP OF IDAHO

## SHOWING DISTRIBUTION OF PRINCIPAL COMMERCIAL MINERALS.

BY  
**STEWART CAMPBELL**  
Inspector of Mines.



# FOREWORD

One of the dominating ideas of this administration has been that it is the legal and moral duty of the Inspector of Mines to encourage and promote the development of Idaho's mineral resources, and that this can best be done by protecting the public against fake promotions and dishonorable promoters. If the investing public can be impressed with the fact that Idaho is using every precaution and is particularly vigilant in preventing shady promotions, and that through this attitude fair treatment can be expected, then the prospector, the miner, the legitimate promoter, and the State will benefit by this faith. If, on the other hand, the public is excited and deceived into buying stock in fraudulent promotions, which almost invariably result in total loss, then the cause of honest mineral development is injured, and not only does the State suffer, but every legitimate miner and operator as well.

The policy of encouraging the development of Idaho's mineral resources and the right of this department to permanently protect the reputation and honor of the State for fairness in mining development were attacked by the Idaho Copper Corporation. On May 19, 1925, this company filed, in the District Court of the United States, in and for the District of Idaho, Southern Division, a suit against the Inspector of Mines for \$100,000, alleging the publication of false, malicious and defamatory statements. The suit was against the Inspector, as an individual, for attacking the company's promotion methods in his official capacity. It questioned the right of this department to guard the investing public against misrepresentations and unjustifiable inducements for stock-gambling purposes.

After the suit was filed, the company availed itself of all dilatory proceedings to prevent the suit coming to trial, but the Inspector assumed the initiative and was successful in having the case set for trial on May 6, 1926. On May 5, 1926, the company dismissed this suit and simultaneously filed a new one for \$500,000, which was similar in all particulars to the first, except that one new alleged libelous statement was added. Objection to a dismissal of the first suit was filed, and a strenuous effort made to have the issues heard at that time, but the objection was overruled.

After the second suit was filed, the initiative was again assumed by this department, and the case was finally set for hearing on October 12, 1926. The Inspector cast aside his defenses of privilege and mitigation of damages in order to squarely present the case to an Idaho jury on the sole issue of the truth of his statements. So the only question involved was the truth of the statements, some of which were:

"What difference does it make where the property is located, if the promotion is a swindle?"

\* \* \* \* \*

"That you may know our position, and why we have requested that the stock of the Idaho Copper Corporation be removed from listing and trading on your exchange, we will state that this department is endeavoring to be particularly vigilant concerning all mining promotions, because experience has proven that when misleading and extravagant statements have been made in the sale of mining stocks and when the purchasers of these stocks discover that they were misled, they never place the blame where it rightfully belongs, that is, upon the promoters and brokers, but they place the blame upon the State in which the mine is located.

## MINING INDUSTRY OF IDAHO

As the circulars recommending the purchase of Idaho Copper Corporation stock which have come to the attention of this department (but not officially), some of which are represented to be the president's report, are grossly misleading and greatly divergent from the facts, we feel it to be our duty to warn the public; but before issuing this warning we deemed it advisable to inform your exchange; hence our reason for wiring you on March 24, in part as follows:

"This department requests that in behalf of the investing public and the honor of your exchange that this stock be removed from listing and trading until such time as this company complies with all necessary laws and until statements relative to the mine are confined to the facts."

\* \* \* \* \*

"This department is maintaining that any corporation holding mining property in Idaho must comply with this law (Section 5320-A, Chap. 151, 1925 Session Laws) regardless of the residence of the one distributing the advertising. It is our opinion that if mining companies, promoters, or brokers are confining their statements to the facts, such companies, promoters or brokers will be glad to comply with this and all other laws; and when compliance is refused, it is but natural for this department to assume that the promotion will not bear inspection and that the public should be warned.

"The statements and recommendations concerning the stock and the mine of the Idaho Copper Corporation are so grossly misleading and extravagant that they are discrediting the good name of the State. Idaho regrets that your exchange is being used as a medium of foisting the stock upon the public and we trust that in behalf of the honor of the Boston Curb Exchange that you will accede to our request.

\* \* \* \* \*

The issue of truth alone caused the plaintiff to plead for nominal damages only, and the plaintiff's leading counsel, in his argument to the jury, said:

" \* \* \* We don't ask to punish him; we don't ask for large damages. That isn't what we are here for. We ask to have from your hands a vindication of that foul charge that we are swindlers. That is why we come here; that is why I am facing you; that is why I ask you, as business men, to vindicate these men from that charge—the charge that this promotion was organized in bad faith and for the purpose of effecting a swindle. \* \* \* I leave the case with you, gentlemen, asking that you do what you think is right—not to punish anybody, but vindication. A verdict from your hands which will show the world that twelve men of the State of Idaho, sitting upon a jury, and hearing all the facts, do not believe that foul charge that these men are swindlers. \* \* \*"

In closing the final argument to the jury, associate counsel for the plaintiff said:

" \* \* \* A verdict against them means that they didn't act in good faith; a verdict for them, however nominal in amount, refutes that charge that they acted in bad faith, and that is all we ask of you. We want vindication. \* \* \*"

In his brief statement to the jury, Jess Hawley, of Hawley & Hawley, Boise, Idaho, counsel for the Inspector, said:

" \* \* \* I ask you to bear in mind that in March of 1925, when Mr. Campbell, with all the bravery, with all the courage and all the character that any man may possess, threw down the gauntlet against the spider of Wall Street, who sits and weaves and weaves and weaves; who had brought many and many a stockholder into the Idaho Copper Corporation, as he did this man Hawes, prior to the date that the mine could be seen or entered;



\* \* \* \* \* I only ask you to read the report of Yorston and the Iconoclast papers in evidence, and then, gentlemen, bring in a verdict that will make it clear that Idaho is not, so long as honest men live in it, so long as brave and courageous men represent it as public officials, going to permit a wrong to be done to the investing public, and to the mining industry, by permitting stock manipulations and misleading statements to be made in furtherance of a stock-jobbing proposition."

The jury promptly returned a verdict for the Inspector. The company then sought a new trial, which Judge Frank S. Dietrich denied and upheld the decision of the jury. In so doing, among other things, he said:

" \* \* \* As stated from the bench at the time of the oral hearing upon the motion, I have no question that while the evidence was in a measure circumstantial it was abundant to support a finding by the jury that the articles in the Iconoclast were published with the knowledge, consent and encouragement, and indirectly by the procurement, of plaintiff; and furthermore that the jury was amply warranted in finding from all of the evidence, including that furnished by the publications themselves, that the representations made were substantially of the character charged in the alleged libelous writings. For the purpose of showing that the verdict is supported by the evidence, it would be interesting to analyze these articles and to explain the history of the promotion and the means by which investment in stock was made alluring to unsophisticated purchasers, but at this juncture that is not thought to be necessary. \* \* \* "

In commenting upon the plaintiff's appeal to the jury for vindication, Judge Dietrich said:

" \* \* \* Upon this, the real issue, upon which plaintiff thus earnestly asked for an unequivocal finding, the jury decided squarely against it. \* \* \* They were convinced that the defendant's charges were true and that plaintiff had been engaged in a swindle. \* \* \* "

## PLATINUM (?)

Predatory platinum assayers are continuing to prey upon the unsuspecting public, and during the past year many Idaho citizens were victims of these fakers. In numerous instances of record, identical samples have been sent to some of these assayers and to legitimate laboratories, and without exception these assayers have reported high values in the precious metals, although the same material, when properly tested, did not show the presence of any of them. Many of these assayers use fanciful methods; and it is very doubtful if others use any method, as their assay returns do not agree on the same sample or samples; yet they invariably report such prodigious amounts of the rare metals that the unwary immediately feel that they are becoming millionaires.

These false reports have caused, and are causing, unwarranted expenditures in work which is of no value, and in the organization of companies, with subsequent attempts to sell stock in the platinum-mining ventures. These ventures are doomed to failure and should be looked upon with suspicion.

The U. S. Bureau of Mines will make platinum determinations without cost, and before any credence is placed in alleged platinum returns the ore or material should be sent to the Bureau for a proper determination.

## ANNUAL REPORTS.

The first report submitted by the present inspector, in 1921, was largely an experiment. It introduced much miscellaneous matter never previously printed in such a report and presented detailed information concerning Idaho mining companies in the form of a directory. It was, in fact, a handbook rather than a formal report. It received such favorable press comment, notably by the Engineering and Mining Journal-Press, the foremost mining magazine of the United States, that the same plan was followed in subsequent reports. As these proved equally popular with the mining public of Idaho and other states, the 1926 report is offered in the same form.

It is a cause for great satisfaction that it has been possible to increase the size of the report each year, without adding greatly to the expense. The 1921 issue consisted of but 150 pages; that of 1922 of 200 pages, that of 1923 of 221 pages, that of 1924 of 249 pages, and that of 1925 of 270 pages with five insert diagrams of mill flow sheets. As the 1923, 1924 and 1925 editions were printed more compactly, they included much more additional information than their increased bulk would indicate. The increase in size has been made possible by the growing cooperation of mining companies in the matter of filing full reports concerning their organization, property, plant equipment, and development campaigns. The reports for the years 1923, 1924, 1925 and 1926 have also been rendered more interesting by the inclusion of many pictures of various Idaho mining plants.

The list of prospects contained in this report has been corrected and brought down to date through the cooperation and assistance of the auditors and recorders of many of the principal mining counties. Appreciation for this assistance is extended to the following:

Matilda Moser, Adams County  
C. G. Cromwell, Benewah County  
H. A. Benson, Bingham County  
Fred Garrecht, Boise County  
George Witt, Bonneville County  
B. F. Wilson, Cassia County  
G. V. Allen, Clark County  
Emmett Donahue, Custer County  
Myrtle P. Enking, Gooding County  
C. O. Sowder, Kootenai County  
Harry A. Thatcher, Latah County  
W. A. Lewis, Owyhee County  
C. A. Coon, Power County  
Harry A. Rogers, Shoshone County

Many of these prospects are worthy of more prominent mention, but, as the owners failed to submit any facts relative to their properties, it is impossible to give further information. If the individual mine-owners could realize that furnishing detailed information to the inspector would be beneficial to themselves, it would result in their properties receiving more attention and would greatly assist in displaying Idaho's mining possibilities, for these lists of prospects are extensively used. As a result, in a number of cases mines have been examined and sales made.

Prospect-owners who submitted reports to this department have been included in the body of this report on the same basis as the reporting mining companies. This policy will be continued in the future and all owners of mining claims are invited to submit to the inspector the information which mining companies are required by law to furnish.

## NEWSPAPERS

As pointed out in previous years, the visits which the inspector makes to the numerous mining counties are necessarily so short that they are inadequate to enable him to keep directly in touch with all mining activities, so that it is always necessary that he supplement his personal information by that gleaned from the press. Most of the newspapers located in mining communities have been very willing to furnish gratuitous subscriptions of their publications to the office of the inspector. This courtesy is greatly appreciated, and has been of much assistance in enabling the inspector to keep abreast of the mining news. Accordingly, the State of Idaho, through the mine inspector, extends its thanks to the following:

The Idaho Recorder.....	Salmon
Kellogg-Wardner News.....	Kellogg
The Mackay Miner.....	Mackay
Mining Truth.....	Spokane
Mullan News.....	Mullan
The Owyhee Avalanche.....	Silver City
Pend d'Oreille Review.....	Sandpoint
Priest River Times.....	Priest River
Salmon Herald.....	Salmon
The Salt Lake Mining Review.....	Salt Lake City
The Times-Register.....	Idaho Falls
The Wallace Miner.....	Wallace
The Weekly Press-Times.....	Wallace

## MINERAL MARKET INFORMATION

As there has continued to be a demand for possible markets for uncommon minerals and metals, the lists prepared in 1921 have been brought up to date wherever it has been possible to obtain information. The office will be glad to furnish copies of the list for any particular mineral or metal upon request. The following minerals and metals are listed:

Antimony	Fullers Earth	Radium
Arsenic	Graphite	Silica Sand
Asbestos	Gypsum	Sodium
Barytes	Magnesium	Strontium
Bauxite	Magnesite	Talc
Bismuth	Manganese	Tin
Cadmium	Mica	Titanium
Chromium	Molybdenum	Tripoli
Cobalt	Monazite	Tungsten
Diatomaceous Earth	Nickel	Uranium
Feldspar	Platinum	Vanadium
Fluorspar	Pumice	

## LIBRARY

The library, which was started by the present mine inspector during 1921, and which now consists of over 3000 volumes, is believed to be the largest library of its kind in the State. It contains virtually every publication of the U. S. Geological Survey and U. S. Bureau of Mines, most of the U. S. Mint Reports, numerous volumes published by the geological surveys of other states, and many volumes of journals dealing with mining and geology.

Except a few articles published in old issues of the various journals, everything of importance dealing with the mining industry of Idaho, including geology, mineralogy and mineral resources, is contained in the library.

Whenever requests are made for any of the missing articles, photographic copies are procured from the publishers or from some large research library.

The following magazines are regularly received: Engineering and Mining Journal-Press; Salt Lake Mining Review; Mining Truth; The Mining Congress Journal; Mining and Metallurgy; Rock Products; Compressed Air Magazine; The Explosive Engineer; Economic Geology; and Asbestos. Complete files of these magazines are being preserved for reference use. Although most of them have been received only since 1921, the file of the Engineering and Mining Journal is virtually complete for the past 20 years, the present mine inspector having donated to the State his personal files of this journal for the years 1911 to 1920, inclusive.

The library is equipped with the U. S. Geological Survey Finding List of States, Areas and Subjects, which makes it possible to locate quickly and completely all publications of the U. S. Geological Survey concerning the geology and mineral resources of any state of the United States or concerning any particular mineral.

Visitors are always welcome to consult the books of the library or to read the magazines. The office is open from 9 a. m. to noon and from 1 p. m. to 5 p. m. In the absence of the inspector, the secretary will be glad to assist visitors in finding desired information.

In order to accommodate readers who find it inconvenient to consult books in the library at the inspector's office, the practice of lending books for a period of not over two weeks has been established, and they are mailed out to all responsible persons within the State upon request. A few rare volumes, now out of print, and of which the library contains no duplicates, and books frequently called for at the office, can not be mailed out. Individuals not personally acquainted with the inspector, when writing in for books, should accompany their requests by letters of introduction or recommendation from some reliable person in their community personally known to the office, or by a letter from the nearest public library.

### MINING LAWS

In May, 1923, the inspector caused to be published a new edition of the State mining laws; and as the 1925 Legislature passed a few amendments to them, a supplement containing these changes and a few extracts from the corporation law was published in 1925. These two pamphlets contain all of the Idaho mining laws as well as extracts from the United States mining laws, and amendments. The pamphlets are for free distribution, and will be mailed to anyone interested on request.

### BIBLIOGRAPHIES

Much information concerning the geology, mineralogy and mineral resources of Idaho has been collected and published by the U. S. Geological Survey, the U. S. Bureau of Mines, and the Idaho Bureau of Mines and Geology. Much is also contained in the various reports of the inspector of mines and in journals dealing with mining and geology. In order to make this information readily available to the public, in 1921 the inspector indexed this material according to counties and subjects and published it in his report. The indexing has been kept up to date, and so far as is known, each county bibliography contains references to all material of any importance that has ever been published concerning that county. Publications relating to specific minerals found in the State are listed also under the "General Bibliography" in the back of the report. Practically all of the publications listed are found in the inspector's library, and arrangements have been made so that copies of those not on file can be procured when requested,

## ABBREVIATIONS USED IN BIBLIOGRAPHIES

Am. Geology .....	American Geology
Am. Jour. Sci. ....	American Journal of Science
Am. Mineralogist .....	American Mineralogist
California Jour. Tech. ....	California Journal of Technology
Canada Geol. Survey Ann. Rept.....	Canada Geological Survey Annual Report
Colorado Sci. Soc. Proc. ....	Colorado Scientific Society Proceedings
Columbia School of Mines Quart. ....	Columbia School of Mines Quarterly
Econ. Geology .....	Economic Geology
Eng. and Min. Jour. ....	Engineering and Mining Journal
Franklin Inst. Jour. ....	Franklin Institute Journal
Geol. Soc. America .....	Geological Society of America
Jour. Canadian Min. Inst. ....	Journal of Canadian Mining Institute
Jour. Geology .....	Journal of Geology
Min. and Eng. World .....	Mining and Engineering World
Min. and Sci. Press .....	Mining and Scientific Press
Min. Reporter .....	Mining Reporter
Min. World .....	Mining World
Nat. Geog. Mag. ....	National Geographic Magazine
No. ....	Number
Northwest Min. News .....	Northwest Mining News
p., pp. ....	page, pages
pt. ....	part
Proc. Int. Min. Cong. ....	Proceedings International Mining Congress
Salt Lake Min. Review .....	Salt Lake Mining Review
Sci. Am. Suppl. ....	Scientific American Supplement
ser. ....	series
sess. ....	session
Trans. Am. Inst. Min. Eng. ....	Transactions American Institute of Mining Engineers
Trans. New York Acad. Sci.....	Transactions New York Academy of Science
U. S. Bureau of Mines Bull .....	U. S. Bureau of Mines Bulletin
U. S. Geol. and Geog. Survey .....	U. S. Geological and Geographical Survey
U. S. Geol. Survey Ann. Rept. ....	U. S. Geological Survey Annual Report
U. S. Geol. Survey Bull .....	U. S. Geological Survey Bulletin
U. S. Geol. Survey Geol. Atlas .....	U. S. Geological Survey Geologic Atlas
U. S. Geol. Survey Mon. ....	U. S. Geological Survey Monograph
U. S. Geol. Survey Prof. Paper.....	U. S. Geological Survey Professional Paper
U. S. Nat. Mus. Proc. ....	U. S. National Museum Proceedings
Univ. of Idaho .....	University of Idaho
vol. ....	volume
Washington Acad. Sci. Jour. ....	Washington Academy of Science Journal

## MINERAL RESOURCES

### Lead

Lead is the most important metal produced in Idaho. It is widely distributed throughout the State and occurs as galena (lead sulphide) and as the oxide and carbonate; silver is always associated with it and occasionally zinc, gold and copper.

The principal lead mines in the State are those in Shoshone County, which produce 85 per cent of the State total; the entire State production being about one-fourth that of the United States, with Missouri ranking first and Idaho third.

Blaine, Boundary, Custer, Lemhi, Bonner, Boise, Butte, Camas and Clark Counties are the other important lead-producing counties.

### Silver

Silver is found associated with all of the lead, copper, zinc and antimony ores of the State, and occasionally in associations in which it is the principal metal. It is one of the most widely distributed metals in the State, and its occurrence is such that the mining of silver can hardly be separated from that of the other metals. Accordingly, the production of silver fluctuates with their production.

Idaho is one of the principal silver-producing states in the United States, and Shoshone County is the most important one in the State. The other important silver-producing counties are Bonner, Custer, Blaine, Lemhi, Boundary, Washington, Boise, Owyhee, Idaho, Butte, Camas, Valley, Adams and Cassia.

### Zinc

Zinc is found associated with many of the lead deposits in Idaho, although there are many mines in Shoshone and Blaine Counties in which zinc is the principal metal.

Modern ore dressing methods readily recover a large zinc content which was formerly lost, and under favorable market, price and freight conditions, Idaho would become a very large producer of zinc.

The principal counties, in their order of prominence, are Shoshone, Blaine, Lemhi, Custer, Bonner, Boise, Boundary, Butte, Camas and Adams.

### Gold

Gold is found in practically all of the counties in the State, and is one of the most widely distributed metals. It occurs associated with practically all of the lead, zinc, copper and silver ores, and very commonly in quartz in a free milling condition. Many mills have been erected which treated gold-bearing quartz. A large amount of gold is obtained from placer deposits; and at one time Idaho was one of the principal placer mining states in the Union. The greater part of the placer ground which could be hydraulicked has been exhausted, but many acres suitable for dredging still remain.

The most important counties in which gold occurs are Boise, Idaho, Shoshone, Lemhi, Elmore, Custer, Blaine, Bonner, Camas, Clearwater, Owyhee, Gem and Valley.

### Copper

Custer and Lemhi Counties are the most important copper-producing counties in the State, and eventually Adams County may be a larger producer. Bonner, Shoshone, Idaho, Washington, Blaine, Butte, Clearwater and Latah Counties also contain copper mines of importance.

Gold and silver are found associated with practically all of the copper ores; and in some counties, notably Custer and Bonner, the silver content in the ores from many of the mines is more valuable than the copper.

## METALS

### Antimony

Deposits of antimony, principally the sulphide (stibnite), occur in Shoshone, Valley, Boise, Blaine, Idaho, Owyhee and Custer Counties. Those in the Coeur d'Alene district of Shoshone County have been extensively developed; a number of mills for the concentration of the ore have been constructed; and in the past a large tonnage has been shipped. The deposits in Blaine, Valley and Owyhee Counties contain a high grade ore, and most of it can be shipped without treatment. During the war, when antimony commanded a high price, a large tonnage was produced and shipped from the mines of Valley County. In the other counties mentioned many large deposits worthy of exploitation occur, but they have never been fully developed.

### Arsenic

Deposits of arsenic, principally the sulphide (arsenopyrite), occur in Blaine and Gem Counties. These deposits, while not fully developed, show a large available tonnage of commercial ore. Arsenic also occurs as arsenopyrite in Ada, Elmore and Kootenai Counties, although the deposits in these counties have not been sufficiently developed to ascertain the possible tonnage.

### Bismuth

Bismuth, occurring as a sulphide, has been found in Blaine County unassociated with other metals, as well as in association with some of the lead ores. It also occurs in the gold ores of the Gold Hill mine, Quartzburg, Boise County, in association with lead, probably galenobismuthite.

### Cobalt

Cobalt has been found in Lemhi County. During the war, when this metal commanded a high price, this deposit was actively developed; a small mill was constructed and concentrates carrying a large cobalt content were shipped. Cobalt is also reported as having been found in Kootenai and Latah Counties.

### Manganese

Manganese occurs in Washington, Shoshone, Bannock, Butte and Lemhi Counties. Some of the deposits carry a high manganese content and others a high manganese-iron content. A large tonnage has been produced and marketed from the mines in Bannock County.

### Molybdenum

Molybdenum is found in Boundary, Custer, Elmore, Lemhi and Idaho Counties, occurring as the sulphide disseminated in intrusive rocks and as a molybdate of lead in fissure veins in limestone.

### Monazite

Monazite occurs as a placer sand in the gravels of practically all of the gold placer claims in the State. The quantity varies, and in some of the deposits is not sufficient to be of commercial importance. The deposits of Ada, Idaho, Lemhi and Owyhee Counties contain an appreciable amount of this mineral, and those of Boise and Clearwater Counties are of commercial importance.

Monazite, a golden-colored sand, is a phosphate of the cerium metals, one of which is thorium. The high thorium content of the sand found in Idaho gives it commercial importance. The principal use of thorium is in the manufacture of incandescent mantles for gas lighting.

### Nickel

Nickel has been found in Lemhi County, and during the war considerable development work was done on the property in which it occurs.

#### Quicksilver

Cinnabar, the sulphide of mercury, has been found in the placer deposits of Custer and Valley Counties and in lode deposits in Valley, Blaine and Cassia Counties. The quicksilver lode deposits of Valley County have been developed in a small way, and a little quicksilver has been produced; the other deposits have never been developed.

#### Rutile

The occurrence of rutile in Clearwater County has been reported.

#### Tin

The occurrence of tin in one placer deposit of Lemhi County has been reported.

#### Tungsten

Tungsten is widely distributed throughout the State; and deposits of commercial importance have been found in Shoshone, Lemhi, Idaho, Boundary, Camas and Butte Counties. Those in Shoshone and Lemhi Counties have been extensively developed, while sufficient work has been done on the others to prove their importance.

### INDUSTRIAL MATERIALS

#### Asbestos

Commercial asbestos occurs in two forms; the chrysotile variety, which is adapted to spinning; and the amphibole, which is not adapted to spinning, but is used extensively in insulation, shingles, paper stock, wall plaster and cement. The amphibole variety of asbestos occurs extensively in Idaho County, and deposits containing chrysotile have been reported from Teton and Fremont Counties.

#### Barytes

Large commercial deposits of barite are found on Deer Creek near Hailey and in the Muldoon section, both in Blaine County.

#### Bauxite

A large deposit of bauxite clay on Mink Creek, Bannock County, has been reported.

#### Bentonite

Bentonite, a plastic clay which swells very greatly when wet, is found in commercial quantity in Custer and Clark Counties.

#### Building Stone

Sandstone exceptionally adapted to building purposes is found in Ada and Cassia Counties.

#### Coal

Bituminous coal of commercial importance occurs in Teton, Bonneville, Fremont and Clark Counties. The deposits in Teton County have been partially developed. Lignite is found in Cassia, Boise, Owyhee, Washington, Idaho, Lemhi and Clearwater Counties.

#### Diatomaceous Earth

Extensive beds of a pure white chalky appearing mineral closely resembling diatomaceous earth are found in Elmore, Camas, Payette, Washington, Idaho and Owyhee Counties.

#### Feldspar

Deposits of high grade feldspar are found in Latah and Adams Counties. They occur principally as orthoclase.

#### Garnet

Extensive deposits of garnet occur in Adams, Cassia, and Lemhi Counties. The garnet from many of these deposits is adaptable to the abrasive industries.



### Graphite

Graphite of commercial importance is found in Blaine County.

### Gypsum

Gypsum occurs in deposits of sufficient extent in Lemhi, Bear Lake, and Washington Counties to justify exploitation. The deposits in Washington County have been opened by a few small cuts.

### Limestone

Limestone is found in a large number of counties. It has been commercially developed in Butte, Bonner and Teton Counties, and deposits of equal importance are found in Bannock and Blaine Counties.

### Marble

Marble adapted to commercial uses is found in Cassia and Nez Perce Counties. The deposits in Nez Perce County have been partially exploited.

### Mica

Mica is found in Latah, Adams and Idaho Counties. The mica mines in Latah County have produced a large amount.

### Mineral Waters

Hot springs occur at a great many places throughout the State; their waters are exceptionally adapted to health and pleasure purposes. The mineral waters of Caribou County are particularly efficacious from a therapeutic standpoint.

### Nitrates

The occurrence of a deposit of nitrate in Elmore County has been reported.

### Oil and Gas

Structures favorable to the accumulation of oil and gas in commercial quantities are found in Caribou, Bonneville, Teton, Power, Oneida and Bear Lake Counties. Gas has been developed in Payette, Teton and Washington Counties; and a small amount of drilling has been done in Caribou, Owyhee, Washington, Payette, Cassia, Teton and Power Counties.

### Phosphate Rock

Immense beds of phosphate rock are found in southeastern Idaho, particularly in Bear Lake, Caribou, Bannock, Bonneville, Bingham, Fremont and Teton Counties.

### Pyrites

Pyrites of commercial importance occurs in Washington County. The work which has been done indicates an immense tonnage.

### Salt

The pioneers evaporated the brine from the salt springs of Caribou County and the salt was transported to all of the Northwestern States before the advent of the railroad. Caribou is the only county in the State where salt of commercial importance occurs.

### Sulphur

Extensive deposits of native sulphur occur in a number of places in Caribou County.

### Talc

Talc deposits of sufficient purity to be commercially important are found in Idaho County.

# FEDERAL MINING & SMELTING CO.

## PAGE MILL

(By H. G. Washburn, Assistant General Manager)

The Page Mine was developed in 1909 and 1910, but owing to the fineness and intimate mixture of galena and sphalerite in the ore it was found that it could not be successfully treated by metallurgical methods in use at that time, and the mine was shut down.

In the spring of 1925, the Federal Mining & Smelting Company reopened the property and after doing additional development work built a 250-ton all-flotation mill, a surface plant at the mine, and the necessary camp accommodations. The construction work was done during the summer and fall of 1926, and the mill was put in operation December 7, 1926.

The ore from the mine stopes is hauled in two-ton, side-dump cars, by electric storage battery locomotives, and after weighing is dumped into a 250-ton skip pocket. It is then hoisted in a two-ton skip, the shaft being 600 feet on a 50-degree incline, and automatically dumped into a 170-ton bin at the shaft collar. From this bin the ore is hauled 500 feet to the 150-ton mill coarse ore bin, in two-ton A dump cars drawn by a trolley type electric locomotive.

The mine ore is drawn from this bin and after passing over a 1" grizzly, is crushed to a maximum size of 2" by a Gates No. 4 gyratory crusher. The crusher discharge and the undersize from the grizzly join and drop direct to a 200-ton fine ore bin, after having a one-twenty-fifth sample cut taken by a bucket and chain type sampler.

From the fine ore bin the ore is fed by a Federal type shaking feeder to an 8'x36" Hardinge ball mill, the discharge of the mill going by way of an 18" bucket elevator to a Federal type double belt drag classifier, operating in closed circuit with the Hardinge mill. The overflow from the classifier, 70%-200-mesh, and with a liquid to solid ratio of 3½:1 goes direct to an 8-cell standard 24" M. S. Sub. A flotation machine. The first four cells of this machine make a rougher lead concentrate that is recleaned on two Callow cells, the cleaner lead tails going to the drag classifier. The last four cells make a low grade lead concentrate that is returned to the head of the machine. The tails from the lead machine go to an eight-cell standard 24" M. S. Sub. A flotation machine for zinc flotation, the first three cells making a rougher zinc concentrate that is recleaned on two Callow cells, the cleaner zinc tails going to the head of the zinc machine. The last five cells make a low grade zinc concentrate that is returned to the head of the machine. The tails from the zinc machine are automatically sampled and go to waste. The lead and zinc concentrates from the Callow cells go separately to two Dorr thickeners, 20 feet diameter by 10 feet deep. The thickened concentrate goes by separate 12" bucket elevators to a new type double-drum Oliver filter. The drum filtering the lead concentrate is 5'x5' and the drum filtering the zinc concentrate is 5'x3'. The filtered concentrate, averaging 8% to 9% moisture, is discharged to two storage bins, the lead bin having a capacity of 200 tons and the zinc bin 160 tons.

The concentrate is drawn from the bins into motor trucks and hauled 3 miles to a railway siding just west of Government Gulch and is loaded in box cars for shipment to the smelters.

**FLOW SHEET - PAGE MILL**  
**FEDERAL MINING AND SMELTING COMPANY**  
**CAPACITY 250 TONS.**

JAN. 1, 1927

From Mine to Bin by Elec. Haulage - 2 Ton Cars.

1- Coarse Ore Bin - Capacity 155 Tons.

1-Grizzly 1"

1-No. 4 Gates Crusher

1-Sampler, Bucket and Chain Type,  $\frac{1}{2}$ s Cut.

1-Vezin Sampler,  $\frac{1}{8}$  Cut

1-Sample Bin.

1-Fine Ore Bin, Capacity 195 Tons.

1-Shaking Feeder, Federal Type.

1-Harding Ball Mill, Size 8'x36"  
 22 R.P.M. 150 H.P. Motor

1-Bucket Elevator, Height 13Ft., 18" Belt.  
 18"x7" Cups, Speed 425 F.P.M.

1-Federal Type Double Belt Drag Classifier  
 Speed 34 F.P.M.

1-8 Cell 24" M.S. Sub "A" Flotation Machine.  
 For Lead Rougher.

1-8 Cell 24" M.S. Sub "A" Flotation Machine.  
 For Zinc Rougher.

1-3" Wilfley Pump.

1-4" Wilfley Pump.

2-3" Traylor Pumps.

2-Callow Cells - Lead Cleaners.

2-Callow Cells - Zinc Cleaners.

2- Dorr Thickeners, 20' Diam. x 10'

1- Automatic Tailing Sampler.

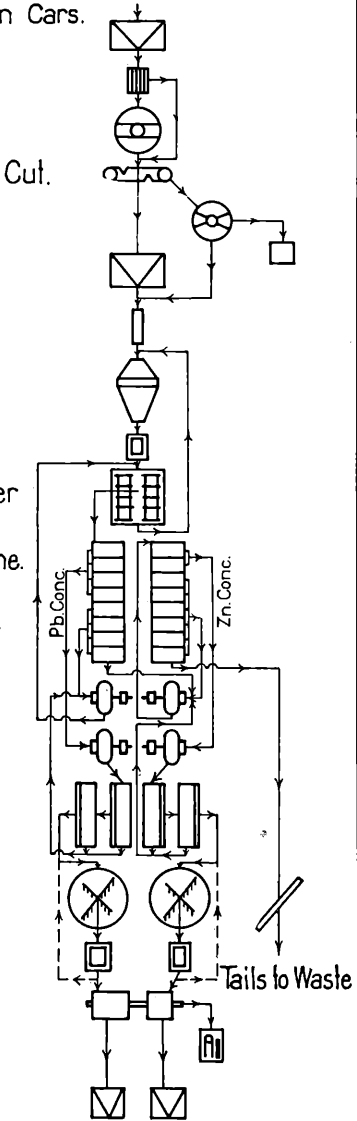
2- Bucket Elevators, Height 51 Ft.  
 12" Belt, 12"x7" Cups, Speed 285 F.P.M.

1- Oliver Filler, Drums 5'x5' and 5'x3'

1-Vacuum Pump.

2-Bins For Concentrates.

Capacity, Lead 200 Tons, Zinc, 160 Tons



Motor Truck to Ry. Cars.

Oils and reagents used are as follows:

**FOR LEAD FLOTATION—**

Zinc sulphate, xanthate and hard wood creosote.

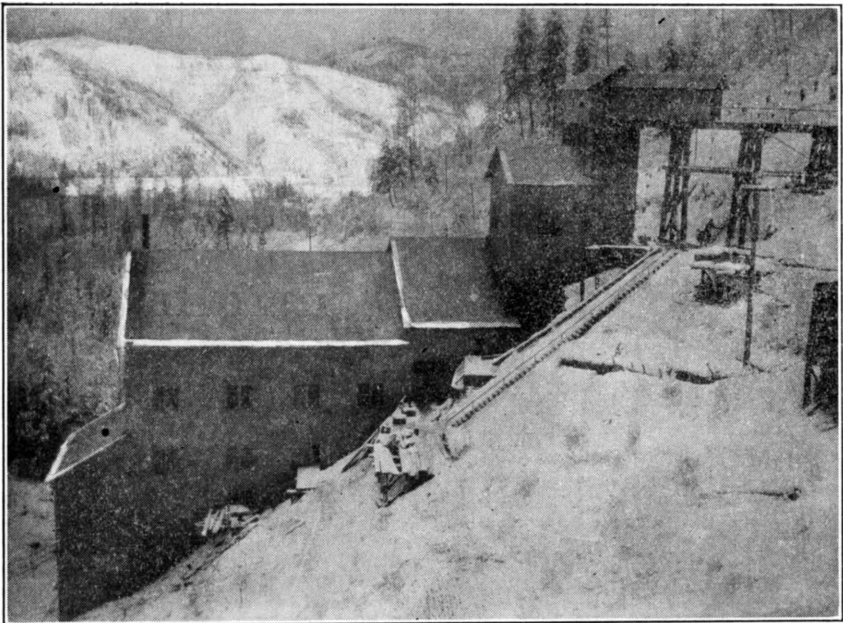
**FOR ZINC FLOTATION—**

Copper sulphate, xanthate, pine oil and Barrett No. 4 coal tar creosote.

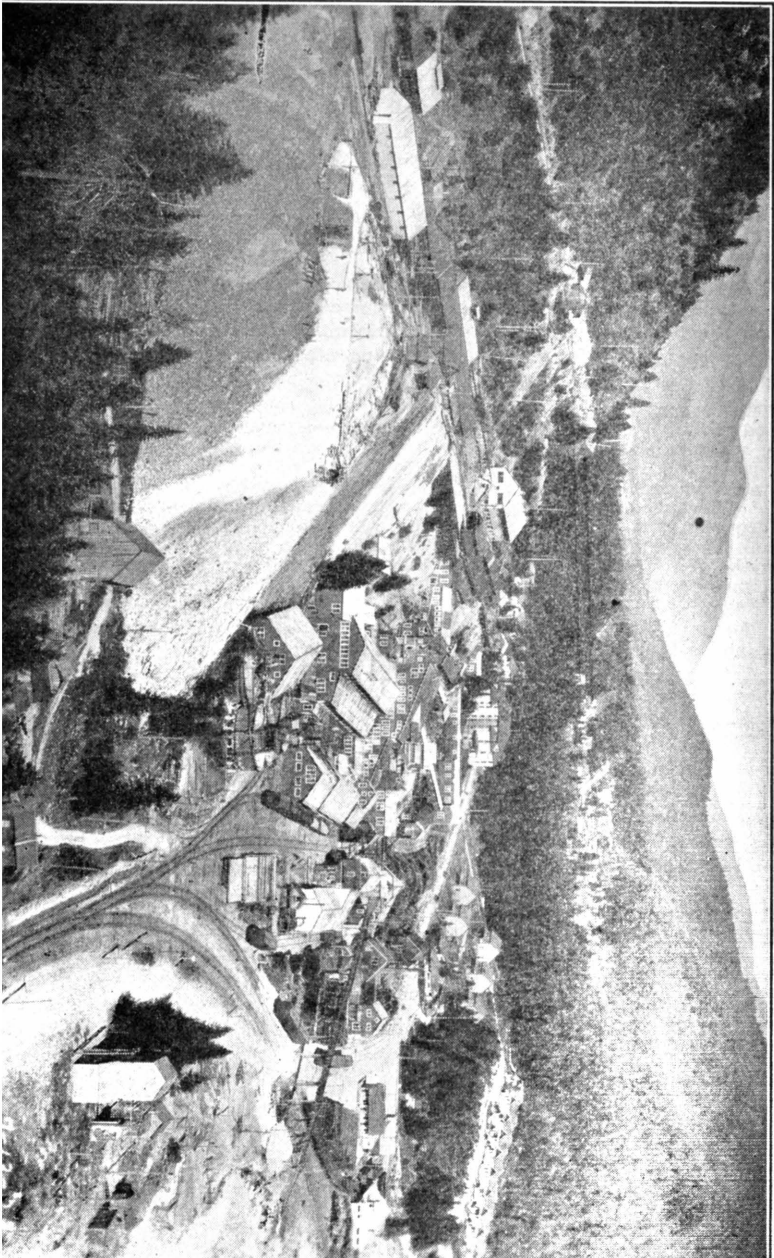
The mill has a capacity of 250 tons per 24 hours and employs 10 men per 24 hours. Approximately 335 horsepower is required. Concentration ratio: Lead, 10:1; zinc, 33:1.

Average assays of mill feed and products are as follows:

	Ag.—Oz.	Pb.—%	Zn.—%
Mill Feed .....	2.2	6.4	2.6
Flotation Lead Concentrates .....	17.0	57.0	9.0
Flotation Zinc Concentrates .....	4.0	3.0	48.0
Final Mill Tails .....	0.3	0.6	0.45
Average Total Recoveries .....	88.5	91.0	83.5



PAGE MILL: FEDERAL M. & S. CO.



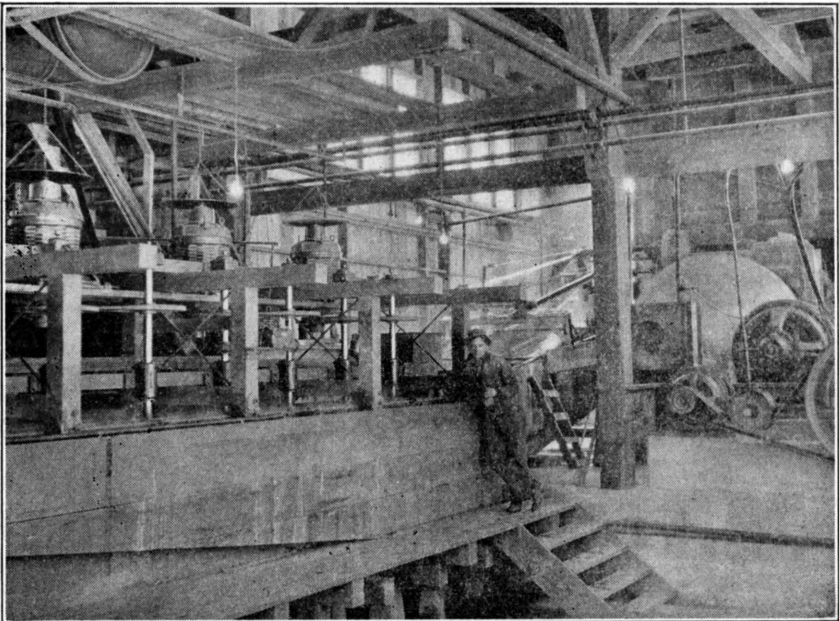
## CALLAHAN ZINC-LEAD CO. GALENA MILL

The Galena mill of the Callahan Zinc-Lead Company, which is a straight flotation concentrator with a capacity of 150 tons in 24 hours, was one of the principal new mills to be constructed in the State during 1926. This plant was designed, constructed and placed in operation by October 15. Since commencing operations it has handled capacity tonnage efficiently at a minimum labor cost, as only five men, one of whom is the assayer, are necessary to keep the mill in continuous operation. The efficient design has enabled this mill to establish a record in the Coeur d'Alene district for lower cost of labor per ton of ore treated than any other mill. The entire plant was constructed at a cost of \$60,000, or a cost of \$400 per ton capacity per 24 hours.

The ore from the Galena mine is a fine-grained steel galena with a little pyrite in a gangue of quartz and unreplaced wall rock. As lead-silver is the only valuable mineral in the ore, the milling problem is not complicated, and but one product is made—a lead concentrate which averages 50 per cent lead and 39 ounces of silver per ton.

The crude ore from the mine goes to a 600-ton bin, from which it is passed through a Blake type jaw crusher, thence through a set of McFarland rolls, which discharge onto a traveling belt-conveyor. This conveyor dumps the ore into the mill ore-bin, from which it is fed by an automatic feeder into a Hardinge ball mill, which operates in closed circuit with a Dorr classifier. The oversize from the classifier is returned to the ball mill for further grinding, and the undersize passes into the flotation circuit, consisting of a 10-cell latest type Minerals Separation flotation machine. The concentrate from the flotation cells is pumped into a 30-foot Dorr thickener. The thickened product then goes to an Oliver filter, which delivers a dry concentrate carrying about 6 per cent moisture.

The entire mill is electrically operated, with individual motors for each machine, and requires 160 horse power.



INTERIOR VIEW GALENA MILL: CALLAHAN ZINC-LEAD CO.



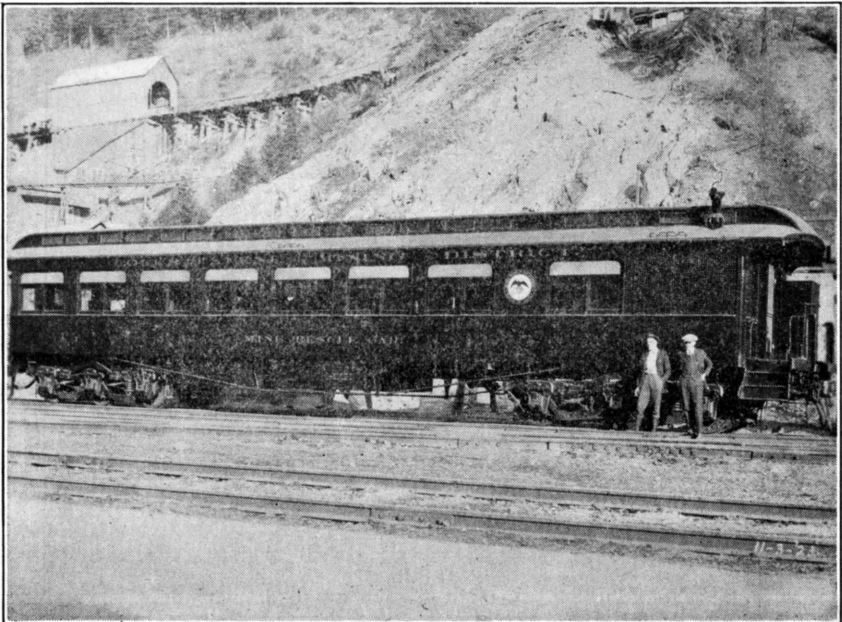
GALENA MILL: CALLAHAN ZINC-LEAD CO.

## MINE RESCUE WORK IN THE COEUR D'ALENES

By K. T. SPARKS, Director  
Central Mine Rescue Station—Coeur d'Alene Mining District  
Introduction

Early in the year 1923, two underground fires occurred in the mines of the Coeur d'Alene district. The first fire was in the Morning mine of the Federal Mining & Smelting Company, at Mullan, Idaho, and the second in the Hercules mine at Burke. Both of these fires fortunately did not result in any great loss of life. They were, however, very expensive on account of the enforced shutdown with the consequent loss of production.

Shortly after the Hercules mine fire, which occurred in the month of February, the Coeur d'Alene mine operators held a general meeting for the purpose of discussing underground fires and their prevention. During the course of this conference the proposition of establishing a central mine rescue station in Wallace was brought up. This station was to be equipped with the best type of oxygen breathing apparatus, accessories, and supplies, and would serve all of the mines of the district. The mine officials were favorably inclined toward the project and accordingly a future conference between the mine operators and representatives of the U. S. Bureau of Mines was arranged. This conference was held March 28, 1923, and resulted in the Bureau of Mines detailing an engineer to the district for the purpose of establishing the station and getting it to running smoothly.



MINE RESCUE CAR



### Housing Facilities

After due consideration it was decided that the apparatus and supplies should be housed in a railroad coach instead of a building. This decision was made because nearly all of the mines to be served were on a railroad. By this arrangement the use of a large motor-driven rescue truck was avoided as the use of a truck would not be feasible in the winter time when the snow was deep. A former rescue car of the Bureau of Mines was purchased for this purpose. The car was equipped to suit local conditions. The car is equipped with living quarters for a small crew and can be readily handled on regular passenger trains. The rescue car, which forms the nucleus for the central mine rescue station of the Coeur d'Alene district, is parked in Wallace. The car sits on a spur track which is common to both of the railroads of the district. A special engine is available at all times to quickly take the car to the scene of a mine fire.

### Selection of Equipment

On account of the fact that the apparatus men or so-called "helmetmen" of the district were more familiar with the Paul oxygen breathing apparatus, this was selected as the standard for the district. Fourteen sets are carried on the mine rescue car. While each of these machines is complete in itself, there is considerable accessory equipment required. This consists of extra oxygen bottles for the machines, large storage tanks of compressed oxygen, regenerating cans, etc. High-pressure oxygen pumps, both motor-driven and hand-operated, are provided for refilling the smaller oxygen tanks on the machines from the storage cylinders.

The breathing apparatus mentioned above is of the so-called two-hour type, i.e., under ordinary working conditions the machines will supply oxygen to the wearer for a period of from two to two and one-half hours. The time limit the machines can be worn is elastic, as they are provided with a variable feed valve, whereby just the amount of oxygen required is fed to the wearer. This means that the working period of the machines depends upon the work being done.

In addition to the large machines there are several smaller ones which will supply oxygen for a period of three-quarters to one hour. These smaller machines were procured for use as a rescue apparatus and not for actual fire-fighting purposes except in a confined space close to fresh air.

Small gas-filtering devices known as "self-rescuers" are also on hand. These are used for short trips through a gassy or smoke-laden atmosphere where there is plenty of oxygen available.

Two thousand regenerating cans, together with an ample supply of spare parts for the apparatus, repair materials, etc., are carried in stock on the rescue car. A complete outfit of small tools for repairing apparatus is also on hand. Various devices for testing the apparatus, such as flow meters, pressure gauges, and volume bags are available.

In addition to the above, a complete line of gas-testing apparatus is carried. This includes detectors for carbon monoxide, carbon dioxide, and methane. Orsat apparatus is available for a complete analysis of mine air. Several flame safety lamps of the approved permissible type have been provided.

Resuscitating devices consist of inhalators for administering both pure oxygen and a mixture of oxygen and carbon dioxide. The latter apparatus was devised by Doctors Henderson and Haggard of the Yale Physiological School.

For underground fire work battery type searchlights have been provided, each man on a team being supplied with a lamp. They have a high-power bulb and will throw a beam of light a distance of 500 feet.

Large portable searchlights are also available. These lights are designed for use on mine power lines. They are equipped with 1000-watt bulbs, and have a long armored cable attached so that they may be used where needed.

Life lines, consisting of light rope wound on a reel, are useful at the time of a mine fire, and several are on hand. An apparatus crew takes the end of the rope with them from the fresh air base, and by this arrangement are able to find their way out and the succeeding crew their way in. Life lines are a necessary part of mine-rescue equipment when the mine is filled with a dense smoke and apparatus men are employed from other properties.

An ample supply of special fire hose fittings are also carried on the car. These consist of plugs to connect the female ends of two hose lines together, receptacles for connecting the male ends of two fire lines together, revolving nozzles, spray nozzles, reducers, quick connectors, etc.

#### **Rescue Stations Located at Mines**

Besides the Central Mine Rescue Station located at Wallace, the Hercules Mining Company and the Hecla Mining Company, of Burke, have complete stations at the mines. Likewise the Bunker Hill & Sullivan Mining & Concentrating Company, at Kellogg, the Tamarack & Custer Consolidated Mining Company, at Gem, and the Federal Mining & Smelting Company, at Mullan, have completely equipped rescue stations. All of these stations are equipped with from 5 to 15 sets of apparatus, and an ample supply of spare parts, oxygen pumps, and regenerating cans. In the event of a large mine fire in the district, all of the equipment at each of the mine stations, together with the equipment from the rescue car, could be concentrated at one place in a very short time. This would give about 90 sets of apparatus and a large quantity of spare parts.

#### **Training of Rescue Men**

The men who are to become "helmetmen" are carefully selected. They must be young men who are physically fit. Intelligence, coolness, nerve tempered with caution, and ability to think quickly in an emergency are additional requisites. The necessity of these qualifications will be seen when it is known that crews in this district are often called upon to travel nearly a mile through underground drifts filled with poisonous gases or irrespirable air, and often work in temperatures as high as 160 degrees Fahrenheit. Permanency at the mine where they are employed is another factor considered, although this is not so important, as men leaving one mine of the district usually find employment at another, and hence are still available.

The men are trained in groups of five, as this is the best and most conveniently handled number to get the maximum efficiency. The training covers a period of three months at three-week intervals and lasting four hours each time. Preliminary steps in training consist of learning the basic principles, the construction, circulation, and tests of the breathing apparatus. After this the men wear the apparatus, first in fresh air and later in an irrespirable atmosphere. This usually consists of wood smoke, sulphur, or formaldehyde fumes. In both fresh air and gas the men are required to perform hard physical labor, and do certain exercises designed to bring the large body muscles into play, which causes the maximum oxygen consumption. Confidence in the apparatus is thus established, and the men learn the limitations of the machines and just how much work they can do while wearing them.

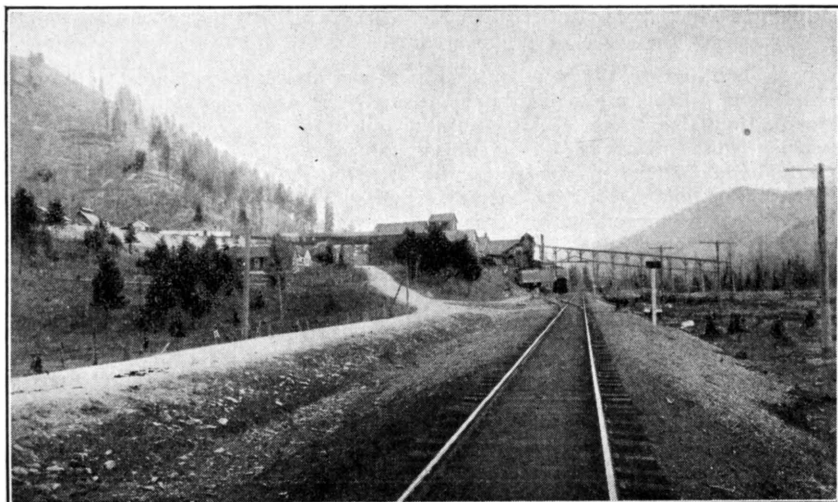
After the first course of training is completed, they receive practice with the apparatus one afternoon every month for an indefinite period. During these practice periods they are released from their regular work in the mine and report at the rescue station. Compensation is, of course, allowed during this practice. About 200 men are in active training at all times, being divided proportionally among the large mines. Several of the mines pay their "helmetmen" a bonus of \$0.25 per shift over the regular scale of wages. In this way there is always a demand for a place on the rescue teams.

In conjunction with mine-rescue training, a certain amount of first-aid work is also introduced, especial attention being paid to methods of artificial respiration. A close cooperation in both the first-aid and mine-rescue work is maintained with the United States Bureau of Mines.

#### Cost of Rescue Equipment in the Coeur d'Alene District

All of the large mines of the district are banded together in an informal organization known as the Coeur d'Alene Mine Operators' Association. The mines contribute to a general fund at the rate of \$0.05 per ton of ore mined. By this arrangement the cost is distributed according to the output of each mine. The fund is administered by an agent appointed by the mine managers.

The rescue equipment of the Coeur d'Alene district forms one of the most complete installations in the United States. The Mine Operators' Association has spared no expense to make it complete. The equipment represents an investment of about \$35,000. This figure includes the rescue car and its contents and the rescue stations located at the mines.



MILL OF GOLD HUNTER MINES INC.

## GENERAL REVIEW AND 1926 ACTIVITIES

The year 1926 closed with the mining industry in Idaho witnessing one of its most prosperous years since the boom days of the World War. All the producing mines operated throughout the year, capacity production was maintained, and a few companies increased their production above the normal output. All the principal producers continued active development work, proving the extension of the ore at greater depth and laterally. The increased ore reserves and the improvements added to mine and mill plants have greatly enhanced the physical condition and the future life of the mines.

During the year many new companies were organized, and much new mining work was undertaken. The majority of these enterprises were started in the southern part of the State, although the increase in the Coeur d'Alene district exceeded that of the previous year. The principal mills constructed or remodeled during the year were: The Page mill of the Federal Mining & Smelting Co. at Kellogg; the Sweeny mill of the Bunker Hill & Sullivan M. & C. Co., which was converted into a custom mill of two units for the treatment of lead and zinc ores; the Jack Waite mill of the Jack Waite Leasing Co. at Murray; the Galena mill of the Callahan Zinc-Lead Co. at Wallace; the Constitution M. & M. Co. at Masonia; the Hecla Mining Co. at Gem; and the Snow Storm mill of the Oregon-Idaho Leasing Co. at Mullan. All the foregoing are in Shoshone County. Mills constructed at other points in the State were: The Livingston Mines Corporation in Custer County; the Mineral Mining Company in Boise County; and the Lincoln Mine Operating Co., at the famous old Lincoln mine in Gem County.

The most important new construction work to be started during the year was the electrolytic zinc smelter at Kellogg. This plant is being constructed by the Sullivan Mining Co. to treat the zinc ore from the Star mine. It will have an initial capacity of 50 tons per day. The estimated cost is about \$1,500,000, and it is anticipated that the plant will be completed and in operation by the close of the year 1927.

In addition to the new enterprises, new discoveries, and the improved conditions at the producing mines, there were also many inquiries and investigations by those seeking mines and mining investments. These inquiries were made by large mining companies, investors, promoters, and individuals. Many of the properties satisfied the requirements of the investigators, and in a few instances mines were acquired under favorable terms; other investigators were well impressed and would have recommended the properties, had it been possible to procure them under satisfactory conditions. Many prospectors and small companies, who are unable to finance the development of their own mines yet refuse to option them under favorable terms to those who are able to do so, are responsible for retarding much new work.

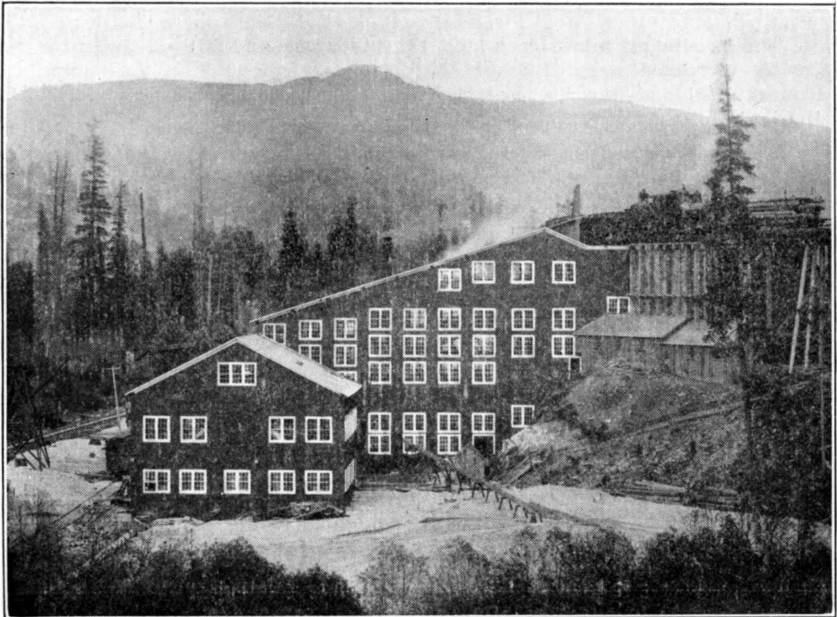
The activity of the Hecla Mining Co. in seeking new mines in the southern part of the State was one of the noteworthy events of the year. In adopting a policy of expansion, this company is further perpetuating its existence, as well as making itself a dominant factor in developing a small part of the State's latent mineral resources. In addition to making numerous investigations, the company expended a large amount of money at the Minnie Moore mine in Blaine County, and at the Mountain King, South Butte, and Josephus Lake mines in Custer County.

The high price level that the four principal metals maintained throughout the year, a return to a more normal condition throughout the United States, and the seeking for mining investments and new mines were the principal factors responsible for the awakening and stimulation of the industry.

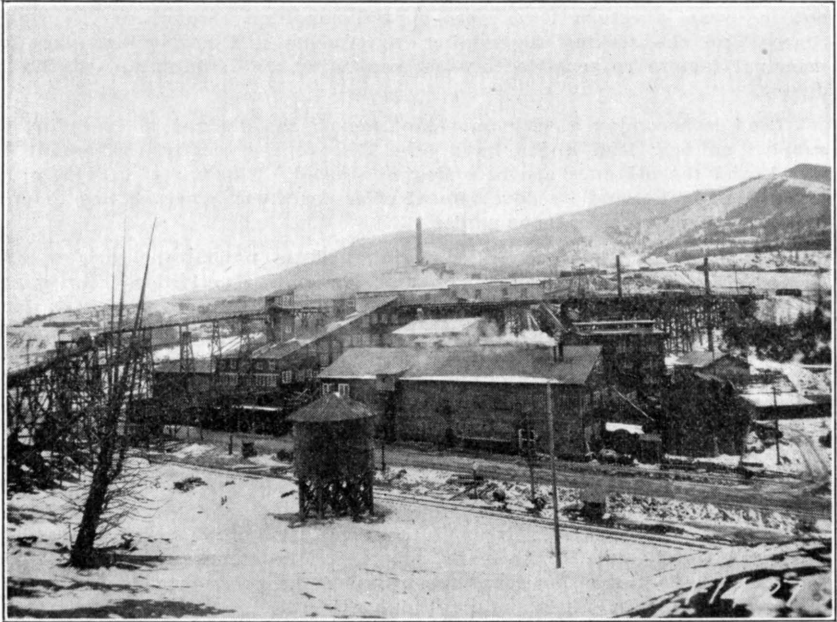
Lead is becoming a very important metal; the demand is exceeding the supply; no new lead mines have been discovered recently throughout the world, and the old ones are becoming exhausted. This metal is widely distributed in Idaho, and its development offers excellent opportunities to prospectors and development companies.

The high price level that zinc maintained throughout the year was responsible for a large part of the increase in mining activities. The mining of this metal again became profitable; old mines were reopened; a large tonnage was produced, and the search for zinc mines was greatly stimulated. As the production of zinc throughout the world is decreasing, with a corresponding increase in consumption, the high price level will probably prevail and be made permanent. In addition to the high price of zinc, other factors responsible for the stimulus in zinc mining were the new freight rates granted on these ores from Idaho points to Portland, Oregon, and the new markets established by foreign smelters contracting for Idaho ores to be sent abroad for smelting.

The strong healthy condition of the mining industry at the close of the year was largely due to the many substantial developments, which fall into two classifications: Increased resources of the producing mines, and additional new ore in mines under development.



BUNKER HILL & SULLIVAN M. & C. CO. SWEENY MILL IN 1901



SWEENY MILL IN 1926. TAINTON LEAD PLANT IN FOREGROUND.  
LEAD SMELTER IN BACKGROUND

The producing mines in which the resources and life of the mine were greatly increased were: Bunker Hill, Hecla, Morning, Star, Tamarack, Gold Hunter, Highland-Surprise, and Stratton. All these are in the Coeur d'Alene district.

New ore disclosures which portend dividend-paying companies were made in the following mines: The Galena mine of the Callahan Zinc-Lead Co., the Sunshine, Lincoln, Hypotheek, Hector, Sidney and Hilarity, in the Coeur d'Alene district; the Livingston, Seafoam Mines Corporation, Burns M. & M. Co., Hecla Mining Co. at Mountain King and Williams-Dryden, in Custer County; the Independence mine of the Federal Mining & Smelting Co., the Norris-O'Connor group, and the Star, in Blaine County; and the old P-I mine at Gilmore, Lemhi County, which is now owned by the United Idaho Mining Co., a subsidiary of the U. S. Smelting, Refining & Mining Co.

Copper mining witnessed a slight improvement, and production and development exceeded that of the former year. As copper prices maintained a level which does not permit profitable operation where the ore is confined to narrow veins, this resource did not receive much attention except in Lemhi and Custer counties. Many of the mines in these counties offer excellent opportunities, and the development work performed during the year greatly exceeded that done during 1925.

As Idaho offers unequalled opportunities in mining, and as the diversity of its mineral wealth exceeds that of any other state of similar size in the Union, a healthy substantial growth of the mining industry is predicted.

The outstanding new enterprises, new developments, and new construction work can best be reviewed through an outline by counties.

### Adams County

During the year 1926 the county witnessed very little actual mining operations. The Idaho Copper Co. devoted most of its energy to the construction of a wagon road (which was constructed under contract) from Ballard's Landing to Eagle Bar; in addition to the road, this company constructed a trail from the old town of Helena to Eagle Bar and performed a small amount of development work on the old South Peacock mine, which was abandoned about 25 years ago by the former operators.

Prospectors in the Hornet Creek and Indian Creek sections were more active than in previous years. It was reported that a small amount of diamond drilling was performed on a copper prospect near the head of North Hornet Creek.

### Bannock County

During the year the Cleveland Mining Corporation and the Idaho Manganese Mining Co. performed a large amount of development work, in addition to producing and marketing a substantial tonnage of high-grade ore. The manganese deposits owned by these companies are located near the southern border of the county, and it is entirely possible that they may extend into Franklin County.

At Lava Hot Springs, the Lava Manganese Mining Co. was active throughout the year, producing and marketing a small tonnage of ore. Lessees performed a small amount of development work on the property owned by the Lead Bell Mining Co.

### Bear Lake County

The San Francisco Chemical Co. was the only phosphate mine in the county which was active during the year. This company operated its mine for eight months and produced a large tonnage of rock which was shipped to San Francisco, Calif., where it was converted into super-phosphate in a plant owned by the company.

The Colossus Mining & Milling Co., near Pegrarn, was active throughout the year. A mill building, power-house building, and cottages for employees were constructed, and a small amount of mine development work was performed during the year. This enterprise is based on gold which is not detected by the usual methods employed in assaying for this metal. The company's officers state: "The presence of gold is determined by a special assaying and cyaniding treatment, the enterprise is predicated on these special methods and the tailings from the mill will be pressed into bricks."

### Blaine County

The famous Minnie Moore mine was the scene of the most extensive prospecting in the county during the year. In August, 1923, this property was acquired by the Federal Mining & Smelting Co., who constructed new buildings, installed new mining machinery and equipment, and then commenced active mining operations which consisted of sinking the Allen shaft to the 800-foot level and driving about 1000 ft. of new crosscuts, drifts, and raises. On June 16, 1924, the Federal forfeited its option; and on June 26, 1924, Harold Boericke, of Philadelphia, acquired the mine under a lease and option similar to the one held by the Federal. He acquired the surface plant and mining equipment under a lease from the Federal and immediately commenced developing the mine where the former company left off. An average number of forty men was employed continuously and the work was carried forward with much vigor until December 31, 1925, at which time operations were suspended and the property turned back to the owner, who kept the pumps in operation until February 2, 1926, at which time work was resumed by other interests. These operators performed a large footage

of diamond drilling and crosscutting until May 25, 1926, at which time they suspended all work. The mine was then idle until June 26, when work was resumed by the Minnie Moore Syndicate, an organization whose operations were conducted through the Hecla Mining Co. of Shoshone County. This organization conducted an active exploratory campaign until November 11, 1926, at which time it suspended its operations and turned the property back to the Minnie Moore Mines Co. The president of the latter company had previously anticipated that the Minnie Moore Syndicate would forfeit its option, and was successful in having the mine refinanced by the date of forfeiture, so the change in operators was made without a suspension of operations, and the year closed with the Minnie Moore Mines Co. maintaining a vigorous development campaign, the principal part of which was the sinking of a winze from the lowest level in the mine.

The Independence mine, owned by the Federal Mining & Smelting Co., was operated throughout the year by lessees. The ore shipped by them constituted the largest shipments from the county, and the new ore which they developed was one of the most important new disclosures. Another development, with subsequent shipments of new ore, was that made by Charles Sonneleitner and E. W. Rising, at the Star mine, which is an old producer about midway between Bellevue and Hailey, on the west side of Big Wood River.

The Hailey Bonanza Mining Co. further explored its property in a search for the continuation of the ore shoot.

Others who continued to develop their mines throughout the year were the Democrat Mine, Inc.; the Wood River Mining Co.; C. S. Muffley of Helena, Montana, at the Parker group east of Ketchum; A. F. Peery, who is operating the famous old Vienna mine under a lease; and Peter L. Kent at the Lone Pine Group on Deer Creek.

The most important development work maintained during the year was that of Harold Boericke at the Norris-O'Connor groups in the Muldoon section. Two gas-driven compressors were installed, and active work was carried on throughout the year, resulting in two important disclosures.

The principal new companies and enterprises which started during the year were: Idaho Silver King Mining Co., at Sawtooth; Idaho Mascot Mines Coalition, at Mascot mine; M. T. Rowland on the Smuggler group in the Muldoon section; and the Combined Metals & Reduction Co., a subsidiary of the National Lead Co., at the Triumph mine, which adjoins the North Star mine of the Federal Mining & Smelting Co.

The reopening of the Silver King mine by the Idaho Silver King Mining Co. was one of the most important undertakings in the county during the year. In 1893 this mine was the principal producer in the Sawtooth district. The head-house and gallows frame burned down, the mine was closed and a watchman placed on the property. As years went by, the remaining buildings fell into decay, the collar of the shaft caved in, and all records were lost. Under such a condition, the mine could not be examined, so was turned down by all the large companies which became interested in it. The present operators displayed their "nerve" in reopening the mine and as a result of their courage they were amply rewarded with a large tonnage of developed high-grade silver and antimony ore.

#### Boise County

The year 1926 witnessed little improvement in mining conditions in Boise County, particularly in the Boise Basin. No new projects of any consequence were started, and the established companies either were idle or did not expand their operations over those of the previous year. However, there



was an increase in investigations by large companies and others who were looking for lead-zinc mines. Some of these investigators were favorably impressed and would have recommended the mines, had it been possible to procure them under favorable terms.

The largest new undertaking completed during the year was the construction of a small dredge by the Gold Dredging & Power Corporation. This dredge is equipped with a close-connected bucket line composed of 4-cu. ft. capacity buckets. The dredge was completed and put into operation early in May.

During the high water season the Boise Placer Co. conducted mining for a period of 100 days. This is the largest hydraulic placer mining operation in the State.

The Mineral Mining Co.'s mine was idle until October, as all the company's energy was devoted to the construction of a new 100-ton concentrator. The building was completed, equipment installed, and mining and milling started in October, after which a few tons of lead-silver concentrate were marketed. This company and the Monetary Metals Co., which is exploring the Washington mine, a silver prospect in the Gambrinus district near Idaho City, maintained the largest payrolls in the county. The Monetary Metals Co. conducted an active mine development campaign until October, at which time all underground work was discontinued.

The Independent Mine Syndicate, owner of the Wells group near Grimes Pass, and the Idawa Gold Mining Co. each performed a small amount of work. The Idawa Gold Mining Co. operated its mill for about eight months, and produced a substantial amount of gold bullion.

The Golden Seal Mining & Milling Co., which is developing a lead-zinc-silver prospect near the head of Dry Creek, on the Boise side of the Boise Basin mountains, performed a small amount of work. As the Golden Seal vein is wholly inclosed in granite, the development work is attracting much attention.

#### Bonner County

Talache Mines, Inc., continued to be the largest operator and producer in the county. The shaft was sunk an additional hundred feet, intermediate drifts and raises were run on the vein, and a large tonnage of ore was produced and marketed during the year. The mine is now opened to a vertical depth of 1400 feet and was one of the largest mines in the State whose ores are primarily silver. During the year the proven ore bodies were exhausted and, as a large amount of development work failed to find additional ore, operations were suspended on October 31, 1926. The management contemplates moving its organization and equipment to another mine.

The quarry of the International Portland Cement Co., Ltd., is the second largest mining operation. This company's mine and plant are the most important of their kind in the State. A large tonnage of lime rock was produced and shipped to Spokane, Wash., where it is used in the manufacture of Portland cement.

The Hewer Mining Co. was reorganized as the Idaho Hewer Mines, Inc., in April, after which an active mine development campaign was maintained during the remainder of the year. This work consisted of sinking the shaft to a total depth of 500 feet and drifting on the vein at the lower level. A substantial showing of new ore was opened by this work.

The Clark Fork and Cabinet sections witnessed an increase in mining operations and shipments over those of the previous year. The Elsie K. mine was operated by lessees, who shipped a few cars of high-grade lead-

silver ore. The Lawrence Consolidated Mining Co. was more active and produced a small amount of ore. In addition to these in the Clark Fork section, the Clarinda Copper Mining Co. was active, and the new lead-silver discovery which was incorporated as the Whitedelf Mining & Development Co. proved to be one of the most important new discoveries in the State. This vein was exposed by the uprooting of a tree in a storm. Subsequent development work by the owners and lessees exposed a large amount of ore, and a substantial tonnage of high-grade lead-silver ore was produced and marketed. The work done by prospectors in developing their properties exceeded the usual amount; so as a whole these sections experienced a good year.

Prospectors and the small development companies in the Priest Lake district were more active than in the past year. Many of them increased the amount of work usually performed, and there was a slight increase in the search for new veins.

This opportunity is again taken to call attention to the correct spelling of the word Pend d'Oreille. For some unknown reason, the United States Geographic Board in 1895 adopted the form Pend Oreille, and it has been so spelled since then by Webster's New International Dictionary, Funk & Wagnalls New Standard Dictionary, and the United States Geological Survey. The legal and historical spelling of the word is Pend d'Oreille.

#### Boundary County

The year 1926 witnessed little improvement in this county. No new ore discoveries were made, the operating companies did not expand their work, and no new enterprises were started. The Continental mine at Porthill, owned by the Idaho Continental Mining Co., was operated throughout the year by the Idaho Continental Co. On an average, more than 50 men were continuously employed, and a large tonnage was produced and marketed. This mine is one of the largest lead producers in the State, and its continuous operation and output are big factors in the prosperity of the county.

The Leonia Gold Mining Co., which is a reorganization of the Idaho Gold & Ruby Mining Co., maintained a pay roll of approximately five men during the year, and performed considerable new work, for which the money was derived from stock assessments.

The Brush Lake Mines Co., the Golden Sceptre Mining Co., Ltd., the Moyie Gold-Copper M. & M. Co., Ltd., and the International Molybdenum Co. expanded their development operations over those of the previous year.

The geology and mineral resources of this county are described in a new bulletin which was issued during the year, *Geology and Ore Deposits of Boundary County, Idaho*, by V. R. D. Kirkham and E. W. Ellis: Idaho Bureau of Mines and Geology (Moscow, Idaho), Bull. 10.

#### Butte County

The Wilbert Mining Co., Ltd., whose property is in the Dome district, was the most active mining operation in the county. This company had an average payroll of 20 men; the mine was further developed, and a large tonnage of ore was produced and marketed. The Badger Mines Co., which is also in the Dome district, constructed a small mill and shipped a few tons of concentrates, in addition to doing a little mine development work which increased the ore showings.

The Lava Creek district witnessed a large increase in mining activities. Two new organizations were perfected, and the discovery of new ore was reported.

An attempt was made to exploit the marble that occurs in the large limestone quarries near Arco. Small shipments of the marble were sent to different cutters for finishing tests, and they were pronounced to be of exceptional quality and colors.

### Caribou County

The Anaconda Copper Mining Co. maintained production at its phosphate mine for a period of six months, in addition to constructing a large number of new homes for its employees. This company's mine plant is one of the largest in the State, and possibly the largest in the United States for the mining of this mineral. The rock mined is shipped to Anaconda, Montana, where it is converted into a concentrated phosphatic fertilizer, the finished product being known as Anaconda treble super-phosphate.

During the year, the Great Western Oil Co., whose property is located in the eastern part of the county near the Wyoming line, deepened its well approximately 1000 feet. At the close of the year, this well had reached a total depth of 2600 feet.

### Clark County

The mines in the Birch Creek district were dormant for many years, until 1925. During the closing months of this year a new company was organized, which took over the Scott mine and started development work, continuing throughout the year 1926. In addition to performing a large amount of underground work, the company constructed a small concentration mill, and produced and marketed a few carloads of lead-silver ore.

Prospectors and others seeking lead-silver mines gave considerable attention to the possibilities of the Birch Creek section during the year.

### Clearwater County

The year 1926 witnessed an increase in mining and mining activities throughout Clearwater County. Hydraulic operations were conducted at a few of the mines near Pierce City, and the Independence Placer Mining Co., Ltd., whose property is on Moose Creek, a tributary of the North Fork of the Clearwater River, completed the installation of its 6000 feet of hydraulic pipe and the necessary ditches, and conducted mining operations during the high water period. The Rhodes Creek Mining Co. at Pierce employed a few men throughout the year.

In the Neva Hill section, near Elk River, the lead-silver deposits received a small amount of attention, the principal operations being those of the Ruby Creek Mining Co.

In 1925 construction work was started on a new branch line of the Northern Pacific Railroad from Orofino to Pierce City. The principal construction was completed during 1926, and it is expected that the road will be fully constructed and opened to traffic early in 1927. While this railroad was constructed primarily to open the large timber resources of this section of the State, it will be an important factor in furthering mining in the Pierce City district. This was noticeable throughout the year, as mining activities and interest in mines greatly exceeded those of any other year since the placer mines became exhausted. Prior to the construction of the railroad, Pierce City had dwindled to a "ghost town"; the renewed interest in mining, the new logging enterprises and the presence of the construction forces converted it into the second largest town in the county, and gave new birth to the first established town in the State.

### Custer County

The principal mineral resources are lead, silver, copper, gold, zinc, antimony, molybdenum, tungsten, graphite, bentonite, and garnet. The deposits are widely distributed throughout the county, and many of them offer exceptionally favorable opportunities to prospectors and development companies. The diversity of mineralization and the favorable geological conditions are attracting some of the largest organizations in the United States to this county, and the many new discoveries that are resulting fully prove the possibilities that are in store for those who possess a little courage.

During 1926 Custer County experienced more new mine development and new enterprises of importance than any other county in the southern part of the State. Many of these are based on substantial mine foundations, and out of twelve important new discoveries that were made in the State during the year, five were in this county. The most important of these was made at the Mountain King mine in the Sheep Mountain district by the Hecla Mining Co., a new and important entry into the county during the year. In addition to the Mountain King, this company also acquired the Josephus Lake group at Seafoam and the South Butte group which adjoins the Red Bird mine of the Ford Motor Co.

The most important discovery of new ore made in the State during 1925 was that of the Livingston Mines Corporation. This disclosure was the biggest discovery of lead-zinc-silver ore which has been found in southern Idaho during the past 30 years. Active development work throughout 1926 greatly enlarged the known tonnage of ore over that opened during the previous year. After this ore was exposed, mining operations were expanded and shipments immediately undertaken. As the size and importance of this discovery attracted nationwide attention, it served a good purpose in drawing attention to the great undeveloped mineral resources of southern Idaho, and was instrumental in encouraging prospectors, development organizations, and numerous large mining companies to grasp the many similar opportunities. The new plant installations, new construction work and mine development done by this company constitute one of the largest expenditures that has been made in the State in the past three years. During 1926 a new compressor, a 250 h. p. vertical Diesel engine direct-connected to an electric generator, and additional mine equipment were added to the mine plant; the mill and tramway were completely remodeled; two new bunkhouses, two shops, and six additional residences were constructed, and a large expenditure was made in new road construction and road improvement.

The Ford Motor Co., which acquired the famous old Red Bird mine near Clayton in the closing months of 1924, conducted an active mine development campaign, a large part of which was diamond drilling, until July, 1926, when all underground work was suspended. Hydro-electric power plant and mining claim patent surveys were made during the latter part of the year. Stories carried in the press during the month of June were to the effect that the diamond drilling and development work proved a substantial tonnage of new ore. The surveying of the mining claims for patent indicated that the company intended to exercise its option to purchase the property, which was interpreted by the press as convincing proof that sufficient ore was developed to justify such a move. Metallurgical investigations were also conducted during the year. Wages paid by this company do not conform to the wage scale in effect throughout the State. All employees start at a wage of \$5 per day. After a period of 60 days, the wage is automatically increased to \$6 per day, after which further increases granted are based on the manager's discretion. The entry of this company into Custer County attracted nationwide attention, and it was instrumental in adding to the increased prosperity which the county witnessed during the year.

The Empire mine at Mackay continues to hold first place as the largest copper producer in the State. This mine is owned by the Idaho Metals Co., and active mining and milling operations were conducted throughout about six months of the year. The mine is operated under the leasing system, in which over 100 men are engaged.

The Kay Development Co., Inc., which is operating the Horse Shoe mine, conducted active mining operations throughout the year. These consisted of sinking the shaft to a deeper level, and of much lateral exploration in the upper levels. This work disclosed some new ore of importance, and a substantial tonnage was produced and marketed.

Lessees on the Blue Jay and the mine owned by the White Knob Mining Co. were also successful in discovering new ore which was of importance.

The famous Ramshorn mine at Bay Horse, which at one time was one of the largest silver producers in the State, was operated throughout the year by lessees who marketed a small tonnage of ore.

Important disclosures of new ore were made by the Burns Mining & Milling Co. and the Seafoam Mines Corporation, both in the Seafoam district, and at the Williams-Dryden mine in the Bay Horse district near Clayton.

The remaining placer deposits in this county which justify exploitation and development by hydraulic and dredging operations received much attention from investigators during the year. The most important of these operations were the churn drilling and shaft prospecting done on the Yankee Fork placers near the old town of Bonanza.

During the year Custer County witnessed a larger amount of scouting and prospecting for new lead-silver-zinc mines than did any other county in the State. Many of the investigators were favorably impressed, and a few new enterprises are in embryo. The outlook for new mine development, increased production and greater activity by the established companies is exceedingly bright.

#### Elmore County

In the past years Elmore County was a noted producer of high-grade gold-silver ores and placer gold, particularly when the mines in the Atlanta and Rocky Bar districts were being worked. The placer ground which could be hydraulicked has long been exhausted, and the quartz mines have been dormant for years, having been closed down either through litigation, lack of power, or finances. These districts offer many opportunities to development companies and, since power is within easy reach from Featherville, there appears to be no reason why the mines are not receiving more attention.

The South Park Dredging Co. at Featherville continues to be the largest mining enterprise in the county. The dredge was operated the greater part of the year, and the tailing stacker and digging ladder were lengthened to permit digging at a greater depth. The record this enterprise is making is a big factor in the welfare of the district and is attracting attention to the mineral resources and possibilities of this part of the State.

The Rocky Bar district witnessed a little improvement in the starting of new enterprises over that of the previous year, although no work of any importance was performed.

The Atlanta district was more active, witnessing more investigations and the initiation of more new enterprises than at any time during the past ten years. Three old deep mines resumed operations under new organizations, and plant construction on a hydraulic placer mine was started.

The Franklin Consolidated Gold Mines Co., which acquired the old Franklin mine in the Pine Grove district in 1925, maintained an active development campaign until litigation compelled a suspension late in the year.

#### Gem County

The Pearl district, once a famous gold-producing camp, and a few undeveloped sections where a small amount of prospecting has been done, are the only mineralized areas in Gem County. The principal minerals occurring in these districts are gold, silver, lead, zinc, copper, and arsenic. Gold predominates, and occurs in a free-milling quartz and combined with the sulphides of lead, zinc and iron. The deposits containing the complex sulphide ore are of commercial importance and have not been mined, as transportation and the metallurgical methods in use at the time the Pearl district was active prevented profitable operations. The sulphide ores are amenable to modern

flotation methods, and, as there is a large tonnage in many of the old mines that are lying dormant, they will again become profitable operations when properly equipped and financed.

During the year much publicity was given to the possibility of finding petroleum in this county. A preliminary investigation of conditions was made by geologists of the Idaho Bureau of Mines and Geology. These men collected a large amount of fossil material, which was examined by the United States Geological Survey. The Bureau summarized its findings with: " \* \* It appears that the hoped for evidence of marine strata, with which oil throughout the world is associated, has not yet been found."

One of the most important developments to be started in the State during the year was the rejuvenation of the old Lincoln mine by the Lincoln Mine Operating Co. This company was fully financed, the small shaft was re-opened and construction work was started on converting the old mill into a fine-grinding and flotation concentrator. A large tonnage of proven ore has been reported, and it is expected that this operation will soon be one of the principal mining enterprises in Southwestern Idaho.

G. R. Chadbourne of Augusta, Maine, was active throughout the year in rehabilitating the principal tunnel of the Granite State Consolidated Mining Co., and one other operator expended a small sum in development work.

#### Idaho County

During the early days of Idaho this county was one of the largest gold-producing districts in the United States, and at the present time it offers more possibilities for profitable gold mining than any other section. Many of the millions produced during those early days were won from the placer deposits which occur in practically all the seventeen mining districts within the county. Excepting the flat land and river bottoms, which are suitable for dredging, and which fully justify investigation, all the placer mines are exhausted.

The greatest handicap which the county is compelled to undergo is the lack of transportation, and under present road conditions only the highest grade free-milling ores can be successfully handled. Railroads into the various mining districts are a far-removed possibility; however, a good automobile or motor truck road would serve to open many of the districts which are now dormant.

Much of the ore is a free-milling gold, and if not, a high-grade concentrate can be made which will permit a long haul. The latter statement applies particularly to the ores of the Ten Mile, Orogrande, Elk City, Buffalo Hump, and Dixie districts. The highway from Harpster to Elk City up the South Fork of the Clearwater River will make all these districts accessible by a water-grade road, and their development will soon follow. This highway is one of the most meritorious projects in the State, and everyone interested in mining in these districts is looking forward to its early completion. In July the prospectors and companies holding unpatented claims in the Elk City, Orogrande, Dixie and Buffalo Hump districts voted to do their annual labor on this road. As a result of their faith in these districts, over four miles of road and a bridge over the Red River were constructed on the Elk City end. The lower end of the road was extended a distance of six miles, and a further extension of six miles during 1927 was provided for by the Forest Service in its allotment of expenditures for that year.

The gradual return to a more normal condition, under which gold mining is again becoming profitable, was reflected in this county during the year by a small, though substantial, increase in mining operations, investigations, and new enterprises. The most important of these was an investigation of the so-called dikes—low-grade, free-milling gold ore—in the Elk

City district by one of the largest copper-mining organizations in the United States. This investigation extended over a period of 30 days, and it was reported that the properties examined were favorably recommended.

The Unity Gold Mines Co. at Warren was idle throughout the year. The Holte Mining Co. in the Marshall Lake district performed its necessary annual labor; its mine was examined by two prominent companies who were favorably impressed with it. In past years these mines were recognized as important gold-mining operations.

Two companies operating in the Ten Mile district produced a small amount of bullion, and expanded mining operations over those of the previous year. This district as a whole witnessed a substantial increase in new work by prospectors and in investigations by scouts seeking gold-mining enterprises.

The Elk City district witnessed a large increase in mining operations, prospecting and investigation in search of gold and antimony mines. A large number of new mining locations were filed, and operations were resumed at the American Eagle and Black Pine mines, which had been idle during 1925. All the companies which were active during the previous year continued development work throughout 1926, and two of them reported encountering a good showing of new ore.

The Dixie district was more active than at any time in the past six years. There was an increase in company operations and in number of prospectors, and one new discovery of high-grade gold ore was reported.

The deposits of gold ore on Slate Creek, discovered in 1925, were actively developed throughout 1926.

#### Lemhi County

The principal mineral resources are lead, copper, silver, gold, zinc, tungsten, manganese, molybdenum, nickel, cobalt, gypsum, and lignite. The formations in which the various mineral deposits occur range from early sedimentary rocks to late igneous rocks and include all those which are favorable to the deposition of ore in commercial quantities. The deposits are widely distributed throughout the vast mountainous areas which comprise a large part of the county. The wide distribution of the deposits, the diversity of mineralization, the favorable geological conditions, and the many opportunities for the development of profitable enterprises, make this county an exceptionally favorable field for prospectors and development companies.

The largest development enterprise in Lemhi County during the year was that of the Harmony Mines Co. In the closing months of 1925, the long crosscut intersected the vein at a depth of 600 feet below the old lower level; at this point a good grade of commercial ore was encountered. During 1926 this ore was further explored, the tramway was moved to the new tunnel, and the mine and mill were put in condition to permit production early in 1927.

The Pope-Shenon mine, which is near the Harmony mine and is geologically similar, was operated by lessees during most of the year.

The Latest Out Mining & Smelting Co., Ltd., whose mine is at Gilmore, performed a small amount of development work throughout the year.

The Pittsburgh-Idaho mine, which adjoins the Latest Out and is owned by the United Idaho Mining Co., a subsidiary of the United States Smelting, Refining & Mining Co., maintained the largest payroll in the county. This company performed an extensive amount of development work and shipped a large tonnage of lead-silver ore, some of which was produced by lessees. Activities at this mine and at the Latest Out, and the development work being done by smaller operators and lessees, contributed to make the Gilmore district one of the most active in the county.

The Leadore, or Junction, district witnessed a small increase in operations over the previous year. One new organization was active in developing a property on Grizzly Hill, and the discovery of new lead-silver ore was reported in the Maryland and Baby Joe mines. The Leadore Mines Co. was idle throughout the year, and attachment proceedings were started by creditors.

The Nicholia section of the Spring Mountain district witnessed an increase over the previous year in mine development and investigations. In the late months of 1926 an important discovery of lead-silver ore was reported. This district offers excellent possibilities for the development of new mines.

The mill at the Goldstone mine was operated by lessees, and a small shipment of bullion was marketed. This mine was under active development during the greater part of the year.

The Leesburg district was more active than usual, as all the established companies increased their operations, and one new placer mining company entered the district.

#### Owyhee County

The principal mineral resources of Owyhee County are silver, gold, copper, lead, zinc, antimony, diatomaceous earth, opals, and nitrates. The diversity of mineralization, the favorable geological conditions, and the wide distribution of the deposits throughout the county make it an exceptionally favorable field for prospectors and development companies, particularly because all the high-grade ore in the old mines has not been exhausted, nor have all the veins been discovered.

One of the most persistent development campaigns that is being conducted in the State is that of the Great Western Mines Co., whose property is on War Eagle Mountain. This company has maintained active development work without interruption for the past six years.

Other than surveying its mining claims for patent, the Never Sweat Mining Co. was idle throughout the year.

The Owyhee Gold Mining Co., at its Mountain Chief mine on War Eagle Mountain, was active throughout the year. The development work resulted in exposing an excellent showing of high-grade ore.

One of the principal new enterprises to be started during the year was that of the American Gold Dredging Co. on Meadow Creek, near Triangle. This company prospected its placer ground with churn drills and shafts. The outcome was satisfactory, and arrangements have been completed for the installation of a dredge at an early date.

The Castle Creek Mining & Milling Co. marketed a few tons of concentrate during the early part of the year, after which operations were suspended until further finances for conducting development work could be obtained.

The South Mountain property of the Golconda Group Mining Co. was investigated by various concerns seeking lead-silver ores. The merit of the property, which in the early '70s supported a smelter, satisfied one investigator, who obtained an option and immediately set about starting an intensive mine development campaign for 1927.

The Hoosier Leasing Co., on the Alpine vein in the Trade Dollar, and Elisha Lewis, at the Morning Star, were the two most important operators to start at Silver City during the year. The latter produced and milled a small amount of high-grade gold ore.

The Idaho Gold & Platinum Co., whose enterprise is based on the presence of platinum in a volcanic-glass sand lying at a depth of about 250 feet, began to sink a shaft during the closing months of the year.

Owyhee County continues to attract prospectors and investigators seeking new enterprises, and as there are abundant opportunities for the discov-



ery of new veins, the future outlook points to an increase in mining activities. During the year, the Idaho Bureau of Mines and Geology completed a geological survey of the Silver City and De Lamar districts. The publication covering this work, which will be available early in 1927, should be instrumental in attracting attention to these districts.

#### Shoshone County

Mining conditions in the Coeur d'Alene district reflected the general sound prosperity that the country has witnessed throughout the year. All the large producers maintained capacity production, and in some instances this production was increased above normal. The mines are in excellent shape both as to future life and physical condition, and the district is assured that many years will elapse before the end of the principal mines can even be predicted. In addition to the fact that the present large producers have almost unlimited resources, there is also the possibility of discovering new mines throughout this vast mineralized area. In the past, famous producers have become exhausted, yet the closing of these properties has not affected the prosperity of the district, because when one mine has become exhausted, a new one almost invariably has been discovered or developed to take its place.

The high price that lead and zinc have maintained throughout the year was a dominant factor in stimulating activity, and bringing much new money into the county for development purposes. The year witnessed more new development than at any time since the peak of wartime activities; and as many of these enterprises are based on substantial foundations they will continue to add to the general prosperity, with a favorable possibility of adding new producers to the already long list of profitable operations.

Nearly all the large operators conducted exploratory work throughout the year, either in the producing mines or in other properties. Much of this work was successful in opening new ore bodies, or in proving the extension of the present ones to a greater depth. The producing mines in which the resources and the life of the mine were greatly increased were the Bunker Hill, Hecla, Morning, Star, Tamarack, Gold Hunter, Highland-Surprise, and Stratton. New or additional ore disclosures, which are probably the fore-runners of additional dividend-paying operations, were made in the following mines: The Galena mine of the Callahan Zinc-Lead Co., Sunshine, Lincoln, Hypotheek, Hector, Hilarity, and Sidney.

The largest and most important expenditures made by established companies were those of the Hercules Mining Co., and its allied companies, and the Callahan Zinc-Lead Co. The Hercules Mining Co. and the Tamarack & Custer Consolidated Mining Co., which are controlled by Jerome J. Day and Harry L. Day and through which control of many other properties in the Coeur d'Alene district is held, were actively engaged throughout the year in operating the following mining companies and mines: Strattons Mines Co., Ambergris Mines Co., Sherman Lead Co., the Maher-Hearn group, the property owned by the C. & R. Mining Co., the Panhandle Silver-Lead Mining Co., Honolulu Mining Co., Humming Bird Mining Co., Roanoke Mining Co., Ltd., Stanley Mining Co., and Happy Day Mining Co. These companies are conducting an active and intelligent campaign that is requiring large expenditures; and as the work is being done in favorable locations it is entirely possible that some of the mines will become important producers.

The principal new enterprises which are financed from outside sources, and which either started or resumed operations during the year, were the Chester Consolidated Mining Co. at the Chester group west of Wallace and at the Terrible Edith at Murray, the Lincoln Mining Co., the United Metals Co., and the Delaware Mines Corporation.

New work of importance that was started during the year by established companies was that of the Federal Mining & Smelting Co. and the Gold Hunter Mines, Inc. The Federal reopened its Page group, which is located in Government Gulch near the Bunker Hill mine at Kellogg; and the Gold Hunter Mines, Inc. sunk its new shaft on the 1200-foot level of the Gold Hunter mine to a depth of 200 feet, which proved the extension of the ore to this depth.

The principal new mill construction, improvements, or alterations made during the year were by the following companies: The Page mill of the Federal Mining & Smelting Co. at Kellogg; the Sweeny mill of the Bunker Hill & Sullivan M. & C. Co., which was converted into a custom mill of two units for the treatment of lead and zinc ores; the Jack Waite mill of the Jack Waite Leasing Co. at Murray; the Galena mill of the Callahan Zinc-Lead Co. at Wallace; the Constitution M. & M. Co. at Masonia; the Hecla Mining Co. at Gem; and the Snow Storm mill of the Oregon-Idaho Leasing Co. at Mullan.

The most important new construction work to be started during the year was the electrolytic zinc smelter at Kellogg. This plant is being constructed by the Sullivan Mining Co. to treat the zinc ore from the Star mine. It will have an initial capacity of 50 tons per day. The estimated cost is about \$1,500,000, and it is anticipated that the plant will be completed and in operation by the close of the year 1927.

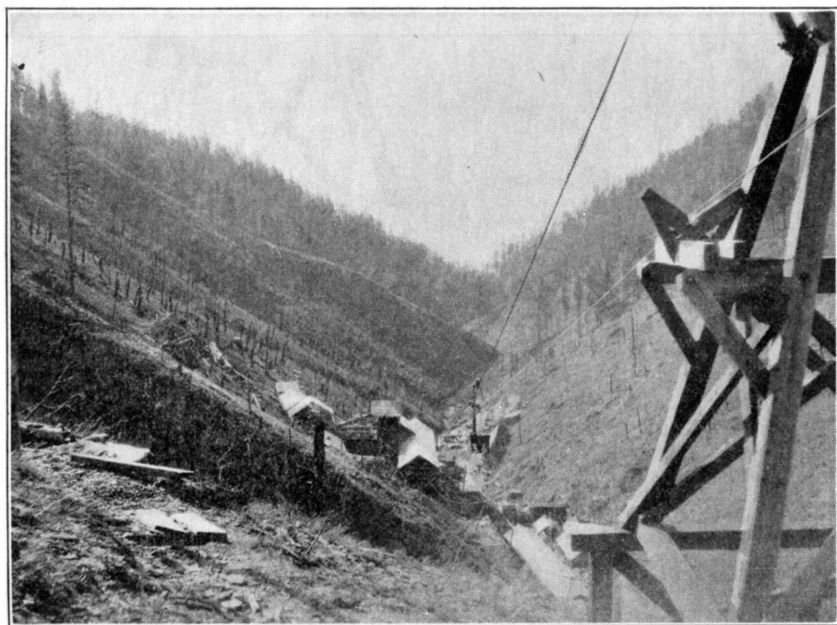
The Coeur d'Alene district has always been famous for the long tunnels which have been driven for prospecting or operating purposes. In 1925 three important projects were started which progressed continuously throughout the year. These were the 7500-foot crosscut of the Atlas Mining Co., which was advanced to a total distance of 6203 feet; the crosscut of the Rainbow Mining & Milling Co., Ltd., which was advanced to a total distance of 2700 feet; and the Gertie tunnel of the Hercules Mining Co., which is exploring the Maher-Hearn group. The outstanding new construction work completed during the year, which will add greatly to the future prosperity of Shoshone County, particularly of the Pine Creek section, was the aerial tramway which extends from the Sweeny mill to the Sidney mine. The construction of the tramway was financed by the Bunker Hill & Sullivan Mining & Concentrating Co. and the Sidney Leasing Co.

Working conditions throughout the Coeur d'Alene district are exceptionally favorable. All the mines are well ventilated, and the operators devote much time and thought to making the mines safe and keeping them in such condition that the men can do a full day's work without expending the energy that is necessary in poorly ventilated mines. Both attention and money have been devoted to this phase of the operations, and it can safely be said that these are the best ventilated mines in the country. Serious attention is given not only to ventilation, but to safety, recreation, and general welfare. These favorable conditions attract to the district first-class workmen who remain permanently, with the result that the labor turnover is always at a low point. The wage scale is the highest of any mining camp in the United States, averaging from \$1.00 to \$1.50 a day above any other district. The scale is based on the price of lead, so that when this metal is selling at a high price, the workmen benefit, as well as the mining companies. As all the operators have adopted the sliding scale, there is no hesitation in granting an increase in wages with the increase in the price of lead; and it follows that there are no labor controversies or agitation. This high wage scale is also reflected in the general prosperity of the county, which during 1926 was not exceeded by any other county or district in the State.

A brief review of the outstanding events, and the principal work done in 1926, adds strength to the above statements.

The extensive development work which was done during 1926 in the Bunker Hill mine greatly increased its resources. The completion of the shaft to the 1900-foot level and the opening of the ore body at that depth, where the ore and geological conditions were found to be normal, added much to the life of the mine, which is estimated in decades instead of years. The Bunker Hill & Sullivan Mining & Concentrating Co., because of the magnitude of the Bunker Hill mine, has become more of a manufacturing than a mining operation, and with its smelter, mills, experimental plants, and organization, is one of the largest of its kind in the world. This company maintained its usual production record throughout the year, and the many plant betterments which were added greatly increased the efficiency of the enterprise. The principal betterments were the remodeling of the Sweeny mill, and enlargements and improvements at the smelter and surface plant of the mine. The Tainton electrochemical experimental plant was modified and improved, and many details perfected which add greatly to the importance of the process. In addition to extensive development work in the Bunker Hill mine, this company was actively engaged in prospecting and developing other properties throughout the district.

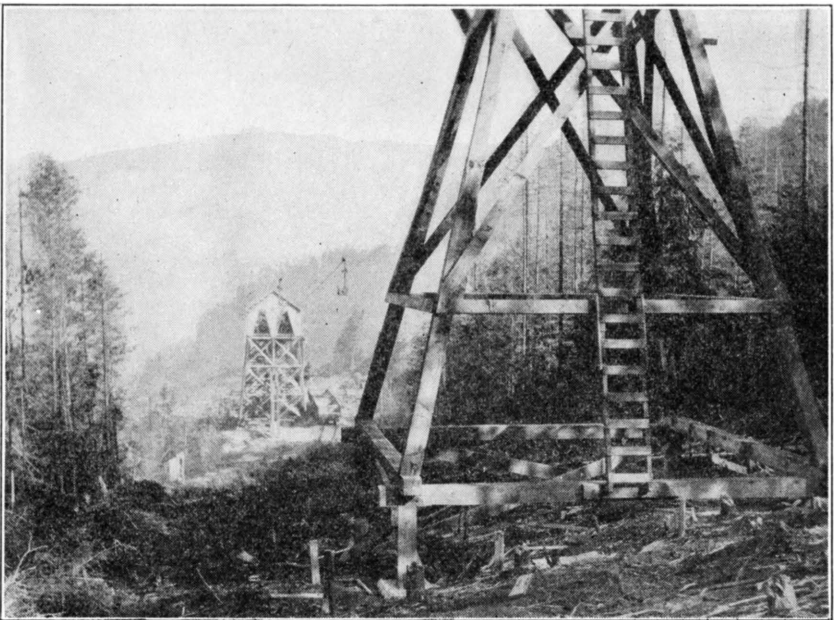
The Hecla, which is now recognized as one of the principal lead-silver mines in the United States, greatly increased its ore reserve and resources. During the year the Hecla vein was further explored on the 2800-foot level, at which depth geological conditions had not changed; the ore is as strong and persistent as in any of the upper levels. The 2400 and 2800-foot levels



LOADING TERMINAL OF SIDNEY TRAM AND SURFACE  
PLANT OF SIDNEY MINE

are opened by a shaft which is not connected with the main operating shaft. A new hoist was installed, stations and skip pockets constructed, and all necessary additions and equipment added to permit mining from the new levels. By this arrangement the Hecla can almost be considered as a mine within a mine. The surface plant at the mine was also enlarged and improved, and construction work was started on an additional tailings unit to the mill. This company expanded its operations during the year by financing the development of four properties in South Central Idaho.

The Morning mine of the Federal Mining & Smelting Co., which is one of the oldest in point of continuous production, and one of the largest in the district, maintained capacity output during the year. The number of years that this record will continue is unknown as the ore opened up during the year on the 3050-foot level is greater than that on any of the upper levels. On this level there appears to be no diminution in extent or grade of the ore, and the improvements made in the mine and mill during the year indicate that the management anticipates many more years. The concrete lining in the main shaft, which was put in as an experiment in 1924, proved satisfactory, and this method of shaft construction was adopted and installed in the lower levels, 2650-3050, which were sunk during the year. In addition to the ore mined from the Morning mine under company operations, a number of lessees extracted a large tonnage from the upper levels; the largest of these was the Sheridan Lease, which employs about 100 men. The principal change in the company's milling methods was the substitution of fine grinding and flotation throughout, and the discarding of all jigs and tables. This change was started in 1924 and continued through 1926.



DISCHARGE TERMINAL OF SIDNEY TRAM

The Page mine, which is in Government Gulch at Kellogg, was fully equipped, a new mill constructed, and ore shipments commenced during the year. This new producing mine will add greatly to the Federal Mining & Smelting Co.'s record, as well as to the prosperity of the county.

The Tamarack & Custer Consolidated Mining Co., which is recognized as one of the substantial producing mines of the district, maintained a steady output and made extensive developments underground, adding many years to the life of the mine. The new development work completed during the year totaled a distance of about one and one-half miles.

The Star mine of the Sullivan Mining Co., which is owned by the Bunker Hill & Sullivan Mining & Concentrating Co. and the Hecla Mining Co., was developed continuously throughout the year. In 1925 connection was made with the underground workings of the Morning mine of the Federal Mining & Smelting Co., and in 1926 the main operating raises, which will have a height of over 2000 feet, were advanced without interruption. In addition to doing a large amount of development and new construction work, this company maintained a daily production of 450 tons.

At its Galena mine, the Callahan Zinc-Lead Co. maintained active development, installed a 200-h.p. electrically-driven hoist on the 600-foot level, and constructed a new straight flotation mill of 150 tons capacity. The development work increased the ore reserves; the construction of the mill and its operation, which started in October, added an additional profitable producing mine to the Coeur d'Alene district. This operation is of extreme importance to Shoshone County, as it is proving that ore can and does occur in commercial quantities in the so-called "dry belt," or south side of the district.

The Sunshine Mining Co., whose property is on Big Creek, in the south side of the district, continued to operate at a profit throughout the year. The shaft was sunk an additional 100 feet, or to the 500-foot level, a new hoist was installed, and additional equipment placed in the mill. One carload of concentrate which was marketed by this company in 1926 was the highest-grade shipment ever made from a Coeur d'Alene mine.

The Lincoln Mining Co., which owns the old Silverado mine about midway between the Sunshine and Galena mines, maintained active development work on its 450-foot level throughout the year. This work succeeded in greatly increasing the ore reserves, as part of it opened a body of high-grade silver ore. The increase in grade and extent of the ore as depth is gained on the vein is adding further proof of the possibilities of the "south side" of the district.

The Atlas Mining Co., which is a consolidation of the Idaho-Carbonate Hill Consolidated Mining Co., the Idaho Giant Mining Co., and the Boulder Creek Mining & Milling Co., Ltd., maintained active work in extending its 7500-foot tunnel, which had been advanced to a total length of 6203 ft. at the close of the year. The best record made in one month, a record believed to be unequaled, was 551 feet, 8x10 feet in the clear, in 31 days with 20 men. This tunnel is attracting much interest, as it is exploring a new section of the Coeur d'Alene district.

The Constitution Mining & Milling Co., which entered the ranks of profitable operators in 1925, increased its mill to a capacity of 250 tons, installed a new hoist, and further developed its mine during 1926. The mine development work greatly increased the ore reserves, and a large tonnage of concentrates was marketed.

The new ore disclosures made by the Hypotheek Mining & Milling Co. on the 700-foot and 900-foot levels were among the important developments of the year. It is entirely probable that this development signifies the return of another old producer. The mine and mill plants were improved and a large tonnage of concentrate and crude ore was marketed.

The Highland-Surprise Consolidated Mining Co. opened its mine to a greater depth, remodeled its mill, and marketed a large tonnage of concentrates. The operations of this company added an additional profitable enterprise to the county, as well as to the activities of the Pine Creek section.

The Hilarity Lead-Silver Mining Co., whose property is located on Pine Creek near the Nabob, Sidney, and Highland-Surprise mines, installed an electrically driven compressor, an electrically driven hoist, and new mining equipment, and extended its vertical shaft to a depth of 200 feet, at which point an excellent body of new ore was encountered. This operation appears to be a new and profitable enterprise for the county and for Pine Creek in particular.

The Independence Lead Mines, Ltd., whose property is adjacent to the Morning mine of the Federal Mining & Smelting Co., maintained development work throughout the year. This work exposed a continuation of the ore on the lowest, or No. 4, level.

During the year the Jack Waite Leasing Co. constructed a 125-ton concentrator, a 4-mile electric transmission line, installed a large amount of mine equipment, and produced and marketed a few carloads of concentrate after the mill was completed. This company has a lease on the Jack Waite mine, and it is reported that there is a large available tonnage of lead-silver ore. This enterprise is one of the largest in the north side, or Murray, section.

The Lookout Mountain Mining & Milling Co. constructed a new road and camp buildings, installed complete mining equipment, and maintained active work in driving a long tunnel, which will open the vein 300 feet below the present openings.

The Strattons Mines Co. extended its shaft to a depth of 300 feet, performed a large amount of development work, and increased its production 350 per cent over that of the previous year. This company also conducted an intensive development campaign at the Panhandle mine. It was reported that this work resulted very satisfactorily.

The Success Mining Co. maintained production and active mine exploration until June, at which time operations were suspended, and later different sections of the mine were turned over to lessees.

The Western Union Mining Co. maintained one of the most active mine development campaigns in the Coeur d'Alene district. Over one-half mile of drifting was done on the vein in the principal tunnel and on the 400-foot level in the shaft. A large tonnage of ore was produced and marketed. During the closing months of the year mining operations were placed on a leasing basis.

The Ajax Mining Co. performed a large amount of development work and produced a small tonnage of high-grade lead-silver ore. It was reported that the development work had been successful in finding the continuation of the ore bodies, which had been intercepted by a fault.

The property owned by the Douglas Mining Co., Ltd., on Pine Creek, was operated throughout the year by lessees, who produced a substantial tonnage of ore.

The Dickens Consolidated Mines Co., whose property is located on Moon Creek, north and east of Kellogg, rebuilt its surface plant and extended its vertical shaft 200 feet to the 400-foot level, at which point an excellent showing of ore was encountered.

An undertaking of importance, which involves the driving of a long tunnel, is that of the Callahan Zinc-Lead Co. and the Long Wait Mining Co., who are jointly driving a 4650-foot crosscut from the main tunnel of the Callahan mine to the Sunset, which is opened by an 800-foot vertical shaft. Work was started during the year, and, as the tunnel will explore undeveloped ground, it is attracting considerable attention.

The United Metals Co. maintained an extensive exploration campaign throughout the year, the principal part of which was on the Black Bear group. This company is holding and developing the mines owned by the Bell Mining Co., the Black Bear Mining Co., the Goodenough Mining Co., and the Western Pacific Mining Co., all of which are located on Canyon Creek near the Frisco mine of the Federal Mining & Smelting Co.

The Wall Street Mining Co., whose property lies east of the Morning mine of the Federal Mining & Smelting Co. at Mullan, maintained continuous work advancing its principal tunnel, which had gained a length of 1400 feet at the close of the year.

The Yukon Gold Co., which has operated one of the largest gold dredges in the State for over eight years, maintained continuous operations until May, at which time all the available dredging ground had been exhausted. Operations were then suspended and the dredge was dismantled.

#### Teton County

The principal mineral resources of Teton County are coal, phosphate rock, natural gas, limestone, and asbestos; and there are excellent possibilities for the discovery of petroleum. This county is one of the few in the State in which coal occurs in commercial quantity. Compared with the coal produced at Rock Springs, Wyoming, it is equal in quality and similar in appearance. As well as being of excellent quality for domestic and industrial purposes, it is especially adaptable for powdered coal.

The principal coal-bearing area is the Horseshoe district, seven miles west of Driggs. This district has never been sufficiently developed to prove the number or extent of the coal beds. Those which have been proved vary from one to eleven feet in thickness and repose at an angle of approximately 45 degrees. The Horseshoe district has been examined by the U. S. Geological Survey and by the U. S. Bureau of Mines in cooperation with the Idaho Bureau of Mines and Geology. The reports issued by these organizations are listed in the bibliographies, to which the reader is referred for complete descriptions, analyses, and tonnage estimates.

The Teton Coal Co. maintained continuous work in its long crosscut. At a distance of 4200 feet the tunnel intersected a 5-foot vein of coal, at which point a vertical raise 640 feet high was driven to the surface. After the raise was completed, the tunnel was advanced 800 feet, or to a total length of 5000 ft. The last 800 ft. of the tunnel intersected two unknown veins of coal, one 8 feet thick and the other 4 feet thick, both containing coal of an excellent quality. In addition to this important development work, the company mined and marketed a small tonnage of coal.

The Superior Coal Mining Co., whose property is adjacent to that of the Teton Coal Co., constructed additional mine camp buildings, sank an inclined shaft 130 feet on one vein, and began driving a crosscut which will intersect two more veins.

The Tieton Valley Land & Leasing Co. maintained drilling throughout the greater part of the year. This enterprise is being watched with much interest, as there are many structures in Teton County which are favorable to the accumulation of oil and gas in commercial quantities.

#### Valley County

The principal mineral resources of Valley County are gold (placer and lode), lead, silver, zinc, antimony, mercury, copper, tungsten, molybdenum, and monazite. Many mines containing these minerals are undeveloped but justify the necessary finances to prove their possibilities, and many others warrant investigation. These properties and the possibilities in undiscovered veins present many opportunities to the investor, prospector, and development company.

One of the outstanding developments of the year was made in this county by the Bunker Hill & Sullivan Mining & Concentrating Co., in the Hall Interstate mine in Deadwood Basin. The disclosure was made in a long cross-cut tunnel which intersected the vein approximately 600 feet below the outcrop. At the point of intersection the vein was determined to be approximately 50 feet wide, throughout the largest part of which the ore was of commercial grade. At the close of the year it had not been sufficiently prospected to determine the extent, but the work done indicated that it is the forerunner of a large and important lead-zinc-silver producing mine. As the vein occurs in granite, or allied rocks, the discovery means much to the State, as it will stimulate prospecting and encourage the investment of capital for the development of the many similar occurrences which are found throughout the granite area of Central Idaho. In past years, this area has been looked upon with disfavor, but this demonstration fully proves the potentialities of these veins. During the year the mine plant was enlarged and improved, new buildings were added to the camp, and active development work was maintained.

The Profile Gap district witnessed more development work by prospectors, small companies and investigators than for many years. Two new discoveries of lead-silver ore were reported, and one new company started work.

The United Mercury Mines Co. was active throughout the year in developing the Hermes group, in which the principal ore is cinnabar; the Meadow Creek group, a large low-grade gold-silver property; and the Antimony group. A small tonnage of high-grade ore was marketed from the latter. The development work greatly increased the known resources of all these mines.

The completion of the new highway connecting Cascade and Bear Valley, which gives the Bunker Hill & Sullivan Mining & Concentrating Co. a shorter connection with the railroad, was an important factor in stimulating investigation and development throughout this section of the county.



## ACCIDENTS

The minor accidents listed in the accompanying table, pages 48 and 49, "Classification of Accidents," are taken from the records of the Industrial Accident Board and arranged to comply more nearly with the classifications made by the U. S. Bureau of Mines. The table is somewhat misleading, as a very large proportion of the accidents listed "Time Lost Over 14 Days" did not greatly exceed this number of days, and the majority of those listed "One to 14 Days" did not exceed seven days, with the greater number of these being only one day. All accidents that did not cause a loss of time of more than seven days should not have been included, as no compensation is paid. However, as the U. S. Bureau of Mines and many State officials are including these minor injuries in their reports, they are included in the accompanying table as a matter of uniformity.

A comparison of the total accidents in 1926 with those in 1925 shows an increase of one in the number of fatal accidents and practically no difference in the number of minor accidents. A comparison of the total number of men employed with the total number of accidents shows a very low accident rate. This low accident rate can be attributed to a great extent to the safety organizations, to the first-aid training given the men by all the larger mining companies, and to the sustained effort and interest maintained in safety work by those in charge, which is further augmented by close supervision.

A comparison of the number of accidents with the number of men employed shows that the accident rate is in direct proportion to the efforts given to maintaining and enforcing safety provisions. The Bunker Hill and Sullivan Mining & Concentrating Co., which has always been very vigilant, has demonstrated that this effort is successful by establishing an accident rate that reflects greatly to the company's credit, and which shows a large decrease in the number of accidents during 1926 as compared with the number in 1925. During 1926 this company had an average payroll of 1097 men, and its accident rate was 0.30 accidents per 1000 days per man. Its nearest competitor among the large mines was the Federal Mining & Smelting Co., which had an accident rate of 0.88 per 1000 days per man.

There were 15 fatal accidents during the year. Four of these could have been prevented had the victims been more careful, and the others were unavoidable. Out of the 1238 minor accidents listed, 705 did not compel a loss of time to exceed 14 days, and 533 incapacitated the injured person for more than 14 days, although serious injury was not incurred in any of these 1238 cases; or, out of a total of 1238 accidents, 15 were fatal and 25 resulted in permanent injury.

The loss of both legs or arms, one leg and one arm, total loss of eyesight, paralysis or other condition permanently incapacitating a workman from doing any work of a gainful occupation, is classified as "Permanent Total Disability."

The loss of one foot, leg, hand, eye, one or more fingers, one or more toes, any dislocation where ligaments are severed, or other injury known in surgery to be a permanent partial disability, is classified as "Permanent Partial Disability."

### Notes on Fatal Accidents.

January 21, Constitution Mining & Milling Co., Shoshone County. John Koppes, age 40, single, miner. Deceased was working in a stope and had quit for the noon-hour. As he was climbing down the manway, some rock fell from above and hit him on the head, causing a fracture of the skull, from which he died on January 25.

**CLASSIFICATION OF ACCIDENTS**

MINE	Killed	Seriously Injured Time Lost More Than 14 Days		Slightly Injured		MILL	Killed	Seriously Injured Time Lost More Than 14 Days		Slightly Injured	
		Per- man- ent total dis- abil- ity	Per- man- ent par- tial disa- bility	Time lost over 14 days	Time lost 1 to 14 days			Per- man- ent total dis- abil- ity	Per- man- ent par- tial disa- bility	Time lost over 14 days	Time lost 1 to 14 days
<b>UNDERGROUND</b>						<b>MILLING ACCIDENTS</b>					
1. Fall of rock or ore from roof or wall.....	8		4	93	117	1. Haulage (cars and motors).....				2	
2. Rock or ore while loading at working face or chute.....	2		1	30	55	2. Railway cars or locomotives.....					
3. Timber.....			3	40	62	3. Crushers, rolls or stamps.....				3	1
4. Explosives.....				1	1	4. Tables, jigs, etc.....					
5. Haulage, Cars or Motors.....			3	57	50	5. Other machinery.....			1	5	2
6. Persons falling down chute, winze, raise or stope.....	1		1	22	9	6. Falls of persons.....				6	7
7. Electricity.....				1	1	7. Suffocation in ore bins.....					
8. Drilling (by machine or hand drills).....				23	33	8. Falling objects (rocks, timbers).....				5	4
9. Hand tools.....			2	21	61	9. Scalding (steam, water or acid).....				1	1
10. Carbide Burns.....				1	5	10. Lifting.....				1	1
11. Flying or falling objects.....	1		2	45	102	11. Hand tools, axes, bars, etc.....					5
12. Fall of persons.....				40	38	12. Nails, splinters, etc.....					
13. Lifting.....				6	27	13. Electricity.....					1
14. Nails and splinters.....				19	47	14. Other causes.....				1	1
15. Other causes.....			1	7	9						
<b>Total.....</b>	<b>12</b>		<b>17</b>	<b>406</b>	<b>617</b>	<b>Total.....</b>			<b>1</b>	<b>24</b>	<b>23</b>

SHAFT ACCIDENTS				
16. Falling down shaft.....			1	
17. Objects falling down shaft.....			4	5
18. Breaking of cables.....				
19. Overwinding.....				
20. Cage, skip, or bucket.....	1		1	4
21. Other causes.....				
Total.....	1		6	9
SURFACE ACCIDENTS				
22. Mine cars or mine locomotives, gravity or aerial trams.....			6	3
23. Flying and falling objects.....		1	18	20
24. Lifting.....			2	1
25. Falls of persons.....			19	11
26. Nails and splinters.....		1		3
27. Hand tools, axes, bars, etc.....		3	4	3
28. Falls or run of ore in or from bin.....				
29. Machinery.....		1	7	5
30. Other causes.....		1	5	1
Total.....		7	61	47
Grand Total.....	13	24	473	673

SMELTER ACCIDENTS				
15. Haulage (cars, motors, etc).....				1
16. Machinery.....				
17. Cranes.....				1
18. Lead colic.....				
19. Falls of persons.....	1			1
20. Flying or falling objects (rocks, timbers, etc.).....			4	1
21. Hand tools, axes, bars, etc.....			1	
22. Burns from matte, slag or molten metal (pouring or spilling).....			2	
23. Other causes.....	1		1	1
Total.....	2		10	3
AUXILIARY WORKS ACCIDENTS				
24. Falls of persons.....				1
25. Flying and falling objects.....			1	2
26. Nails and splinters.....				2
27. Hand tools, axes, bars, etc.....				
28. Lifting.....				
29. Machinery.....				1
30. Handling hot materials.....				
31. Other causes.....				
Total.....			1	6
Grand Total.....	2	1	35	32

January 27, Kay Development Co., Custer County. Vernon Turner, age 60, widower, miner. Deceased was working in a drift which was passing through a loose carbonate ore. He had partially timbered the drift. The ore started to run and broke through timbering; some rocks hit him on the head, knocking him down, and he was smothered by the ore.

February 2, Gilmore Mining Co., Lemhi County. Ralph Mathews, age 27, married, miner. Deceased was barring down loose rock from the hanging wall; a large slab of rock suddenly gave way, fell, and struck the deceased on the head, causing instant death.

February 18, Sullivan Mining Co., Shoshone County. Andrew Alm, age 39, single, miner. Deceased had entered the top of a raise to bar down the face. As he passed through the floor some rock fell from the hanging wall, knocking him into the raise chute. He fell about 90 feet.

March 17, You Like Leasing Association, Shoshone County. Edward J. Roenser, age 25, single, shoveler. Deceased was shoveling a short distance beyond a set of timbers, with his head toward the hanging wall side. A slab of rock fell from the foot wall and killed him instantly.

March 20, Bunker Hill & Sullivan Mining & Concentrating Co. smelter, Shoshone County. John Jeffrey, age 25, single, furnace-man. Deceased was standing with his back to the slag hole, stepped through the slag hole in some way and fell into hot slag pot, resulting in burns from which he died a few hours later. An investigation of this accident indicated that it was the result of play while at work.

March 26, Sullivan Mining Co., Shoshone County. Joseph E. Hartley, age 30, single, shaft timberman. Deceased was placing wall plates in the shaft, had completed hanging the north plate with its connection hanger-bolts, and was throwing a chain over the end of the wall plate. While doing this he was leaning out into the timber-slide. While he was in this position, a piece of 2-inch planking fell down the slide, struck him on the head and shoulders, and knocked him into the slide. He fell about 80 feet and was killed instantly.

April 1, Hecla Mining Co., Shoshone County. F. C. Svenson, age 32, single, cager on winze shaft. Deceased was riding up the shaft on the cage with pieces of drill steel. Rattling of steel was heard by the men who were standing at the collar of the shaft waiting for the cage to arrive. On hearing the noise, they stopped the cage and descended the shaft in the other compartment. When they arrived at the cage on which the deceased had been riding, they found that he had fallen down the shaft.

April 19, Hecla Mining Co., Shoshone County. Dennis Duffy, age 38, single, timber helper. Deceased was cleaning up the face of a bulkhead to make room for a cap. The face of the stope began to fall; rocks struck the lagging upon which he was standing and knocked him over. He fell from the height of one set of timbers to the floor, where he was smothered by the run of rock which fell from the face.

July 21, Hercules Mining Co., Shoshone County. John Holweger, age 25, single, motorman. Deceased was loading a train of ore; the ore-chute had apparently hung up and then let loose suddenly, causing the ore to pour over the top of the gate. In doing this it knocked down deceased and covered him in such a manner that he was suffocated.

August 5, Bunker Hill & Sullivan M. & C. Co., Shoshone County. Dominick Rubino, age 38, single, shoveler. Deceased was working in the face of a stope, and had been directed by the shift boss to do no further work until someone had been sent to assist him in barring down the loose rock. Evidently the deceased disobeyed orders and attempted to bar down the face without assistance, and the loose rock from the face fell upon him in the absence of the shift boss.

September 8, Tamarack & Custer Consolidated Mines Company, Shoshone County. Eli Vukevich, age 42, single, miner. Apparently the deceased was walking along the 35th floor of the stope above No. 4 tunnel. It is believed that he was fixing his lamp, and in the dark he fell into a chute and dropped to the 23d floor.

September 8, Hecla Mining Co., Shoshone County. W. F. Wade, age 25, married, shoveler. Deceased was shoveling from behind a post when a slab of rock fell from the wall and struck him, killing him instantly.

October 20, Bunker Hill & Sullivan M. & C. Co. smelter, Shoshone County. Frank Smith, age 26, single, laborer. Deceased had been digging a ditch for a drain-pipe. The pipe had been placed in the trench and he was shoveling the earth in to back-fill around the drain, when the side of the trench caved in and caught him. The falling earth fractured his skull, as well as suffocating him.

November 8, F. C. Meyers Lease, Shoshone County. Johnathan Gillgrass, age 51, married, miner. Ore had become lodged in the upper part of the chute. Deceased entered the lower end of the chute and had started to climb up to dislodge the ore, when it suddenly came down. The falling ore crushed and smothered him in the bottom of the chute.

## MEN EMPLOYED AND WAGES

The year closed with practically all the producing mines in the State in operation, and with one of the largest payrolls that has been witnessed for a number of years. As a whole, 1926, from a labor standpoint, was one of the best years ever experienced. There was a surplus of labor throughout the year. Under such conditions the labor turnover is always small, thus assuring the companies a constant working force without the necessity of breaking in new men.

It is practically impossible to obtain complete and accurate statistics of the number of men employed in the mines; a great many are employed by prospects and small companies that do not report to the inspector of mines and that do not maintain continuous work throughout the year; and records furnished by the companies reporting vary as to the number of days. The average payroll reported was 4500, and 1500 has been added as an estimate to cover lessees, prospectors and small companies that did not report, thus giving a total of 6000 for the year, which is believed to be a conservative estimate.

## MINING INDUSTRY OF IDAHO

The table printed below gives the different wage scales that were in force in the State. Column No. 1 gives the average wage throughout the State; column No. 2 gives the average wage scale for the year in the Coeur d'Alene district. The wage scale in this district was adjusted each month in accordance with a bonus rate based on the selling price of lead.

	No. 1	No. 2
Miners.....	5.25	5.50
Shovelers.....	4.75	5.00
Timbermen.....	5.50	6.00
Timber helpers.....	4.75	5.25
Machinists.....	6.00	6.25
Machinists' helpers.....	5.00	5.50
Carmen.....	4.75	5.00
Motormen.....	5.00	5.25
Trainmen.....	4.75	5.00
Main hoistmen.....	5.75	6.25
Small hoistmen.....	5.25	5.75
Nippermen.....	4.75	5.25
Pump and compressormen.....	5.50	5.75
Surface laborers.....	4.75	4.75
Ore sorters.....	4.50	4.75
Cagers.....	5.25	5.75
Pipe and trackmen.....	5.25	5.75
Shift bosses.....	6.50	6.75
Blacksmiths.....	6.00	6.25
Blacksmith helpers.....	5.00	5.25
Electricians.....	5.50	5.75
Millmen.....	5.00	5.25
Mill repairmen.....	6.00	6.25
Mill swampers.....	4.50	4.75
Carpenters.....	6.00	6.25

The wages paid throughout the Coeur d'Alene district are governed by a bonus rate which is based on the average per pound selling price of lead in New York. The basic wage for miners is \$3.75 per day when lead is selling under 5½c per pound, and the wages are adjusted on the first day of each month. This scale was adopted on November 16, 1925. The amount added for the adjustment of wages is as follows:

When the price of lead is 5c and under 6c.....	\$0.25 per day
When the price of lead is 6c and under 6½c.....	.50 per day
When the price of lead is 6½c and under 7c.....	.75 per day
When the price of lead is 7c and under 7½c.....	1.00 per day
When the price of lead is 7½c and under 8c.....	1.25 per day
When the price of lead is 8c and under 8½c.....	1.50 per day
When the price of lead is 8½c and under 9c.....	1.75 per day
When the price of lead is 9c and under 9½c.....	2.00 per day
When the price of lead is 9½c and under 10c.....	2.25 per day
When the price of lead is 10c and under 10½c.....	2.50 per day
When the price of lead is 10½c and under 11c.....	2.75 per day

The cost of board and room at company boarding houses and hotels and at private homes averages from \$1.25 to \$1.50 per day. Many companies have built and are maintaining houses which are rented to their married employees and some of the largest companies assist their employees in the construction of homes.

## ADA COUNTY

Ada is one of the southwestern counties, adjoining and lying north and east of Owyhee and Canyon counties, and south of Boise County. It contains 1154 square miles and was accredited with a population of 35,213 in the 1920 census. Boise, the largest city in the state, is the state capital and county seat. The county is noted for its excellent irrigated farms, and its livestock, farming, and fruit raising industries.

The state highway, Oregon Trail, extending from the southeast corner of the county to Boise, thence west to Nampa, and the excellent county highways and roads, give this county some of the best roads in the state as well as easy access to the mineralized areas.

Ada is not recognized as a mining county, yet its small mountainous area was once the scene of many active mining operations; and Boise was established as the principal distributing point for miners' supplies when the rich placer diggings of Boise County and adjacent areas were worked in the early days.

The early day mining was based on free gold operations and as the sulphide zone was encountered at a shallow depth the mines were soon closed and have remained dormant for many years. The principal ores are lead and zinc, carrying high values in silver and gold, occurring in fissure veins and as replacement deposits in granite. The ore occurrences are well defined and offer good opportunities to prospectors and small operators in search for these metals.

The chief mineral resources are building stone, gold, lead, silver, zinc, and arsenic. Building stone and its accompanying enterprise were fully described in the 26th annual report, for the year 1924.

During the year 1926 the mines and prospects in this county witnessed a little increase in attention and development over that of the previous year.

The Boise Stone Company was active throughout the year and reports that a large quantity of stone was quarried and cut.

### AMERICAN MINING & MILLING CO.

**Office:** Boise City Nat'l. Bank Bldg., Boise. **Officers:** E. W. Johnson, Pres., Boise; W. H. Hulburt, Sec., Portland, Ore.; Hortense Adams, Mgr., Boise. **Inc.:** Nov. 12, 1919. Charter forfeited Nov. 30, 1926. **Capital:** 500,000 shares; par value \$1; 80,000 shares issued. **Property:** Ironsides & Viola group; 2 patented, 10 unpatented claims, Black Hornet dist.; Boise. **Development:** Principally by 4 tunnels and 4 small shafts; total development, approximately 5800 ft. **Plant:** 100-ton concentrator partly dismantled; 15 h. p. air-driven hoist and small Ingersoll compressor. **Ore:** Gold-silver-iron. **Remarks:** Other than annual labor, nothing has been done on this property for eight years.

### IDAHO EXPLORATION & DEVELOPMENT CO.

**Office:** 235 Sonna Bldg., Boise. **Officers:** J. M. McBride, Pres.; Amzi Dodd, Sec.; both of Boise. **Inc.:** June 25, 1921. **Capital:** 100,000 shares; par value 50c; 12,000 shares issued. **Property:** Owns 120 acres and holds lease on 1666 acres. **Remarks:** Company was organized for the purpose of prospecting for oil and gas; other than having acquired holdings; it has done nothing.

### McCARTY MILL AND MINING CO.

**Office:** 414 McCarty Bldg., Boise. **Officers:** F. J. McLin, Pres.; J. T. Cook, Sec.; both of Boise. **Inc.:** Dec. 30, 1925. Charter forfeited Nov. 30, 1926. **Capital:** 500,000 shares; par value \$1; 400,000 shares issued. **Property:** McCarty group; 13 patented claims, Black Hornet district; Boise; held under lease and option from W. Scott Anderson, Boise. **Development:** Rising Sun group: by 3 tunnels; No. 1, 1500 ft. long; No. 2, 800 ft. long; No. 3, 250 ft. long. North Star tunnel, 2,000 ft. long. Total

development, 5100 ft. **Plant:** 10-ton amalgamation, including Hunting-ton mill, gas-driven. **Ore:** Gold, silver-lead. **Men employed:** Average, 10. **Remarks:** Active development work throughout the year.

#### RED ROSE GOLD MINES CO.

**Office:** 605 Overland Bldg., Boise. **Officers:** J. J. Oberbillig, Pres.-Mgr., Boise. **Inc.:** Jan. 27, 1921. **Capital:** 500,000 shares; par value 5c; 341,900 shares issued. **Property:** Red Rose group; 12 patented claims, Black Hornet dist.; Boise. **Development:** By 3 tunnels, the principal one of which is 685 ft. in length; total development, 1400 ft. **Ore:** Gold-silver. **Remarks:** Idle throughout the year.

#### RELIANCE GOLD MINES CO.

**Office:** 605 Overland Bldg., Boise. **Officers:** J. J. Oberbillig, Pres.-Mgr., Boise; Louis A. Dumond, Sec., Chicago, Ill. **Inc.:** Feb. 4, 1924. **Capital:** 1,000,000 shares; par value 10c; 350,000 shares issued. **Property:** Star group; 8 unpatented claims, Black Hornet dist.; Boise. **Development:** principally by one tunnel which is 1350 ft. long. **Ore:** Gold-silver-arsenic. **Remarks:** A small amount of work was done during the year.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Big Foot Bar	Unorganized	Archie T. Winter	Mt. Home
Blue Grouse Ext.	Black Hornet	Goodwin & Thacker	Boise
Blue Grouse et al.	Black Hornet	A. G. Adelmann	622 Idaho St. Boise
Five Mile Gr.	Shaw Mountain	J. M. Roberts	110 E. Ban. St., Boise
Gold Eagle Gr.	Black Hornet	C. C. Anderson	Boise
Hidden Treasure	Black Hornet	W. P. Richards	Boise
Maynard Bros.	Highland	H. T. Maynard	Boise
Monitor Placer	Highland	W. E. Johnston	Boise
Sorrel Horse et al.	Black Hornet	N. R. C. Adelmann	221 Jeff. St. Boise
White Mineral	Black Hornet	H. J. Leppert	506 S. 3d St., Boise

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## ADAMS COUNTY

Adams is one of the southwestern counties, adjoining and lying south of Idaho County, north of Washington County, and west of Valley County. The Snake River, which flows north, forms the entire western boundary. It contains 1366 square miles and was accredited with a population of 2,966 in the 1920 census, or 2.2 inhabitants to the square mile. The larger part of the population is located in Weiser River and Little Salmon River valleys. The headwaters of the Weiser River, which flows south, and those of the Little Salmon River, which flows north, are located in this county. This is primarily an agricultural county and is noted for its high-quality apples and livestock industry.

The North and South state highway extends from the southern to the northern boundaries and is situated in about the geographical center. Branch roads leading to all of the outlying settlements are maintained by the county. These are kept in good repair and are open to travel during the larger part of the year. In 1925 the Legislatures of Oregon and Idaho each appropriated \$25,000 for the construction of a joint state wagon bridge across the Snake River at Ballard's Landing, about three miles north of Homestead, Oregon.

The bridge was constructed during the year, and it proved to be an important connecting link between the Oregon highway at Baker and the Idaho highway at Council, which is the county seat and largest settlement of Adams County.

The county is served by two railroads: the Pacific and Idaho Northern, which extends from Weiser to New Meadows, and the Oregon Short Line branch from Huntington to Homestead, Oregon.

Over 90 per cent of the county is mountainous. The mountains are rough and rugged and the bold relief that many of them show on the sky line presents scenic views that are unsurpassed in grandeur, the principal one of which is the Seven Devils, seven serrated peaks which reach high into the skyline, and from which the Seven Devils mining district is named.

During the eighties and early nineties this district was an active mining center. Many mines were in operation, a railroad was projected into it and partly constructed, a smelter was in operation, and three towns of fair sized populations were established. The boom died down in the panic of 1893 and since then no large operations or shipments of any consequence have taken place. The latent mineral resources are practically undeveloped and unprospected. The bold relief permits cheap development work by tunnels and drifts and, as the mineral resources are diverse and varied, the county offers many excellent opportunities to prospectors and development companies. The ores of the Seven Devils district are principally copper carrying silver and gold, with an occasional deposit of lead-zinc ore. The ores of the Indian Creek section are those of silver-copper and lead-zinc-silver. In addition to the five principal metals—copper, silver, gold, lead, zinc—deposits of mica, feldspar, and garnet, of commercial importance, occur in this county. The mica deposits of Council Mountain have received a little attention although they have never been prospected or developed in proportion to the possibilities which they offer. When the mineral resources of Adams County are properly exploited and developed this county may be recognized as one of the principal mining counties in the State.

During the year 1926 the county witnessed very little actual mining operations. The Idaho Copper Co. devoted most of its energy to the construction of a wagon road, (which was constructed under contract) from Ballard's Landing to Eagle Bar; in addition to the road, this company constructed a trail from the old town of Helena to Eagle Bar and performed a small amount of development work on the old South Peacock mine, which was abandoned about 25 years ago by the former operators.

Prospectors in the Hornet Creek and Indian Creek sections were more active than in previous years. It was reported that a small amount of diamond drilling was performed on a copper prospect near the head of North Hornet Creek.

#### AMERICAN MINING CO., LTD.

**Office:** 630 Monroe Ave., Helena, Mont. **Officers:** Amelia H. Kleinschmidt, Pres., Helena, Mont. **Inc.:** Sept. 11, 1911. **Capital:** 50,000 shares; par value \$1, none issued. **Property:** Peacock and White Monument groups; 10 patented claims, Seven Devils dist.; Cuprum. **Ore:** Copper, silver. **Remarks:** Idle for many years.

#### BIG FOUR DEVELOPMENT CO.

**Office:** P.O. Box 1061, Boise. **Officers:** C. C. Zumwalt, Pres.-Mgr.; M. I. Zumwalt, Sec., both of Boise. **Inc.:** April 2, 1924. **Capital:** 500,000 shares; par value \$1; 10,005 shares issued. **Remarks:** Does not own or control any mining property.

#### IDAHO COPPER CO.

**Office:** 112 N. 6th St., Boise. **Officers:** O. H. Griggs, Pres., 643 Title Ins. Bldg., Los Angeles, Calif.; Carey H. Nixon, Sec., Frank A. Kennedy, Mgr., both of Boise. **Inc.:** Jan. 10, 1920, as Idaho Copper Co., Ltd. Name changed May 24, 1926. **Capital:** On Feb. 9, 1925, the capital was increased from 50,000 shares, par value \$10, to 10,000,000 shares, par value \$1; 8,500,000 shares issued. **Property:** Red Ledge group; 31 patented, 22 unpatented claims, Seven Devils dist.; Cuprum; R. R. Homestead, Ore., 18 miles. **Development:** 4 tunnels: No. 1, 100 ft. long; No. 2, 500 ft. long; No. 3, 2400 ft. long; opening the vein approximately 1000 ft. in vertical depth. In addition to the tunnels, approximately 6000 ft. of diamond drilling has been done on the property. **Plant:** 50 h. p. water wheel driving compressor; complete mining equipment and camp. **Ore:** Copper-silver-gold. **Men employed:** Average, 3 **Remarks:** In addition to performing the annual labor on the unpatented claims, construction work was started on a 15-mile road connecting Ballard's Landing and Eagle Bar, and work was started on the 6500-foot operating tunnel which is to be driven from Eagle Bar.

#### IDAHO COPPER CORPORATION

**Office:** No. 1 Exchange Place, Jersey City, N. J. **Officers:** O. H. Griggs, Pres., 643 Title Ins. Bldg., Los Angeles, Calif.; Carey H. Nixon, Sec., Boise; Walter Harvey Weed, Mgr., Homestead, Ore. **Inc.:** Filed in Idaho, April 4, 1925. Charter forfeited Nov. 30, 1926. **Capital:** 2,500,000 shares; par value \$1; all shares issued. **Property:** South Peacock group; 3 patented, 5 unpatented claims; Seven Devils district; Cuprum. **Development:** 1 vertical shaft, 365 ft. deep; completed in 1901 by prior owners. Total development, approximately 900 ft. **Plant:** Gas-driven compressor and small air-driven hoist. **Ore:** Copper-silver. **Men employed:** Average, 11. **Remarks:** Underground development work was started in March 1926, and continued during the remainder of the year.

#### IDAHO MINES CO., LTD.

**Office:** Weiser. **Officers:** S. H. Travis, Pres., Chehalis, Wn.; B. S. Varian, Sec., Weiser. **Inc.:** Jan. 5, 1904. **Capital:** 5,000,000 shares; par value \$1; 1,503,000 shares issued. **Property:** California group; 3 patented claims, Seven Devils dist.; Cuprum; R. R. Homestead, Ore., 30 miles. **Ore:** Copper. **Remarks:** Idle for many years.

#### INDIAN CREEK MINING & DEVELOPMENT CO.

**Office:** 610 Overland Bldg., Boise **Officers:** William J. Tait, Pres., 7 Townsend Crescent, Mannamead, Plymouth, England; George D. Reid, Sec.-Treas., Fillmore Calif. **Inc.:** Oct. 22, 1909. **Capital:** 100,000 shares; par

value \$1; 82,553 shares issued. **Property:** 3 patented claims, Indian Creek, Seven Devils dist.; Cuprum. **Development:** Approximately 800 ft. of underground workings. **Ore:** Copper. **Remarks:** Idle since before the World War.

#### LIME PEAK COPPER CO.

**Office:** 214 Couch Bldg., Portland, Ore. **Officers:** Joseph M. Healy, Pres.; L. B. Reeder, Sec.; both of Portland, Ore. **Inc.:** Form of organization unknown. **Capital:** 2,000,000 shares; par value \$1; 1,421,198 shares issued. **Property:** Lime Peak group; 22 unpatented claims, Snake River; 5 miles north of Homestead, Ore.; Seven Devils dist. **Development:** By 8 tunnels, the principal one of which is 1520 ft. long. Total development, approximately 2600 ft. **Plant:** Small air compressor, driven by gasoline engine; complete mining equipment. **Ore:** Copper-silver. **Men employed:** Average, 3. **Remarks:** Active development work which consisted of extending the principal tunnel, was conducted throughout the year; and in addition a small amount of work was done at other points on the property.

#### NATIONAL COPPER MINES CO.

**Office:** 606 Lewis Bldg., Portland, Ore. **Officers:** Joseph Wolfs, Pres.-Mgr.; Ray Fennell, Sec., both of Portland, Ore. **Inc.:** April 26, 1906. **Capital:** 3,000,000 shares; par value \$1; 1,613,727 shares issued. **Property:** 35 unpatented claims, Seven Devils dist.; Cuprum. **Development:** Principally by 1 tunnel 2200 ft. long. **Plant:** Small steam-driven compressor, and equipment. **Ore:** Copper. **Men employed:** Average, 3. **Remarks:** Small amount of development work during the year.

#### R. B. MINING COMPANY

**Office:** 427 Idaho Bldg., Boise. **Officers:** R. B. Anderson, Pres.-Mgr.; H. B. Anderson, Sec.; both of Boise. **Inc.:** Aug. 7, 1925. **Capital:** 500,000 shares; par value \$1; 155,505 shares issued. **Property:** Silver King group; 5 unpatented claims, Indian Creek; Seven Devils dist.; Cuprum; held under lease and bond from Frank Shelton, Cuprum. **Development:** By 2 tunnels: No. 1, 200 ft. long; No. 2, 320 ft. long. **Ore:** Silver-copper. **Remarks:** Annual labor only.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Alaska et al.	Seven Devils	N. J. Patterson	Baker, Oregon
Amadore et al.	Seven Devils	J. A. Dimick	San Antonio, Texas
American Flag et al	Mountain View	Mary Z. Finney	Cleveland, Ohio
Arkansaw	Seven Devils	E. C. Westervelt	11 Broadway, New York City
Bald Eagle	Seven Devils	Mrs. Mabel Sprouls	Cuprum
Big Indian et al.	Seven Devils	E. J. Whitmarsh	Cuprum
Blue Bird Gr.	Seven Devils	Mose Fuchs	Baker, Oregon
Blue Bucket	Seven Devils	Irene Imhaus	Madison Park Apts. Portland, Ore.
Bodie et al.	Seven Devils	A. M. Tousley	Council
Bryan et al.	Seven Devils	Mose Fuchs	Baker, Ore.
Camp Ground et al	Seven Devils	Martin Bradley	Cuprum
Chameleon Gr.	Mt. View	Thos. G. Potter	Pollock
Chieftain et al.	Seven Devils	Jno. A. Stewart	Indian Valley
Cliff et al.	Seven Devils	P. L. Gaarden	Bear
Copper Belt Gr.	Seven Devils	G. W. McCarty	Homestead, Ore.
Copper Bottom	Seven Devils	F. J. Lindsay	Cuprum
Copper Dike	Seven Devils	Toleen & Peterson	Cuprum
Decorah	Seven Devils	R. E. Wilson	Cambridge
Decorah	Seven Devils	Mary Steele	610 Springs St., Portland, Ore.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Deep Creek Gr.	Seven Devils	Frank Lauzon	Cuprum
Faye L.	Seven Devils	Anna Adams	Cuprum
Glenn G.	Unorganized	J. F. Glenn et al	Fruitvale
Gold Coin Gr.	Seven Devils	Adams County	Council
Gold & Copper	Seven Devils	Rom & Degitz	Cuprum
Golden Star Gr.	Mt. View	Jas. H. Hawley	Boise
Grandview Gr.	Seven Devils	Frank Shelton	Cuprum
Grant Gr.	Seven Devils	J. A. Walsh	Helena, Mont.
Great Eastern	Seven Devils	Arthur David Est.	Bear
Greenhorn Gr.	Seven Devils	Collins Lynes	Cuprum
Hollister Gr.	Seven Devils	Mabel A. Gilmore	Cuprum
Iowa & Josie	Seven Devils	E. D. Ford	Weiser
Kinney	Seven Devils	Chas. Warner	Bear
Last Chance Pl.	Seven Devils	Walter James	Cuprum
Last Chance	Seven Devils	I. R. Smith	Midvale
Lockwood et al.	Seven Devils	August Brockman	Weiser
Lola Group	Seven Devils	A. J. Cole	Oakland, Ky.
Mammoth Gr.	Seven Devils	Chas. Anderson	Cuprum
Margaret Gr.	Seven Devils	Frank E. Smith	Weiser
Mayflower Gr.	Seven Devils	Mrs. F. Hildebrand	Council
Mica Champion Gr.	Unorganized	M. P. Gifford	Council
Minnie H.	Seven Devils	S. M. French	Weiser
Mohawk et al	Seven Devils	G. W. McCarty	Baker, Ore.
Monarch Gr.	Unorganized	Gillman Rinehart	Council
Moonlight	Seven Devils	J. A. Reynolds	Weiser
North Hornet Gr.	Unorganized	W. E. Freehafer	Council
North Peacock	Seven Devils	Melvin Hubbard	
Olive	Seven Devils	F. F. Fife	Cuprum
Paducah	Seven Devils	J. C. Rogers	Huntington, Ore.
Pres. Wilson et al.	Seven Devils	L. A. Darland	Cuprum
Red Mountain	Seven Devils	Collis Lynes	Cuprum
River Queen Gr.	Seven Devils	Bernard Haas	Weiser
Ruby Bell	Mountain View	Mary Z. Finney	Cleveland, Ohio
Schley et al.	Seven Devils	Geo. A. Jones c/o Ada Co. Realty	Boise
Star Gr.	Mountain View	Thos. G. Potter	Pollock
Virginus	Seven Devils	Andrew Wilmot	Kendrick
Virginus	Seven Devils	E. C. Dutton	Helena, Mont.
Walker	Seven Devils	J. T. Steele	Carson, Ore.
Whale	Seven Devils	A. G. Butterfield	Weiser
Wild Horse Gr.	Seven Devils	Mrs. C. R. Braasch	Homestead, Ore.

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## BANNOCK COUNTY

Bannock County is one of the largest and most important of the southeastern counties. It is bounded on the north by Bingham County, on the east by Caribou and Bear Lake counties, on the south by Franklin and Oneida counties, and on the west by Power County. It has an area of 1,837 square miles and was accredited with a population of 27,532 in the 1920 census. Pocatello, the second largest city in the State, is the county seat and principal division point of the Oregon Short Line Railroad.

The county is served by two state highways, the Oregon Trail, and Yellowstone Park. The former is the main east and west trunk line, and the latter is the main north and south trunk line of the State system.

The principal mineral resources are phosphate rock, limestone, manganese, copper, silver, gold, and building stone. The limestone is suitable for Portland cement and, as the deposits are extensively distributed and adjacent to transportation, they will eventually add a new and important industry. The phosphate rock covers a large area and constitutes an important latent resource. Considerable prospecting has been done on the copper veins which are found in the Portneuf Mountains south of Pocatello. A mill was constructed at one mine; but other than the necessary annual labor no work of importance has been conducted for a number of years. Reports on the manganese deposits near Cleveland and Lava Hot Springs, which were discovered during 1924, indicate that the ore is high grade and that there is a large tonnage available.

During the year the Cleveland Mining Corporation and the Idaho Manganese Mining Co. performed a large amount of development work, in addition to producing and marketing a substantial tonnage of high-grade ore. The manganese deposits owned by these companies are located near the southern border of the county, and it is entirely possible that they may extend into Franklin County.

At Lava Hot Springs, the Lava Manganese Mining Co. was active throughout the year, producing and marketing a small tonnage of ore. Lessees performed a small amount of development work on the property owned by the Lead Bell Mining Co.

**CLEVELAND MINING CORPORATION**

**Office:** Cleveland, Idaho. **Officers:** C. C. Ames, Pres.-Mgr., Cleveland Idaho; E. G. Frawley, Sec., Pocatello. **Inc.:** July 13, 1925. **Capital:** 400,000 shares; par value 10c; 22,000 shares issued. **Property:** Option to purchase 240 acres patented farm land; unorganized mining district; Cleveland. **Development:** By 2 tunnels and numerous open cuts. **Ore:** Manganese. **Men employed:** Average, 2. **Remarks:** Active throughout the year; a small tonnage of manganese ore was produced and marketed.

**FORT HALL MINING & MILLING CO., LTD.**

**Office:** Pocatello. **Officers:** H. M. Palmer, Pres.-Mgr., Pocatello. **Inc.:** Sept. 5, 1902. **Capital:** 1,000,000 shares; par value \$1; 260,000 shares issued. **Property:** Fort Hall group; 32 unpatented claims, Fort Hall dist.; Portneuf. **Development:** Principal tunnel 4000 ft. long; total development approximately 8000 ft. **Plant:** MINE: Steam-driven compressor, complete mining equipment. MILL: 50-ton concentrator built 1909. **Ore:** Copper. **Remarks:** Annual labor.

**IDAHO MANGANESE MINING CO.**

**Office:** Cleveland, Idaho. **Officers:** Nathan Smith, Pres.-Mgr.; Geo. L. Smith, Sec., both of Cleveland. **Inc.:** July 17, 1925. **Capital:** 400,000 shares; par value 10c; 370,355 shares issued. **Property:** 250 acres patented land; unorganized district; Cleveland. **Development:** By 2 tunnels. **Ore:** Manganese. **Men employed:** Average, 5. **Remarks:** Active throughout the year, and a large tonnage of manganese ore was produced and marketed.

**LAVA MANGANESE MINING CO.**

**Office:** Lava Hot Springs. **Officers:** B. C. Madill and R. S. Turner, Trustees. **Inc.:** Aug. 10, 1926. **Capital:** 10,000 shares, par value \$10; shares issued unknown. **Property:** 3 unpatented claims, Portneuf district; Lava Hot Springs. **Ore:** Manganese. **Remarks:** Active development during the year; a small tonnage of manganese ore was produced and marketed.

**LEAD BELL MINING CO.**

**Office:** Lava Hot Springs. **Officers:** S. D. Colton, Pres., Salt Lake City; Ducilla Godfrey, Sec.; Wm. R. Godfrey, Mgr., both of Lava Hot Springs. **Inc.:** Nov. 12, 1925. **Capital:** 1,000,000 shares, par value 10c; 100,000 shares issued. **Property:** 9 unpatented claims, Portneuf district; Lava Hot Springs. **Development:** Principally by one tunnel, 630 feet long. **Ore:** Lead-silver. **Remarks:** Small amount of development work by lessees.

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## BEAR LAKE COUNTY

Bear Lake is the extreme southeastern county of the State. It is bounded on the east by the State of Wyoming and on the south by the State of Utah. On the north and west it adjoins Caribou, Bannock, and Franklin counties. It has an area of 980 square miles and was accredited with a population of 8,783 in the 1920 census. Montpelier, situated in the center of a rich agricultural valley, is the largest town; and Paris, located near the north end of Bear Lake, is the county seat.

The State highway, Oregon Trail, and the main line of the Oregon Short Line Railroad traverse the county east and west, thus giving it good transportation facilities.

The principal mineral resources are phosphate rock, gypsum, manganese, copper, lead, and silver. There are also excellent possibilities for petroleum. Estimates made by geologists of the U. S. Geological Survey credit the state with more than five billion tons of minable phosphate rock, over 85 per cent of the total known phosphate resources of the world. The largest and most accessible areas containing this rock are in Bear Lake County. Phosphate is a necessary soil constituent and it is through the existence of the Idaho deposits that the future of American agriculture is assured. These deposits are practically untouched, as present freight, market and price conditions are preventing profitable production. They are the greatest potential mineral resources within the State and when properly developed the mining enterprises will dwarf many of the now famous mining districts in the United States. These deposits are fully described, with analyses and tonnage estimates included, in the numerous publications referred to in the bibliography of this county. Four mines are properly equipped with the necessary surface and mining plants, all have a large available tonnage, and production can be started without delay whenever conditions will warrant it.

Many structures favorable to the accumulation of gas and petroleum in commercial quantities are found in this county. As the formation is similar to those in Wyoming which are producing oil, it is reasonable to expect that the probabilities should be at least equal on the Idaho side of the State line.

In the past a little development work has been done on the copper and lead deposits which are found in this county; and a small tonnage has been marketed. Except for the annual labor, all of the prospects have been idle for a number of years.

The San Francisco Chemical Co. was the only phosphate mine in the county which was active during the year. This company operated its mine for eight months and produced a large tonnage of rock which was shipped to San Francisco, Calif., where it was converted into super-phosphate in a plant owned by the company.

The Colossus Mining & Milling Co., near Pegram, was active throughout the year. A mill building, power-house building, and cottages for employees were constructed, and a small amount of mine development work was performed during the year. This enterprise is based on gold which is not detected by the usual methods employed in assaying for this metal. The company's officers state: "The presence of gold is determined by a special assaying and cyaniding treatment, the enterprise is predicated on these special methods and the tailings from the mill will be pressed into brick."

### APEX MINING CO.

**Office:** Montpelier. **Officers:** M. L. de Julien, Pres.-Mgr.; R. A. White, Sec., both of Pegram. **Inc.:** May 5, 1921. **Capital:** 1,000,000 shares; par value 1c; 600,000 shares issued. **Property:** Apex group, 10 unpatented claims, unorganized district; Pegram. **Development:** Principally by one tunnel, 140 feet long. **Ore:** Gold. **Remarks:** Annual labor only.

**COLOSSUS MINING & MILLING CO.**

**Office:** Montpelier. **Officers:** M. L. de Julien, Pres.-Mgr. Pegram; De-Meade Austin, Sec., Montpelier. **Inc.:** May 1, 1925. charter forfeited Nov. 30, 1926. **Capital:** 1,000,000 shares; par value 1c; 590,000 shares issued. **Property:** Colossus group; 10 unpatented claims, unorganized district; Pegram. **Development:** By 2 tunnels, each of which is approximately 250 ft. long. **Plant:** Partly constructed 350-ton cyanide plant. **Ore:** Gold. **Men employed:** Average, 6. **Remarks:** In addition to a small amount of development work, the necessary buildings for a mine camp were erected and construction work was completed on a mill building in which will be installed fine-grinding and cyanidation equipment. Gold is not detected in this company's ores by the usual methods employed in assaying for this metal. The company's officers state: "The presence of gold is determined by a special assaying and cyaniding treatment; the enterprise is predicated on these special methods, and the tailings from the mill will be pressed into bricks." In addition to completing mill and camp buildings, the company performed about 350 feet of mine development work during the year.

**COPPER RESERVE MINING & REDUCTION CO.**

**Office:** Care of Walker Brothers Bank, Salt Lake City, Utah. **Officers:** Thomas Doolittle, Sec.; Los Angeles, Calif. **Inc.:** Aug. 5, 1912. **Capital:** 500,000 shares; par value 10c; 400,000 shares issued. **Property:** Humming Bird group; 4 patented claims, Bear Lake dist.; Paris. **Remarks:** Inactive for eight years.

**SAN FRANCISCO CHEMICAL CO.**

**Office:** 332 Pine St., San Francisco, Calif. **Officers:** William F. Kett, Pres., San Francisco, Calif.; Jos. J. Taylor, Mgr., Montpelier. **Inc.:** July 17, 1906. **Capital:** 2,000 shares; par value \$100; all shares issued. **Property:** Waterloo group; 10 patented claims; 505 acres; Montpelier. **Development:** 3 tunnels; total development, approximately 3000 ft. **Plant:** Gas-driven compressor and complete mining equipment. **Ore:** Phosphate rock. **Men employed:** Average, 20. **Remarks:** Active throughout most of the year. A large tonnage of phosphate rock was produced and marketed.

**UTAH FERTILIZER & CHEMICAL MFG. CO.**

**Office:** Los Angeles, Calif. **Officers:** F. W. Braun, Pres.; Robt. J. Shields, Mgr., both of Los Angeles, Calif. **Inc.:** Jan. 29, 1908. **Capital:** 100,000 shares; par value \$1; all shares issued. **Property:** 16 patented claims; approximately 2400 acres; unorganized dist.; Georgetown; R. R., Georgetown, 8 miles. **Development:** 9 tunnels, 2 shafts, approximately 800 ft. **Ore:** Phosphate rock. **Remarks:** Idle.

**UTAH-IDAHO MINING & MILLING CO.**

**Office:** Paris, Idaho. **Officers:** L. W. Johnson, Pres., Provo, Utah; H. H. Broomhead, Sec., Bloomington. **Inc.:** Aug. 23, 1926. **Capital:** 1,000,000 shares; par value 2c; 600,000 shares issued. **Property:** Old Boulder group, 18 unpatented claims, unorganized district; Paris. **Development:** By one tunnel 200 ft. long. **Ore:** Copper. **Men employed:** Average 2. **Remarks:** Small amount of development work during the year.



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## BENEWAH COUNTY

Benewah is one of the northern counties. It is bounded on the west by the State of Washington, on the north by Kootenai County, and on the east and south by Shoshone and Latah Counties. It has an area of 786 square miles and was accredited with a population of 6997 in the 1920 census. St. Maries, the county seat, is the largest town in the county. Except a small area along the St. Joe and St. Maries rivers, and the section adjacent to the town of Plummer, which is devoted to agriculture, the entire county is mountainous and heavily timbered. The county is noted for its timber and lumbering industries.

The county is served by lake-boat transportation from Coeur d'Alene to St. Maries, and by two railroads: The Tekoa, Wn-Wallace, Idaho, branch of the O. W. R. & N. (Union Pacific System), and the main line of the Chicago, Milwaukee & St. Paul Railroad, with its branch line extending from St. Maries to Elk River (Clearwater County).

The principal mineral resources are gold, copper, silver, lead, zinc, iron, and clay. The deposits containing the principal metals have received a small amount of attention; and many of the clays are exceptionally adapted to the ceramic industry. The St. Joe district, which lies east of St. Maries, and the Hoodoo and Camas Cove districts, in the southeastern corner, are the principal mining districts.

During 1926 three mining companies performed a small amount of development work. This, with a slight increase in the number of prospectors, gave the county a little more than its usual mining activity.

### BEAVER CREEK MINING CO.

**Office:** St. Maries, Idaho. **Officers:** J. A. Lawrence, Pres.; H. T. Driggs, Mgr.; both of St. Maries. **Inc.:** Nov. 17, 1924. **Capital:** 1,000,000 shares; par value 10c; 235,556 shares issued. **Property:** Beaver Creek group; 3 unpatented claims, Camas dist.; Santa. **Development:** 1 tunnel, 170 ft. **Ore:** Gold. **Men employed:** Average, 2. **Remarks:** A small amount of development work was done during the year.

### BIG FIVE MINING CO.

**Office:** St. Maries. **Officers:** F. E. Goude, Pres.-Mgr.; Siltcoss, Ore.; Earl Eagan, Sec., St. Maries. **Inc.:** Sept. 20, 1907. **Capital:** 2,000,000 shares; par value \$1; 1,224,122 shares issued. **Property:** Big Five group; 6 unpatented claims, St. Joe dist.; St. Maries. **Development:** By 2 tunnels; No. 1, 400 ft. long; No. 2, 450 ft. long. **Ore:** Silver, lead, copper. **Remarks:** Annual labor only.

### BUTTE MINING CO.

**Office:** St. Maries, Idaho. **Officers:** John Martindes, Pres.-Mgr.; George E. Mitchell, Sec.; both of St. Maries. **Inc.:** March 27, 1916. **Capital:** 500,000 shares; par value 50c; 394,644 shares issued. **Property:** 6 unpatented claims, St. Joe dist.; St. Maries. **Development:** 1 tunnel, 212 ft. long. **Ore:** Lead-silver. **Remarks:** A small amount of work was done during the year.

### ROUND TOP MINING CO.

**Office:** St. Maries. **Officers:** Fulton Cook, Pres., W. F. Sargent, Sec., both of St. Maries. **Inc.:** Jan. 21, 1926. **Capital:** 1,000,000 shares; par value 10c; 103,875 shares issued. **Property:** Roundtop group; 12 unpatented claims, St. Joe district; St. Maries. **Development:** 2 tunnels; No. 1, 800 ft. long; No. 2, 110 ft. long. **Plant:** Small steam-driven compressor; complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** Active throughout the year.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Alice Group	Camas Cove	S. R. Walker	St. Maries
Aurora	St. Joe	E. F. Montandon	St. Maries
Cabin et al.	St. Joe	Fulton Cook	St. Maries
Cedar Creek	Camas Cove	W. I. Hupp et al	St. Maries
Connelly Bros.	Camas Cove	Connelly Bros.	Tyson
Donson-Woodard	St. Joe	L. B. Dunson	St. Maries
Flying Stone	Unorganized	William F. Schultz	Plummer
McLean Placer	Camas Cove	C. A. McLean	Santa
Red Boy	Camas Cove	J. E. Hemmerway	St. Maries
Seledoria	Camas Cove	Sadie Caverni	Clarkia
Tom et al.	Unorganized	William Russell	Chatcolet

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**BINGHAM COUNTY**

Bingham, a southeastern county, is primarily an agricultural community. It occupies a large part of the Snake River Valley and is bounded by Butte, Blaine, Power, Bannock, Caribou, Bonneville, and Jefferson counties. It has an area of 2184 square miles and was accredited with a population of 18,310 in the census of 1920.

The extensive phosphate beds of southeastern Idaho are exposed in the Blackfoot Mountains which cover the eastern part of the county. Coal also has been found in these mountains, notably along Willow Creek, a small stream which flows in a northerly direction through the east end of the county. The coal beds have received a little attention from prospectors but no coal of commercial importance has been discovered. Structures that appear likely for the presence of petroleum are present also. The fine gold in the placer deposits along Snake River is the only metal resource of the county. In the past these deposits have received the attention of placer miners, but nothing of importance was reported during the year.

**MARY LEE GOLD MINING CO.**

**Office:** Gallipolis, Ohio. **Officers:** Harold Wolf, Vice-Pres., J. V. Lee, Sec.-Treas., both of Gallipolis, Ohio. **Inc.:** Jan. 29, 1919. **Capital:** 1,000,000 shares; par value \$1; 500,000 shares issued. **Property:** 47½ acres unpatented land. **Ore:** Placer gold.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Eagle Bend Pl.	Snake River	Alma Clough	Pingree
Eldorado Placer	Snake River	Robert Wheeler	Sterling
Oborn & Coler Pl.	Snake River	John Oborn	Blackfoot
Parsons Placer	Snake River	W. G. Parsons	Aberdeen
Snake River Pl.	Snake River	G. E. Campbell	Blackfoot
Woodruff Bend Pl.	Snake River	James G. Walsh	Blackfoot

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## BLAINE COUNTY

Blaine County is bounded on the west by Camas County, on the north by Custer County, and on the east and south, in its greater extent, by Butte and Lincoln Counties. Its principal area comprises the drainage basin of Big and Little Wood Rivers, which flow in a southerly direction. Its total area is 2797 square miles. The 1920 census accredited the county with a population of 4,473, or 1.6 persons to the square mile. In location it is one of the south-central counties and comprises part of the region known as "Central Idaho's Mineral Empire." The county is primarily recognized as a mining county, but it is also noted for its agricultural and stock raising industries; particularly sheep, as it is one of the largest sheep shipping points in the United States.

The county is served by the Wood River branch of the Oregon Short Line Railroad, which extends from Shoshone to Ketchum; by the Sawtooth Park State highway; and a well-kept system of county roads which extend into all of the various mining districts and sections. All roads are kept in good repair and are open to travel during the larger part of the year. Hailey is the largest town and county seat.

The first discovery of lead-silver ore in the State was made in Blaine County, which was then called Alturas County. The first ore was marketed in 1880 and since then this county has been a consistent producer of these metals. Most of the ores are of such high grade that they can be shipped direct to the smelter without preliminary treatment, thus assuring immediate returns from all discoveries. This fact and the possibilities of discovering and opening new ore bodies, will continue to hold Blaine County, particularly the Wood River district, in popular esteem as a favorite section of the State for prospectors, development companies, and those seeking a worthy field for mining enterprises.

The high grade ores of lead and silver are widely distributed throughout the county, as well as those of gold, zinc, and copper. In addition to the five principal metals—lead, silver, zinc, gold, and copper—deposits of arsenic, antimony, bismuth, quicksilver, graphite, barite, and limestone are found in this county. These minerals occur in sufficient extent to be of commercial importance, and many of the deposits offer an excellent opportunity to development companies or to those in search of these minerals or metals. The barite deposits are the largest that have ever been found west of the Mississippi River. One large barite deposit on Deer Creek has been purchased by the Bunker Hill & Sullivan Mining & Concentrating Co., presumably in anticipation of the construction of the company's zinc smelter at Kellogg, where it will be used in the manufacture of lithopone.

The famous Minnie Moore mine was the scene of the most extensive prospecting in the county during the year. In August, 1923, this property was acquired by the Federal Mining & Smelting Co., who constructed new buildings, installed new mining machinery and equipment, and then commenced active mining operations which consisted of sinking the Allen shaft to the 800-foot level and driving about 1000 ft. of new crosscuts, drifts, and raises. On June 16, 1924, the Federal forfeited its option; and on June 26, 1924, Harold Boericke, of Philadelphia, acquired the mine under lease and option similar to the one held by the Federal. He acquired the surface plant and mining equipment under a lease from the Federal and immediately commenced developing the mine where the former company left off. An average number of forty men was employed continuously and the work was carried forward with much vigor until December 31, 1925, at which time the operations were suspended and the property turned back to the owner, who kept the pumps in operation until February 2, 1926, at which time work was resumed by other interests. These operators performed a large footage of diamond drilling and crosscutting until May 25, 1926, at which time they suspended all work. The mine was then idle until June 26, when work was resumed by the Minnie Moore Syndicate, an organization whose operations were conducted through the Hecla Mining Company of Shoshone County. This organization conducted an active exploratory campaign until November 11, 1926, at which time it suspended its operation and turned the property back to the Minnie Moore Mines Co. The president of the latter company had previously anticipated that the Minnie Moore Syndicate would forfeit its option, and was successful in having the mine refinanced by the date of forfeiture, so the change in operators was made without a suspension of operations, and the year closed with the Minnie Moore Mines Co. maintaining a vigorous development campaign, the principal part of which was the sinking of a winze from the lowest level in the mine.

The Independence mine, owned by the Federal Mining & Smelting Co., was operated throughout the year by lessees. The ore shipped by them constituted the largest shipments from the county, and the new ore which they developed was one of the most important new disclosures. Another development, with subsequent shipments of new ore, was that made by Charles Sonneleitner and E. W. Rising, at the Star mine, which is an old producer about midway between Bellevue and Hailey, on the west side of Big Wood River.

The Hailey Bonanza Mining Co. further explored its property in a search for the continuation of the ore shoot.

Others who continued to develop their mines throughout the year were the Democrat Mine, Inc., the Wood River Mining Co., C. S. Muffley of Helena, Montana, at the Parker group east of Ketchum, A. F. Peery, who is operating the famous old Vienna mine under lease, and Peter L. Kent at the Lone Pine group on Deer Creek.

The most important development work maintained during the year was that of Harold Boericke at the Norris-O'Connor groups in the Muldoon section. Two gas-driven compressors were installed, and active work was carried on throughout the year, resulting in two important disclosures.

The principal new companies and enterprises which started during the year were: Idaho Silver King Mining Co., at Sawtooth; Idaho Mascot Mines Coalition, at the Mascot mine; M. T. Rowland on the Smuggler group in the Muldoon section; and the Combined Metals & Reduction Co., a subsidiary of the National Lead Co., at the Triumph mine, which adjoins the North Star mine of the Federal Mining & Smelting Co.

The reopening of the Silver King mine by the Idaho Silver King Mining Co. was one of the most important undertakings in the county during the year. In 1893 this mine was the principal producer in the Sawtooth district. The head-house and gallows frame burned down, the mine was closed and a watchman placed on the property. As the years went by, the remaining buildings fell into decay, the collar of the shaft caved in, and all records were lost. Under such a condition, the mine could not be examined, so was turned down by all the large companies which became interested in it. The present operators displayed their "nerve" in reopening the mine, and as a result of their courage they were amply rewarded with a large tonnage of developed high-grade silver and antimony ore.

#### ARGO MINING CORPORATION

**Office:** 3725 Kate Ave., Baltimore, Md. **Officers:** Henry Mencken, Pres.; L. W. Ruths, Sec.; both of Baltimore, Md. **Inc.:** October 15, 1926. **Capital:** 500,000 shares, par value \$1; no shares issued. **Property:** Cove group; 7 unpatented claims, Mineral Hill dist.; Gannett. **Development:** 4 tunnels, giving approximately 580 feet, vertical depth on vein; total development, 2533 ft. **Plant:** Steam driven compressor on ground not installed; complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 1. **Remarks:** Property formerly owned by Ambro Mining Corporation.

#### ARGOSY MINING & MILLING CO., LTD.

**Office:** 1125 N. Garfield Ave., Pocatello, Idaho. **Officers:** W. E. Smith, Pres.; Priscilla K. Smith, Sec., both of Pocatello. **Inc.:** Feb. 24, 1904. **Capital:** 50,000 shares; par value \$1; all shares issued. **Property:** Argosy group; 5 patented claims, Little Wood River dist.; Muldoon. **Development:** by 5 tunnels; total development approximately 800 ft. **Ore:** Lead-silver. **Remarks:** Idle for 15 years. Lessee performed a small amount of work during the latter part of the year.

#### BALTIMORE & VICTORIA MINING CO.

**Office:** Care of U. S. Trust Company, Terre Haute, Ind. **Officers:** William K. Hamilton, Pres., Terre Haute, Ind.; Eph Daft, Agent, Hailey. **Inc.:** July 3, 1903. **Capital:** 150,000 shares; par value 10c; all shares issued. **Property:** Ida Harland group, 5 patented, 8 unpatented claims, Warm Springs Creek dist.; Hailey. **Remarks:** Small amount of work by lessees.

#### HAROLD BOERICKE

**Office:** 1307 Packard Building, Philadelphia, Pennsylvania. **Officers:** Geo. W. Worthington, Mgr., Bellevue. **Property:** Porto Rico and Keystone groups, 25 unpatented claims, Little Wood River dist.; Muldoon. **Development:** Principally by 5 tunnels; total development over 1000 feet. **Plant:** 2 gas-driven C-P compressors; complete mining equipment and camp. **Ore:** Lead-silver, copper-gold. **Men employed:** Average, 15. **Remarks:** Active development work throughout the year. This work resulted in a number of important ore disclosures.

**BUNKER HILL & SULLIVAN MINING & CONCENTRATING CO.**

(See Shoshone County)

**Officers:** F. W. Bradley, Pres., 1022 Crocker Bldg., San Francisco, Cal.; Stanly A. Easton, Mgr., Kellogg; James W. Gwinn, Local Mgr., Cascade. **Property:** 10 unpatented claims, Bullion, Mineral Hill dist., Hailey. **Remarks:** Annual labor only.

**DAISY MINING & MILLING CO.**

**Office:** Hailey. **Officers:** C. S. Shepherd, Pres.; J. G. Hedrick, Sec., both of Hailey. **Inc.:** July 6, 1920. **Capital:** 500,000 shares; par value \$1; shares issued, none. **Remarks:** Company owns no property.

**DISCOVERY GULCH MINING CO.**

**Office:** 530 N. Harrison St., Pocatello, Idaho. **Officers:** G. W. Oliver, Pres., E. H. Miley, Sec.-Treas., both of Pocatello. **Inc.:** Oct. 29, 1925. **Capital:** 50,000 shares; par value, \$1; all shares issued. **Property:** 1 unpatented claim, Mineral Hill dist.; Hailey. **Ore:** Lead-silver. **Development:** 1 tunnel, 193 ft. long.

**ERVINE MINING CO.**

**Office:** Ketchum. **Officers:** M. A. Costello, Sec., 40 Court St., Boston, Mass.; C. Fred Howe, Mgr., Ketchum. **Inc.:** March 14, 1922. **Capital:** 1,000,000 shares; par value \$1; 357,550 shares issued. **Property:** Boyle Mtn. group; 7 patented, 13 unpatented claims, 350 acres, Warm Springs Creek dist.; Ketchum. **Ore:** Silver-lead. **Remarks:** Annual labor only.

**EUREKA DEVELOPMENT CO., LTD.**

**Office:** 319 Dooly Blk., Salt Lake City, Utah. **Officers:** W. A. Wilson, Pres.-Mgr., Salt Lake City, Utah. **Inc.:** June 28, 1905. **Capital:** 200,000 shares; par value 50c; all shares issued. **Property:** Eureka group; 12 patented, 5 unpatented claims, Mineral Hill dist.; Hailey, 7 miles. **Development:** Total development approximately 12,900 ft., the length of the principal workings being: Bay State, 1000 ft.; Chicagoan, 300 ft.; Whale, 1400 ft.; Eureka, 3920 ft.; Idahoan, 5000 ft. One inclined shaft, 700 ft. long; one inclined shaft 435 ft. long. **Plant:** MINE: 8x10 Lidgerwood hoist; 40 h. p. C-P oil driven compressor. **MILL:** 25-ton concentrator. **Ore:** Lead-silver. **Remarks:** The only work conducted during the year was that of two lessees in the mine.

**FEDERAL MINING & SMELTING CO. (See Shoshone County).**

**Office:** Wallace. **Officers:** F. H. Brownell, Pres.; J. L. Martin, Sec.; both of 120 Broadway, New York City; Frederick Burbidge, Mgr., Wallace. **Property:** Independence, North Star, Koeninger and Malta groups; 36 patented, 13 unpatented claims, 762 acres, Warm Springs Creek dist.; Hailey, 12 miles. **Development:** Approximately 7 miles of underground workings, the principal of which is the Plummer, or main haulage tunnel, which is over 6000 ft. long and connects the North Star and Independence groups. **Plant:** MINE: One English Iron Works 202 single drum 25 h. p. electric hoist; one Lidgerwood 8x10 air hoist; one I-R 420 cu. ft. compressor; one C-P 765 cu. ft. compressor. All electrically driven. Electric haulage through Plummer tunnel. One Waugh drill sharpener and complete mine equipment; 4400 ft. Riblet aerial tram from Plummer tunnel to mill, capacity 20 tons an hour. Shops, timber sheds and bunk houses. **MILL:** 350-ton concentrator; jaw and gyratory crushers; rolls; Marcy ball mills; Hancock jigs; drag classifiers; Wilfley tables; Dorr thickeners; Oliver filters; electric power. **Ore:** Lead-silver. **Remarks:** Active mining operations were suspended on August 1, 1923, after which various parts of the Independence mine have been operated by lessees who have conducted active operations, and made a number of substantial shipments.

**FIELD MUTUAL DEVELOPMENT CO.**

**Office:** 254 Alder St., Portland, Ore. **Officers:** Al. W. Field, Pres.-Mgr.; V. F. Rodgers, Sec., both of Portland, Ore. **Inc.:** Nov. 6, 1926. Formerly known as Field Mutual Mining Co. **Capital:** 500,000 shares, par value \$1; shares issued, unknown. **Property:** 14 unpatented claims, Kelley Mountain, Mineral Hill district; Hailey. **Development:** Approximately 3000 ft. of underground work. **Ore:** Lead-silver. **Men employed:** Average, 1. **Remarks:** A small amount of development work during the year.

**GOLDEN GLOW CONSOLIDATED MINING CO.**

**Office:** Twin Falls, Idaho. **Officers:** J. A. Crom, Pres.; F. S. Bell, Sec.; both of Twin Falls. **Inc.:** July 2, 1925. **Capital:** 1,000,000 shares; par value \$1; shares issued unknown. **Property:** 3 patented, 4 unpatented claims, Warm Springs Creek district, Ketchum. The three patented claims are held under lease and option from the Trapper Mining Co. **Development:** 3 tunnels, the principal one of which is 700 ft. long. **Plant:** MINE: 500 cu. ft. steam driven compressor; complete mining equipment. **MILL:** 50-ton concentrator, including jigs and tables. **Ore:** Lead-silver. **Remarks:** Idle.

**HAILEY BONANZA MINING CO.**

**Office:** Hailey. **Officers:** Carl Reisig, Pres.-Mgr., Alfred Wolff, Sec.-Treas.; both of Hailey. **Inc.:** Aug. 9, 1919. **Capital:** 500,000 shares; par value \$1; all shares issued. **Property:** Imperial group; 1 patented, 23 unpatented claims, Greenhorn Gulch, Warm Springs Creek dist.; Hailey. **Development:** Approximately 3000 ft. of underground workings, the principal of which is one tunnel 1200 ft. long. **Plant:** MINE: Electrically driven compressor and complete mining equipment. **MILL:** 100-ton concentrator consisting of tables and jigs. **Ore:** Lead-silver. **Men employed:** Average, 14 for six months. **Remarks:** Construction of the mill, which was started in 1924, was completed; and a small amount of development work in the search for ore was also performed during the year.

**HOMESTAKE GROUP**

**Owner:** J. J. Donovan, Bellevue. **Property:** 13 unpatented claims, Warm Springs Creek dist.; Ketchum. **Development:** Approximately 3500 ft. of workings, the principal being: No. 3 tunnel, 400 ft. long; No. 4 tunnel, 900 ft. long; No. 5 tunnel, 1400 ft. long. **Plant:** Gas driven C-P compressor; complete mining equipment. **Ore:** Lead-silver-zinc.

**IDAHO DEMOCRAT MINE, INC.**

**Office:** 207 Glencoe Bldg., Duluth, Minn. **Officers:** A. Hagberg, Pres.; E. O. Olund, Sec., both of Duluth. **Inc.:** Jan. 30, 1924. **Capital:** 300,000 shares; par value \$1; 246,866 shares issued. **Property:** Lease and option on Idaho Democrat group; 10 patented, 14 unpatented claims, Mineral Hill dist.; Hailey. **Plant:** Portable gas-driven compressor and complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 4. **Remarks:** The mine held by this company is one of the old producers of the Wood River section. There is an extensive amount of mine workings, most of which are inaccessible. This company has abandoned all the old workings, and has devoted its activities to exploring new ground.

**IDAHO MASCOT MINES COALITION**

**Office:** 407 Newhouse Bldg., Salt Lake City, Utah. **Officers:** Charles Peter, Pres.-Mgr.; M. Sheehan, Sec., both of Salt Lake City. **Inc.:** Jan. 8, 1926. **Capital:** 2,000,000 shares, par value \$1; shares issued unknown. **Property:** Mascot group, 41 patented, 24 unpatented claims, Warm Springs Creek district; Hailey. Held under lease and bond from F. C. Richmond Machinery Co., Salt Lake City. **Development:** Principally by 4 tunnels;



total development, approximately 9,300 feet, of which the principal tunnels are: Silver Fortune, 50 ft. long; Oregonian, 300 ft. long; Lyda, 5600 ft. long; and West Side, 1600 ft. long. **Plant:** One 15X9X10 and one 12X 8x12 C-P gas-driven compressor; one 160 h. p. and one 40 h. p. C-P semi-Deisel engine driving electric generators; sawmill and complete mine equipment and camp. **Ore:** Lead-silver. **Remarks:** Active development work was started on Jan. 1 and continued to Oct. 15 at which time operations were suspended and the property reverted to the owners.

#### IDAHO MINERAL PRODUCTS CO., LTD.

**Office:** Hailey. **Officers:** J. F. MacClure, Pres., Montpelier; J. G. Hedrick, Hailey. **Inc.:** July 6, 1920. **Capital:** 100,000 shares; par value \$1; shares issued none. **Remarks:** Company owns no property.

#### IDAHO SILVER KING MINING CO.

**Office:** 1400 C. C. Chapman Bldg., Los Angeles, Calif. **Officers:** Fred J. Hulst, Pres.; Bert M. Wren, Sec., both of Los Angeles. **Inc.:** July 17, 1926. **Capital:** 500,000 shares, no par value; shares issued unknown. **Property:** Silver King group, 2 patented, 1 unpatented claim, Sawtooth district: Ketchum. **Development:** By an inclined shaft 600 feet long, with 3 intermediate levels; total development approximately 3000 feet. **Plant:** Steam-driven hoist. **Ore:** Silver; antimony. **Men employed:** Average, 6. **Remarks:** This company owns the famous Silver King property, which at one time was one of the principal producers in the Sawtooth district. In 1893 the shaft and head-house burned and the property lay dormant until this company re-opened it during the year 1926. The shaft was unwatered, and a large tonnage of high-grade ore exposed.

#### IVANHOE MINING CO.

**Office:** 485 California St. San Francisco, Calif. **Officers:** Harry L. Tevis, Pres.; William Letson, Sec., both of San Francisco, Calif. **Inc.:** July 28, 1909. **Capital:** 2500 shares; par value \$1; all shares issued. **Property:** Durango group, 16 patented claims; Iris group, 5 patented claims; Mineral Hill dist.; Triumph group, 7 patented claims: Warm Springs Creek dist.

#### JACK POT MINING CO.

**Office:** Boise. **Officers:** F. J. Long, Pres., Bellevue; C. E. Beymer, Sec.-Mgr., Boise. **Inc.:** June 29, 1926. **Capital:** 120 shares; par value \$100; 60 shares issued. **Property:** 1 unpatented claim, Mineral Hill district: Bellevue. **Development:** By one tunnel 60 feet long. **Ore:** Lead-silver. **Remarks:** A small amount of work was done during the year by the majority stockholders.

#### JUBILEE MINING CO.

**Officers:** Wm. Ghiglieri, Pres.; Daly B. Robnett, Sec.; Mills Bldg.; both of San Francisco. **Inc.:** October 1, 1925. charter forfeited November 30, 1926. **Capital:** 500,000 shares; no par value; shares issued, unknown. **Property:** War Dance group; 23 unpatented claims, Mineral Hill dist.: Hailey. Held under lease and option from James W. Burns, Auburn, Calif. **Development:** Principally by 1 tunnel, 2000 ft. long. **Ore:** Lead-zinc-silver. **Men employed:** Average, 12. **Remarks:** After acquisition of the property in September, 1925, an active development campaign was conducted until May, 1926, after which operations were suspended.

#### KANSAS CITY-IDAHO MINING & DEVELOPMENT CO.

**Office:** Hailey, Idaho. **Officers:** Frank J. Hall, Pres.; C. W. Morton, Mgr.; both of Kansas City, Mo. **Inc.:** Sept. 30, 1915. **Capital:** 1,000,000 shares; par value \$1; 520,000 shares issued. **Property:** Pay Master group; 10 unpatented claims, Lava Creek dist. **Development:** Principally by 2 tunnels: No. 1, 1100 ft. long; No. 2, 1000 ft. long. **Ore:** Lead-silver-zinc. **Remarks:** Property sold under foreclosure to Charles Swanson of Ketchum.

**LARK MINING CO.**

**Office:** 208 Eccles Bldg., Ogden, Utah. **Officers:** John C. Brown, Pres.; G. B. Roberts, Sec.; both of Ogden. **Inc.:** June 24, 1926. **Capital:** 1,000,000 shares; par value 10c; 495,000 shares issued. **Property:** Lark group, 1 patented and 1 unpatented claim, Mineral Hill district; Bellevue. Held under lease and option from Annie I. Harris, Bellevue. **Ore:** Lead-silver. **Development:** Principally by a vertical shaft 300 feet deep. **Plant:** Gas-driven hoist. **Men employed:** Average, 6. **Remarks:** A small amount of development work was done during the early part of the year, after which operations were suspended.

**MIDVALE MINING CO.**

**Office:** Ketchum. **Officers:** M. A. Costello, Sec., 40 Court St., Boston, Mass.; C. Fred Howe, Mgr., Ketchum. **Inc.:** March 14, 1922. **Capital:** 1,000,000 shares, par value \$1; 400,000 shares issued. **Property:** Pay group; 8 unpatented claims, Warm Springs Creek dist.; Ketchum. **Ore:** Zinc. **Remarks:** During the closing months of the year the property was sold under lease and option, and two men were employed to clean out the old workings.

**MINNIE MOORE MINES CO.**

**Office:** Bellevue. **Officers:** I. E. Rockwell, Pres.-Mgr.; L. R. W. Rockwell, Sec.; both of Bellevue. **Inc.:** June 17, 1912. **Capital:** 500,000 shares; par value \$1; 300,000 shares issued. **Property:** Minnie Moore group; 13 patented, 5 unpatented claims. **Development:** Principally by an inclined shaft 800 ft. long, giving a vertical depth of 600 ft. Total development from this shaft, approximately 5000 ft. **Plant:** 985 cu. ft. I-R electrically driven compressor; Ottumwa double drum electric hoist direct connected to 100 h. p. intermittent speed motor; 4 electrically driven centrifugal pumps; complete mine equipment. **Ore:** Lead-silver. **Men employed:** Average, 30. **Remarks:** All equipment is owned by the Federal M. & S. Co., and leased to the operators. An active prospecting campaign was conducted throughout the year, part of which was performed by the Minnie Moore Syndicate, which see.

**MINNIE MOORE SYNDICATE**

**Office:** Wallace. **Officers:** Operated through the Hecla Mining Co. of Shoshone County. **Property:** Minnie Moore group, see Minnie Moore Mines Co. **Men employed:** Average, 30. **Remarks:** This company acquired the Minnie Moore mine in June, and conducted an active development campaign until the latter part of November, at which time the property was returned to the Minnie Moore Mines Co., which continued a development campaign. This company performed approximately 1500 feet of work.

**QUINCY JUNIOR MINING CO.**

**Office:** 319 Dooly Block, Salt Lake City, Utah. **Officers:** George L. Erwin, Pres., Consumers' Power Co., Grand Rapids, Mich.; J. T. Emery, Jr., Sec., Grand Rapids, Mich.; W. A. Wilson, Mgr., Salt Lake City. **Inc.:** Dec. 20, 1903. **Capital:** 150,000 shares; par value \$1; 139,658 shares issued. **Property:** Red Elephant group; 10 patented claims, Mineral Hill dist.; Hailey. **Development:** Approximately 15,000 ft. underground workings. **Remarks:** Operated by lessees during part of the year.

**RED ELEPHANT CONSOLIDATED MINES CO.**

**Office:** 319 Dooly Blk., Salt Lake City, Utah. **Officers:** John Rapalji, Pres., Beacon, N. Y.; Edwin J. Webb, Sec., Beacon, N. Y. **Inc.:** June 16, 1916. **Capital:** 1,500,000 shares; par value \$1; 957,167 shares issued. **Property:** Red Elephant Extension group; 1 patented, 16 unpatented claims, Mineral Hill dist.; Hailey. **Remarks:** Idle throughout the year.

**SILVER SPAR MINING CO.**

**Office:** Idaho Falls. **Officers:** B. M. Rogers, Pres.; Claude Ferguson, Sec.; both of Idaho Falls. **Inc.:** April 14, 1916, as Falls Mining Company, name changed April 28, 1917. **Capital:** 200,000 shares; par value \$1; 100,000 shares issued. **Property:** Silver Spar group; 18 patented, 7 unpatented claims, Little Wood River dist.; Muldoon. **Development:** By 5 tunnels totaling approximately 1000 ft. in length, and an inclined shaft 200 ft. long. **Plant:** Steam driven hoist and compressor, complete mining equipment and camp. **Ore:** Silver. **Men employed:** Average, 1. **Remarks:** A small amount of work was performed, and a stock assessment of 6 cents was levied on April 26.

**SUNBEAM MINING CO.**

**Office:** 546 S. Main St., Pocatello. **Officers:** W. H. Hall, Pres.-Mgr.; Carl G. Sponberg, Sec., both of Pocatello. **Inc.:** September 28, 1926. **Capital:** 1,000,000 shares, par value 10c; 500,010 shares issued. **Property:** 2 unpatented claims, Sawtooth district; Ketchum. Held under lease and option from C. H. Furey, Pocatello. **Development:** Total development of approximately 300 feet. **Ore:** Silver, antimony. **Remarks:** Small amount of work during the year.

**TORBANEHILL MINING CO.**

**Office:** 608 Deseret Bank Bldg., Salt Lake City, Utah. **Officers:** W. F. Armstrong, Pres., Oscar W. Moyle, Sec.; both of Salt Lake City, Utah. **Inc.:** Sept. 14, 1906. **Capital:** 500,000 shares; par value 1c; all shares issued. **Property:** 7 patented claims, Lava Creek dist.; Carey. **Remarks:** Idle for many years.

**UNITED MINES CO.**

**Office:** 68 Sixth St., Portland, Oregon. **Officers:** Thomas H. Hurlburt, Pres., 422 Second St., Portland, Ore. **Inc.:** April 7, 1922. **Capital:** 1200 shares; par value \$50; all shares issued. **Property:** 5 unpatented claims, Garfield Gulch, Little Wood River dist.; Muldoon. **Development:** Approximately 1140 ft. of underground workings, consisting principally of 3 tunnels; No. 1, 850 ft. long; No. 2, 280 ft. long; No. 3, 90 ft. long. **Plant:** 7x6 I.-R. compressor, driven by 34 in. Pelton water wheel; and complete equipment. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**WAR DANCE MINING CO., LTD.**

**Office:** P. O. Box 397, E. Auburn, Calif. **Officers:** James W. Burns, Pres., Auburn, Calif. **Inc.:** Sept. 17, 1910. **Capital:** 500,000 shares; par value \$1; no shares issued. **Property:** War Dance group; 23 unpatented claims, Mineral Hill dist.; Hailey. **Development:** Over 10,000 ft. of underground workings. **Remarks:** One of Blaine county's old producers.

**WAVA MINING & MILLING CO.**

**Office:** Hailey. **Officers:** C. E. Gordon, Pres., Detroit, Mich.; J. G. Hedrick, Sec., Hailey. **Inc.:** Sept. 18, 1919. **Capital:** 15,000 shares preferred; 35,000 shares common; par value \$1; 4282 preferred; 24,282 common issued. **Property:** Aztec group; 5 unpatented claims. Warm Springs Creek dist.; Ketchum. **Development:** 1 tunnel, 365 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**WOOD RIVER MINING CO.**

**Office:** 204 Shane Bldg., Idaho Falls. **Officers:** H. H. Scarborough, Pres.; W. P. Holmes, Sec.; both of Idaho Falls. **Inc.:** July 30, 1923. **Capital:** 1,000,000 shares; par value 10c; 533,285 shares issued. **Property:** 8 unpatented claims, Warm Springs Creek dist.; Ketchum. **Ore:** Silver and lead. **Remarks:** A small amount of development work was performed during the year. A stock assessment of 1 cent was levied on Aug. 11.

## MINING INDUSTRY OF IDAHO

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Ajax	Mineral Hill	Leo Barrett	Hailey
Aetna	Mineral Hill	Neil Campbell Est.	Bellevue
Alabama	Little Wood R.	Joe Lougons	Hailey
Alturas & Scotia	Sawtooth	Frank Becker	Hailey
Amazon	Mineral Hill	Chas. R. Walters	Shoshone
Bald Eagle	Mineral Hill	Cecelia J. Thomas	Hailey
Barbara	Mineral Hill	John Utsch	Hailey
B B B	Mineral Hill	Beck Bros.	Bellevue
Beaver Gr.	Sawtooth	Thos Mizer, Sr.	Hailey
Belmont Gr.	Mineral Hill	Jos. Siker	Hailey
Big Mint	Mineral Hill	H. R. Plughoff, Est.	Hailey
Black Jack et al	Mineral Hill	J. Geo. Arkoosh	Bellevue
Blue Bell	Warm Spgs. Cr.	Augustine Johnson	Hailey
Bob Tail	Mineral Hill	Rodney Brown	Hailey
Boise City	Mineral Hill	Frank Holtz	Hailey
Bonanza	Mineral Hill	J. L. Van Over	Bellevue
Boyle Mt. Gr.	Warm Spgs. Cr.	C. Fred Howe	Ketchum
Broadway	Warm Spgs. Cr.	Fred Vancil	Hailey
Bull Whacker	Mineral Hill	G. G. Brown	Hailey
Carboniferous	Mineral Hill	Mrs. Frank Campbell	Hailey
Climax	Mineral Hill	Raymond Guyer	Spokane, Wash.
Climax Extension	Mineral Hill	Geo. Choate	Hailey
Comet Gr.	Mineral Hill	J. Geo. Arkoosh	Bellevue
Compensation Gr.	Mineral Hill	L. A. Ditmer	Hailey
Con Virginia	Mineral Hill	Mark Aukema	Hailey
Croesus Gr.	Mineral Hill	Fred C. Robertson	405 Hyde Bldg. Spokane, Wash.
Daisy	Mineral Hill	W. J. Oliver	Hailey
Dewey Gr.	Mineral Hill	Fred W. Smith	Hailey
Elkhorn	Warm Spgs. Cr.	Mrs. Horace Lewis	Ketchum
Ellen Stilts	Mineral Hill	W. A. Holland	Hailey
Evelyn	Warm Spgs. Cr.	Hampton & Griffith	Ketchum
Extension	Warm Spgs. Cr.	L. P. McPheters	Ketchum
Free Coinage	Warm Spgs. Cr.	Jas. Bonning Est.	Ketchum
Galena Gr.	Sawtooth	A. C. Martin	Minneapolis, Minn.
Garfield Gulch	Little Wood R.	Chas. Norris	Hailey
Gate City	Mineral Hill	A. M. Glahn, Agt.	Bellevue
Gem	Mineral Hill	Elmer Brown	Hailey
Gilt Edge	Mineral Hill	Sarah Campbell	Hailey
Glendale Queen	Mineral Hill	W. D. Schraff	Bellevue
Gold King	Mineral Hill	Mark J. King	Hailey
Grayhound et al	Warm Spgs. Cr.	H. D. Jones et al	Hailey
Hardscrabble	Mineral Hill	A. M. Singer	Gooding
Hard Times	Mineral Hill	Jos. Werry, Jr.	Bellevue
Hill Side	Mineral Hill	John Edwards	Bellevue
Hispanolia	Sawtooth	Chas. H. Furey	Pocatello
Homestake Gr.	Warm Spgs. Cr.	J. A. Nelson	Hailey
Imperial Gr.	Warm Spgs. Cr.	Leo Snider	Hailey
Jupiter	Little Wood R.	E. M. James	Compton, Calif.
Keystone	Warm Spgs. Cr.	Wm. McKelvey	Hailey
Kitty	Mineral Hill	Thos. Povey	Hailey
La Grande	Mineral Hill	Floyd W. Wilson	Hailey
Lake Creek	Warm Spgs. Cr.	Robt. Koeninger	Ketchum
Lark	Mineral Hill	Mrs. A. I. Harris	Bellevue

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Last Chance	Warm Spgs. Cr.	P. M. Gray	Ketchum
Les Despencer	Mineral Hill	Mrs. Edw. Flannery	Hailey
Lone Jack	Sawtooth	John T. Garrett	Obsidian
Lottie	Warm Spgs. Cr.	Victor Stolle	Nampa
Lucky Boy	Sawtooth	H. D. Jones	Hailey
Lucky Boy Gr.	Warm Spgs. Cr.	C. Fred Howe	Ketchum
Mae	Warm Spgs. Cr.	L. L. Brown	Hailey
Majestic Gr.	Mineral Hill	Guy U. Lee	Bellevue
Minnesota	Warm Spgs. Cr.	Abraham Duquette	Idaho City
Mohawk	Warm Springs	Clint Allen	Ketchum
Monarch	Little Wood R.	Sam Bjornson	Muldoon
Myrtie	Sawtooth	M. O. Duffy Est.	Hailey
Narrow Gauge	Mineral Hill	Eph Daft	Hailey
Nay Aug	Mineral Hill	J. J. Baker	Hailey
New Hope	Warm Spgs. Cr.	W. H. Warfield	Ketchum
New Year	Mineral Hill	Alex Fischer	Bellevue
New York	Mineral Hill	John Grenfell	Bellevue
O'Neil-Clark Gr.	Mineral Hill	Geo. Westlake	Hailey
Oriental	Mineral Hill	S. M. Friedman	Hailey
Oriole	Mineral Hill	Wm. McWade	Bellevue
Overland	Mineral Hill	R. B. French	Hailey
Parnell	Mineral Hill	Patrick McMonigle	Hailey
Paymaster	Lava Creek	Chas. Swanson	Ketchum
Porto Rico Gr.	Little Wood R.	Wm. O'Connor Est.	Hailey
Prize Taker	Mineral Hill	F. E. Grenfell, Agt.	Bellevue
Queen Bee et al	Mineral Hill	A. D. Williams	Gooding
Queen Bess	Mineral Hill	J. J. Baker	Hailey
Queen Extension	Mineral Hill	Neil Campbell Est.	Bellevue
Rattler	Mineral Hill	Alex McKibben	Hailey
Red Cloud	Mineral Hill	M. J. Smith, Agt.	Hailey
Richmond Gr.	Mineral Hill	Jos. Werry	Bellevue
Roadside	Mineral Hill	J. S. Shotwell	Gooding
Rob Roy	Little Wood R.	Gus Johnson	Hailey
Saint Idloes	Mineral Hill	Chas. Sheehan	Bellevue
Silver Cord Gr.	Warm Spgs. Cr.	Chas. Swanson	Ketchum
Silver Crown	Warm Spgs. Cr.	Mark J. King	Hailey
Silver King	Mineral Hill	A. D. Hunter	Bellevue
Silver King	Sawtooth	F. E. Riddle	Tulsa, Okla.
Silver Knob	Mineral Hill	W. A. Sullivan	Hailey
Smuggler	Little Wood R.	H. L. Watkins	Muldoon
Star	Mineral Hill	Leo J. Falk	Boise
Stockholder	Mineral Hill	Ira L. Kilgore	Hailey
Surprise	Little Wood R.	F. J. Long	Wendell
Susie S.	Mineral Hill	John Hailey Est.	Boise
Tenbrook et al	Warm Spgs. Cr.	Alonzo Price, Agt.	Ketchum
Tiger	Mineral Hill	Fred Reinhard	Hailey
Tom Cat	Mineral Hill	Chas. Sonneleitner	Hailey
Vindicator Gr.	Warm Spgs. Cr.	Archie Bell	Hailey
Wheelbarrow	Warm Spgs. Cr.	A. T. Farnlund	Ketchum
White Elephant	Warm Springs	Jas. Obenchain	Ketchum
White Wing	Unorganized	C. C. Starcher	Carey
Wichita	Warm Spgs. Cr.	J. W. Gailey	Hailey
Wolftone	Mineral Hill	W. T. Riley	Hailey
Woodrow Wilson	Warm Spgs. Cr.	M. A. Morris	Ketchum

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## BOISE COUNTY

Boise is one of the principal mining counties in the southwestern part of the State. It is bounded by Ada, Gem, Valley, Custer, Blaine and Elmore counties. Included within its area is a part of the drainage basin of the Payette River, practically all of the drainage basin of the South Fork of the Payette River, and all of the drainage basins of Grimes Creek and Moore Creek. The last two comprise the area famously known as the Boise Basin. The county has a total area of 1840 square miles, and was accredited with a population of 1822 in the 1920 census, or one person to the square mile. The principal industries are mining, stock raising, timber and lumbering.

Different sections of the county are served by Federal and State highways, which are supplemented by well-maintained county roads. These roads extend into all the various mining districts and are open to automobile travel during the larger part of the year. The western part of the county is traversed by the Nampa-McCall branch of the Oregon Short Line Railroad; the central part, or Boise Basin, is served by the Intermountain Railroad, which extends from Barber, near Boise, to Centerville. Idaho City, the county seat, and one of the oldest towns in the State, dates its existence from 1863, the time of the original gold rush to the Basin. It once boasted of a population as high as seven to ten thousand.

The history of Boise County dates back to the formation of the State in 1860, when placer gold was first discovered near Pierce City (Clearwater County). The overflow from this stampede resulted in the discoveries of Elk City, Florence, and Boise Basin, in quick succession; and by 1863 Boise Basin was one of the most thriving communities in the western part of the United States. In July, 1864, more than 9000 20-acre placer claims had been recorded in the three principal mining districts.

During the first few years after the discovery of gold all mining was confined to the placers which were susceptible to hand methods. After these became less profitable, numerous ditches five to thirty miles in length were constructed, and hydraulic mining of the higher bench gravels was started. These operations were conducted for many years, and a few have survived to the present day.

Shortly after the placer rush had subsided, attention was given to quartz mining; many discoveries soon were made, mills were constructed, and deep mining started. The principal discovery was the Gold Hill mine at Quartzburg. In 1863 the vein was exposed by placer mining, and by 1867 a mill had been built and was in operation. Except at brief periods when it was being repaired, the mill was operated continuously for twelve years. The mine has been in almost continuous operation since the day of discovery and is credited with a production of six to eight million dollars. This record gives it the distinction of being the oldest and largest producing gold mine in the State. The vein has been opened to a vertical depth of 600 feet only; at this point the ore is still persistent both in grade and extent, and there appears to be no reason why it should not continue deeper.

In addition to the Gold Hill, many other gold mines have a large production record. This production, combined with that derived from placer mining, both hydraulic and dredging, has held Boise County in first place in gold production in the State until the year 1923. The county is still an important producer of gold, but recoveries made by large dredges in other counties have displaced it from first rank. Although statistics show a continual yearly decrease in the amount of gold produced, it should not be inferred that the gold mines are becoming exhausted. There are still many mines and prospects which justify exploitation. When these are properly financed and managed this county will return to its former rank of first in gold production.

As the early-day miner was interested only in the precious metals, gold and silver, which could be recovered by the methods then in use, he disregarded all veins containing the sulphide, or base, ores. Before these ores became valuable prospecting had practically ceased, so the result is that this county offers one of the best fields in the State to prospectors or small development companies in search of lead-zinc-silver ores. Deposits of these metals are widely distributed throughout the county; and a few have been partially developed. When properly exploited and intelligently managed, they will become an important factor in the future prosperity of Boise County and the City of Boise, and will give the State an additional lead-zinc-producing district. Although Boise County has always been known as a gold producing county, there are numerous widely distributed deposits of lead, silver, zinc, copper, bismuth, and antimony; in addition to these, monazite is found in the placer deposits in sufficient quantity to be of commercial importance.

The year 1926 witnessed but little improvement in mining conditions consequence were started, and the established companies either were idle or did not expand their operations over those of the previous year. However, there was an increase in investigations by large companies and others who were looking for lead-zinc mines. Some of these investigators were favorably in Boise County, particularly in the Boise Basin. No new projects of any

impressed and would have recommended the mines had it been possible to procure them under favorable terms.

The largest new undertaking completed during the year was the construction of a small dredge by the Gold Dredging & Power Corporation. This dredge is equipped with a close-connected bucket line composed of 4-cu-ft. capacity buckets. The dredge was completed and put into operation early in May.

During the high-water season the Boise Placer Co. conducted mining for a period of 100 days. This is the largest hydraulic placer mining operation in the State.

The Mineral Mining Co.'s mine was idle until October, as all the company's energy was devoted to the construction of a new 100-ton concentrator. The building was completed, equipment installed, and mining and milling started in October, after which a few tons of lead-silver concentrate were marketed. This company and the Monetary Metals Co., which is exploring the Washington mine, a silver prospect in the Gambrinus district near Idaho City, maintained the largest payrolls in the county. The Monetary Metals Co. conducted an active mine development campaign until October, at which time all underground work was discontinued.

The Independent Mines Syndicate, owner of the Wells group near Grimes Pass, and the Idawa Gold Mining Co. each performed a small amount of work. The Idawa Gold Mining Co. operated its mill for about eight months, and produced a substantial amount of gold bullion.

The Golden Seal Mining & Milling Co., which is developing a lead-zinc-silver prospect near the head of Dry Creek, on the Boise side of the Boise Basin mountains, performed a small amount of work. As the Golden Seal vein is wholly inclosed in granite, the development work is attracting much attention.

#### **BIG ENTERPRISE MINING CO.**

**Office:** Pioneerville. **Officers:** E. Lightfoot, Pres., Pioneerville; S. D. Whaley, Sec., Portland, Ore. **Inc.:** June 24, 1915. **Capital:** 8000 shares; par value \$100; 4000 shares issued. **Property:** Noble placer; 1 unpatented claim, Pioneerville dist.; Pioneerville.

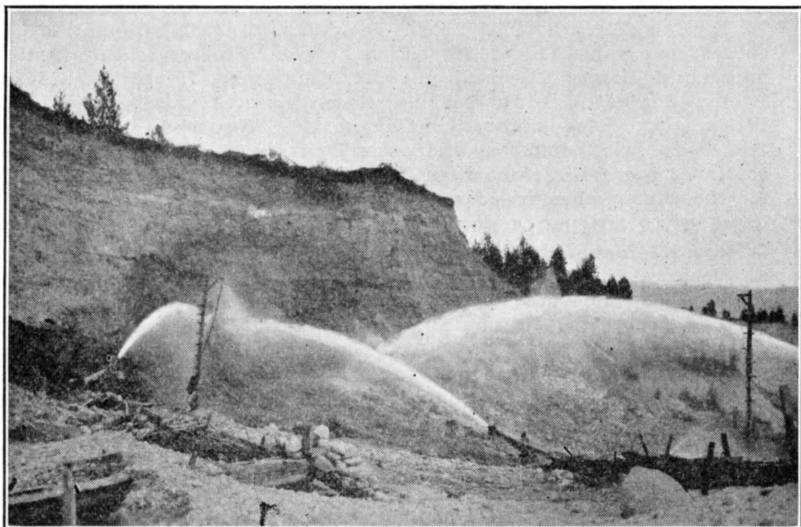
#### **BOISE BASIN IMPROVEMENT CO., LTD.**

**Office:** Idaho City. **Officers:** W. W. Miller, Pres., Franklin, Pa.; E. L. Waddell, Sec., Wheeling, W. Va.; E. F. Blain, Mgr., 1601 N. 12th St., Boise. **Inc.:** June 27, 1911. Charter forfeited Nov. 30, 1926. **Capital:** 500,000 shares; par value \$1; 320,170 shares issued. **Property:** Coin Bond group; 34 unpatented claims, 6 of which are held under lease and bond from William G. Ekin, Horseshoe Bend; Placerville district; Placerville. **Development:** Thousands of feet of work have been done in this group in the past 35 years. There is an open tunnel 1555 ft. in length with upraise 160 ft. to surface and numerous drifts. **Ore:** Gold, lead-silver. **Men employed:** Average, 1. **Remarks:** Annual labor only.

#### **BOISE PLACER CO.**

**Office:** Idaho City. **Officers:** Fleming Howell, Pres., Buckhannon, W. Va., W. Guy Tetrick, Sec., Wheeling, W. Va., E. F. Blain, Mgr., Boise. **Inc.:** Dec. 11, 1922. **Capital:** 750,000 shares; par value \$1; 203,530 shares issued. **Property:** Plowman and Woodburn groups; 300 acres, Idaho City dist.; Idaho City. **Plant:** An oil driven 10x7 compressor, and complete mining equipment. This equipment is used for the blasting of the big boulders in the hydraulic pits; complete hydraulic mining equipment. **Ore:** Placer gold. **Men employed:** Average, 20, for period of 70 days. **Remarks:** This company is the largest producer of placer gold in Boise County, and conducts the largest hydraulic mining operation in the state, which can be conducted only during the high-water season.





PLACER MINE OF BOISE PLACER CO.

**CARY OIL CO.**

**Office:** N. 119 Washington St., Spokane, Wash. **Officers:** C. J. Hoeschen, Pres., Spokane, Wash.; Henry Hansmeier, Sec.-Mgr., Priest River. **Inc.:** June 16, 1926. **Capital:** 1,000,000 shares; par value 10c; 250,000 shares issued. **Property:** Lease and option on 160 acres patented farm land near Horseshoe Bend. **Mineral sought:** Oil and gas.

**CONSOLIDATED MINES SYNDICATE**

**Office:** 615 Empire Bldg., Boise. **Officers:** Frank E. Johnesse, Pres.; William MacLeod, Sec., both of Boise. **Inc.:** May 6, 1924. **Capital:** 10,000 shares; no par value. On August 15, 1924, the capitalization was changed to 10,000,000 shares, \$2.50 par value; and on May 2, 1925, the capitalization was decreased to 10,000,000 shares, par value \$1; 1,095,775 shares issued. **Remarks:** The officers of this company state that it "is primarily a holding corporation, which holds a stock interest in other mining companies."

**CURRY DITCH GOLD PLACER MINES ASSOCIATION**

**Office:** Pioneerville, Idaho. **Officers:** P. E. Hall, Jr. President- Manager, Oakland, California; A. N. Clark, Sec., Everett, Wash. **Inc.:** An association. **Capital:** 500,000 shares; par value unfixed; 48,693 shares issued. **Property:** 5 unpatented placer claims, Pioneerville dist.; Pioneerville.

**DIAMOND L MINING CO., LTD., OF IDAHO**

**Office:** Pioneerville. **Officers:** Lottie Morehead, Pres.-Sec.-Mgr., Pioneerville. **Inc.:** July 1, 1918. **Capital:** 500,000 shares; par value 1 mill; 282,220 shares issued. **Property:** Buckskin group; 13 unpatented claims, Pioneerville dist.; Pioneerville. **Development:** Approximately 1500 ft. of underground workings, the most important of which are two tunnels, one 900 ft. long, and the other 400 ft. long. **Ore:** Lead-silver-gold. **Men employed:** Average, 2. **Remarks:** A small amount of development work has been carried on throughout the year.

**GOLD DREDGING & POWER CORPORATION**

**Office:** 615 Empire Bldg., Boise. **Officers:** S. K. Atkinson, Pres.-Mgr.; W. A. Buis, Sec.; both of Boise. **Inc.:** Jan. 30, 1922. **Capital:** 1,500,000 shares; par value \$1; 920,000 shares issued. **Property:** 163 patented, 7 unpatented claims, Placerville district; Centerville. **Plant:** Steam-driven Risdon dredge, 4-cu.-ft. buckets close-connected, wooden hull. **Ore:** Placer gold. **Men employed:** Average, 18. **Remarks:** Construction of the dredge was completed and operations started in May. The dredge continued operations throughout the summer months and was closed down for the winter when freezing weather set in.

**GOLDEN SEAL MINING & MILLING CO.**

**Office:** 913 Idaho St., Boise. **Officers:** E. K. Lorimer, Pres.-Mgr.; Geo. L. Fleharty, Sec.; both of Boise. **Inc.:** Oct. 28, 1924. **Capital:** 1,000,000 shares; par value 25c; 859,628 shares issued. **Property:** 12 unpatented claims, unorganized district, Dry Creek; Boise. **Development:** By 3 tunnels; No. 1, 385 ft. long; No. 2, 100 ft. long; No. 3, 140 ft. long. **Ore:** Lead-zinc-silver. **Men employed:** Average, 5. **Remarks:** A small amount of work was done during the summer months, the largest part of which included a tunnel, which was being driven under contract. The contractors furnished and installed a small gas-driven compressor and mining equipment.

**GOLD HILL & IOWA MINES CO.**

**Office:** 605 Overland Bldg., Boise. **Officers:** James H. Hawley, Jr., Mgr., Boise. **Inc.:** June 10, 1908. **Capital:** 200,000 shares; par value \$10; 194,622 shares issued. **Property:** Gold Hill & Iowa groups; 19 patented, 26 unpatented claims, Quartzburg dist.; Quartzburg. **Development:** 600-ft. 3-compartment vertical shaft and approximately 30,000 ft. of underground workings. **Plant:** MINE: 52 h. p. hoist and 452 cubic ft. compressor, both electrically driven. MILL: 150-ton, including crusher, rolls, Hardinge ball mill, amalgamating plates, concentrating tables, regrinding tube mill and cyaniding of concentrates in Pachuca tanks, zinc box precipitation. **Ore:** Gold. **Remarks:** This property was first located in 1863, since which time it has been in practically continuous operation with a production record of approximately \$8,000,000, half of which was produced during the last 15 years. Idle throughout the year.

**HALLEY PLACER CO.**

**Office:** Placerville. **Officers:** E. F. Blain, Mgr., 1601 N. 12th St., Boise. **Inc.:** An association. **Property:** Halley Placers; 7 unpatented placer claims, Placerville dist.; Placerville. **Remarks:** Annual labor only.

**HYDRAULIC GOLD MINES, INC.**

**Office:** 1418 Terry Avenue, Seattle, Wn. **Officers:** Frank C. Fox, Pres.-Mgr., B. A. Goodman, Sec., both of Seattle. **Inc.:** Apr. 28, 1926. **Capital:** 125,000 shares, par value \$1, shares issued unknown. **Property:** Meadow Creek placers, 8 unpatented claims, held under lease and option; Idaho City.

**IDAHO DEVELOPMENT CO.**

**Office:** 605 Overland Bldg., Boise. **Officers:** Wendell H. Marden, Pres., Boston; James H. Hawley, Jr., Mgr., Boise. **Inc.:** Dec. 16, 1920. **Capital:** 1000 shares; par value \$10; all shares issued. **Property:** Edna group; 2 patented, 8 unpatented claims, Banner dist.; Idaho City. **Development:** Principally by one tunnel 600 ft. long. **Plant:** Partly dismantled 100-ton mill. **Ore:** Silver.

**IDAHA GOLD MINING CO.**

**Office:** Valley City, N. Dak. **Officers:** S. A. Zimmerman, Pres., Valley City, N. D.; S. M. Ballard, Mgr., Placerville. **Inc.:** Jan. 3, 1919. **Capital:** 2,000,000 shares; par value 25c; 1,228,000 shares issued. **Property:** Bel-

shazzar group, 16 unpatented claims, Quartzburg district; Quartzburg. **Development:** Principally by one tunnel which is 3000 ft. long; total development, over 6000 ft. **Plant:** 25-ton amalgamation mill, electrically driven compressor, complete mining equipment and camp. **Ore:** Gold. **Men employed:** Average, 18. **Remarks:** Active throughout the year. The mill was operated for about 8 months. Stock assessments were levied during the year.

#### INDEPENDENT MINES SYNDICATE

**Office:** 22 Mount Morris Park West, New York City. **Officers:** Geo. H. Cochran, Pres., New York; Stanley G. Smith, Mgr., Owyhee Hotel, Boise. **Inc.:** Common Law Trust. **Capital:** 1000 shares; par value \$100; 780 shares issued. **Property:** Independent group; 14 unpatented claims, Pioneer-ville dist.; Pioneer-ville. **Development:** By 3 tunnels and 2 short shafts; No. 1, 200 ft. long; No. 2, 300 ft. long; No. 3, 720 ft. long. **Ore:** Gold, lead-silver-zinc. **Men employed:** Average, 2. **Remarks:** Active throughout the year.

#### IRON DYKE MINES CO.

**Office:** 402 Empire Bldg., Boise. **Officers:** S. T. Schreiber, Pres.-Mgr., Boise. **Inc.:** April 16, 1923. **Capital:** 150,000 shares; par value \$1; 100 shares issued. **Property:** Iron Dyke group; 2 patented, 18 unpatented claims, unorganized dist.; Barber. **Development:** 2 tunnels: No. 1, 25 ft. long; No. 2, 20 ft. long. **Ore:** Gold, silver-lead.

#### MINERAL MINING CO.

**Office:** Placerville. **Officers:** A. C. Gallupe, Pres.-Treas.; E. A. Gallupe, Sec.; both of Placerville. **Inc.:** Feb. 6, 1920. **Capital:** 2,500,000 shares; par value 6c; 2,300,000 shares issued. **Property:** Enterprise and Smuggler groups; 12 patented, 21 unpatented claims; Enterprise group held under lease and bond from Exta Lightfoot, Pioneer-ville; Pioneer-ville dist.; Pioneer-ville. **Development:** Approximately 8,000 ft. of underground workings. **Plant:** MINE: 25 h. p. steam driven hoist, complete mining equipment. MILL: 100-ton concentrator. **Ore:** Lead-silver-zinc. **Men employed:** Average, 20. **Remarks:** The mill was completed and operations started in October. A small tonnage of concentrate was marketed.

#### MISSOURI MINING CO., LTD.

**Office:** Pioneer-ville. **Officers:** Homer E. Howard, Pres., Ezra E. Howard, Sec., both of Pioneer-ville. **Inc.:** Feb. 4, 1914. **Capital:** 50,000 shares; par value \$1; on June 1, 1925, capitalization was increased to 1,000,000 shares, par value \$1; 50,000 shares issued. **Property:** 12 unpatented claims, Pioneer-ville dist.; Pioneer-ville. **Development:** Approximately 450 ft. of underground workings. **Ore:** Lead-silver-zinc. **Men employed:** Average, 1. **Remarks:** A small amount of work was done during the year.

#### MONETARY METALS CO.

**Office:** 615 Empire Bldg., Boise. **Officers:** Frank E. Johnesse, Pres.-Mgr.; W. A. Buis, Sec., both of Boise. **Inc.:** March 21, 1921. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** Washington and Subrosa groups; 4 patented, 14 unpatented claims, Gambrius dist.; Idaho City. **Development:** Total development, approximately 11,780 feet, the principal part of which is the main crosscut tunnel 3700 feet long, which intersects the bottom of a vertical shaft 414 ft. deep, near the bottom of which is a winze 150 feet deep. **Plant:** MINE: Diesel oil engine driving a 480 cu. ft. compressor, and complete mining equipment. Saw mill, modern boarding and bunk houses, change house and complete camp. **Ore:** Silver-gold. **Men employed:** Average, 21. **Remarks:** Active development work was maintained until October, at which time all underground work was suspended.

**NATIONAL HYDRAULIC MINES CO.**

**Office:** Manitou Hotel, Boise. **Officers:** Albert E. Small, Pres., Manitou Hotel, Boise; D. E. Beatty, Sec., Boise. **Inc.:** Sept. 7, 1921. **Capital:** 1,000,000 shares; par value \$1; 354,648 shares issued. **Property:** 11 unpatented placer claims, 1414 acres on Moore's Creek, Idaho City dist.; Idaho City. **Plant:** Three No. 2 and No. 1 giants; 3000 ft. of pipe line and complete hydraulic equipment. **Remarks:** Annual labor only.

**OX-BOW MINING CO., LTD.**

**Office:** 24 White Memorial Bldg., Syracuse, N. Y. **Officers:** P. R. Dishaw, Pres.; J. D. Crimmins, Sec.; both of Syracuse. **Inc.:** July 10, 1925. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** Ox-Bow placer group, 7 unpatented claims, Summit Flat district; Lowman. **Ore:** Placer gold. **Remarks:** The secretary of the company stated: "This project has for its object the recovery of the placer gold contained in about 12,000 feet of the river bed, which is laid bare by diverting the entire river thru a tunnel 1,200 feet long which cuts thru the mountains at a point where the river forms a hairpin curve."

**REID PLACERS**

**Officers:** E. S. Robinson, Mgr., Placerville. **Property:** 23 unpatented placer claims. **Plant:** 2000 ft. of pipe line; No. 3 giant and complete hydraulic equipment. **Ore:** Placer gold. **Remarks:** Annual labor only.

**ROSARIAN MINERALS & POWER CO.**

**Office:** 234 Sonna Bldg., Boise. **Officers:** H. T. Hartman, Pres.-Mgr., Boise. **Inc.:** Sept. 19, 1924. **Capital:** 500,000 shares; par value \$1; 18 shares issued. **Property:** 8 unpatented claims; Idaho City.

**SOUR DOUGH PLACER CO.**

**Officers:** J. W. Johnson, Pres.; D. W. Zent, Sec., both of Boise. **Inc.:** March 11, 1926. **Capital:** 100,000 shares, par value \$1; 52,000 shares issued. **Property:** Hagerman group, 2 unpatented placer claims, unorganized district.

**WASHOE MINING CO.**

**Office:** 605 Overland Bldg., Boise. **Officers:** James H. Hawley, Jr., Mgr., Boise. **Inc.:** Dec. 16, 1911. **Capital:** 100,000 shares; par value \$1; all shares issued. **Property:** Banner group; 7 patented, 15 unpatented claims, Banner dist.; Idaho City. **Development:** 2 tunnels, the principal one of which is 4000 ft. long. **Plant:** 30-ton mill, tables and flotation. **Ore:** Silver. **Remarks:** Idle.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Adonis	Unknown	Herman Schultz	Boise
Alameda	Unknown	Wm. S. Bella	Boise
Alpine Gr.	Alpine	J. T. C. Harrington	Nampa
American Girl Gr.	Gambrinus	Louise D. Stewart	Boise
Annie Lee	West View	Chas. Smith	Horseshoe Bend
Argonne	Granite Creek	Fred C. Brown	Boise
Argonne Forest	Gambrinus	H. Mauernhamer	Boise
Ashcroft Pl.	Placerville	H. Ashcroft	Placerville
Banner	Banner	V. A. Thorn	Idaho City
Atlas	Unknown	J. F. Thompson	Horseshoe Bend
Beaver Cr. Pl	Banner	J. D. Demming	Idaho City
Belmont Gr.	Quartzburg	Murty Driscoll & F. Daly	Quartzburg
Big Ben	Centerville	Frank H. Cooper	Boise
Blackbird	Pioneerville	Exta Lightfoot	Pioneerville
Blackbird et al	Cold Springs	Anderson & New- brand	Idaho City

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Black Crook Gr.	West View	Bincord Realty Co.	Denver, Colo.
Black Jack	Summit Flat	Jerry Dowling	Idaho City
Bluebird et al.	Banner	G. R. Moland	Boise
Blue Jet Pl.	Centerville	Archie R. Koppes	Centerville
Blue Grouse	Unknown	Thos. C. Mayne	Idaho City
Blue Ribbon Gr.	Dry Buck	Lee Davis	Horseshoe Bend
Blue Rock	Quartzburg	Allen B. Eaton	Boise
Blue Stone	Idaho City	Henry Halsmeier	Idaho City
Boston Girl	Placerville	Wm. W. Thorn	Centerville
Boulder Gr.	Elk Horn	Patrick Moriarty	Idaho City
Boundary	Dry Buck	Lee Davis	Horseshoe Bend
Buffalo Gr.	Elk Creek	Frank Cooper	Boise
Bull Durham Pl.	Boise River	I. I. Youngblood	Boise
Bummer Hill	Quartzburg	H. C. Granger	Centerville
Calumet	West View	G. Faull	Horseshoe Bend
Cash Register	Placerville	Frank H. Cooper	Centerville
Catherine	Placerville	Pat H. Quirk	Boise
Chance Gr.	Pioneerville	W. H. Van Meter	Elks' Club, Boise
Claude Marsh	Summit Flat	Edward Brisbin	616 S. 17th St., Boise
Clay Gulch	Placerville	J. T. Blair	Centerville
Clear Cr. Pl.	Pioneerville	J. A. Adams	Pioneerville
Cleopatra et al.	Pioneerville	Skidmore & Mc-Donald	Pioneerville
Climax	Banner	Chris Smith	Idaho City
Cold Springs	Idaho City	O. F. Sibley	Boise
Coon Dog	Pioneerville	C. C. Fairchild	Placerville
Deer Horn Pl.	Gambrinus	Joe Elliott	Idaho City
Dew Drop	Centerville	Warren J. Cooper	Centerville
Dog Tooth	Quartzburg	Allen B. Eaton	Boise
Edna	Banner	F. A. Willson	Idaho City
Eldorado Gr. Pl.	Banner	Harold Rowland	Nampa
Elkhorn	Gambrinus	Lippincott & Warner	Idaho City
Elkmeat	Idaho City	Chas. E. Clark	Soldiers' Home Boise
Etta B. Gr.	Placerville	Robt. S. Bunch	Centerville
Eureka Gr.	Gambrinus	Mrs. P. J. Hall	Boise
Fall Creek	Placerville	Albert Elster	Placerville
Franklin	Idaho City	H. A. Schlosser	Idaho City
Gambrinus	Gambrinus	V. A. Thorn	Idaho City
Gem of the Mts.	Placerville	C. C. Fairchild	Idaho City
Golconda	Idaho City	B. F. Kloppenburg	Idaho City
Gold Coin	Gambrinus	M. L. Phelps	Idaho City
Gold Dollar	Summit Flat	James H. Hawley	Boise
Gold Lodge Pl.	Idaho City	Henry Halsmeier	Idaho City
Golden Seal	Unorganized	Jas. Curtin	905 Idaho St., Boise
Goodenough Pl.	Idaho City	Jas. King	Idaho City
Gornick Pl.	Pioneerville	Joe Gornick	Pioneerville
Grant Gr.	Idaho City	John Jamieson	Idaho City
Great Western	Gambrinus	J. W. Duquette	Idaho City
Grooms Pl.	Payette River	James L. Tyson	Banks
Hamilton Pl.	Pioneerville	Ezra E. Howard	Pioneerville

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Hard Times	Unorganized	C. M. Hunt	Twin Springs
Hay Fork	Moore Creek	H. R. Jarvis	Idaho City
Hidden Treasure	Pioneerville	J. D. Branson	Pioneerville
Highland Valley	Barber	P. J. Smith	Barber
Hilltop	Quartzburg	Louis Klein	Grand Hotel, Boise
Hilltop	West View	L. C. Hall	Horseshoe Bend
Hogem	Pioneerville	C. R. Poncia	Pioneerville
Homestake	Summit Flat	Joe Labbee	Idaho City
Honey Bee	Shaw Mountain	Elmer Gettys	Boise
Hooch Can Gr.	Pioneerville	J. O. McDonald	Pioneerville
Hoodoo Pl.	Pioneerville	C. R. Poncia	Pioneerville
Idaho Pl.	Idaho City	James Farrell	Idaho City
Illinois	Idaho City	Abraham Duquette	Idaho City
I. X. L. Pl.	Pioneerville	P. J. Shaughnessy	Pioneerville
J. S. Gr.	Pioneerville	A. E. Anderson	Garden Valley
K. C. Fraction	Pioneerville	Damien Ader	Pioneerville
Kentuck	Placerville	John Golden	Centerville
King Lead Gr.	Pioneerville	A. E. Yoder	Pioneerville
Kirkham	Banner	Ira R. Cromwell	Idaho City
K. M. Gr.	Cold Springs	M. Marchmonte	Idaho City
Last Chance et al	Quartzburg	Frank Daly	Quartzburg
Leary & Brogan	Placerville	Michael Leary	Placerville
Long Chance	Shaffer Creek	R. C. Hall	Horseshoe Bend
Lucky Boy Gr.	Gambrinus	Lucky Boy Mining Assoc.	Idaho City
Mamie Pl.	Summit Flat	S. Frank Smith et al	Idaho City
Mammoth	Pioneerville	Nelson Bottcher	Idaho City
Mary Lou	Elk Horn	Garrecht & Camp- bell	Idaho City
Mascot	Pioneerville	Mrs. Cora Banwell	Pioneerville
May Flour	Gambrinus	John McCarthy	Idaho City
Mayflower	Quartzburg	Stephen Mackin	Placerville
Nally Placers	Pioneerville	Stephen Nally	Pioneerville
New Era Gr.	Pioneerville	Jos. Gornick	Pioneerville
New York	Gambrinus	D. R. Morgan	Idaho City
Nighthawk	Pioneerville	John Miller	Pioneerville
Olympia	Summit Flat	Mary Berry	701 E. Jefferson St., Boise
Ophir & Ophir 2	Pioneerville	Peter Reichert	Pioneerville
Orofino	Elkhorn	Janette Jordan	San Francisco, Cal.
Oxbow Gr. Pl.	Grimes Pass	Mary L. Bunch et al	Boise
Paul's Gulch et al.	Pioneerville	Andrew Hansen	Pioneerville
Pioneer	Quartzburg	P. J. Evans	Quartzburg
Poor Man	Willow Creek	J. J. Shanahan	Idaho City
Pot Latch	Pioneerville	Sherman O. Barker	Grimes Pass
Printer	Idaho City	Amelia Garrecht	Idaho City
Queen of the Mts.	Rock Creek	James E. Fox	Boise
Riley & Farren	Placerville	J. J. Brogan	Placerville
Riverside	South View	Robt. W. Clarke	Horseshoe Bend
St. Clair Gr.	Pioneerville	Damien Ader	Placerville
Saunders	Placerville	W. F. Hiatt	Placerville
Seventeen Pl.	Placerville	Lee Bunch	Boise
Shamrock	Summit Flat	Mrs. E. W. Barry	Boise
Silver Bell	Placerville	W. F. Hiatt	Placerville

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Sniveley Pl.	Centerville	H. C. Granger	Centerville
Sourdough	Summit Flat	J. D. Smith	Idaho City
Standby Pl.	Placerville	August Michelson	Beaverton, Ore.
Stanton Gulch	Placerville	John Stanton	Placerville
Sunny Day Gr.	Alpine	E. R. Swindler	Banks
Sunrise Pl.	Placerville	Nellie T. Wood et al	Boise
Swede Gulch et al	Pioneerville	Carlo Poncia	Centerville
Terry Gr.	Willow Creek	J. T. Blair	Centerville
Trader	Idaho City	J. H. Eggars	Idaho City
Tuxedo Pl.	Boise River	C. J. Schooler et al	Boise
Venture	Unorganized	John Benzer	Hailey
Windfall	Pioneerville	Robt. D. Aikens	Boise

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## BONNER COUNTY

Bonner constitutes an important part of the Idaho Panhandle and is one of the extreme northern counties. It is bounded on the east by the State of Montana, and on the west by the State of Washington; Boundary County adjoins it on the north, and Kootenai and Shoshone counties on the south. It contains an area of 1748 square miles and was accredited with a population of 12,957 in the 1920 census. The principal industries are lumbering, mining, stock raising, and agriculture. Although the county is recognized as one of the important mining counties of the State, the proportion of the population that is interested in mining is very small.

The county is exceptionally fortunate with respect to transportation facilities, as it is served by two State highways, lake boats, and three trans-continental railroads. Boats that can reach any point on Lake Pend d'Oreille give connection with the railroads at Sandpoint and Bayview.

Practically all the mining has been devoted to the areas adjacent to Pend d'Oreille and Priest lakes and the Clark Fork River. However, mining locations are numerous and widely scattered throughout the county. The mining history of the county dates back to the discovery of silver ores near Lakeview in 1888, which resulted in a stampede from the Coeur d'Alene district. Since that time there has always been a small amount of mining, but the county did not attract attention in recent years until the Talache mine was a proved and successful operation. The Talache has been a big factor in drawing attention to the mineral possibilities and prospecting opportunities of the county, resulting in a large increase in mining activities during the past few years.

The principal minerals are those of silver, lead, copper, zinc, and gold. These metals, and the limestone quarried near Lakeview, constitute the chief mineral resources. Silver is the most widely distributed metal and constitutes the most important part of the ores.

Talache Mines, Inc., continues to be the largest operator and producer in the county. The shaft was sunk an additional hundred feet, intermediate drifts and raises were run on the vein, and a large tonnage of ore was produced and marketed during the year. The mine is now opened to a vertical depth of 1400 feet and is one of the largest mines in the State whose ores are primarily silver.

During the year the proven ore bodies were exhausted, and as a large amount of development work failed to find additional ore, operations were suspended on October 31, 1926. The management contemplates moving its organization and equipment to another mine.

The quarry of the International Portland Cement Co., Ltd., is the second largest mining operation. This company's mine and plant are the most important of their kind in the State. A large tonnage of lime rock was produced and shipped to Spokane, Wn., where it is used in the manufacture of Portland cement.

The Hewer Mining Co. was reorganized as the Idaho Hewer Mines, Inc., in April, after which an active mine development campaign was maintained during the remainder of the year. This work consisted of sinking the shaft to a total depth of 500 feet and drifting on the vein at the lower level. A substantial showing of new ore was opened by this work.

The Clark Fork and Cabinet sections witnessed an increase in mining operations and shipments over that of the previous year. The Elsie K. mine was operated by lessees, who shipped a few cars of high-grade lead-silver ore. The Lawrence Consolidated Mining Co. was more active and produced a small amount of ore. In addition to these in the Clark Fork section, the



Clarinda Copper Mining Co. was active, and the new lead-silver discovery which was incorporated as the Whitedelf Mining & Development Co. proved to be one of the most important new discoveries in the State. This vein was exposed by the uprooting of a tree in a storm. Subsequent development work by the owners and lessees exposed a large amount of ore, and a substantial tonnage of high-grade lead-silver ore was produced and marketed. The work done by prospectors in developing their properties exceeded the usual amount; so as a whole these sections experienced a good year.

Prospectors and the small development companies in the Priest Lake district were more active than in the past year. Many of them increased the amount of work usually performed, and there was a slight increase in the search for new veins.

This opportunity is again taken to call attention to the correct spelling of the word, Pend d'Oreille. For some unknown reason, the United States Geographic Board in 1895 adopted the form Pend Oreille, and it has been so spelled since then by Webster's New International Dictionary, Funk & Wagnalls New Standard Dictionary, and the United States Geological Survey. The legal and historical spelling of the word is Pend d'Oreille.

#### **AMERICAN EAGLE MINING CO.**

**Office:** Sandpoint. **Officers:** R. A. Martin, Pres., Martinsdale, Mont.; H. L. Thomason, Sec.; James A. Evans, Mgr., both of Sandpoint. **Inc.:** May 28, 1919. **Capital:** 10,000 shares; par value \$100; 644 shares issued. **Property:** American Eagle group; 7 unpatented claims, Pend d'Oreille dist., Sandpoint. **Development:** 1 tunnel, 1700 ft. long which is principally a drift on the vein. **Ore:** Lead-silver. **Remarks:** A small amount of development work during the year.

#### **APEX MINING CO.**

**Officers:** John Amby, Pres., Sandpoint; C. W. Herr, Sec., Priest River. **Inc.:** Form of organization unknown. **Property:** 8 unpatented claims, Priest Lake district; Priest River. **Development:** By one tunnel 150 feet long.

#### **ARGUS MINING CO.**

**Office:** Cleveland, Ohio. **Officers:** Daniel Myers, Pres., Athletic Club; George B. Hoyt, Sec., Williamson Bldg., Cleveland, Ohio. **Inc.:** April 20, 1917. **Capital:** 800,000 shares, par value \$1; 500,000 shares issued. **Property:** Argus group; 5 unpatented claims, Lakeview dist.; Lakeview. **Development:** 4 tunnels, totaling approximately 800 ft. in length. **Ore:** Lead-silver. **Remarks:** Annual labor only.

#### **AUXER GOLD MINES CO.**

**Office:** Hope. **Officers:** James Campbell, Pres.-Mgr., Hope. **Inc.:** June 24, 1920. **Capital:** 500,000 shares; par value \$1; 330,000 shares issued. **Property:** Boston group; 9 unpatented claims, Pend d'Oreille dist.; Hope. **Development:** Approximately 1300 ft. of underground workings, the principal one of which is a tunnel 530 ft. long. **Plant:** Steam driven 6x7 I-R compressor. **Ore:** Gold. **Remarks:** Annual labor only.

#### **BRITANNIA MINING CO.**

**Office:** Priest River. **Officers:** C. E. Collier, Pres., Spokane, Wash.; M. W. McLean, Sec.-Mgr., Priest River. **Inc.:** Nov. 8, 1912. **Capital:** 1,000,000 shares; par value \$1; 770,000 shares issued. **Property:** Britannia group; 10 unpatented claims, Priest Lake dist.; Priest River. **Development:** Approximately 900 ft. of underground workings. **Ore:** Gold. **Remarks:** Under development by the owners.

#### **CAMP BIRD MINING & DEVELOPMENT CO.**

**Office:** Sandpoint. **Officers:** J. W. Lloyd, Pres.-Mgr., 903 Knox Ave., Spokane, Wash.; E. E. Boles, Sec., Sandpoint. **Inc.:** Aug. 21, 1911. **Capital:**

1,500,000 shares; par value \$1; 1,300,000 shares issued. **Property:** Camp Bird group; 4 patented, 3 unpatented claims, Priest Lake dist.; Priest River. **Development:** 2 tunnels; No. 1, 750 ft. long; No. 2, 150 ft. long. Vertical distance between tunnels, 350 ft. **Ore:** Lead-silver. **Remarks:** Annual labor only.

#### CARPIE MINING CO.

**Office:** Cabinet, Idaho. **Officers:** J. W. Powell, Pres.-Mgr.; I. E. Martin, Sec., both of Cabinet. **Inc.:** An association. **Capital:** 750,000 shares; par value \$1; 370,000 shares issued. **Property:** Carpie group; 4 unpatented claims, Pend d'Oreille dist.; Cabinet. **Development:** By a vertical shaft 300 ft. deep, in which are 5 levels. **Plant:** Steam driven hoist and small Sullivan compressor. **Ore:** Copper. **Remarks:** Annual labor only, since April, 1921.

#### CLARINDA COPPER MINING CO.

**Office:** 50 Broad St., New York City. **Officers:** John P. Delaney, Pres., New York City; Compton I. White, Secretary-Manager, Clark Fork. **Inc.:** July 30, 1920. **Capital:** 1,500,000 shares; par value \$1; 335,508 shares issued. **Property:** 9 unpatented claims, Pend d'Oreille district; Clark Fork. **Development:** By five tunnels, the longest of which is No. 5, totaling 2100 ft. in length. **Plant:** Electrically driven compressor and complete mining equipment. **Ore:** Copper. **Men employed:** Average, 2. **Remarks:** A small amount of work during the year.

#### COPPER GIANT MINING CO.

**Office:** Clark Fork. **Officers:** W. W. VonCannon, Pres., Sandpoint; Miss H. F. Thibadeau, Sec.-Treas., Clark Fork. **Inc.:** Oct. 10, 1908. **Capital:** 1,500,000 shares; par value \$1; 1,200,000 shares issued. **Property:** Copper Giant group; 5 patented claims, Pend d'Oreille district; Clark Fork. **Development:** Approximately 1300 ft. of underground workings. **Plant:** 10x10 electrically driven I-R compressor. **Ore:** Copper-gold. **Remarks:** Idle throughout the year.

#### EMPIRE TUNGSTEN MINING CO.

**Office:** 1911 Sherman Ave., Evanston, Ill. **Officers:** Frank G. Forbes, Pres.; George S. Smith, Sec., both of Evanston, Ill. **Inc.:** March 20, 1914. **Capital:** 1,500,000 shares; par value 1c; all shares issued. **Property:** Rainbow; 1 patented claim, Lakeview dist.; Lakeview.

#### GOAT MOUNTAIN GOLD MINING CO.

**Officers:** 414 Ziegler Blk., Spokane, Wn. **Officers:** Charles H. Wolfe, Pres.-Mgr., L. Franklin, Sec., both of Spokane. **Inc.:** April 26, 1926. **Capital:** 1,500,000 shares; par value 10c; shares issued, none. **Property:** Goat Mountain group, 12 unpatented claims, Pend d'Oreille district; Clark Fork. **Development:** By 2 tunnels; No. 1, 150 ft. long; No. 2, 814 ft. long. **Ore:** Lead-silver.

#### GREEN MONARCH MINING & MILLING CO., LTD.

**Office:** Sandpoint. **Officers:** L. H. Jeannot, Pres.-Mgr., Dixon, Mont.; Peter Johnson, Sec., Sandpoint. **Inc.:** July 3, 1905. **Capital:** 1,500,000 shares; par value \$1; 1,408,666 shares issued. **Property:** 11 unpatented claims, Pend d'Oreille dist.; Hope. **Ore:** Copper.

#### HAYO MINING & MILLING CO.

**Office:** Priest River. **Officers:** John Hamberg, Pres.-Mgr.; W. R. Hamberg, Sec., both of Priest River. **Inc.:** June 21, 1923. **Capital:** 3,000,000 shares; par value, 10c; no shares issued. **Property:** 6 unpatented claims, Priest Lake dist.; Priest River. **Development:** By 2 tunnels, with a total development of 90 ft. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**IDAHO HEWER MINES, INC.**

**Office:** 502 Columbia Bldg., Spokane, Wash. **Officers:** D. M. Drumheller, Pres.-Mgr.; H. O. Kent, Sec.; both of Spokane. **Inc.:** April 10, 1926. **Capital:** 2,000,000 shares; par value 1c; 1,497,986 shares issued. **Property:** Venzwela group; 4 patented, 11 unpatented claims; 8 of which are held under lease and option. **Development:** Total development approximately 6500 ft.; principally by 1 tunnel 2200 ft. long, in which is an inclined shaft 500 ft. deep. **Plant:** MINE: I-R gas-driven compressor; 8½x10 Ottumwa hoist and complete mining equipment. **MILL:** 100-ton concentrator, fine grinding and flotation; driven by a semi-Deisel oil engine. **Ore:** Silver-lead-zinc. **Men employed:** Average, 25. **Remarks:** Active development work was maintained throughout the year, the principal part of which consisted in sinking the inclined shaft, from the bottom of which drifts were run on the vein. The mill was operated a few days and concentrates marketed. This company is a reorganization of the Hewer Mining Co. The money expended in the development work was derived from stock assessments. The shaft was extended approximately 300 ft. deeper, and about 1000 ft. of drifting was done during the year. The development work exposed two new ore bodies.

**INTERNATIONAL PORTLAND CEMENT CO., LTD.**

**Office:** 1124 Old National Bank Bldg., Spokane, Washington. **Officers:** R. K. Neill, President, Spokane, Washington; John P. Hartman, Secretary, Seattle, Washington. **Inc.:** Filed in Idaho, September 9, 1911. **Capital:** 30,000 shares; par value \$100; 27,233 shares issued. **Property:** 8 patented, 1 unpatented claim, 790 acres, near Bayview. **Development:** Open quarry. **Ore:** Limestone. **Remarks:** This company mines all of the limestone used in a cement-manufacturing plant near Spokane, Wn. The quarry was operated throughout the year and a large tonnage of rock was mined. It is the largest operation of its kind in the State.

**KANIKSU MINING CO.**

**Office:** 302 Paulsen Bldg., Spokane. **Officers:** J. W. Lloyd, Pres.; Dr. Earl H. Current, Sec., both of Spokane, Wash. **Inc.:** Sept. 16, 1922. **Capital:** 100,000 shares; par value \$1; 98,460 shares issued. **Property:** Wood Rat group; 5 unpatented claims, Priest Lake dist.; Priest River. **Development:** By a vertical shaft 350 ft. deep. **Plant:** Steam driven hoist and complete hand mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 6. **Remarks:** Active development work throughout the year, the principal part of which was extending the shaft to a depth of 300 ft.

**KEEP COOL MINING CO.**

**Office:** P. O. Box 2181, Spokane, Wash. **Officers:** T. S. Griffith, Pres.; R. In singer, Sec., both of Spokane, Wash. **Inc.:** June 16, 1922. **Capital:** 1,500,000 shares; par value 5c; 1,018,167 shares issued. **Property:** Keep Cool group; 4 patented claims, Lakeview dist. Lakeview. **Ore:** Lead-silver.

**LAWRENCE CONSOLIDATED MINING CO.**

**Office:** Clark Fork. **Officers:** R. B. Ewing, Pres., R. F. D. 2, Palouse, Wash.; N. B. Hunsperger, Sec., Palouse, Wash.; Joseph Reed, Mgr., Clark Fork. **Inc.:** March 3, 1923. **Capital:** 1,500,000 shares; par value 1c; 977,194 shares issued. **Property:** Lawrence group; 12 unpatented claims, Pend d'Oreille dist.; Clark Fork. **Development:** 5 tunnels, the principal one being 1240 ft. long; approximate total development 4682 ft. **Plant:** MINE: Water driven compressor; complete mining equipment. **MILL:** 50-ton concentrator; crushers, 2 set rolls, 2 jigs, 3 tables. **Ore:** Lead-silver. **Men employed:** Average, 4. **Remarks:** This company is a reorganization of the Lawrence Mining & Milling Co., Ltd. The mine was operated throughout the year and a small tonnage of high grade ore was produced and marketed. The money expended was derived from stock assessments.

**LUCKY ABE MINING CO.**

**Office:** Priest River. **Officers:** Abe Johnson, Pres., Opportunity, Wash.; F. F. Nelson, Sec., Priest River. **Inc.:** March 1, 1916. **Capital:** 1,000,000 shares; par value 10c; approximately 76,000 shares issued. **Property:** Lucky Abe group; 6 unpatented claims, Priest Lake dist.; Coolin. **Development:** By 2 tunnels, each of which is approximately 175 ft. long. **Ore:** Lead-silver. **Remarks:** A small amount of work was done during the year.

**LUCKY STRIKE MINING CO.**

**Office:** Clark Fork. **Officers:** W. W. Webb, Pres.-Mgr., Clark Fork. **Inc.:** Oct. 25, 1913. **Capital:** 1,000,000 shares; par value \$1; 179,325 shares issued. **Property:** Lucky Strike group; 6 unpatented claims, Pend d'Oreille dist.; Clark Fork. **Development:** 2 tunnels: No. 1, 55 ft. long; No. 2, 250 ft. long. **Plant:** Gardner-Ricks gas-driven compressor. **Remarks:** Annual labor only.

**MAJOR LODE MINING CO.**

**Office:** Priest River. **Officers:** John Hamberg, Pres.-Mgr.; E. W. Knack, Sec., both of Priest River. **Inc.:** An association. **Property:** Major Lode group, 6 unpatented claims, Priest Lake dist.; Priest River. **Development:** By 4 short tunnels. **Ore:** Lead-silver.

**OPPORTUNITY MINING CO.**

**Office:** 406 Eiler Bldg., Spokane, Wash. **Officers:** N. A. Kranz, Pres., Spokane, Wash.; M. R. Odegaard, Sec., E. 607 Twenty-fifth Ave., Spokane, Wash. **Inc.:** Aug. 18, 1919. **Capital:** 1,500,000 shares; par value 5c; 644,654 shares issued. **Property:** 5 unpatented claims, Pend d'Oreille dist.; Sagle. **Development:** Approximately 1700 ft. of underground workings, consisting of 6 tunnels and 5 shafts. **Plant:** Steam driven compressor, complete mining equipment and camp. **Ore:** Lead-silver. **Men employed:** Average, 1. **Remarks:** Property under lease to one lessee, who was active throughout the year.

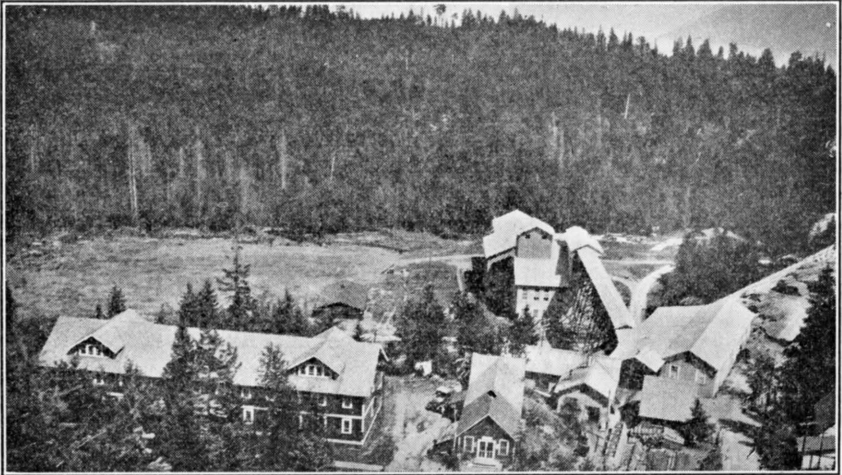
**SILVER MOUNTAIN MINING CO.**

**Office:** Sandpoint. **Officers:** John T. Elsasser, Mgr., Sandpoint. **Inc.:** July 24, 1909. **Capital:** 1,500,000 shares; par value \$1; 1,305,000 shares issued. **Property:** Silver Mountain group; 6 unpatented claims, Priest Lake dist.; Priest River. **Development:** 2 tunnels: No. 1, 400 ft. long; No. 2, 625 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**TALACHE MINES INC.**

**Office:** Talache. **Officers:** A. H. Burroughs, Jr., Pres.-Mgr.; J. M. Hector, Sec.; both of Talache. **Inc.:** April 21, 1917, as Armstead Mines, Inc.; name changed June 8, 1922. **Capital:** 1,600,000 shares; par value \$1; 1,580,232 shares issued. **Property:** Armstead Mine; 18 patented, 44 unpatented claims, Pend d'Oreille dist.; Talache. **Development:** Approximately 34,591 ft. of underground workings, the principal of which are a main haulage tunnel, 3900 ft. long, the main inclined raise 916 ft. long and an inclined shaft 200 ft. long. **Plant:** MINE: 9x10 Hendre-Bolthoff electrically driven geared hoist; 1574 cu. ft., 2 stage I-R type Pre-2 compressor, electrically driven; haulage, G. E. 4-ton storage battery locomotive; buildings, 44 room hotel, 24 residences, compressor house, blacksmith shop, warehouse, cook house, store, dry room and office. **MILL:** 150-ton flotation, 2 stage crushing to  $\frac{1}{2}$  in. fine grinding to 80 mesh, electrically driven. **Ore:** Silver. **Men employed:** Average, 83. **Remarks:** This property was one of the principal silver producing mines in the State. The company marketed a large tonnage of high-grade silver concentrates, and did an extensive amount of mine development work during the year, the principal part of which consisted of sinking the in-

clined shaft from the 1200-ft. level to the 1400-ft. level, from which intermediate drifts on the vein were run. The company maintains an excellent mining organization under the intelligent and competent management of A. H. Burroughs, Jr. The mine, mill, and camp are fully described and illustrated in Silver Mining and Milling at Talache, Idaho, by F. E. Wormser: Eng. and Min. Jour.-Press, vol. 114, pp. 581-585, Sept. 30, 1922, to which the reader is referred. Operations were suspended in October. The management contemplates moving its organization and equipment to another property.



PARTIAL VIEW OF SURFACE PLANT, TALACHE MINES, INC.

**WHITEDELF MINING & DEVELOPMENT CO.**

**Officers:** John P. Delaney, Pres., 50 Broad St., New York; Compton I. White, Mgr., Clark Fork. **Inc.:** March 17, 1926. **Capital:** 100,000 shares, par value \$1; 85,000 shares issued. **Property:** 160 acres of patented land, Pend d'Oreille district; Clark Fork. **Development:** By 3 tunnels, with a total of over 700 feet. **Plant:** Electrically driven compressor, complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 6. **Remarks:** In addition to the work performed by the company, part of the mine was under operation by lessees. A large tonnage of high-grade lead-silver ore was produced and marketed. The discovery of this mine was one of the principal new discoveries during the year, and resulted in attracting much attention and new development work to the Clark Fork section.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Alamo Gr.	Pend d'Oreille	Sam Owen	Hope
Badger	Priest Lake	Clyde Smith	Priest River
Big View	Priest Lake	Leo Gwinn	Priest River
Black Bear	Priest Lake	H. B. Gumaer & C. W. Beardmore	Priest River
Bluebird	Lakeview	Walter Street	Lakeview
Bluebird	Pend d'Oreille	Coleman & Ward	Sandpoint
Bluebird	Priest Lake	Bert Fry et al	Priest River
Bob Cat	Priest Lake	Katherine L. Brown	Priest River

## MINING INDUSTRY OF IDAHO

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Catherine	Pend d'Oreille	F. O. Berg	244 Riverside, Spokane, Wash.
Chloride Queen	Priest Lake	Bert Fry & Al Bogart	Priest River
Comet	Lakeview	Robert Rennie	Lakeview
Commodore	Lakeview	Walter Street	Lakeview
Copper Bell et al	Pend d'Oreille	W. F. Fleming	Clark Fork
Copper King et al	Pend d'Oreille	John Larson	Hope
Copper Prince	Lakeview	J. C. Cranston	Lakeview
Cuban	Priest Lake	Walter Binkley	Priest River
Dearo	Priest Lake	H. B. Gumaer	Priest River
Deer Park et al	Pend d'Oreille	G. M. Walker & A. H. Sweeney	Sandpoint
Dirty Duece	Priest Lake	Wm. Moscript & Wm. Kavanaugh	Priest River
Ella et al	Lakeview	John W. Sheer	Lakeview
Elsie K	Pend d'Oreille	Albert H. Wilson	Clark Fork
Frances B.	Clark Fork	N. B. Hunsperger	Clark Fork
Glasgow	Lakeview	R. C. Henry	Lakeview
Green Horn	Priest Lake	Clyde Smith	Priest River
Hewer 5, 6, 7	Lakeview	D. M. Drumheller	Lakeview
Hog eye et al	Lakeview	W. F. Sharai	Hope
Homestake	Lakeview	Walter Street	Lakeview
Horseshoe	Priest Lake	S. S. Beldon & Andrew Hentschel	Priest River
Imperial	Lakeview	Ralph C. Henry	Lakeview
Last Chance	Priest Lake	Bert Fry et al	Priest River
Lead King	Priest Lake	Bert Fry & Al Bogart	Priest River
Log Cabin	Priest Lake	Chas. Hagenson	Priest River
Lookout 1, 2	Pend d'Oreille	A. E. Erickson et al	Talache
Mammoth 1, 2, 3	Priest Lake	A. B. Wolfe et al	Priest River
Midnight et al	Pend d'Oreille	Beatrice Thibedeau	Clark Fork
Millsite	Priest Lake	Leo Gwinn	Priest River
Mimetite	Pend d'Oreille	Joseph Reed	Clark Fork
Mogul Gr.	Lakeview	E. D. Faust	Lakeview
Moonlight	Lakeview	John P. Flewelling	Sandpoint
Morning Star	Pend d'Oreille	F. S. Hayes	Hope
Panola	Pend d'Oreille	James W. Brocker	Sagle
Ponderosa Gr.	Pend d'Oreille	C. I. White	Clark Fork
Pride of the West	Priest Lake	John Hamberg	Priest River
Prospect Park	Priest Lake	Stewart Coolin	Priest River
Ready Cash	Lakeview	Bruyere & Hanchett	Bayview
Red Horse	Pend d'Oreille	Ed Hammon	Sandpoint
Saddle	Priest Lake	Leo Gwinn	Priest River
Scotchman	Pend d'Oreille	Dr. C. P. Stackhouse	Sandpoint
Silver Crown	Pend d'Oreille	Frank Pival	Hope
Silver King	Priest Lake	Joseph Saccomonno	Priest River
Silver Leaf	Lakeview	Lee L. Smith	Lakeview
Silver Plate	Pend d'Oreille	James W. Brocker	Sandpoint
Silver Star	Pend d'Oreille	C. O. Olsen	Sandpoint
Sunset	Priest Lake	H. B. Gumaer & C. W. Beardmore	Priest River

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
T. Bone	Lakeview	Frank Brown	Lakeview
Tiger et al	Priest Lake	Mrs. James Judge	Priest River
Truee Fisher	Pend d'Oreille	Fred Vogel	Clark Fork
Twilight et al	Pend d'Oreille	C. B. Stuart	Sandpoint
Wellington	Pend d'Oreille	W. F. Sharai	Hope
West Point	Pend d'Oreille	Henry F. Phillips	Clark Fork
Yankee Boy	Pend d'Oreille	Jos. Reed	Clark Fork

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**BONNEVILLE COUNTY**

Bonneville County is bounded on the south by Caribou and Bingham counties, on the west by Bingham County, on the north by Jefferson, Madison, and Teton counties, and on the east by the State of Wyoming. It is one of the principal, as well as one of the largest, southeastern counties; and has an area of 1904 square miles, and population of 17,501 at the time of the 1920 census. The larger part of the population is in the Snake River valley, which occupies all of the western part of the county. The southeastern part, which is occupied by the Caribou Range of the Snake River Mountains, is drained by the South Fork of the Snake River and its tributaries. It is primarily an agricultural county and is noted for its potato and sugar beet industries, particularly potatoes, as it is one of the largest potato shipping points in the United States. Idaho Falls, the largest town, and civic center of the Upper Snake River Valley, is the county seat.

Although recognized only as an agricultural community, this county was once the scene of many active mining operations. This was during the gold rush in the Mt. Pisgah, or Caribou, district at the time placer gold was discovered on McCoy and Gray's creeks. These placers produced a creditable amount of gold, and subsequently a few lode deposits were discovered and exploited. In late years a small dredge was constructed, but this and the deep mines are now idle and the only gold produced is from a few small placer operations.

The principal mineral resources of Bonneville County are gold, phosphate rock, copper, silver, and coal. Many structures favorable to the accumulation of petroleum in commercial quantity are found throughout the southern and eastern parts of the county.

The extensive phosphate beds of southeastern Idaho are exposed over a large area. These, and possibly petroleum, will eventually add to the county's prosperity and put it into the list of important mining counties.

#### IDAHO GOLD MINING CO.

**Office:** 319 Dooly Block, Salt Lake City, Utah. **Officers:** Chas. C. Dey, Pres.; W. A. Wilson, Sec.-Mgr., both of Salt Lake City, Utah. **Inc.:** April 19, 1917. **Capital:** 150,000 shares; par value 10c; 130,026 shares issued. **Property:** Robinson group; 2 patented claims, Mt. Pisgah dist.; Gray. **Ore:** Gold. **Remarks:** Idle for many years.

NAME OF MINE	MINEING DIST.	OWNER	P. O. ADDRESS
American Placer	Mt. Pisgah	W. H. Stocks	Gray
Maine Gr.	Mt. Pisgah	Helmer Ronback, Agt	Gray
Midas et al	Mt. Pisgah	Fred Brenzinger	Gray
Oneida Gr.	Mt. Pisgah	Fred Brenzinger, Agt	Gray
Oneida South	Mt. Pisgah	Miles Schneider, Agt.	Gray
Pisgah Gr.	Mt. Pisgah	Fred Brenzinger, Agt	Gray
Timber Line	Mt. Pisgah	Leroy Layland	Gray
Toway	Mt. Pisgah	J. C. Beatty	Soda Springs

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## BOUNDARY COUNTY

Boundary County is bounded on the north by the Dominion of Canada, on the east by the State of Montana, on the west by the State of Washington, and on the south by Bonner County. Its principal area comprises the drainage basins of the Moyie River, which flows in a southerly direction, and the Kootenai River, which flows northerly from Bonners Ferry, the county seat and principal town. It has a total area of 1276 square miles, and was accredited with a population of 4474 in the 1920 census. The principal industries are lumbering, farming, and mining.

The county is served by two transcontinental railroads, the Great Northern, with its branch line from Bonners Ferry to Porthill, on the Canadian border, and the Spokane International; by the North and South Highway, with an easterly outlet from Bonners Ferry; and by a system of county roads which extend into the different sections along the main stream valleys.

The principal mineral resources are lead, silver, gold, copper, zinc, tungsten, and molybdenum. These metals are widely distributed, and a few of the deposits have been partially developed. Heavy overburden, dense overgrowth, and limited accessibility have retarded prospecting, discovery, and development. The many favorable areas and wide diversity of mineralization make this county an exceptionally favorable field for the prospector and small development company.

The year 1926 witnessed little improvement in this county. No new ore discoveries were made, the operating companies did not expand their work, and no new enterprises were started. The Continental mine at Porthill, owned by the Idaho Continental Mining Co., was operated throughout the year by the Idaho Continental Co. On an average, more than 50 men were continuously employed, and a large tonnage was produced and marketed. This mine is one of the largest lead producers in the State and its continuous operation and output are big factors in the prosperity of the county.

The Leonia Gold Mining Co., which is a reorganization of the Idaho Gold & Ruby Mining Co., maintained a payroll of approximately five men during the year, and performed considerable new work, for which the money was derived from stock assessments.

The Brush Lake Mines Co., the Golden Sceptre Mining Co., Ltd., the Moyie Gold-Copper M. & M. Co., Ltd., and the International Molybdenum Co. expanded their development operations over those of the previous year.

The geology and mineral resources of this county are described in a new bulletin which was issued during the year, *Geology and Ore Deposits of Boundary County, Idaho*, by V. R. D. Kirkham and E. W. Ellis: Idaho Bureau of Mines and Geology (Moscow, Idaho), Bull. 10.

### BRUSH LAKE MINES CO.

**Office:** 412 Ziegler Block, Spokane, Wash. **Officers:** J. W. Reid, Pres., Bonners Ferry; David Emley, Sec., Coolin, Idaho. **Inc.:** Aug. 6, 1921. **Capital:** 2,000,000 shares; par value 10c; 684,182 shares issued. **Property:** Bethlehem group; 7 unpatented claims, Moyie Yaak dist.; Bonners Ferry. **Development:** Approximately 1200 ft. of underground workings. **Ore:** Lead-silver. **Men employed:** Average, 3. **Remarks:** Property under development throughout the year, the work being done under contract.

### COPPER FALLS MINING CO.

**Office:** Eastport. **Officers:** Gus Kallman, Pres.-Mgr., Gem; Spencer Lewis, Sec.-Treas., Eastport. **Inc.:** March 30, 1911. **Capital:** 1,000,000 shares; par value \$1; 669,772 shares issued. **Property:** Copper Falls group; 5 unpatented claims, Moyie Yaak dist.; Addie. **Development:** 2 tunnels; No. 1, 240 ft. long; No. 2, 600 ft. long; 1 vertical shaft, 45 ft. long. Total development approximately 1185 ft. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**GOLDEN SCEPTRE MINING CO., LTD.**

**Office:** E. 245 Sprague Ave., Spokane, Wash. **Officers:** C. F. Halvorsen, Pres., E. 1001 Liberty Ave.; O. L. Elvigen, Sec., both of Spokane, Wash. **Inc.:** Aug. 30, 1909. **Capital:** 1,500,000 shares; par value 50c; 1,228,731 shares issued. **Property:** Golden Sceptre group; 7 unpatented claims, Porthill dist.; Porthill. **Development:** Principally by one tunnel 1500 ft. long. **Plant:** Gas driven compressor and complete mining equipment. **Ore:** Copper-gold. **Men employed:** Average, 3. **Remarks:** 350 feet of tunnel were completed under contract during the year.

**HOLLINGER GOLD MINES CO., LTD.**

**Office:** Bonners Ferry. **Officers:** T. J. Hollinger, Pres.-Mgr., 8012 Dayton, N., Seattle; Geo. P. Meyers, Sec., Bonners Ferry. **Inc.:** Feb. 11, 1925. **Capital:** 2000 shares; par value \$100; 371 shares issued. **Property:** Matterhorn group; 3 unpatented claims, Moyie Yaak dist.; Addle. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**IDAHO CONTINENTAL CO., THE**

**Office:** 1015 Paulsen Bldg., Spokane, Wash. **Officers:** A. Klockmann, Pres.-Mgr.; Richard Schacht, Sec., both of Spokane, Wash. **Inc.:** Jan. 11, 1910. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** 15 patented, 5 unpatented claims; Porthill dist.; Klockmann. "The company owns by lease and exchange of shares with Idaho Continental Mining Co., the Continental, Jasper, Blue Joe, Volcanic, Morning Star, Evening Star, and outright all others." **Development:** Approximately 14,100 ft. of underground workings consisting principally of 5 tunnels: No. 1, 350 ft. long; No. 2, 100 ft. long; No. 3, 750 ft. long; No. 4, 1800 ft. long; No. 5, 2632 ft. long. **Plant:** MINE: 1200 cu. ft. I-R Imperial type 10 compressor; Leyner drill sharpener and complete mining equipment; 1600 ft. aerial tram between mine and mill. MILL: 250-ton concentrator; 10x20 crusher; conveyor belt; 4 double 4-compartment Hartz jigs; 3 rolls 12x20; drag classifier; 5 Wilfley tables; Hardinge ball mill; 4 Frue vanners; flotation; hydroelectric power plant. **Ore:** Lead-silver. **Men employed:** Average, 32. **Remarks:** This is one of the largest lead-producing mines in the State. Capacity production and an active mine development campaign were maintained throughout the year.

**IDAHO CONTINENTAL MINING CO.**

**Office:** 805 Sellwood Bldg., Duluth, Minn. **Officers:** Henry Turrish, Pres.; Henry Maxeiner, Sec., both of Duluth, Minn. **Inc.:** Dec. 12, 1902. **Capital:** 1,500,000 shares; par value \$1; 1,200,000 shares issued. **Property:** Continental group; 7 patented, 1 unpatented claim, namely: Continental, Jasper, Blue Joe, Volcanic, Morning Star, Evening Star, and Aurora; Porthill dist.; Klockmann. **Remarks:** This is the same property as that operated by the Idaho Continental Co.

**INTERNATIONAL MOLYBDENUM CO.**

**Office:** Porthill. **Officers:** H. A. French, Pres.; P. W. Stas, Sec., both of Porthill. **Inc.:** Feb. 3, 1926. **Capital:** 25,000 shares; par value \$1; 11,433 shares issued. **Property:** Hottentot group; 4 unpatented claims, Porthill dist.; Porthill. **Development:** 2 tunnels with a total length of 126 ft., and a number of open cuts. **Ore:** Molybdenum. **Men employed:** Average, 2. **Remarks:** Active prospecting work was maintained throughout the year.

**LEONIA GOLD MINING CO.**

**Office:** Leonia. **Officers:** Wm. Cavanagh, Pres., 827 Medical Arts Bldg., Portland, Oregon; M. E. Carson, Secretary, Leonia. **Inc.:** December 11, 1924. **Capital:** 1,000,000 shares; par value \$1; 695,102 shares issued. **Property:** 76 placer and lode claims, approximately 3500 acres, Moyie Yaak dist.; Leonia. **Development:** Five mile, 200 sec.-ft. capacity canal, giving a working head of approximately 430 ft.; in two sections, upper 3 miles long, lower 2 miles, with a difference in elevation of 210 ft. Water conducted from upper to lower through two 22-inch steel pipes. About 20 miles of road, five of which were very heavy construction. Lode claims developed by numerous cuts and tunnels. **Plant:** Approximately 3000 ft. steel pipe, one 8-inch giant operating under a 430 ft. head and two 5-inch giants, operating under 130 ft. head; bed rock flume and spillway 300 ft. long on a grade of 10 inches in 12 ft.; in three sections, spillway 12 ft. wide by 8 ft. deep; one flume 6 ft. wide and one 12 ft. wide, both 8 ft. deep. Concentrates from flume discharge into cement lined tank of approximately 15,000 ton capacity from which they are elevated into cleaning plant on top of flume. Cleaning plant consists of Ogden tables, classifiers and specially designed riffles. Complete machine shop, sawmill, planing mill, overhead cable system operated by steam; tractor haulage; complete company buildings and 35 individual homes for the men. **Ore:** Principally placer gold. **Men employed:** Average, 5. **Remarks:** This company is a reorganization of the Idaho Gold & Ruby Mining Co. During the year a small amount of work was performed on the lode claims, the funds for which were derived from stock assessments.

**MOYIE GOLD COPPER MINING & MILLING CO., LTD.**

**Office:** Bonners Ferry. **Officers:** Geo. E. Crocker, Pres., E. Northug, Sec., both of Bonners Ferry. **Inc.:** Sept. 16, 1911. **Capital:** 1,250,000 shares; par value \$1; 940,000 shares issued. **Property:** Queen and Damon groups; 12 unpatented claims, Moyie Yaak dist.; Bonners Ferry. **Development:** 5 tunnels and 2 shafts, approximately 850 ft. **Ore:** Lead-silver. **Remarks:** A small amount of development work during the year.

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## BUTTE COUNTY

Butte is one of the south-central counties, being bounded by Lemhi, Custer, Blaine, Bingham, Jefferson and Clark counties. The Big and Little Lost Rivers flow in a southerly direction across the county, and the lower valleys of these rivers constitute the larger part of its area of 2048 square miles. Arco, situated near the lower end of Big Lost River valley, is the largest town and the county seat. It is primarily an agricultural and stockraising community, although its mining industry is gaining recognition and importance. The publicity given, and the travel attracted, to the new national monument, the Craters of the Moon, which is located in this county, have widely advertised the resources and scenic attractions of the State.

Two State highways have been designated and partly constructed, the Lost River Highway, which extends from Blackfoot to Challis and passes through Arco and Big Lost River valley, and the Idaho Central Highway from Hailey to Dubois, which serves the Craters of the Moon. The county is served by the Blackfoot-Mackay branch of the O. S. L. Railroad.

The principal mineral resources are lead, silver, zinc, gold, tungsten, manganese, limestone, and marble, the high-grade lead-silver ores being the most important as they are found in all the mining districts of the county. The other metals occur in sufficient extent to be of commercial importance. These diversified resources, and the possibilities which many of the deposits offer, justify more attention and exploration than they have been receiving.

The Wilbert Mining Co., Ltd., whose property is in the Dome district, was the most active mining operation in the county. This company had an average payroll of 20 men; the mine was further developed, and a large tonnage of ore was produced and marketed. The Badger Mines Co., which is also in the Dome district, constructed a small mill and shipped a few tons of concentrates, in addition to doing a small amount of mine development work which increased the ore showings.

The Lava Creek district witnessed a large increase in mining activities. Two new organizations were perfected, and the discovery of new ore was reported.

An attempt was made to exploit the marble that occurs in the large limestone quarries near Arco. Small shipments of the marble were sent to different cutters for finishing tests, and they pronounced it as being of exceptional quality and colors.

### AMALGAMATED SUGAR CO.

**Office:** Eccles Bldg., Ogden, Utah. **Officers:** H. H. Rolapp, Pres.; Fera S. Young, Sec.; E. S. Rolapp, Mgr., all of Ogden, Utah. **Inc.:** Filed in Idaho Apr. 24, 1915. **Capital:** 724,624 common, 50,000 shares preferred stock; no par value; all shares issued. **Property:** 4 patented claims, Arco dist.; Arco. **Plant:** 1 electrically driven 130 cu. ft. compressor; 3200-foot gravity tramway and complete mining and quarrying equipment. **Mineral:** Lime rock. **Remarks:** Idle.

### BADGER MINES CO.

**Office:** Rexburg. **Officers:** S. H. Abbott, Pres.-Mgr.; Fay Abbott, Sec., both of Rexburg. **Inc.:** June 8, 1925. **Capital:** 1,000,000 shares; par value 3c; all shares issued. **Property:** Badger group; 8 unpatented claims, Dome dist.; Howe; held under lease and option. **Development:** Principally by one tunnel, 1200 ft. in length. **Plant:** MINE: Gas driven compressor and complete mining equipment. MILL: 25-ton concentrator, driven by gas engine. **Ore:** Lead-silver. **Men employed:** Average, 4. **Remarks:** Active mining operations were conducted throughout the year; the mill was operated a short time, and a few tons of concentrates were marketed.

**HORN SILVER CONSOLIDATED MINES CO.**

**Office:** Arco. **Officers:** Edward Dahle, Pres., M. M. Dahle, Sec., both of Arco. **Inc.:** Dec. 21, 1925. **Capital:** 100,000 shares; par value \$1; all shares issued. **Property:** 3 patented, 6 unpatented claims, held under lease and option; Lava Creek dist.; Martin. **Development:** By 3 tunnels: No. 1, 630 ft.; No. 2, 530 ft.; No. 3, 240 ft. **Plant:** Gas-driven compressor; complete mining equipment and camp. **Ore:** Lead-silver. **Men employed:** Average, 7. **Remarks:** Active development work throughout the year.

**MAUDE ELLEN OIL CO.**

**Office:** Blackfoot. **Officers:** A. E. Fridenstine, Pres.; C. Guy Wakefield, Vice-Pres.-Gen. Mgr.; both of Pocatello. R. A. Carson, Sec., Blackfoot. **Inc.:** Oct. 26, 1925. **Capital:** 15,000,000 shares; par value 1c; 8,000,000 shares issued. **Property:** 1 unpatented claim, Lava Creek dist.; Arco. **Development:** 1 tunnel, 190 ft. long. **Ore:** Lead-silver. **Remarks:** Idle.

**METTA MINING CO., LTD.**

**Office:** Shelley. **Officers:** W. R. Jones, Pres., Ogden; E. Milton Christensen, Sec.-Mgr., Shelley, **Inc.:** Oct. 20, 1906. **Capital:** 1,000,000 shares; par value \$1; 382,000 shares issued. **Property:** Metta group; 9 unpatented claims, Hamilton dist.; Howe, R. R. Dubois, 47 miles. **Development:** 3 short tunnels and 3 short vertical shafts; total development work approximately 800 ft. **Ore:** Lead-silver. **Remarks:** A small amount of development work during the year.

**WILBERT MINING CO., LTD.**

**Office:** 221 Kearns Bldg., Salt Lake City, Utah. **Officers:** A. S. Ross, Pres.-Mgr., J. A. Foley, Sec., both of Salt Lake City, Utah. **Inc.:** April 10, 1907. **Capital:** 2,000,000 shares; par value 50c; 1,666,313 shares issued. **Property:** Daisy Black group; 6 patented, 26 unpatented claims, Dome dist.; Howe, R. R. Arco, 42 miles. **Development:** Approximately 15,000 ft. of underground workings, the principal of which is No. 4 tunnel that was completed to 2800 ft. in length at the end of which a raise was put through and connection made with the old workings. **Plant:** MINE: 50 h. p. C-P gas driven compressor; complete mining equipment and camp. **MILL:** 60-ton concentrator. **Ore:** Lead-silver. **Men employed:** Average, 18. **Remarks:** In addition to maintaining production and shipping a large tonnage of concentrates during the year, a large amount of mine development work was performed, which was successful in exposing an important showing of new ore.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Apex, Apex 3	Lava Creek	Edward Dahle	Martin
Badger 1, 2, 3, 4	Hamilton	William Deusner	Howe
Badger Creek	Hamilton	Frank Peete	Clyde
Big Butte	Hamilton	B. A. Smith	Arco
Black Hawk	Hamilton	Chas. W. Johnson	Howe
Bluebird et al	Hamilton	Roy Hawley	Howe
Copper King Gr.	Lava Creek	B. A. Smith	Arco
Copper Queen	S. Creek Canyon	Joseph Keller	Howe
Cut Wall	Hamilton	W. A. Beakley	Blackfoot
Denver Gr.	Lava Creek	Leonard Dresser	Emmett
Edmonville	Badger Creek	Louis Edmon	Howe
Edna et al	Lava Creek	D. W. Nichols	Martin
Ella	Lava Creek	B. F. Morrison	Martin
Foot Wall	Lava Creek	Ardell Gamett	Moore
Gold Belt Gr.	Lava Creek	J. M. Walker	Blackfoot
Golden Chariot	Lava Creek	Mabel R. Rush	6710 Windsor Ave. Chicago, Ill.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Granite Mountain	Lava Creek	E. H. Hammond	Arco
Gray Wolfe et al	Hamilton	S. H. Abbott	Howe
Great Western	Lava Creek	Daniel Romney	Arco
Happy Hooligan	Lava Creek	Ardell Gamett	Moore
Hidden Treasure	Lava Creek	Mattie D. Martin	Martin
Homestake	Lava Creek	J. F. Houf	Arco
Hub Gr.	Lava Creek	S. O. Nelson	Boise
Ironsides	Lava Creek	A. Brim	Martin
Ironsides	Lava Creek	Gordon Lee	Boise
Johnson Gr.	Dome	Lew Johnson	Hailey
Josephine et al	Hamilton	W. C. Hammond	Martin
Lead Belt	Lava Creek	H. W. Weiler et al	Mackay
Little Jim	Lava Creek	John T. Welch	Arco
Lone Pine	Badger Creek	George Hooper	Howe
Lost Gold et al	Lava Creek	Mattie D. Martin	Martin
Neppar et al	Hamilton	John Linder	Howe
Nester	Lava Creek	Thos. D. Killion	Arco
Oxide Lode	Lava Creek	Ole Anderson	Arco
Pioneer	Lava Creek	Ardell Gamett	Moore
Policy	Lava Creek	Hugo Vogelsang	Arco
Rabbits Foot	Hamilton	E. A. Christensen	Howe
Reliance	Lava Creek	T. C. Woodbridge	Arco
St. Louis et al	Lava Creek	T. H. Philipson	Arco
Sam & Tom	Lava Creek	Ira Petty	Howe
Second Chance	Lava Creek	Riley Kent	Arco
Shail & Comstock	Dome	Shail & Comstock	Rexburg
Silver Bell	Lava Creek	Ardell Gamett	Moore
Silver Horn et al	Lava Creek	E. B. Jones	Martin
Sunbeam	Dome	Isidore Fallert	Howe
Weiler	Antelope	H. W. Weiler	Mackay

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## CAMAS COUNTY

Camas County is one of the south-central counties, being bounded on the north and east by Blaine, on the south by Lincoln and Gooding, and on the west by Elmore County. It has an area of 1070 square miles, and was accredited with a population of 1730 in the 1920 census, or 1.6 persons to the square mile. The population is engaged in stockraising and dry farming, which pursuits are confined to the 300,000 fertile acres of the Camas Prairie.

The county is served by locally maintained roads, two Forest Service highways, and the Shoshone-Hill City branch of the O. S. L. Railroad. Fairfield is the largest town and county seat.

The principal mining districts are the Rosetta, Little Smoky, and Skeleton. The Skeleton district includes the drainage area forming the headwaters of the South Fork of the Boise River, and Little Smoky district comprises the drainage area of Little Smoky and Carrie Leonard Creeks. The ores found in the latter are those of lead-silver and zinc, and the mines in the former are principally gold, both placer and lode. In addition to the foregoing, the other mineral resources are copper, tungsten, and diatomaceous earth.

The mines in the Carrietown section of the Little Smoky district have a good production record to their credit, and their latent possibilities still offer excellent opportunities for profitable mines. Other than annual labor and a small amount of investigation by those seeking new ventures, practically all the mines were idle throughout the year.

### AMERICAN MINING & DEVELOPMENT CO.

**Office:** Glenss Ferry. **Officers:** J. W. Davis, Pres.; Geo. H. Hickok, Sec., both of Glenss Ferry. **Inc.:** April 19, 1920; charter forfeited Dec. 1, 1925. **Capital:** 600,000 shares; par value 10c; 400,000 shares issued. **Property:** Liberal group; 3 unpatented claims, Little Smoky dist.; Fairfield. **Development:** Principally by one tunnel, which is 1365 ft. long. **Plant:** MILL: 50-ton; consisting of Hardinge mill, amalgamation plates and two concentrating tables; gas driven. **Ore:** Gold-silver. **Remarks:** A little development work was done during the year.

### CARRIE LEONARD MINING CO.

**Office:** 319 Dooly Blk., Salt Lake City, Utah. **Officers:** Boyd T. Park, Pres.; W. A. Wilson, Sec.-Mgr., both of Salt Lake City. **Inc.:** Filed in Idaho, July 21, 1926. **Capital:** 200,000 shares; par value 10c; shares issued unknown. **Property:** Carrie Leonard group, 8 patented claims, Little Smoky district; Fairfield. **Ore:** Lead-silver. **Remarks:** A small amount of work was done by lessees. At one time this property was the principal producer in the Little Smoky district.

### CRYSTAL GOLD PLACER MINING CO.

**Office:** Fairfield. **Officers:** R. M. Angel, Pres., Fairfield. **Inc.:** Nov. 8, 1924. **Capital:** 500,000 shares; par value \$1; 250,000 shares issued. **Property:** 3 unpatented claims, Skeleton dist.; Fairfield; held under lease and option. **Development:** 3 short cuts. **Ore:** Placer gold. **Remarks:** A small amount of work was done during the year.

### EL ORO MINING CO.

**Office:** 73 Tremont St., Boston. **Officers:** C. Wesley Smith, Pres.-Mgr., Boston. **Inc.:** March 11, 1925. **Capital:** 300,000 shares; no par value; 5 shares issued. **Property:** El Oro group; 7 unpatented claims, Skeleton dist.; Fairfield; held under lease and option. **Development:** 2 tunnels; No. 1, 118 ft. long; No. 2, 225 feet long; from which there are numerous drifts. **Plant:** MINE: Water-driven compressor; complete mining equipment. MILL: 30-ton stamp mill, equipped with 10 stamps and amalgamation plates. **Ore:** Gold. **Remarks:** No mining operations were conducted during the year.

**HAPPY BILL MINES CO.**

**Office:** 1620 N. 6th St., Boise. **Officers:** F. R. Wilson, Pres., 1110 W. Broadway, Spokane, Wash.; G. R. Colvin, Sec.-Mgr.; Boise. **Inc.:** Dec. 31, 1923. **Capital:** 2,000,000 shares; par value 25c; 964,000 shares issued. **Property:** Five Points group; 11 unpatented claims, 7 owned, 4 held under lease and option, Little Smoky dist.; Fairfield. **Development:** 4 tunnels: No. 1, 119 ft. long; No. 2, 325 ft. long; No. 3, 470 ft. long; No. 4, 150 ft. long. Several crosscuts and drifts. **Plant:** MILL: 70-ton concentrator constructed in 1921. **Ore:** Gold-silver-lead. **Remarks:** The secretary of this company states that it is an "operating company for Walton Mines Co." A little activity was shown and stock assessments were levied during the year.

**HIDDEN TREASURE MINE & MILLING CO.**

**Office:** Fairfield. **Officers:** Chas. J. Sherry, Sr., Pres.-Mgr.; Fairfield. **Inc.:** July 10, 1916. **Capital:** 500,000 shares; par value 10c; 25,000 shares issued. **Property:** 5 unpatented claims, Little Smoky dist.; Fairfield. **Development:** 4 tunnels and 1 shaft; total development, approximately 3500 ft. **Plant:** 50-ton concentrator, steam driven; crusher; two sets of rolls and two 2-compartment jigs; Wilfley and Overstrom tables. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**RED STAR MINING CO.**

**Office:** Boise. **Officers:** D. W. Zent, Pres., Manitou Hotel, Boise; Russell Campbell, Sec., Salt Lake, Utah. **Inc.:** Nov. 20, 1924. **Capital:** 250,000 shares; par value 10c; 120,000 shares issued. **Property:** Red Star group; 4 unpatented claims, Little Smoky dist.; Fairfield. **Development:** 1 tunnel 50 feet long. **Ore:** Gold, silver, lead. **Remarks:** Annual labor only.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Axalorr	Skeleton Creek	R. M. Angel	Fairfield
Bear Creek	Skeleton Creek	R. S. Mockett	Lincoln, Neb.
Blue Bird	Little Smoky	Robt. Leaper	Fairfield
Carrie Leonard	Little Smoky	Jas. Gilson, Agt.	Hailey
Climax	Little Smoky	Jas. Williams	Fairfield
Five Points	Little Smoky	Wm. Finney	Soldier
Fourth of July	Little Smoky	H. D. Jones	Hailey
Golden Star	Little Smoky	Chris Christofsen	Fairfield
Hercules	Big Smoky	W. W. Counterman	209 So. 3d. St., Boise
Horn Silver	Little Smoky	P. E. Fletcher	Fairfield
Idaho Chief	Little Smoky	Philip B. Becker	Fairfield
Isabella	Little Smoky	Edw. Somers	Hailey
Gold Bar Placer	Skeleton Creek	Chris L. Giskey	Fairfield
King of the West	Little Smoky	Maylan C. Fox	P. O. Box 774, Salt Lake City, U
Little Bob	Little Smoky	M. Ryan	Fairfield
Lucky Strike	Little Smoky	Joe Vogner	Fairfield
Manchuria Placer	Rosetta	H. D. Jones	Hailey
Ohio Placer	Little Smoky	A. W. Ensign	Hailey
Princess	Willow Creek	Roy Jones	Fairfield
Silver King	Little Smoky	H. D. Jones, Agt.	Hailey
Smoky Bullion	Little Smoky	Ernest Worswick	Reno, Nev.
Square Deal	Little Smoky	Robert Leaper	Fairfield
.....	Little Smoky	Wm. Lewis	Fairfield



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## CARIBOU COUNTY

Caribou is one of the large southeastern counties of the State, being bounded on the east by the State of Wyoming, on the south by Bear Lake, on the east by Bannock, and on the north by Bingham and Bonneville counties. It has an area of 1263 square miles, and was accredited with a population of 2191, or 1.7 persons to the square mile, in the 1920 census. Soda Springs, the county seat, and the only settlement of importance, is situated in the southeastern corner. The county is principally a sheep raising and agricultural community, and Soda Springs is one of the largest sheep shipping points in the United States.

The southeastern corner of the county is served by the main line of the O. S. L. Railroad, with an 8-mile branch road to Conda, the scene of the Anaconda Copper Mining Company's operation, and by the main east and west State highway, the Old Oregon Trail.

The principal mineral resources are phosphate rock, salt, sulphur, and mineral springs, and there are excellent possibilities for the discovery of petroleum. These resources are different than those of most counties, and when properly exploited will be a material factor in the prosperity of the county and State.

A large part of the five billion tons of minable phosphate rock, estimated by geologists of the U. S. Geological Survey, is in this county. These deposits are practically untouched, and constitute one of the greatest potential mineral resources of the State. They are fully described, including analyses and tonnage estimates, in the numerous publications referred to in the bibliography. The Anaconda Copper Mining Co. is pioneering in the development of the rock phosphate industry and has expended over \$1,000,000 in its mine, mine plant, mill, railroad, power lines, and townsite.

The only salt found in the State is in Caribou County. Geologists of the U. S. Geological Survey conservatively estimate five million tons in one deposit, with the possibility of a large tonnage in adjacent areas. The deposits are located on Stump and Tygee creeks, near the State line.

The mineral springs, which are located at Soda Springs, constitute an important resource which is lying dormant. The waters from these springs have exceptional medicinal qualities, are excellent for table use, and offer a great possibility if properly developed and exploited.

A number of structures favorable to the accumulation of petroleum are found in the eastern part of the county. The location and geology of these areas are fully described in the publications issued by the Idaho Bureau of Mines and Geology.

The Anaconda Copper Mining Co. maintained production at its phosphate mine for a period of six months, in addition to constructing a large number of new homes for its employees. This company's mine plant is the largest in the State, and possibly in the United States, for the mining of this mineral. The rock mined is shipped to Anaconda, Montana, where it is converted into concentrated phosphatic fertilizer, the finished product being known as Anaconda treble super-phosphate.

During the year, the Great Western Oil Co., whose property is located in the eastern part of the county near the Wyoming line, deepened its well approximately 1000 feet. At the close of the year, this well had reached a total depth of 2600 feet.

#### ANACONDA COPPER MINING CO.

**Office:** Anaconda, Mont. **Officers:** C. F. Kelley, Pres.; A. H. Melin, Sec., both of 25 Broadway, New York City; C. E. Nighman, Local Mgr., Conda, Idaho. **Inc.:** Filed in Idaho: April 10, 1916. **Capital:** 6,000,000 shares; par value \$50; 3,000,000 shares issued. **Property:** 23 patented claims; 3403 acres, unorganized dist.; Conda. **Development:** Two adits, 45 ft. above railroad track level, 9 x 9 ft., inside of timbers each totaling over 3000 ft. in length. The main operating tunnels are equipped with 25-pound rail, 36-in. gauge track, 15-ton storage battery locomotive capable of hauling a 100-ton net load at a speed of 4 to 7 miles per hour, 10-ton side dump ore cars, power loading machines operated by compressed air and No. 4 sirocco fan. **Plant:** MINE: 100 cu. ft. compressor; drill sharpeners; machine, blacksmith and carpenter shops with latest type power-driven equipment; switch boards and motor generator charging set; laboratory; electric sub-station and sawmill all housed in fireproof gunited and steel buildings. **MILL:** Crushing and drying plant. The mill feed and storage bins are connected with the main tunnels by large trestles. The storage bins, with a capacity of over 4000 tons, and houses over them are protected with several inches of gunite. The main storage bin is equipped with an Ottumwa boxcar loader and modern railroad scales. The rock drawn from the mill feed bin, which has a capacity of 450 tons, passes over shaking grizzlies, the oversize going to a 12-inch Traylor gyratory crusher, which reduces it to about 2½ inches. The product from the crusher and the undersize is elevated and passed over a Mitchell vibrating screen. The rock passing through this screen goes to the dryer feed bin, and the oversize to 22 x 54-inch Anaconda rolls that reduce it to three-fourths of an inch. The product from the rolls is elevated and again passes over the Mitchell vibrating screen. The crushed rock drawn from the dryer feed bin is conveyed into class A-12 Ruggles-Coles dryers by apron feeders. After leaving the dryer the rock goes over a shaking feeder to a chain bucket elevator. This elevator carries it to the top of the mill where it passes through a Vezin sampler, and it is then conveyed to the storage bins. The present capacity of the mill is 400 tons in 24 hours. This output can be increased to 1000 tons in the same time by adding another dryer. **Railroad:** 8-mile branch from Soda Springs to mine, with storage tracks that will accommodate 100 fifty-ton railroad cars, spurs to mill and coal bins, and wyes at each end of the yards. The gradient of the storage tracks is such that the cars are operated by gravity to and from the storage bins. **Town:** The company has erected a model mine town consisting of modern homes, which are rented to the

employees at a nominal figure. Company offices, bunk and boarding houses, superintendent's home, recreation hall and a number of small homes have been erected. A fully equipped store is maintained by the company, a postoffice has been established and a modern school erected and maintained. A complete water system for the town and plant has been installed; the water is piped a distance of 2 miles to a 100,000 gallon storage tank from which it is distributed. **Ore:** Phosphate rock. **Men employed:** Average, 84. **Remarks:** During the greater part of the year active production was maintained at the rate of approximately 200 tons per day. A new 5-ton storage-battery locomotive was added to the mine equipment, and a large number of new homes for the employees constructed during the year. Note pages 26 to 31 of 1923 report for complete description of this operation.

#### GREAT WESTERN OIL CO.

**Office:** 1st National Bank Bldg., Pocatello. **Officers:** Thomas Hopper, Pres.; Harvey W. Dice, Sec., both of Pocatello. **Inc.:** Feb. 2, 1923. **Capital:** 1,000,000 shares; par value \$1; 485,000 shares issued. **Property:** Oil and gas leases on 2800 acres of patented farm land situated on Stump and Tygee Creeks, unorganized dist.; Auburn, Wyo.; R. R. Montpeller. **Development:** 2600 ft. well. **Plant:** Miller well-drilling outfit equipped with F-M 40 h. p. gas engine. **Mineral sought:** Oil and gas. **Remarks:** The well was extended approximately 1000 feet deeper during the year.

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## CASSIA COUNTY

Cassia is one of the principal southern counties, being bounded on the south by the States of Nevada and Utah, on the west by Twin Falls, and on the east by Oneida and Power counties. Snake River forms its northern boundary, which is also a part of the southern boundary of Jerome, Minidoka, Blaine and Power counties. It has an area of 2595 square miles, and was accredited with a population of 15,659 in the 1920 census. The principal industries are stockraising and farming. Burley, which is on the Snake River, near the center of the Minidoka project of the U. S. Reclamation Service, is the largest town and county seat.

The northern part of the county is served by the Old Oregon Trail State highway; the other parts by a well-maintained system of county roads. Its railroad is the Minidoka-Buhl branch of the O. S. L. Railroad, from which there are branch lines extending from Burley to Idahome, and from Burley to Oakley.

The minerals found in this county are silver, lead, copper, gold, limestone, building stone, marble, cinnabar, and lignite. In the past, a little drilling has been done for petroleum, but all the companies have been practically idle for the past four years. These varied mineral resources, particularly the high grade lead-silver and silver-copper ores of the Stokes and Dolomite districts, offer excellent opportunities and possibilities for prospectors and development companies.

The Silver Hills Mining Co. was the only active company during the year, although there was a large increase in the number of prospectors and the amount of work done by them.

### GOOSE CREEK OIL AND DEVELOPING CO.

**Office:** 424 Fourth Avenue, Pittsburg, Pa. **Officers:** Edward Martin, Pres.; H. E. Wynn, Sec., both of Pittsburgh, Pa.; D. P. Carpenter, Mgr., Oakley. **Inc.:** Oct. 28, 1920. **Capital:** 1,000,000 shares; par value 50c; 346,600 shares issued. **Property:** Government prospecting permit on 8000 acres on Coal and Goose creeks, Oakley. **Development:** 1425 foot well. **Mineral sought:** Oil and gas.

### OAKLEY MINING & MILLING CO.

**Office:** Oakley. **Officers:** John H. Fairchild, Pres.-Mgr.; Lucy A. Fairchild, Sec., both of Oakley. **Inc.:** Jan. 7, 1920. **Capital:** 1,000,000 shares; par value 10c; all shares issued. **Property:** Boulder group; 7 unpatented claims, Dolomite dist.; Oakley. **Remarks:** This company is owned by its president who was actively developing it during the year.

### OASIS OIL CO.

**Office:** Twin Falls. **Officers:** John Wolfenden, Pres.-Mgr., Twin Falls; Wm. D. Reynolds, Sec.-Treas., Twin Falls. **Inc.:** Mar. 17, 1919. **Capital:** 10,000,000 shares; par value 5c; 4,525,383 shares issued. **Property:** Government prospecting permit on 2560 acres on Raft River. **Mineral sought:** Oil and gas. **Remarks:** Idle.

### SILVER HILLS MINING CO.

**Office:** 707 Utah Savings & Trust Bldg., Salt Lake City, Utah. **Officers:** W. J. Burrige, Pres.-Mgr., Black Pine; L. M. Francis, Sec., Salt Lake City, Utah. **Inc.:** Mar. 31, 1920. Charter forfeited Nov. 30, 1926. **Capital:** 800,000 shares; par value 10c; 515,996 shares issued. **Property:** Busy Bee and Joven groups; 23 unpatented mining claims; Black Pine dist.; Black Pine. **Development:** 3 tunnels, 1 shaft; approximately 2,600 ft. total development. **Ore:** Lead-silver. **Men employed:** Average, 4. **Remarks:** Active during the greater part of the year.

**WEST PEARL OIL & GAS CO.**

**Office:** Standard Life Bldg., Pittsburg. **Officers:** Hugh Ferguson, Pres., William Le Goullon, Sec., both of Pittsburg, Pa. **Inc.:** Jan. 15, 1920. **Capital:** 1,000,000 shares; par value \$1; 485,000 shares issued. **Property:** 3000 acres of leased land. **Development:** Well, 2825 ft. in depth.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Alice	Stokes	W. E. Langford	229 W. 2d. St., N. Salt Lake City,
Albion Gr.	Stokes	J. E. Comerford	Rupert
Bimetallic	Stokes	F. E. Trayme	Albion
Giant	Stokes	Samuel McIntyre	Salt Lake City
Golden Eagle	Stokes	O. H. Melcher	Albion
Hazel Pine	Black Pine	F. B. Platt	265 E. Broadway, Salt Lake City
Ken-Sko	Dolomite	Robt. B. Kenner	Salt Lake City
Last Chance	Unorganized	Charles Ransom	Burley
Last Chance Gr.	Grape Creek	J. W. Durfee	Malta
Sample Placer	Snake River	Thomas C. Elgin	Neeley
Walton No. 2	Stokes	T. C. Walton	Burley

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**CLARK COUNTY**

Clark is one of the southeastern counties, adjoining and lying east of Lemhi and Butte counties, and bounded on the north by the State of Montana, on the east by Fremont County, and on the south by Jefferson County. It contains an area of 1778 square miles and was accredited with a population of 1886 in the 1920 census. Dubois is the principal town and county seat.

The Pocatello-Butte division of the O. S. L. Railroad, and the Idaho-Montana State highway traverse the county north and south, thus giving it good transportation facilities.

The Lemhi Mountains, which extend into the northwest corner of the county, constitute the principal mining district. This district is named from Birch Creek, which flows in a southern direction and which divides the district. The western part is an extension of the Dome, or Hamilton, district of Butte County, and the eastern part is an extension of the Nicholia district of Lemhi County. The ores found throughout this area are lead-silver, copper-silver, and zinc. The deposits have been partially developed and a small tonnage has been marketed.

Deposits of coal and bentonite of sufficient extent to be of commercial importance occur in the Beaver Head Mountains, the summit of which is the state line between Idaho and Montana.

The mines in the Birch Creek district were dormant for many years, until 1925. During the closing months of this year a new company was organized, which took over the Scott mine and started development work, which continued throughout the year 1926. In addition to performing a large amount of underground work, the company constructed a small concentration mill, and produced and marketed a few carloads of lead-silver ore.

Prospectors and others seeking lead-silver mines gave considerable attention to the possibilities of the Birch Creek section during the year.

#### BIRCH CREEK MINING CO., LTD.

**Office:** Idaho Falls. **Officers:** George Brunt, Pres.; A. T. Shane, Sec., both of Idaho Falls. **Inc.:** June 21, 1907. **Capital:** 1,000,000 shares; par value 10c; 500,000 shares issued. **Property:** Scott group; 8 unpatented claims, Birch Creek dist.; Winsper, R. R. Dubois, 35 miles. **Ore:** Lead-silver. **Remarks:** Property under option to Idaho Lead Mines Co., which see.

#### IDAHO LEAD MINES CO.

**Office:** Pocatello. **Officers:** Joel A. Harrington, Pres., Idaho Falls; H. E. Clifford, Sec., Pocatello. **Inc.:** December 10, 1925. **Capital:** 100,000 shares, par value \$1; 57,053 shares issued. **Property:** Scott group, 9 unpatented claims, held under lease and option from the Birch Creek Mining Co., Ltd.; Birch Creek district, Winsper. R. R. Dubois, 35 miles. **Development:** Principally by vertical shaft 250 ft. deep; total development about 5300 ft. **Plant:** MILL: 50-ton concentrator consisting of jigs and tables, gas-driven. **Ore:** Lead-silver. **Men employed:** Average, 5. **Remarks:** In addition to constructing the mill, the company performed a large amount of development work and shipped a small tonnage of concentrates.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Emma	Birch Creek	Chester J. Worthing	Winsper
Fairwell	Birch Creek	James F. Worthing	Ophir, Utah
Good Luck	Birch Creek	David Bloom	Idaho Falls
Kaufman Gr.	Birch Creek	Geo. Kaufman	Winsper
Overlooked	Birch Creek	Frank J. Worthing	Winsper

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## CLEARWATER COUNTY

Clearwater is one of the large northern counties, being bounded on the north by Shoshone County, on the east by the State of Montana, on the south by Idaho County, and on the west by Lewis, Nez Perce, and Latah counties. It has an area of 2508 square miles and was accredited with a population of 4993 in the 1920 census. Orofino, which is on the Clearwater River, near the western border, is the largest town and county seat. Except a small area adjacent to Orofino, which is devoted to agriculture, the entire county is mountainous and heavily timbered. The largest body of virgin white pine in the United States is located in this county.

It is served by three State highways which are partly constructed, by good county-maintained roads, and by the Lewiston-Stites branch of the Northern Pacific Railroad, which follows the Clearwater River.

Pierce City, which is the principal mining district in the county, was the scene of the first gold discovery in Idaho. This discovery was made in 1860, and the ensuing stampede soon crowded the district and the overflow spread into other sections. The stampede and resulting overflow formed the nucleus of the State, and shortly thereafter the Territory of Idaho was formed. Practically all the placer gold that could be recovered by hand methods or hydraulicking was exhausted years ago, and all recent operations have been devoted to dredging and lode mining.

Gold—placer and lode—silver, monazite, and copper are the principal minerals found in the Pierce City district. Lead, zinc, and silver occur in the Neva Hill section, and placer gold is still found in some of the isolated sections.

The year 1926 witnessed an increase in mining and mining activities throughout Clearwater County. Hydraulic operations were conducted at a few of the mines near Pierce City, and the Independence Placer Mining Co., Ltd., whose property is on Moose Creek, a tributary of the North Fork of the Clearwater River, completed the installation of its 6000 feet of hydraulic pipe and the necessary ditches, and conducted mining operations during the high water period. The Rhodes Creek Mining Co. at Pierce employed a few men throughout the year.

The lead-silver deposits in the Neva Hill section, near Elk River, received a small amount of attention, the principal operations being those of the Ruby Creek Mining Co.

In 1925 construction work was started on a new branch line of the Northern Pacific Railroad from Orofino to Pierce City. The principal construction was completed during 1926, and it is expected that the road will be fully constructed and opened to traffic early in 1927. While this railroad was constructed primarily to open the large timber resources of this section of the State, it will be an important factor in furthering mining in the Pierce City district. This was noticeable throughout the year, as the mining activities and interest in mines greatly exceeded those of any other year since the placer mines became exhausted. Prior to the construction of the railroad, Pierce City had dwindled to a "ghost town"; the renewed interest in mining, the new logging enterprises and the presence of the construction forces converted it into the second largest town in the county, and gave new birth to the first established town in the State.

#### **ALDER CREEK MINING CO.**

Office: 404 Court House, Duluth, Minn. Officers: Thos. Owens, Pres., Two Harbors, Minn.; H. J. Grannis, Sec., Duluth, Minn. Inc.: Apr. 4, 1902. Capital: 200,000 shares, par value \$1; 180,046 shares issued. Property: 800 acres patented land; Orofino. Ore: Placer gold.

#### **AMERICAN PLACER MINING CO., LTD.**

Office: Peyton Bldg., Spokane, Wash. Officers: J. M. Porter, Pres.; D. W. Porter, Sec., both of Spokane. Inc.: Nov. 18, 1893. Capital: 500,000 shares; par value \$1; all shares issued. Property: 2 patented, 1 unpatented claim, Pierce.

#### **BOLE CONSOLIDATED MINING CO.**

Office: Pierce. Officers: John A. Saboe, President, Harrison Hotel, Oakland, California; Alex Kasberg, Secretary, Lewiston. Inc.: January 5, 1922. Capital: 300,000 shares; par value \$1; all shares issued. Property: Bole group; 32 unpatented claims, Pierce City dist.; Pierce. Development: 3 tunnels; No. 1, 620 ft. long; No. 2, 150 ft. long;

No. 3, 100 ft. long; 1 inclined shaft 100 ft. long, including 200 ft. of crosscuts and drifts. **Plant:** Steam driven hoist and pumps. **Ore:** Gold. **Men employed:** Average, 4. **Remarks:** Active work was maintained throughout the year, the principal part of which was the installation of a drag line shovel for use in placer mining operations.

#### CLEARWATER PLACER MINING CO.

**Office:** 601 Hutton Bldg., Spokane, Wash. **Officers:** H. E. Rhodehamel, Pres., Hyde Bldg., Spokane, Wash.; Chas. H. Ennis, Sec., 601 Hutton Bldg., Spokane, Wash. **Inc.:** Aug. 21, 1923. **Capital:** 1,400,000 shares; par value 10c; all shares issued. **Property:** 8 unpatented placer claims; Pierce City; 160 acres; Pierce. **Ore:** Placer gold. **Remarks:** Annual labor only.

#### COBRA MINING & MILLING CO.

**Office:** Lewiston. **Officers:** J. H. Evans, Pres.; W. C. Kirby, Sec.-Mgr., both of Lewiston. **Inc.:** May 7, 1925. **Capital:** 5,000,000 shares; par value 1c; 305,500 shares issued. **Property:** Cobra group; 4 unpatented claims, Pierce City dist.; Greer; held under lease and option from Harry Gamble, Greer. **Ore:** Copper-silver.

#### INDEPENDENCE PLACER MINING CO., LTD.

**Office:** Wallace. **Officers:** Wm. Fahle, Pres.-Mgr.; Hugh Toole, Sec., both of Wallace. **Inc.:** Oct. 25, 1906. **Capital:** 1,000,000 shares; par value \$1; 923,766 shares issued. **Property:** 16 unpatented claims, Moose City dist.; Rivulet, Mont. **Men employed:** Average, 6. **Ore:** Placer gold. **Remarks:** Ditches were constructed and a 6000 ft. pipe line installed during the year; stock assessment of 1 cent was levied on April 21.

#### OXFORD COPPER MINING CO., LTD.

**Office:** Moscow. **Officers:** Samson Snyder, Pres., Orofino; L. F. Parsons, Sec., Moscow. **Inc.:** April 10, 1907. **Capital:** 1,000,000 shares; par value \$1; 611,185 shares issued. **Property:** 6 unpatented claims, Pierce City dist.; Pierce. **Development:** Approximately 500 ft. of underground workings. **Plant:** Steam driven hoist. **Ore:** Copper. **Remarks:** Annual labor only.

#### QUARTZ CREEK GOLD DREDGING CO.

**Office:** Lewiston. **Officers:** W. J. Harris, Pres., Spokane, Wash.; Alex Kasberg, Lewiston. **Inc.:** Jan. 24, 1916. **Capital:** 200,000 shares; par value \$1; 106 shares issued. **Remarks:** Owns no property in Idaho.

#### RHODES CREEK MINING CO.

**Office:** Lewiston. **Officers:** Wm. Mallory, Pres.; W. R. Taylor, Sec., both of Lewiston. **Inc.:** June 29, 1925. **Capital:** 5,000,000 shares; par value 5c; 2,307,055 shares issued. **Property:** Dunn & Stowell group; 2 unpatented claims, Pierce City dist.; Pierce; held under lease and option to purchase. **Development:** By 1 tunnel 560 feet long. **Plant:** Steam-driven compressor. **Ore:** Gold. **Remarks:** A small amount of development work during the year.

#### RUBY CREEK MINING CO.

**Office:** Bovill, Idaho. **Officers:** P. A. Hughes, Pres.; T. W. Myer, Mgr., both of Bovill. **Inc.:** Sept. 14, 1925. **Capital:** 1,500,000 shares; par value 10c; 382,000 shares issued. **Property:** Ruby Creek group; 18 unpatented claims, Ruby Creek dist.; Bovill. **Development:** Approximately 500 ft. of underground workings. **Plant:** Steam driven compressor; complete mining equipment, and camp. **Ore:** Lead-zinc-silver. **Men employed:** Average, 4. **Remarks:** Active throughout the year.



NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
American	Pierce City	J. M. Porter	Pierce
Baltimore	Pierce City	Wm. A. Kelly	Pierce
Burlington Pl.	Pierce City	Wm. A. Kelly	Pierce
California Placer	Pierce City	L. F. Culver	Pierce
Collins	Pierce City	J. E. Collins	Pierce
Dream, The	Pierce City	Fred Forsman	Pierce
Gray Eagle	Pierce City	J. McDaniels	200 Que St., Sacramento, Cal.
Grubstake et al	Burnt Creek	James Dwyer and Henry Elmer	2828 N. 4th St. Minneapolis, Minn.
Hardman Gr.	Moose Creek	C. W. Hardman	Elk River
Hay Creek Placers	Pierce City	Frank Alvord	Pierce
Helen Pl.	Pierce City	A. R. Kennedy et al	Pierce
Jericho	Burnt Creek	F. A. Losekamp	Elk River
Lone Pine et al	Pierce City	J. W. Bartlett	Pierce
Ozark	Pierce City	Chas. Meyers	Greer
Panama Gr.	Pierce City	F. P. Fitz	Pierce
Pick & Pan	Burnt Creek	John E. Rejala	Elk River
Quartz-Gold Pl.	Pierce City	A. S. Holmes	Pierce
Rummel et al	Pierce City	James Clark	Pierce
Silver Creek Pl.	Pierce City	Gus Anderson	Pierce
Snake Creek Pl.	Pierce City	G. V. Friedman	Pierce
Trapper et al.	Pierce City	R. E. Willoughby	Pierce
Venus Placer	Burnt Creek	John Pearson	Dent
Victoria et al.	Ruby Creek	Geo. Brady	Bovill
Victory Loan	Pierce City	H. J. Steffey	Pierce
Wendell Placer	Burnt Creek	Walter Wendell	Dent
Wild Rose	Pierce City	John Gaffney	Pierce

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## CUSTER COUNTY

Custer County is bounded on the north by Lemhi County, on the east by Butte, on the south by Blaine, and on the west by Boise and Valley counties. Its principal area comprises the drainage basins of the headwaters of the Salmon River, Big Lost River, and Little Lost River. It has an area of 4921 square miles, and was accredited with a population of 3550 in the 1920 census, or 0.7 persons to the square mile. A comparison of the area and density of population with the State of Connecticut, which contains 4845 square miles and a population of 286.4 persons to the square mile, conveys a good idea of the size of Custer County and its lack of population. It is one of the south-central counties, and the area within its borders comprises the greater part of the region known as "Central Idaho's Mineral Empire."

It is principally a mining county and always ranks as one of the principal mineral-producing counties of the State. It is also noted for its agricultural and stockraising industries, particularly sheep, as it is one of the largest sheep raising sections in the state.

The county is served by the Blackfoot-Mackay branch of the O. S. L. Railroad, by the Sawtooth Park and the Lost River State highways and by well-maintained county and Forest Service roads, which extend into all the various mining districts. The roads are kept in good repair and are open to travel during the larger part of the year. Mackay, the terminal of the railroad, is the largest town and the supply point for most of the mines. Challis, which is 60 miles northwest of Mackay, is the county seat and oldest settlement.

The principal mineral resources are lead, silver, copper, gold, zinc, antimony, molybdenum, tungsten, graphite, bentonite, and garnet. The deposits are widely distributed throughout the county, and many of them offer exceptionally favorable opportunities to prospectors and development companies. The diversity of mineralization and the favorable geological conditions are attracting some of the largest organizations in the United States to this county, and many new discoveries that are resulting fully prove the possibilities that are in store for those who possess a little courage.

During 1926 Custer County experienced more new mine development and new enterprises of importance than any other county in the southern part of the State. Many of these are based on substantial mine foundations, and out of twelve important new discoveries that were made in the State during the year, five were in this county. The most important of these was made at the Mountain King mine in the Sheep Mountain district by the Hecla Mining Company, a new and important entry into the county during the year. In addition to the Mountain King, this company also acquired the Josephus Lake group at Seafoam, and the South Butte group which adjoins the Red Bird mine of the Ford Motor Co.

The most important discovery of new ore made in the State during 1925 was that of the Livingston Mines Corporation. This disclosure was the biggest discovery of lead-zinc-silver ore which has been made in southern Idaho during the past 30 years. Active development work throughout 1926 greatly enlarged the known tonnage of ore over that opened during the previous year. After this ore was exposed, mining operations were expanded and shipments immediately undertaken. As the size and importance of this discovery attracted nationwide attention, it served a good purpose in drawing attention to the great undeveloped mineral resources of southern Idaho, and was instrumental in encouraging prospectors, development organizations, and numerous large mining companies to grasp the many similar opportunities.

The new plant installations, new construction work and mine development done by this company constitute one of the largest expenditures that have been made in the State in the past three years. During 1926 a new compressor, a 250 h. p. vertical Diesel engine direct-connected to an electric generator, and additional mine equipment were added to the mine plant; the mill and tramway were completely remodeled; two new bunkhouses, two shops, and six additional residences were constructed; and a large expenditure was made in new road construction and road improvement.

The Ford Motor Co., which acquired the famous old Red Bird mine near Clayton in the closing months of 1924, conducted an active mine development campaign, a large part of which was diamond drilling, until July, 1926, when all underground work was suspended. Hydroelectric power plant and mining claim patent surveys were made during the latter part of the year. Stories carried in the press during the month of June were to the effect that the diamond drilling and development work proved a substantial tonnage of new ore. The surveying of the mining claims for patent indicated that the company intended to exercise its option to purchase the property, which was interpreted by the press as convincing proof that sufficient ore was developed to justify such a move. Metallurgical investigations were also conducted during the year. Wages paid by this company do not conform to the wage scale in effect throughout the State. All employees start at a wage of \$5 per day. After a period of 60 days, the wage is automatically increased to \$6 per day, after which further increases granted are based on the manager's discretion. The entry of this company into Custer County attracted nationwide attention, and it was instrumental in adding to the increased prosperity which the county witnessed during the year.

The Empire mine at Mackay continues to hold first place as the largest copper producer in the State. This mine is owned by the Idaho Metals Co., and active mining and milling operations were conducted throughout about six months of the year. The mine is operated under the leasing system, in which over 100 men are engaged.

The Kay Development Co., Ltd., which is operating the Horse Shoe mine, conducted active mining operations throughout the year. These consisted of sinking the shaft to a deeper level, and of much lateral exploration in the upper levels. This work disclosed some new ore of importance, and a substantial tonnage was produced and marketed.

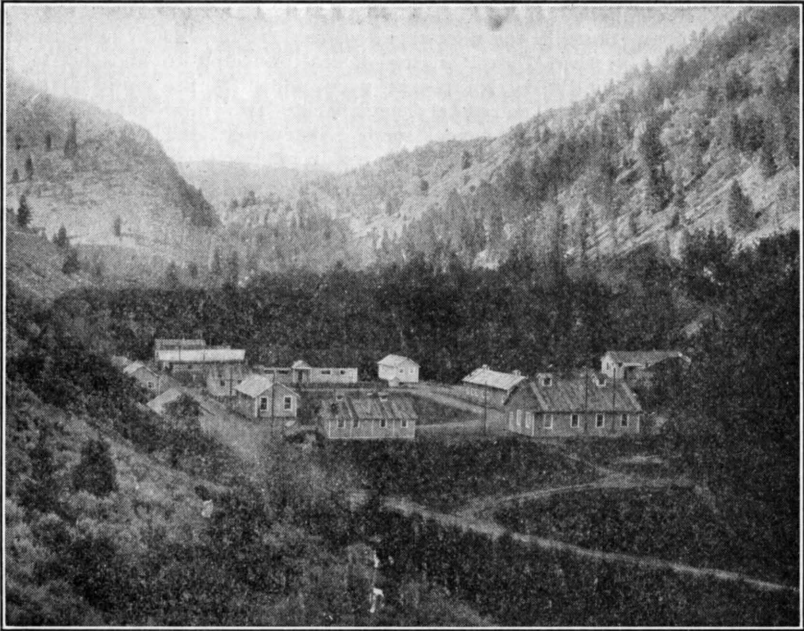
Lessees on the Blue Jay and the mine owned by the White Knob Mining Co. were also successful in discovering new ore which was of importance.

The famous Ramshorn mine at Bay Horse, which at one time was one of the largest silver producers in the State, was operated throughout the year by lessees who marketed a small tonnage of ore.

Important disclosures of new ore were made by the Burns Mining & Milling Co. and the Seafoam Mines Corporation, both in the Seafoam district, and at the Williams-Dryden mine in the Bay Horse district near Clayton.

The remaining placer deposits in this county which justify exploitation and development by hydraulic and dredging operations received much attention from investigators during the year. The most important of these operations were the churn drilling and shaft prospecting done on the Yankee Fork placers near the old town of Bonanza.

During the year Custer County witnessed a larger amount of scouting and prospecting for new lead-silver-zinc mines than did any other county in the State. Many of the investigators were favorably impressed, and a few new enterprises are in embryo. The outlook for new mine development, increased production and greater activity by the established companies is exceedingly bright.



MINE CAMP OF FORD MOTOR CO.

**AZTEC MINING & MILLING CO.**

**Office:** 839 W. Lander St., Pocatello. **Officers:** T. W. Galigher, Pres.-Mgr., 915 N. 21st St., Boise; B. F. Anderson, Sec., Pocatello. **Inc.:** May 26, 1917. Capital stock increased Feb. 2, 1925. **Capital:** 50,000 shares; par value \$1; 29,096 shares issued. **Property:** Kingfisher group; 3 unpatented claims, Stanley dist.; Stanley. **Development:** Approximately 1400 ft. development work. **Plant:** 25 h. p. steam driven hoist. **Remarks:** In addition to annual labor, a small amount of road work was performed during the year.

**BURNS MINING & MILLING CO.**

**Office:** Meridian. **Officers:** G. W. Parkin, Pres., J. M. Evans, Sec., both P. O. Box 63, Meridian. **Inc.:** May 3, 1911. **Capital:** 500,000 shares; par value \$1; 337,877 shares issued. **Property:** Burns group; 7 unpatented claims, Seafoam dist.; Stanley. **Development:** Approximately 750 ft. of workings. **Ore:** Lead-silver, gold. **Remarks:** This company was active throughout the summer months. This development work resulted in exposing one of the principal new lead-silver ore discoveries in the State during the year.

**CHAMPION MINING CO.**

**Office:** P. O. Box 56, Salt Lake City, Utah. **Officers:** Edward R. Hall, Pres., Maitland, Fla.; R. T. Badger, Sec., 229 S. W. Temple St.; C. T. Mixer, Mgr., both of Salt Lake City, Utah. **Inc.:** Nov. 9, 1905. **Capital:** 1,000,000 shares; par value 10c; 921,715 shares issued. **Property:** Champion group; 8 unpatented claims between Cliff and Alder Creeks, Alder Creek dist.; Mackay. **Development:** 2000 ft. of underground workings. **Ore:** Lead-silver. **Men employed:** Average, 1. **Remarks:** Small amount of development work during the year. .

**EAST STAR MINING CO.**

**Office:** Downey. **Officers:** Albert Christenson, Pres., G. T. Hyde, Sec., both of Downey; L. W. Johnson, Mgr., Arco. **Inc.:** Apr. 16, 1924. **Capital:** 1,000,000 shares; par value 25c; 800,000 shares issued. **Property:** East Star group; 4 unpatented claims, Alder Creek district; Mackay. **Development:** By one tunnel 235 ft. long. **Remarks:** Small amount of development work throughout the year, funds for which were derived from stock assessments.

**FORD MOTOR CO.**

**Office:** Highland Park, Mich. **Officers:** Edsel B. Ford, Pres.; B. J. Craig, Sec., both of Highland Park, Mich.; M. E. Willmott, Mgr., Clayton. **Inc.:** Filed in Idaho, Jan. 6, 1925. **Capital:** 1,000,000 shares; par value \$100. **Property:** Red Bird and South Butte groups; 54 unpatented claims and 6 millsites, held under lease and bond, Bay Horse dist.; Clayton; R. R. Mackay, 70 miles. **Development:** Principal development on Red Bird group consists of 4 tunnels: No. 1, 500 ft. long; No. 2, 1300 ft. long; No. 4, 510 ft. long; No. 9, 2127 ft. long, giving a total depth of 900 ft. on the vein; total development approximately 23,000 ft. **Plant:** Two I-R semi-Diesel engines, type POC 2, direct connected to compressors; complete mining equipment including two diamond drills; shops and mining camp consisting of eleven buildings. **Ore:** Lead-silver. **Men employed:** Average, 75. **Remarks:** Control of the property was acquired in the late months of 1924; the buildings were constructed and equipment installed early in 1925, and an active prospecting campaign was maintained throughout the year. A large part of this work was diamond drilling, to which all development work was confined from October 1, 1925, to January, 1926, after which an extensive mine development campaign was conducted until July, when all underground work was suspended. Hydro-electric power plant and mining claim patent surveys were made during the latter part of the year. Stories carried in the press during the month of June were to the effect that the diamond drilling and development work proved a substantial tonnage of new ore. The surveying of the mining claims for patents indicated that the company intended to exercise its option to purchase the property, which was interpreted by the press as convincing proof that sufficient ore was developed to justify such a move. Metallurgical investigations were also conducted during the year. Wages paid by this company do not conform to the wage scale in effect throughout the State. All employees start at a wage of \$5 per day. After a period of 60 days, the wage is automatically increased to \$6 per day, after which further increases granted are based on the manager's discretion.

**GOLDEN CENTER MINING CO.**

**Officers:** Wayne Darlington, Mgr., Mackay. **Inc.:** Never filed in Idaho. **Capital:** Unknown. **Property:** Williams-Dryden group; 10 unpatented claims held under lease and option, Bay Horse dist.; Clayton. **Development:** By 3 tunnels, the principal one of which is a 500-foot crosscut. **Plant:** Portable gas-driven compressor, complete mining equipment and camp. **Ore:** Lead-silver-zinc. **Men employed:** Average, 6. **Remarks:** The principal tunnel, which is a 500-foot crosscut, was driven and 200 ft. of drifting done during the year. This work resulted in exposing a good showing of ore.

**GREYHOUND MINING & MILLING CO., LTD.**

**Office:** Gem Bldg., Boise. **Officers:** W. C. Annett, Pres.; Edward Smith, Sec., both of Boise. **Inc.:** Sept. 2, 1902. **Capital:** 1,500,000 shares; par value \$1; 1,483,299 shares issued. **Property:** Greyhound group; 7 patented claims,

Seafoam dist.; Stanley. **Plant:** Stamp mill, ten 1050 lbs. stamps; crusher; 2 Dorr classifiers; 4 vanners and a small circular blast furnace. **Remarks:** Idle since 1910.

**HECLA MINING CO.** (See Shoshone County)

**Office:** Wallace. **Officers:** James F. McCarthy, Pres.-Mgr.; L. E. Hanley, Sec.; both of Wallace. **Inc.:** Sept. 26, 1898. **Capital:** 1,000,000 shares; par value 25c; all shares issued.

**SOUTH BUTTE GROUP**

**Property:** 17 unpatented claims, Bayhorse district; Clayton; held under lease and option. R. R. Mackay, 70 miles. **Development:** Principally by one tunnel, 1000 ft. long, in which is a vertical shaft 50 ft. deep. **Plant:** Gas-driven hoist; camp and complete hand mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 10. **Remarks:** Property was acquired, mine plant and camp installed, and about 400 ft. of drifting performed on the vein during the year. At the close of the year work had been started to extend the shaft to a total depth of 200 ft.

**MOUNTAIN KING GROUP**

**Property:** 15 unpatented claims, Sheep Mountain district; Stanley; held under lease and option from J. B. Eldridge, Boise. R. R. Ketchum, 115 miles. **Development:** By 2 tunnels; No. 1, 250 ft. long; No. 2, 800 ft. long. They are connected by a 70-ft. raise. **Ore:** Lead-silver. **Men employed:** Average, 7. **Remarks:** Property was acquired and development work started early in the year. This work resulted in one of the principal new lead-silver ore exposures opened in the State during the year.

**JOSEPHUS LAKE GROUP**

**Property:** 6 unpatented claims, Seafoam district; Stanley; held under lease and option from E. H. Hasbrouck, Boise. R. R. Ketchum, 110 miles. **Men employed:** Average, 3. **Remarks:** During the summer months the old workings were cleaned out and put into shape to permit sampling and further investigation.

**HORSE SHOE COPPER CO., LTD.**

**Office:** Mackay. **Officers:** Geo. L. Morgan, Pres.-Mgr.; D. V. Archbold, Sec., both of Mackay. **Inc.:** Dec. 10, 1903. **Capital:** 1,000,000 shares; par value \$1; 916,150 shares issued. **Property:** Horse Shoe group; 20 unpatented claims, Alder Creek district; Mackay. **Development:** This mine is developed principally by 3 tunnels and 1 vertical shaft, 300 ft. deep, and a large amount of crosscuts, drifts and raises, totalling over 2000 ft. **Plant:** MINE: Electrically driven 2-drill compressor and hoist. Complete mine camp. **Ore:** Lead, silver, copper. **Remarks:** Property under lease and option to Kay Development Co., which see.

**IDAHO METALS CO.**

**Office:** Mackay. **Officers:** L. R. Eccles, Pres.; H. D. Campbell, Sec., both of Ogden, Utah. **Inc.:** Oct. 8, 1921. **Capital:** 1,200,000 shares; par value \$1; all shares issued. **Property:** Empire Copper group; 20 patented, 19 unpatented claims, Alder Creek dist.; Mackay. **Development:** Over 20 miles of underground workings, the principal entries being the Cossack and Alberta tunnels; the Cossack is 650 feet below the Alberta tunnel; the principal shaft is the Empire, which is in the Alberta tunnel and extends 350 feet below. **Plant:** MINE: Air driven hoist; 20-drill, steam driven Laidlaw-Dunn-Gordon compressor, and an aerial tramway 16,300 ft. long connecting mine with railroad. **MILL:** 150-ton concentrator, consisting of fine grinding and flotation. **Ore:** Copper-silver-gold. **Men employed:** Average, 40. **Remarks:** This mine was an active producer for over 21 years.

**IVANHOE MINING CO.**

**Office:** 485 California St., San Francisco, Cal. **Officers:** Harry L. Tevis, Pres.; William Letson, Sec., both of San Francisco, Cal. **Inc.:** Filed in Idaho, July 28, 1909. **Capital:** 2500 shares; par value \$1; all shares issued. **Property:** Badger group; 6 patented claims, Yankee Fork dist.; Clayton. **Remarks:** Idle for many years.

**KAY DEVELOPMENT CO., INC.**

**Office:** 253 Broadway, New York. **Officers:** Wayne Darlington, Pres.-Mgr., Mackay; Kenneth O'Brien, Sec., New York City. **Inc.:** March 17, 1924. **Capital:** 5000 shares; par value \$100; shares issued, unknown. **Property:** Lease and option on the property of the Horse Shoe Copper Co., Ltd., Alder Creek dist.; Mackay. **Development:** Principally by 2 tunnels, No. 1, 450 ft. long, No. 2, 600 ft. long; and a 2-compartment vertical shaft 350 ft. deep, in which are four intermediate levels. **Plant:** Electrically driven 2-drill compressor, and hoist; complete mining equipment and mine camp. **Ore:** Lead-zinc-silver, copper-silver. **Men employed:** Average, 7. **Remarks:** Active mining operations conducted throughout the year. This company is one of the principal operators in the Mackay district, and was successful in exposing a large body of new ore during the year. A small tonnage of ore was produced and marketed.

**LIVINGSTON MINES CORPORATION**

**Office:** 25 Broad St., New York City. **Officers:** A. W. Walker, Pres. and managing director, Mackay; James A. Dayton, Sec., New York City; Arthur V. Corry, Res. Mgr., Mackay. **Inc.:** July 23, 1923. **Capital:** 3,000,000 shares; par value \$1; 2,300,000 shares issued. **Property:** Livingston group; 7 patented, 9 unpatented claims, Boulder dist.; Mackay. **Development:** Principally by 7 tunnels, averaging from 200 to 2400 ft. in length; No. 6, or Livingston tunnel, is 550 ft. in length, and No. 7, or tramway tunnel, is 2450 ft. in length. Total development, approximately 7750 ft. **Plant:** MINE: 3 electrically driven compressors, one of which is a 12x14 Sullivan, one a 10x10 Ingersoll-Rand, and the third a 12x16 I-R; complete mining equipment and mine camp; 3-mile aerial tramway connecting mine and mill, and 1000-ft aerial tramway connecting Livingston tunnel with headhouse of main tram. MILL: 300-ton concentrator, including flotation, Blake crusher, Symonds disc crusher, Davis rolls, two 6-ft. Hardinge ball mills, 6 Wilfley tables, Callow flotation, complete mill camp. POWER PLANT: 380 h. p. hydroelectric power plant, supplemented with a 250 h. p. I-R vertical Diesel engine; 8-mile electric transmission and telephone lines connecting power plant, mill and mine. **Ore:** Lead-silver. **Men employed:** Average, 79. **Remarks:** During the past four years, the expenditure made by this company for new construction work and plant installation is one of the largest made by any development company in the State. In 1925 this company was successful in exposing one of the largest bodies of high-grade lead-silver ore which has been found in southern Idaho during the past 30 years; development work done during 1926 further demonstrated the importance of this discovery. During the year a large tonnage of high-grade crude ore and concentrate was marketed; the mill and tramway were modified and reconstructed; the Diesel engine was added to the power plant; a large number of new camp buildings, both mine and mill, were built; and a large expenditure was made in new road construction and betterments. This company is becoming recognized as one of the principal mining enterprises in south-central Idaho.

**LOON CREEK HYDRAULIC PLACER MINING CO., LTD.**

**Office:** 301 S. Main St., Salt Lake City, Utah. **Officers:** J. Frank Judge, Pres., Los Angeles; John J. Harvey, Sec., Salt Lake City; John P. Boyle, Mgr., Stanley. **Inc.:** May 17, 1905. **Capital:** 300,000 shares; par value \$1; all shares issued. **Property:** 4 unpatented placer claims, Loon Creek dist.; Stanley. **Plant:** 4000 ft. timber flume, 5 ft. wide and 3 ft. high; two-thirds of a mile of ditch; sawmill, and complete mine camp. **Remarks:** This company owns a large tract of placer ground suitable for hydraulic mining. Annual labor only.

**LOST HORSE MINING CO.**

**Office:** Challis. **Officers:** C. L. Kirtley, Pres.; N. C. Hovey, Sec.; E. C. Salomon, Mgr.; all of Challis. **Inc.:** Sept. 20, 1919. **Capital:** 1,000,000 shares; par value 10c; 426,750 shares issued. **Property:** Silver Queen group; 5 unpatented claims, Yankee Fork dist.; Challis. **Development:** By 4 tunnels, the longest of which is 150 ft. **Remarks:** Annual labor only.

**MAC GINNISS-WALKER METALS CO.**

**Office:** Room 1618, 25 Broad St., New York City. **Officers:** John MacGinniss, Pres., Craig, Montana; James A. Dayton, Sec., New York; A. W. Walker, Mgr., Mackay. **Inc.:** May 25, 1925. **Capital:** 1,000,000 shares; par value \$1; no shares issued.

**WHY NOT GROUP**

**Property:** 2 patented, 3 unpatented claims, Yankee Fork dist.; Clayton. **Development:** Principally by one tunnel, which is over 700 ft. long. **Ore:** Gold-silver. **Men employed:** Average, 4. **Remarks:** Work was maintained throughout the year in extending the principal tunnel, which is a crosscut.

**PHI KAPPA GROUP**

**Property:** Phi Kappa group; Alto dist.; Mackay. R. R. Ketchum, 15 miles. **Plant:** Gas-driven compressor, complete mining equipment and camp. **Remarks:** The mine plant was installed and active development work started during the closing months of the year.

**MONTE CRISTO GOLD MINES CO.**

**Office:** Pocatello. **Officers:** W. H. Bohlscheid, Pres.-Mgr.; E. W. Larsen, Sec., both of Pocatello. **Inc.:** March 19, 1917. **Capital:** 1,000,000 shares; par value \$1; 680,689 shares issued. **Property:** Monte Cristo group; 9 unpatented claims, Loon Creek dist.; Clayton. **Development:** By 2 tunnels: No. 1, 800 ft. long; No. 2, 350 ft. long. **Ore:** Gold. **Men employed:** Average, 3. **Remarks:** A small amount of development work was done during the summer months.

**NATIONAL CONSOLIDATED MINES CO.**

**Office:** 116 N. Ninth St., Boise. **Officers:** W. H. Paddock, Pres.; J. A. Johtnz, Sec., both of Boise. **Inc.:** Apr. 13, 1926. **Capital:** 2,000,000 shares; par value \$1; 150,500 shares issued. **Property:** 5 unpatented claims, East Fork mining district; Ketchum. Held under lease and option from John R. Crist, Mackay. **Ore:** Lead-zinc-silver. **Development:** By 2 tunnels: No. 1, 225 ft.; No. 2, 150 ft.; about 50 crosscuts on surface. **Remarks:** This company acquired the property in May, but its option was forfeited through failure to commence mining operations.

**PHEMSPACE MINES CO.**

**Office:** 721 Seventh St., Rochelle, Ill. **Officers:** E. M. Wagner, Pres.; P. A. Wagner, Sec., both of Rochelle, Ill. **Inc.:** Jan. 3, 1906. **Capital:** 1,000,000 shares; par value \$1; 100,000 shares issued. **Property:** Phemspace group; 14 unpatented claims, Stanley dist.; Stanley. **Development:** By 5 tunnels, totaling approximately 1400 ft.



**RAMSHORN MINES CO.**

**Office:** 321 Felt Bldg., Salt Lake City, Utah. **Officers:** O. J. Salisbury, Pres.; C. B. Felt, Sec., both of Salt Lake City, Utah; Frank H. Skeels, Managing Engineer, Bay Horse. **Inc.:** July 14, 1919. **Capital:** 150,000 shares; par value \$10; all shares issued. **Property:** Ramshorn and Beardsley groups; 14 patented, 5 unpatented claims, Bay Horse dist.; Bay Horse. **Development:** Approximately 6½ miles of underground workings with 10 intermediate levels. **Plant:** MINE: Laidlaw-Dunn-Gordon duplex 13x8x10 compressor, electrically driven; complete mine equipment and camp. **MILL:** 60-ton fine grinding flotation, gyratory crusher; primary and secondary rolls; ball mill; Dorr classifier; Fagergren and Janney flotation cells; American vacuum filter; dryer. Entire mill electrically driven. **Ore:** Silver-copper, lead. **Men employed:** 20 lessees. **Remarks:** Property operated throughout the year by lessees, who produced and marketed a small tonnage of ore.

**SALMON RIVER MINING CO.**

**Office:** c-o U. S. Trust Co., Terre Haute, Ind. **Officers:** John T. Beasley, Pres.; William K. Hamilton, Sec., both of Terre Haute, Ind. **Inc.:** July 6, 1910. **Capital:** 500,000 shares; par value \$1; 400,000 shares issued. **Property:** Pacific group; 12 patented claims, Bay Horse dist.; Bay Horse. **Remarks:** Idle for 14 years.

**SEAFOAM MINES CORPORATION**

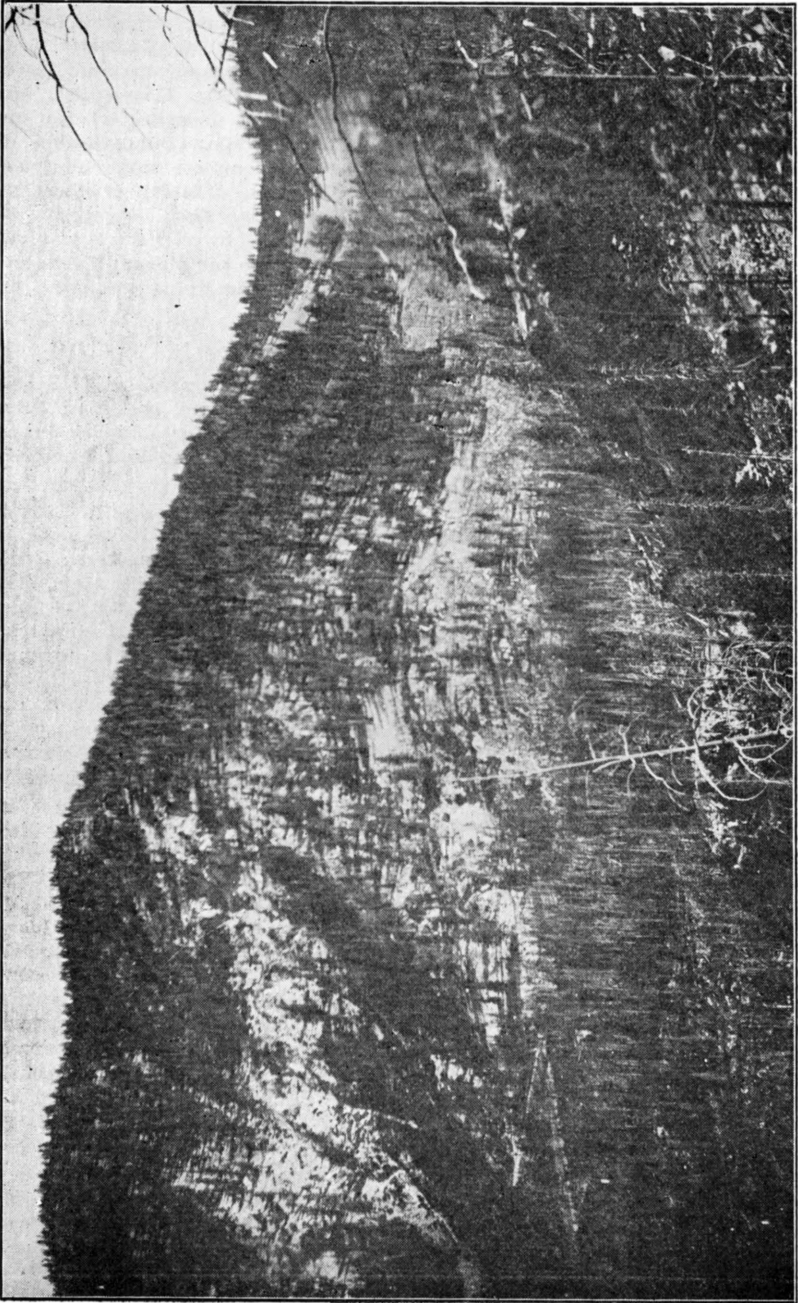
**Office:** 401 Pinney Bldg., Boise. **Officers:** J. C. Hungerman, Pres.; Geo. L. Lafbury, Sec., both of Pittsburgh, Pa.; Walter Hovey Hill, Mgr., Boise. **Inc.:** Oct. 17, 1923. **Capital:** 500,000 shares; no par value; 300,000 shares issued. **Property:** Providence group; 6 patented claims, 13 unpatented claims, Seafoam dist.; Stanley. **Development:** By 8 tunnels, the principal of which is 250 ft. long; total development, approximately 1700 ft. **Ore:** Gold, silver, lead. **Men employed:** Average, 12. **Remarks:** This company is one of the principal development enterprises in south-central Idaho. Active development work was maintained throughout the year, and the opening up of a substantial showing of high-grade gold ore was reported.

**TWIN APEX MINES CO.**

**Office:** 423 Ness Bldg., Salt Lake City. **Officers:** H. S. Brooks, Pres.; G. F. McGonagle, Sec., both of Salt Lake City; Wm. McClure, Mgr., Clayton. **Inc.:** Sept. 19, 1925. **Capital:** 1,000,000 shares; par value 5c; 600,000 shares issued. **Property:** Twin Apex group; 7 unpatented claims, on Squaw Creek, Bay Horse dist.; Clayton. **Development:** Principally by one tunnel 300 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** Continuous work was conducted during the year, which further opened up the new ore exposed in 1925. A small gas-driven compressor was installed, and work started on a new tunnel which will develop the vein at a greater depth.

**WHITE KNOB MINING CO.**

**Office:** Newhouse Bldg., Salt Lake City, Utah. **Officers:** D. D. Muir, Jr., Pres.; W. W. Rager, Sec., both of Salt Lake City, Utah. **Inc.:** Aug. 23, 1919. **Capital:** 500,000 shares; par value \$1; 127,510 shares issued. **Property:** White Knob group; 3 unpatented claims, Alder Creek dist.; Mackay. **Development:** Principally by two tunnels and one vertical shaft 250 feet deep. **Plant:** 40 h. p. gas driven hoist. **Ore:** Lead-silver. **Remarks:** Operated by lessees who made a number of shipments during the year.



SEAFOAM MOUNTAIN AND CAMP OF SEAFOAM MINES CORPORATION.

**YANKEE FORK PLACER CO., LTD.**

**Office:** 605 Overland Bldg., Boise. **Officers:** James H. Hawley, Pres.; James H. Hawley, Jr., Mgr., both of Boise. **Inc.:** April 7, 1906. **Capital:** 400,000 shares; par value \$1; all shares issued. **Property:** Bonanza group; 5 patented placer claims; 320 acres on Yankee Fork Creek, Yankee Fork dist.; Clayton. **Remarks:** Property under lease to R. E. Whitten, Grimes Pass, who was successful in having the ground prospected by churn drills and shafts. This work was suspended during the winter months.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Anderson et al.	Boulder	Wm. Anderson	New Grand Hotel, Salt Lake City, U.
American et al.	Bay Horse	Ivie Bros.	Mackay
Alto Coppers	Alto	Hannah Donahue	Mackay
Andromeda et al.	Alder Creek	J. S. Taylor	Mackay
Badger	Stanley	Henry Duffy	Stanley
Basin Creek Placer	Stanley Basin	W. K. Lynch	Stanley
Bellevue	Bay Horse	A. D. Sargent	Challis
Big Chief	Alto	J. C. Martin	Mackay
Big Liz	Alder Creek	John Turner	Mackay
Birdie Girl	Seafoam	P. H. Rasche	Stanley
Bisbee et al.	Alder Creek	Le Roy Rhodes	Mackay
Black Daisy	Alder Creek	Geo. R. Morgan	Mackay
Blossom Placer	Yankee Fork	Peter Burch	Bonanza
Blue Bird	Bay Horse	J. D. Sullivan	Clayton
Blue Bird	Alder Creek	W. Darlington, Agt.	Mackay
Blue Jay	Alder Creek	A. W. Canady Est.	Mackay
Bob Cat	Bay Horse	Ralph Gianoli	Clayton
Broadway Gr.	Boulder	Ed. Hinze	Challis
B. R. S	Seafoam	F. P. Richards	Mackay
Buckhorn et al.	East Fork	John R. Creist	Clayton
Buckskin	Alder Creek	H. P. Hunter	Mackay
Carbonate	Alder Creek	Wm. Stevenson Est.	Mackay
Cash Box	Loon Creek	Geo. Bowden	Bonanza
Cave	Bay Horse	Chris Peterson	Bay Horse
Chas. Dickens	Yankee Fork	Chase Clark	Mackay
Columbia Standard	Alder Creek	George Manwaring	Salt Lake City, Utah
Compass	Bay Horse	D. Gekeler	Clayton
Consolidated	Alto	Hannah Donahue	Mackay
Copper Basin	Alder Creek	F. A. Stacy	Mackay
Copper Cut	Alto	E. W. Hovey	Mackay
Copperopolis	Alder Creek	H. P. Hunter	Mackay
Corn Gressor	Copper Basin	S. W. Anderson	Mackay
Crater	Boulder	R. M. Black	Clayton
Deer Trail	East Fork	Geo. Blackman	Clayton
Democrat et al	Bay Horse	Mrs. Lee Watson	Challis
Dewey	Fast Fork	Andrew Nielson	Obsidian
Dougherty	Bay Horse	E. A. Dougherty	Challis
Dryden	Bay Horse	F. D. Williams	Challis
Filkhorn Gr.	Seafoam	Joseph Singer	Boise
Ella B. Gr.	Seafoam	A. R. Smith	Stanley
Enterprise	Yankee Fork	I. U. Hager	Mackay
Flag Staff	Alder Creek	H. E. Gilbert	Mackay
Florence	Stanley	H. H. Benzer	Stanley
Forest Bell	Yankee Fork	Chase A. Clark	Clayton

## MINING INDUSTRY OF IDAHO

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Forest Rose	Bay Horse	Pietro Pedrini	Challis
Golden Glow	Stanley	J. E. Smith	Stanley
Gold King	Alder Creek	Ed. Maelzer	Mackay
Gold Star et al.	Yankee Fork	B. W. Clark	Clayton
Good Friend et al.	Bay Horse	John Ernst	Clayton
Greenhorn et al.	Seafoam	Chas. H. Smith	Stanley
Grey Copper	Bay Horse	Dewey Bros.	Jerome
Grub Getter	Alder Creek	Gardener Bros.	Mackay
Hermit Gr.	Bay Horse	W. E. Smith, Agt.	Challis
Hidden Treasure	Yankee Fork	J. A. Franklin, Agt.	Custer
Hohmann Placer	Stanley Basin	Walter K. Lynch	Stanley
Home Stake et al.	Bay Horse	James Beattie	Challis
Horse Shoe	Alder Creek	Chas. Nolan, Adm.	Mackay
Hummer	Yankee Fork	Chase A Clark	Clayton
Idaho	Bay Horse	Wm. Swigert	Challis
Idaho Girl	Stanley	Robt. McAllister	Stanley
Idaho Gr.	Seafoam	Wm. Chevier	Stanley
International	Alder Creek	Hanna Donahue	Mackay
Joe Gulch	Yankee Fork	F. Georgetta	Clayton
Joe's Gulch Placer	Stanley Basin	W. W. Smith	Stanley
Josephus Lake	Seafoam	E. H. Hasbrouck	224 E. Idaho St., Boise
Katherine	Bay Horse	C. A. Torrey	Clayton
Kelly Gulch Placer	Stanley Basin	Henry Turkey	Stanley
Kerr & Kerr	Alder Creek	Custer Devel. Co.	Mackay
Keystone	Bay Horse	Wilson & Fox	Challis
Kingfisher et al.	Yankee Fork	Frank G. Fisher	Obsidian
Last Chance et al.	Bay Horse	Robert E. Muir	Challis
Last Resort	East Fork	Rosa V. Carman	Clayton
Left Wing	Bay Horse	E. J. Michael, Agt.	Challis
Little Johnny	Alder Creek	F. A. Stacey	Mackay
Lodge Pole	Alto	J. W. Brown	Mackay
Lost Eagle	Loon Creek	Carl Malm	Challis
Lost Packer	Loon Creek	Henry Welsh	724 E. 2d St., Salt Lake City
Lucky Boy	Yankee Fork	W. S. McCornick	Salt Lake City, U.
Lucky Strike	Stanley	Henry Jones	Stanley
May Flower	East Fork	Wm. Fisher	Clayton
Morning Star	Yankee Fork	J. H. Young	Clayton
Mountain Girl	Stanley Basin	J. H. Thompson	Stanley
Mt. Sullivan No. 1	Alder Creek	G. W. Stewart	Mackay
Niagara	Seafoam	F. P. Richards	Mackay
Orelena	Loon Creek	Juanitta Eddy	Salt Lake City, U.
Peerless	Alder Creek	J. E. Campbell	Mackay
Piolet House	Alder Creek	M. S. Vaught	Mackay
River Queen	Bay Horse	Phillip Gossi	Clayton
Robinson Bar Dg.	Yankee Fork	Hoalt & Linquist	Clayton
Rob Roy	Bay Horse	Caesar Maraffio	Clayton
Rough Creek	Yankee Fork	G. W. Friend	Clayton
Silver	Yankee Fork	F. G. Fisher	Obsidian
Silver Bell	Alder Creek	Johnson & Haney	Mackay
Singer Gr.	Sheep Mountain	W. H. Brose	Boise
Snowdrift	Yankee Fork	Frank Casto	Challis
Solon Jr.	Alto	Martin & Clark	Mackay

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
South Butte	Bay Horse	William McClure	Mackay
Speculator	Alder Creek	H. P. Hunter	Mackay
Square Deal	Bay Horse	M. E. Crawford	Clayton
Sun Rise	Alder Creek	F. A. Stacy	Mackay
Sunrise et al.	Loon Creek	J. T. Metcalf	Clayton
Taylor Gr.	Alder Creek	Taylor & Munson	Mackay
Tip Top	Alder Creek	Gus Munson	Mackay
Tracy et al.	Seafoam	A. R. Smith	Challis
Turtle	Bay Horse	N. S. Churchill	Mackay
Vulture et al.	East Fork	Antonio Caprilla	Clayton
Waxahachia	Alder Creek	S. W. Anderson	Mackay
White Elephant	Alder Creek	Daniel Clark	Mackay
Whynot	Yankee Fork	Amos Franklin	Clayton
Yellow Jacket	Stanley	Ed. Martin	Stanley
Zodiac	Bay Horse	E. J. Michael, Agt.	Challis

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## ELMORE COUNTY

Elmore is one of the southwestern counties, being bounded on the south by Owyhee, on the west by Ada, on the north by Boise, and on the east by Blaine, Camas, and Gooding counties. A large part of the drainage basin of the Boise River is included within its 2808 square miles, which was accredited with a population of 5087 in the 1920 census. The chief industries are stockraising—principally sheep—farming, and mining.

The southern part of the county is served by the main line of the O. S. L. Railroad and the principal east-west State highway, the Old Oregon Trail; a well built and maintained system of county roads extends into all the various mining districts and sections. Mountain Home is the largest town and county seat.

The principal mineral resources are gold, silver, copper, lead, zinc, arsenic, molybdenum, diatomaceous earth, and potassium nitrate.

In past years this county was a noted producer of high-grade gold-silver ores and placer gold, particularly when the mines in the Atlanta and Rocky Bar districts were being worked. The placer ground which could be hydraulicked has long been exhausted, and the quartz mines have been dormant for years, having been closed down either through litigation, lack of power, or finances. These districts offer many opportunities to development companies and, since power is within easy reach from Featherville, there appears to be no reason why the mines are not receiving more attention.

The South Park Dredging Co. at Featherville continues to be the largest mining enterprise in the county. The dredge was operated the greater part of the year, and the tailing stacker and digging ladder were lengthened to permit digging at a greater depth. The record this enterprise is making is a big factor in the welfare of the district and is attracting attention to the mineral resources and possibilities of this part of the State.

The Rocky Bar district witnessed a little improvement in the starting of new enterprises over that of the previous year, although no work of any importance was performed.

The Atlanta district was more active, witnessing more investigations and the initiation of more new enterprises than at any time during the past ten years. Three old deep mines resumed operations under new organizations, and plant construction on a hydraulic placer mine was started.

The Franklin Consolidated Gold Mines Co., which acquired the old Franklin mine in the Pine Grove district in 1925, maintained an active development campaign until litigation compelled a suspension late in the year.

**APEX GOLD MINING CO.**

**Office:** Box 165, Nampa. **Officers:** Dr. J. C. Lay, Pres., M. A. Cook, Sec., both of Nampa. **Inc.:** Oct. 15, 1926. **Capital:** 400,000 shares, par value \$1; 200,000 shares issued. **Property:** West Ophir group, 5 unpatented claims; Rocky Bar. **Development:** By 4 tunnels, totaling about 400 feet.

**BLACKSTONE MINING CO., LTD.**

**Officers:** James H. Hawley, Pres.; Charles W. Mack, Sec., both of Boise. **Inc.:** December 26, 1899. **Capital:** 1,000,000 shares; par value 10c; shares issued, unknown. **Property:** 5 patented claims, Blackstone dist.; Hill City.

**CLARK GULCH DEVELOPMENT CO.**

**Office:** Box 134, Gresham, Ore. **Officers:** G. E. Mallett, Pres., Gresham, Ore.; R. A. Peck, Mgr., Featherville. **Inc.:** Dec. 28, 1925. **Capital:** 2500 shares; par value \$10; 110 shares issued. **Property:** 5 unpatented claims, Bear Creek district; Featherville. **Development:** 1 tunnel 213 ft. long.

**DALEY CONSOLIDATED MINES CO.**

**Office:** Mountain Home. **Officers:** Daniel Reber, Pres.-Mgr.; Max Wagner, Sec., both of Mountain Home. **Inc.:** Nov. 1, 1913. **Capital:** 1,500,000 shares; par value \$1; 1,200,000 shares issued. **Property:** Daley group; 50 unpatented claims, Dixie, unorganized dist.; Bennett. **Development:** Approximately 4500 ft. of underground workings, the principal of which are: a tunnel 1800 ft. long; a vertical shaft 100 ft. deep; and an inclined shaft 460 ft. long with 5 intermediate levels. **Plant:** Two 40-h. p. boilers; steam driven hoist and compressor; complete mining equipment and camp. **Ore:** Gold-lead-silver. **Remarks:** Annual labor only.

**FRANKLIN CONSOLIDATED GOLD MINES CO.**

**Office:** Pine. **Officers:** John J. Stanford, Pres., Fred T. Kelly, Sec.-Mgr.; both of Pine. **Inc.:** Dec. 22, 1925. **Capital:** 1,250,000 shares; par value \$1; 634,400 shares issued. **Property:** Franklin group; 2 patented, 4 unpatented claims, held under lease and option, Pine Grove dist.; Pine. **Development:** Approximately 3000 ft. of underground workings, the principal of which is No. 3 tunnel, 860 ft. in length. **Plant:** An old 10-stamp mill including cyanide equipment. **Men employed:** Average, 8. **Remarks:** In September, 1925, this company acquired the old Franklin mine, which has a large production record. They rehabilitated the old workings and started new development work, which was maintained throughout the greater part of 1926.

**GEORGE F. ROTH CO.**

**Office:** P. O. Box 147, Rochester, N. Y. **Officers:** George F. Roth, Pres.; Walter J. Duffy, Sec., both of Rochester, N. Y. **Inc.:** June 17, 1909. **Capital:** 2500 shares; par value \$100; 2102 shares issued. **Property:** Homestake group; 7 patented, 3 unpatented claims; Neal dist.; c-o Mayfield Stage, Boise. **Ore:** Gold. **Remarks:** Idle.

**IDAHO GOLD CORPORATION**

**Office:** Hotel Chatham, New York City. **Officers:** George Graham Rice, Pres.; Katherine Rice, Sec.; W. H. Weed, Mgr.; all of New York City. **Inc.:** Filed in Idaho July 10, 1923. **Capital:** 5,000,000 shares; par value \$1; shares issued unknown. **Property:** 44 claims, Rocky Bar. **Development:** Principally by one tunnel, 1230 ft. long. **Ore:** Gold. **Men employed:** Average, 4. **Remarks:** Small amount of development work during the year. The manager stated: "All stockholders were given the right to purchase any part of treasury stock originally sold to K. Rice at 10c a share. \* \* \* \*"

**LA TRINIDAD MINING CO.**

**Office:** Las Vegas, Nevada. **Officers:** Leo A. McNamee, Pres.; Peter Buol, Sec., both of Las Vegas, Nevada; W. B. Grant, Mgr., Atlanta. **Inc.:** Filed in Idaho Sept. 9, 1926. **Capital:** 2,500,000 shares; par value \$1; 1,252,000 shares issued. **Property:** Black Warrior Placers; 12 unpatented claims, held under lease and option; Black Warrior district; Atlanta. **Ore:** Placer gold. **Men employed:** Average, 6. **Remarks:** A small amount of development work. A large amount of advertising in the sale of stock was done during the year.

**LITTLE QUEEN GROUP**

**Owner:** E. F. Money, 937 34th St., Seattle, Wash. **Inc.:** Not incorporated. **Property:** 3 unpatented claims, Middle Boise district; Atlanta. **Development:** Principally by one tunnel 100 ft. long. **Plant:** 7-ton Ellis mill and amalgamation. **Ore:** Gold. **Remarks:** Small amount of work during the year.

**MARSH CREEK MINING CO.**

**Officers:** Roy Y. Bogard, Pres.-Mgr., Burns, Ore.; Curtis F. Pike, Sec., 1317 Idaho St., Boise. **Inc.:** July 9, 1921. **Capital:** 1,000,000 shares; par value \$1; 39,985 shares issued. **Property:** 2 unpatented claims on Marsh Creek, Bear Creek dist.; Featherville.

**OMO MINES CORPORATION**

**Office:** 426 Chamber of Commerce Bldg., Spokane, Wash. **Officers:** J. T. Omo, Pres.-Mgr., O. C. Lapp, Sec.; both of Spokane. **Inc.:** Jan. 19, 1926, as Omo Mining & Leasing Co., name changed March 3, 1926. **Capital:** 2,000,000 shares; par value 5c; 1,240,000 shares issued. **Property:** General Grant group; held under lease and option; Bear Creek district; Rocky Bar. **Development:** By 4 tunnels, the principal one of which is 900 ft. long. **Plant:** MINE: 10x12 water-driven compressor; complete mine camp. **MILL:** 20-stamp, with amalgamation plates and concentrating tables. **Ore:** Gold. **Remarks:** A small amount of work was performed during the year under contract.

**PRECIOUS METALS CORPORATION**

**Office:** 615 Empire Bldg., Boise. **Officers:** S. K. Atkinson, Pres.; F. E. Johnesse, Mgr., both of Boise. **Inc.:** Mar. 30, 1922. **Capital:** 1,000,000 shares; par value \$1; 862,500 shares issued. **Property:** Revenue and Webster groups, 14 unpatented claims, Volcano district; Hill City. **Development:** By one tunnel 68 ft. long and an inclined shaft 50 ft. deep. **Remarks:** Annual labor only. The officers of the company state: "This corporation is a subsidiary of the Consolidated Mines Syndicate."

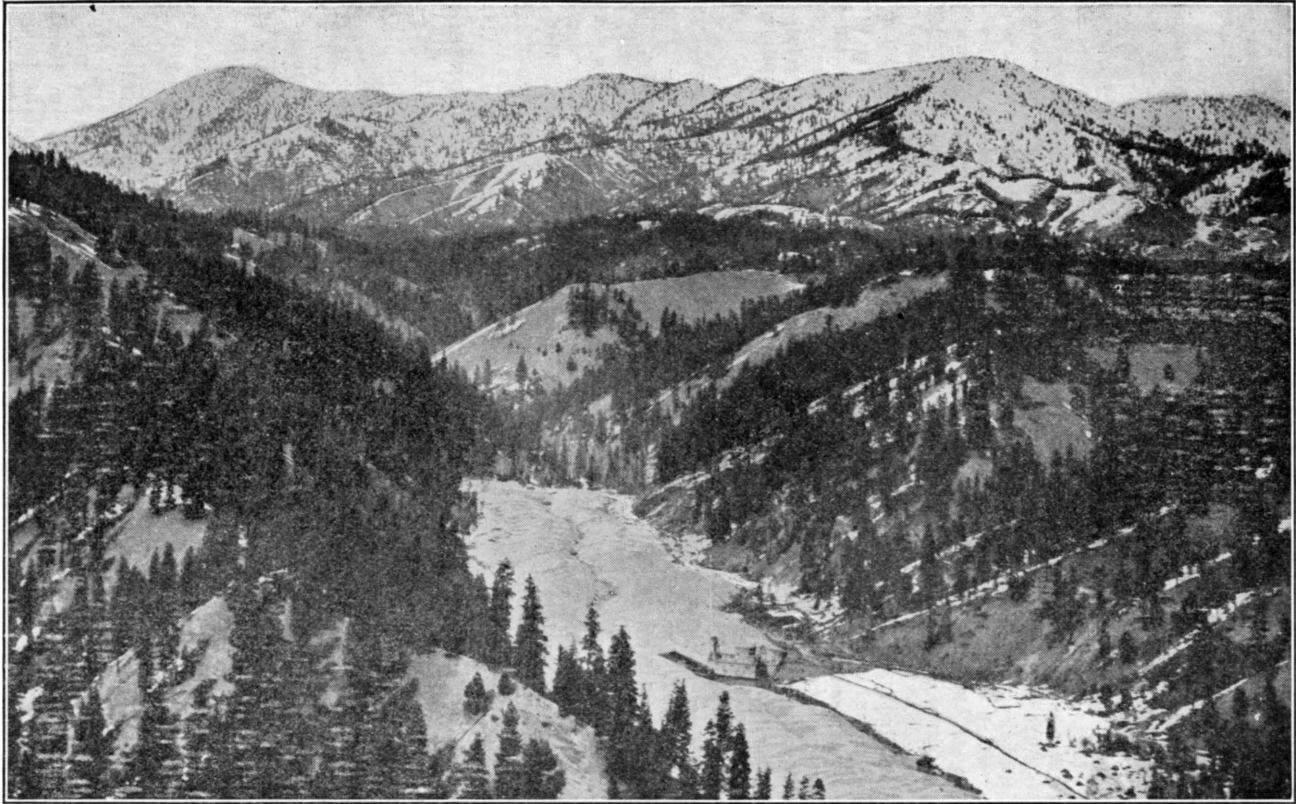
**QUEEN MINING AND MILLING CO.**

**Office:** Seattle, Wash. **Officers:** A. F. Haines, Pres.; John Ambler, Sec.; both of Seattle. **Inc.:** Sept. 2, 1926. **Capital:** 50,000 shares; par value \$1; all shares issued. **Property:** Queen River group; 8 unpatented claims, Middle Boise district; Atlanta. **Development:** By 5 tunnels; total development approximately 1000 ft. **Ore:** Gold. **Remarks:** Small amount of work performed during the summer months.

**S. E. MINING CO.**

**Office:** Pine. **Officers:** W. C. Settle, Pres., Pine; G. T. Ellison, Sec., Glens Ferry. **Inc.:** Sept. 30, 1926. **Capital:** 50,000 shares; par value \$1; all shares issued. **Property:** One unpatented claim, held under lease; Pine Grove district; Pine. **Development:** By one tunnel, 180 ft. long. **Ore:** Gold. **Remarks:** A small amount of work during the year.





FEATHERVILLE DREDGE OF SOUTH PARK DREDGING CO.

**SOUTH PARK DREDGING CO.**

**Office:** 433 California St., San Francisco, Cal. **Officers:** W. P. Hammon, Pres.; A. L. Dahl, Sec., both of San Francisco, Cal. **Inc.:** Sept. 12, 1921. **Capital:** 50,000 shares; no par value; all shares issued. **Property:** 1100 acres of dredging land on Feather River, Featherville dist.; Featherville. **Plant:** Yuba dredge, 9 cu. ft. buckets, close connected. The hull is constructed entirely of Oregon fir, 105 ft. long with 44 ft. 7 in. beam, 10 ft. deep, drawing 7 ft. water. The bucket line is composed of 67 buckets connected with pins weighing 150 lbs. each; the buckets weigh approximately 2000 lbs. each. The digging ladder is of the plate girder type, 75 ft. long and weighs approximately 50 tons. The lower tumbler is round and spool shaped; the upper tumbler is hexagonal. The tailing stacker is 124 ft. long and provided with a 36 in. conveyor belt. The entire dredge is electrically driven, 520 h. p. being required, and is operated from the winch room. The pump capacity is 5000 gallons per minute. **Ore:** Placer gold. **Men employed:** Average, 27. **Remarks:** Construction work was started in October, 1921, and the dredge commenced digging on August 21, 1922; a very remarkable record, as the entire dredge had to be transported 43 miles over rough mountain roads. In addition to building the dredge, a power line 43 miles long from Mountain Home to the dredge was built. The entire plant, including power line, involved an expenditure of over half a million dollars before a wheel was turned. Since digging was started active operation has been maintained. During 1926 the digging and stacker ladders were lengthened to permit mining at a greater depth.

**WHITE EAGLE MINING CO.**

**Office:** 610 Overland Bldg., Boise. **Officers:** W. P. Hogan, Pres.-Mgr., Portland, Ore.; C. W. Mack, Sec., Boise. **Inc.:** July 30, 1925. Charter forfeited Nov. 30, 1926. **Capital:** 1,000,000 shares; par value 25c; 712,942 shares issued. **Property:** Overlook group; 15 unpatented claims, held under lease and option from Overlook Consolidated Mining Co.; Black Warrior district; Atlanta. **Development:** By 5 tunnels, the principal one of which is 1200 ft. long. **Plant:** 10-stamp mill. **Ore:** Gold. **Men employed:** Average, 6. **Remarks:** A small amount of development work during the summer months.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Ada Elmore Gr.	Bear Creek	Grant McCargo	Pittsburgh, Pa.
Alice et al	Bear Creek	R. Y. Bogard	Rocky Bar
Alma Placer Gr.	Bear Creek	F. M. Dodge	Rocky Bar
April Fool	Middle Boise	J. C. Birdwell	Atlanta
Avis et al.	Pine Grove	Ray J. Allison	Pine
Badger No. 1	Neal	Chas. Fell	R. D. 5, Boise
Badger et al.	Neal	John T. Hammack	R. D. 5, Boise
Baltimore et al.	Middle Boise	Robt. B. Browne	Atlanta
Bear Gr. et al.	Bear Creek	F. M. Dodge	Rocky Bar
Ben Hur	Bear Creek	R. R. Osborne	Mountain Home
Benton Gr.	Middle Boise	G. L. Bixby	Atlanta
Big Five et al.	Bear Creek	Frank Bayhouse	Boise
Big Four et al.	Bear Creek	Rupert Winters	Featherville
Big Lode	Middle Boise	Frank T. Wyman	Boise
Bird Gr.	Pine Grove	Mrs. Alice M. Reecy	Mountain Home
Black Diamond	Bear Creek	Clara R. Brassch	Mountain Home
Black Ribbon	Bear Creek	E. C. Helfrich	Mountain Home
Black Warrior	Bear Creek	C. H. Allison	Beverly Hills, Cal.
Bobolink et al.	Bear Creek	Walter Walsh	Rocky Bar

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Boise Bar	Middle Boise	Thomas Walker	Atlanta
Boise-Rochester	Middle Boise	Jas. W. Stewart	Atlanta
Bonanza et al.	Bear Creek	Chas. Wyatt	Rocky Bar
Bonaparte Gr.	Bear Creek	Rupert Winters	Featherville
Bonnie Annie Gr.	Pine Grove	B. F. Skelton	Pine
Bowerman	Volcano	M. R. Wood	606 Marion St., Seattle, Wash.
Brooklyn et al.	Bear Creek	V. O. Neiswander	Rocky Bar
Cabin Claim	Middle Boise	Chester W. Rose	Glenns Ferry
Capital et al.	Middle Boise	John Bell	Atlanta
Cock Robin et al.	Bear Creek	Walter Walsh	Rocky Bar
Colorado et al	Bear Creek	Francis M. Nixon	Rocky Bar
Cornucopia et al.	Neal	John Hermo	427 Thatcher St., Boise
Cubin Flat et al.	Featherville	R. E. Reid	Featherville
Debs Gr.	Bear Creek	J. C. Edwards	Rocky Bar
Doolittle Gr.	Bear Creek	Elmer C. Towne	Rocky Bar
Edna et al.	Bear Creek	E. C. Helfrich	Mountain Home
Eureka	Twin Springs	W. L. West	Twin Springs
Evelyn	Bear Creek	Marion House	Mountain Home
Feather River	Featherville	R. E. Reid	Featherville
Flagstaff et al.	Bear Creek	Francis M. Nixon	Rocky Bar
Forest King et al	Bear Creek	Mrs. E. Tregonning	Box 893, Boise
Fourth of July	Middle Boise	Grant Wilson	Atlanta
Gold Bug et al.	Bear Creek	Chas. Wyatt	Rocky Bar
Gold Eagle	Neal	C. C. Anderson	Boise
Gold Gate No. 2	Bear Creek	Irving Brooks	Rocky Bar
Gold Hill et al.	Featherville	R. E. Reid	Featherville
Gold Key	Bear Creek	Ah Sing	Rocky Bar
Gold King Gr.	Middle Boise	Harry Teskey	Atlanta
Goldenrod et al.	Bear Creek	J. W. Silliven	Rocky Bar
Granby et al.	Middle Boise	G. L. Bixby	Atlanta
Gray Warrior et al.	Middle Boise	P. M. Swan	Atlanta
Greenback	Middle Boise	J. C. Birdwell	Atlanta
Gunny Sack Gr.	Middle Boise	John Timmons	Atlanta
Hazel Queen	Middle Boise	L. N. Franke	Atlanta
Hjordis et al.	Neal	Chas. A. Nelson	R. F. D. 4, Boise
Humming Bird	Middle Boise	Jas. A. Comer	Atlanta
Jericho Gr.	Middle Boise	Fritz Scholl	Atlanta
Keirman Gr.	Bear Creek	Dan Kirby	Boise
Keystone et al.	Featherville	E. N. Stone	Featherville
Kitty Hicks	Neal	J. F. Wilson	Mayfield
Last Chance	Pine Grove	Chas. V. Price	Pine
Last Chance et al.	Middle Boise	Frank E. Erickson	Atlanta
Last Chance	Twin Springs	Cyrus H. Pickens	Twin Springs
Little Joker Pl.	Featherville	Asa J. Durant	Featherville
Middle Boise et al.	Black Warrior	Max Mayfield	Boise
Middle Boise Lode	Middle Boise	Thomas Walker	Atlanta
Midnight Pl.	Snake River	H. S. Olson	Glenns Ferry
Minnehaha Pl.	Bear Creek	Frank Galbraith	Rocky Bar
Monarch	Middle Boise	Dan Kirby	913 Hays St., Boise
Montezuma Pl.	Middle Boise	Dick Miller	Atlanta
Mountain Boy	Neal	C. M. Williams	Mayfield

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Mountain View	Featherville	E. N. Stone	Featherville
Mountain View	Pine Grove	Fred Skelton	Pine
New Century	Middle Boise	Henry Button	Atlanta
Northwestern	Bear Creek	W. N. Nixon	Rocky Bar
Old Oliver Diggins	Middle Boise	A. S. Longwill	Atlanta
Ontario	Bear Creek	Mary A. Lison	Boise
Ophir	Bear Creek	Elmer C. Towne	Rocky Bar
Overland et al.	Bear Creek	S. Howard	Pine
Owens Gr.	Pine Grove	Thos. Potter	Pine
Piney Gr.	Middle Boise	J. C. Birdwell	Atlanta
Pittsburgh Gr.	Bear Creek	Mrs. Emily Frew	Pittsburgh, Pa.
Queen et al.	Bear Creek	J. W. Silliven	Rocky Bar
Queen River Pl.	Middle Boise	Fred Felix	Atlanta
Red Warrior	Bear Creek	Frank Pon	Rocky Bar
Republic et al.	Neal	C. M. Williams	Mayfield
Rosetta Gr.	Bear Creek	I. W. Tucker	Rocky Bar
Silver Horde	Middle Boise	W. T. Burnett	Atlanta
Silver Star Gr.	Pine Grove	May Larson	Pine
Silver Tide et al.	Middle Boise	Frank L. Erickson	Atlanta
Sunrise	Twin Springs	John Vaughn	Twin Springs
Sunrise Gr.	Bear Creek	Wm. H. Stowell	Spokane, Wash.
Sunshine et al.	Bear Creek	E. C. Helfrich	Mountain Home
Sunny Side	Pine Grove	Monroe E. Shraft	Pine
Tahoma	Middle Boise	Richards and Steunenberg	Boise
Tekla et al.	Featherville	Paul V. Lambrix	Featherville
Trinity Gr.	Featherville	Sara S. Durant	Featherville
Tumble Bug	Bear Creek	Walter Walsh	Rocky Bar
Uncle Ben	Bear Creek	E. J. Nordyke	Featherville
Uncle Sam Gr.	Pine Grove	May Larson	Pine
Verdun Gr.	Pine Grove	W. R. Deckard	Pine
Vibrator Gr.	Bear Creek	Elmer C. Towne	Rocky Bar
White Bird et al.	Bear Creek	A. L. Reardon	Rocky Bar
Wide West	Bear Creek	John J. Allen	109 Montague St., Brooklyn, N. Y.
Wonder	Pine Grove	Lou Roberts	Pine
Yuba Gold Chest	Middle Boise	C. W. Joy	Emmett

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## FREMONT COUNTY

Coal, phosphate rock, oil shale, magnesite, and asbestos occur in different sections of this county. The occurrence of coal in commercial quantities in the northeastern corner of the county has been reported, but these deposits are too far removed from transportation to be available. The other deposits have never been sufficiently developed to prove their extent.

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## GEM COUNTY

Gem is one of the smallest counties in area in the State, but one of the largest in population per square mile. Its area is 567 square miles, and the 1920 census credited it with a population of 6,427, or 11.3 persons per square mile. The chief industries are fruit growing, farming, and livestock. It is particularly noted for its fruit farming, which is confined to the valley of the Payette River, which flows westerly through the southern end of the county.

It is one of the southwestern counties, being bounded by Ada, Canyon, Payette, Washington, Adams, Valley, and Boise counties. The drainage basin of Squaw Creek and twenty-five miles of the Payette River valley make up the larger part of its area. Emmett, the county seat and only settlement of importance, is near the center of the southern part of the county.

The county is served by a good system of locally maintained roads and by the Nampa-McCall and Payette-Emmett branches of the O. S. L. Railroad.

The Pearl district, once a famous gold producing camp, and a few undeveloped sections where a small amount of prospecting has been done, are the only mineralized areas in the county. The principal minerals occurring in these districts are gold, silver, lead, zinc, copper, and arsenic. Gold predominates, and occurs in a free milling quartz and combined with the sulphides of lead, zinc and iron. The deposits containing the complex sulphide ore are of commercial importance and have not been mined, as transportation and the metallurgical methods in use at the time the Pearl district was active, prevented profitable operations. The sulphide ores are amenable to modern flotation methods, and, as there is a large tonnage in many of the old mines that are lying dormant, they will again become profitable operations when properly equipped and financed.

During the year much publicity was given to the possibility of finding petroleum in this county. A preliminary investigation of conditions was made by geologists of the Idaho Bureau of Mines and Geology. These men collected a large amount of fossil material, which was examined by the United States Geological Survey. The Bureau summarized its findings with: " \* \* \* It appears that the hoped for evidence of marine strata, with which oil throughout the world is associated, has not yet been found."

One of the most important developments to be started in the State during the year was the rejuvenation of the old Lincoln mine by the Lincoln Mine Operating Co. This company was fully financed, the small shaft was reopened, and construction work started on converting the old mill into a fine-grinding and flotation concentrator. A large tonnage of proven ore has been reported, and it is expected that this operation will soon be one of the principal mining enterprises in southwestern Idaho.

G. R. Chadbourne of Augusta, Maine, was active throughout the year in rehabilitating the principal tunnel of the Granite State Consolidated Mining Co., and one other operator expended a small sum in development work.

#### **FELIX MINING CO.**

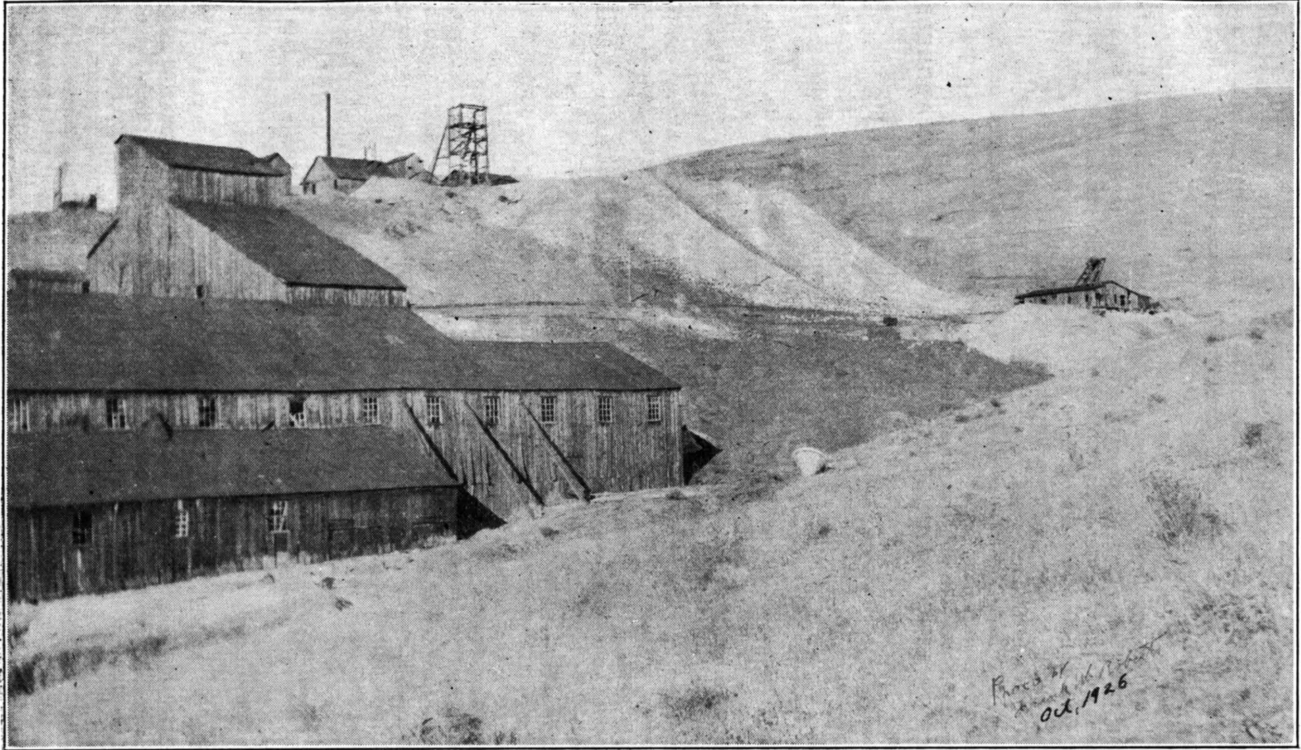
**Office:** Boise. **Officers:** T. J. Jones, Pres.-Mgr., Boise. **Inc.:** July 25, 1917. **Capital:** 500 shares; par value \$10; all shares issued. **Property:** Felix group; 5 patented claims, West View dist.; Pearl.

#### **GRANITE STATE CONSOLIDATED MINES CO.**

**Office:** Pearl. **Officers:** Henry W. Dorman, Sec., Caldwell; G. R. Chadbourne, Mgr., Pearl. **Inc.:** June 23, 1914. **Capital:** 3,000,000 shares; par value \$1; 2,113,664 shares issued. **Property:** Granite State group; 20 patented, 16 unpatented claims, West View dist.; Pearl. **Development:** Over 10,000 ft. of underground workings, the principal of which is a main working tunnel 2350 ft. long which gives approximately 700 ft. vertical distance on the vein. **Ore:** Gold. **Men employed:** Average, 2. **Remarks:** Continuous work throughout the year in cleaning and rehabilitating the principal tunnel.

#### **IDAHO MINING & PROMOTING CO., LTD.**

**Office:** Weiser. **Officers:** Lot L. Feltham, Pres.-Mgr.; Jos. T. Gallagher, Sec., both of Weiser. **Inc.:** Jan. 24, 1907. **Capital:** 25,000 shares; par value \$1; all shares issued. **Property:** Golden Age group; 2 patented claims, West View dist.; Montour. **Ore:** Gold-silver-lead. **Remarks:** Idle since 1912.



LINCOLN MINE AND MILL

**LINCOLN MINE OPERATING CO.**

**Office:** Pearl. **Officers:** Wm. I. Phillips, Pres., Miami, Fla.; H. O. Dorman, Sec.; H. W. Dorman, Mgr., both of Pearl. **Inc.:** May 20, 1926. **Capital:** 1,000,000 shares; par value 25c all shares issued. **Property:** Lincoln group; 3 patented, 5 unpatented claims, West View dist.; Pearl. **Development:** By 2 vertical shafts one of which is 540 feet deep; total development, approximately 8,000 ft. **Plant:** MINE: Electrically driven hoist, complete mining equipment. MILL: 100-ton concentrator, including flotation. **Men employed:** Average, 15. **Remarks:** The small shaft was reopened, and construction work started on converting the mill into a fine-grinding and flotation plant. It is anticipated that the mill will be completed and in operation early in 1927. The mine owned by this company is the principal property in the Pearl district and at one time was a substantial producer. A large tonnage of proven ore has been reported, and it is expected that this operation will soon be one of the principal ones in southwestern Idaho.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Apache	West View	Jas. H. Hawley	Boise
Burton Bell	West View	John Ackley	Boise
Double Eagle Gr.	West View	Mrs. C. N. Boone	Box 1177, Boise
I X L	West View	H. W. Dorman	Caldwell
North Basque	West View	J. C. Dunbar	Pearl
Virginia Mines	West View	G. L. Loope	Seattle, Wash.

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**GOODING COUNTY**

Placer gold, which is found in the gravel bars and sand along the Snake River, constitutes the only mineral resource of this county. These deposits are worked in a limited manner, and generally return the operator a fair profit on his labor.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Big Body Placer	Snake River	John Criswell	Clear Lake
Black Butte Placer	Snake River	A. S. Madalena	Clear Lake
Boulder Hill Placer	Snake River	Charles N. Ingersoll	Bliss
Brown Placer	Snake River	C. E. Jenkins	Hagerman
———Pl.	Snake River	H. C. Bryant	Hagerman
———Pl.	Snake River	Hand & Seburn	Hagerman
Zeolite Gr.	Unorganized	Geo. H. Chaffin	Gooding

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See Snake River Gold Bibliography.



## IDAHO COUNTY

This county occupies a vast region about midway between the northern and southern boundaries of the State, extending from Montana, on the east, to Oregon, on the west. It is bounded on the north by Nez Perce, Lewis, and Clearwater counties, on the east by the State of Montana, on the south by Lemhi, Valley, and Adams counties, and on the west by the State of Oregon. It contains 8539 square miles, or an area which is larger than the combined areas of the States of Rhode Island, Delaware, and Connecticut. The 1920 census accredited it with a population of 11,749, or 1.4 persons to the square mile. The larger part of the population is located on Camas Prairie, a table-land of about 400 square miles. The chief industries are farming, principally wheat, for which Camas Prairie is famous; stockraising, and mining.

The western part of the county is served by the North and South State highway, which extends from the southern to the northern boundary, and by the Elk City and Lewis & Clark highways, which are but partly constructed. Its railroads are the Lewiston-Stites branch of the Northern Pacific Railroad, and the Lewiston-Grangeville branch, which is owned jointly by the Union Pacific and Northern Pacific railroads. Both these railroads serve Camas Prairie, or the northwestern part of the county. Grangeville is the largest town and county seat.

Idaho County is the largest in the State in area, and one of the greatest in diversity of mineral resources and mining opportunities. The principal metals and minerals which occur in sufficient extent to be of commercial importance are gold—placer and lode—silver, copper, lead, zinc, antimony, tungsten, asbestos, molybdenum, iron, talc, and mica.

During the early days of Idaho this county was one of the largest gold producing districts in the United States, and at the present time it offers more possibilities for profitable gold mining than any other section. Many of the millions produced during those days were won from placer deposits which occur in practically all the seventeen mining districts within the county. Excepting the flat land and river bottoms, which are suitable for dredging, and which fully justify investigation, all the placer mines are exhausted.

The greatest handicap which the county is compelled to undergo is the lack of transportation, and under present road conditions only the highest grade free milling ores can be successfully handled. Railroads into the various mining districts are a far removed possibility; however, a good automobile or motor truck road would serve to open many of the districts which are now dormant.

Much of the ore is a free milling gold, and if not, a high-grade concentrate can be made which will permit a long haul. The latter statement applies particularly to the ores of the Ten Mile, Orogrande, Elk City, Buffalo Hump, and Dixie districts. The highway from Harpster to Elk City up the South Fork of the Clearwater River will make all these districts accessible by a water grade road, and their development will soon follow. This highway is one of the most meritorious projects in the State, and everyone interested in mining in these districts is looking forward to its early completion. In July the prospectors and companies holding unpatented claims in the Elk City, Orogrande, Dixie and Buffalo Hump districts voted to do their annual labor on this road. As a result of their faith in these districts, over four miles of road and a bridge over the Red River were constructed on the Elk City end. The lower end of the road was extended a distance of six miles, and a further extension of six miles during 1927 was provided for by the Forest Service in its allotment of expenditures for that year.

The gradual return to a more normal condition, under which gold mining is again becoming profitable, was reflected in this county during the year by a small, though substantial, increase in mining operations, investigations, and new enterprises. The most important of these was an investigation of the so-called dikes—low-grade free milling gold ore—in the Elk City district by one of the largest copper-mining organizations in the United States. This investigation extended over a period of 30 days, and it was reported that the properties examined were favorably recommended.

The Unity Gold Mines Co. at Warren was idle throughout the year. The Holte Mining Co. in the Marshall Lake district performed its necessary annual labor; its mine was examined by two prominent companies who were favorably impressed with it. In past years these mines were recognized as important gold mining operations.

Two companies operating in the Ten Mile district produced a small amount of bullion, and expanded mining operations over those of the previous year. This district as a whole witnessed a substantial increase in new work by prospectors and in investigations by scouts seeking gold-mining enterprises.

The Elk City district witnessed a large increase in mining operations, prospecting, and investigation in search of gold and antimony mines. A large number of new mining locations were filed, and operations were resumed at the American Eagle and Black Pine mines, which had been idle during 1925. All the companies which were active during the previous year continued development work throughout 1926, and two of them reported encountering a good showing of new ore.

The Dixie district was more active than at any time in the past six years. There was an increase in company operations and in number of prospectors, and one new discovery of high-grade gold ore was reported.

The deposits of gold ore on Slate Creek, discovered in 1925, were actively developed throughout 1926.

#### **ABBA CORPORATION**

**Office:** 128 Broadway, New York City. **Officers:** Henry W. Allen, Pres.; Charles H. Suhl, Sec., both of New York City. **Inc.:** Mar. 6, 1926. **Capital:** 50,000 shares; par value \$1; 45,750 shares issued. **Property:** 4 patented claims, Warren dist.; Warren. **Ore:** Silver.

#### **ALTA-IDAHO GOLD & COPPER MINING CO.**

**Officers:** M. C. Hetler, Pres., Berwick, Pa.; James H. Fine, Sec., Cassadaga, Fla.; George M. Snyder, Mgr., Pardee. **Inc.:** Filed in Idaho, June 17, 1903. **Capital:** 1,000,000 shares; par value \$1; 758,000 shares issued. **Property:** Empire group; 11 unpatented claims, on South Fork of Clearwater River, Lolo district; Pardee. **Development:** Approximately 450 ft. of underground workings, the principal of which is one tunnel 250 ft. long. **Ore:** Gold-silver-copper. **Men employed:** One watchman.

#### **AMERICAN EAGLE MINES SYNDICATE**

**Officers:** E. S. Long, Mgr., Elk City. **Inc.:** Unknown; never filed in Idaho. **Property:** American Eagle group; 28 patented claims, Elk City dist.; Elk City. **Development:** Over 6000 ft. of underground workings. **Plant:** MINE: Steam and water driven compressor; complete mining equipment and camp. MILL: Steam driven 10-stamp mill with concentrating tables. **Ore:** Gold. **Men employed:** Average, 10. **Remarks:** This company is operating the American Eagle mine, formerly owned by the Homestake Gold Mining Co. Active work was started in October.

**BADGER MOUNTAIN MINING CO.**

**Office:** Grangeville. **Officers:** Markus Lies, Pres.; Cottonwood; Will C. Jones, Sec., 2604 California Ave., Seattle, Wash.; A. W. Boyd, Mgr., Elk City. **Inc.:** Feb. 13, 1925. **Capital:** 10,000,000 shares; par value 1c; 108,800 shares issued. **Property:** 2 patented, 7 unpatented claims, held under lease and option from Homestake Gold Mining Co.; Orogrande dist.; Orogrande. **Development:** By 3 tunnels, the longest of which is 460 ft. **Ore:** Gold.

**BIG THREE GOLD MINING CO.**

**Office:** Grangeville. **Officers:** James G. Irvin, Pres.-Mgr., Grangeville; W. H. Baldwin, Sec., 1710 10th St., Sacramento, Calif. **Inc.:** Feb. 17, 1919. Charter forfeited Nov. 30, 1926. **Capital:** 1,000,000 shares; par value 25c; 523,635 shares issued. **Property:** Big Three group, located 5 miles south of Florence; 5 unpatented claims, Florence dist.; Grangeville. **Development:** 1 tunnel, 600 ft. long; 1 tunnel 100 ft. long; 1 tunnel 30 ft. long. **Plant:** A 1-stamp mill driven by Pelton water wheel. **Ore:** Gold. **Remarks:** Annual labor only.

**BLACKTAIL MINING CO.**

**Office:** Box 1195, Spokane, Washington. **Officers:** R. E. Wakeley, Pres.-Mgr., 2322 E. Bismarck, Spokane; N. L. Wakeley, Sec., Spokane. **Inc.:** Dec. 3, 1914. **Capital:** 200,000 shares; par value \$1; 121,920 shares issued. **Property:** 10 unpatented claims, Harpster dist.; Harpster. **Development:** By 2 tunnels; No. 1, 370 ft. long; No. 2, 70 ft. long. **Ore:** Gold. **Remarks:** Annual labor only.

**BLUE RIBBON MINE**

**Owner:** A. W. Boyd, Agent. **Property:** Blue Ribbon group; 5 unpatented claims, Elk City dist.; Elk City. **Development:** 1 tunnel about 400 ft. long; 1 shaft 100 ft. deep. **Ore:** Gold-silver. **Remarks:** One of the principal prospects in the Elk City district in which a large tonnage of ore has been developed.

**CLEARWATER MINING CO.**

**Office:** 152 W. 42d St., New York City. **Officers:** Fred Beck, Pres.; T. J. Mara, Sec., both of New York; Wm. Hogan, Mgr., Elk City. **Inc.:** May 18, 1925. **Capital:** 10,000 shares; par value \$10; all shares issued. **Property:** Clearwater group; 43 unpatented claims, Elk City and Orogrande dist.; Elk City. **Development:** Approximately 5000 ft. of short open cuts and tunnels. **Ore:** Gold. **Men employed:** Average, 12. **Remarks:** Prospecting and development work continued throughout the year.

**COMMODORE GOLD MINING CO.**

**Office:** Lewiston. **Officers:** Wm. C. McNutt, Pres.-Mgr.; M. R. Morgan, Sec., both of Lewiston. **Inc.:** March 28, 1921. **Capital:** 1,000,000 shares; par value \$1; 234,415 shares issued. **Property:** Commodore group; 46 unpatented claims, at junction of Crooked River and South Fork of Clearwater River, Orogrande dist.; Elk City. **Development:** By 8 short tunnels, totaling approximately 300 ft., and 253 discovery pits. **Ore:** Gold. **Remarks:** Annual labor only.

**CROOKS CORRAL MINES, LTD.**

**Office:** Grangeville. **Officers:** Frank McGrane, Pres.; A. F. Parker, Sec., both of Grangeville. **Inc.:** Sept. 13, 1897. **Capital:** 1,000,000 shares; par value \$1; 990,000 shares issued. **Property:** 8 patented placer claims, Crooks Corral dist.; Lucile.

**ERICKSON RIDGE DEVELOPMENT CO., INC.**

**Office:** Elk City. **Officers:** Wm. Hogan, Pres.-Mgr., Elk City. **Inc.:** Aug. 25, 1926. **Capital:** 200,000 shares; par value \$10; all shares issued.

**Property:** Erickson Ridge group; 33 unpatented claims, Elk City dist.; Elk City. **Development:** Approximately 965 ft. of short tunnels and open cuts. **Ore:** Gold. **Men employed:** Average, 3. **Remarks:** A small amount of development work during the year.

#### ESPERANZA GOLD DIKES MINING CORPORATION

**Office:** 802 Gasco Bldg., Portland, Ore. **Officers:** Edward M. Griffith, Pres., Grangeville; C. W. Twining, Sec., Portland, Ore. **Inc.:** Sept. 14, 1925. **Capital:** 1,000,000 shares; par value 25c; 400,000 shares issued. **Property:** Champion group; 18 patented claims, Orogrande dist.; Orogrande. **Development:** Approximately 3000 ft. of old workings. **Ore:** Gold.

#### GOLDEN EAGLE MINING CO.

**Office:** Kendrick. **Officers:** Geo. E. Hottenstein, Pres.-Mgr., Elk City; G. M. Walker, Sec., Kendrick. **Inc.:** Jan. 2, 1926. **Capital:** 1,000,000 shares; par value 25c; shares issued, none. **Property:** 6 unpatented claims, held under lease and option; Elk City dist.; Elk City. **Development:** By 1 tunnel, 1100 ft. long. **Ore:** Gold.

#### HAMPTON MINING & MILLING CO.

**Office:** Hampton, Iowa. **Officers:** D. W. Parks, Sec., Hampton. **Inc.:** May 13, 1907. **Capital:** 1,000,000 shares; par value \$1; 620,294 shares issued. **Property:** 2 patented claims, Buffalo Hump or Robins dist.; Elk City.

#### HOLTE MINING CO.

**Office:** 112 N. 6th St., Boise. **Officers:** Leif T. Holte, Pres.-Mgr., Burgdorf; C. H. Nixon, Sec., Boise. **Inc.:** Jan. 12, 1920. **Capital:** 2,500,000 shares; par value \$1; 1,000,000 shares issued. **Property:** Holt group; 22 unpatented claims, Marshall Lake dist.; Burgdorf. **Development:** Approximately 3200 ft. of underground workings, the principal of which are 4 tunnels: No. 1, 400 ft. long; No. 2, 1750 ft. long; No. 3, 600 ft. long; No. 4, 400 ft. long; 1 vertical shaft 150 ft. deep. **Plant:** MINE: Steam driven compressor, complete mining equipment, sawmill, assay office and complete camp. **MILL:** 50-ton steam driven Lane Chilean mill; cyanide plant. **Ore:** Gold. **Men employed:** Average, 3. **Remarks:** The principal tunnel was extended about 200 ft. during the year.

#### IDAHO BUSTER MINING CO., LTD.

**Office:** 1022 Crocker Bldg., San Francisco, Cal. **Officers:** F. W. Bradley, Pres.; C. A. Norris, Sec., both of 1022 Crocker Bldg., San Francisco, Cal. **Inc.:** Dec. 9, 1908. **Capital:** 300,000 shares; par value \$1; all shares issued. **Property:** Idaho Buster group; 4 patented claims, Elk City dist.; Elk City. **Remarks:** Idle since November, 1909.

#### IDAHO-COMSTOCK

**Office:** 803 Leary Bldg., Seattle, Wash. **Officers:** Thos. H. Minear, Pres.-Mgr., People's Store, Tacoma, Wash.; Chas. E. Shepard, Sec., 803 Leary Bldg., Seattle, Wash. **Inc.:** An association. **Capital:** 2,000,000 shares; no par value; all shares issued. **Property:** Idaho-Comstock group; 12 patented claims, Dixie dist.; Dixie. **Development:** 3 tunnels; No. 1, 700 ft. long; No. 2, 200 ft. long; No. 3, 200 ft. long; 1 vertical shaft 140 ft. deep. **Ore:** Gold. **Remarks:** Idle.

#### IDAHO GOLD FIELD MINING CO.

**Office:** Coeur d'Alene. **Officers:** J. H. LeClaire, Pres., 1407 Indiana Ave., Spokane; Mrs. L. F. LeClaire, Sec., Coeur d'Alene. **Inc.:** Oct. 10, 1924. **Capital:** 1,000,000 shares; par value \$1; no shares issued. **Property:** 14 unpatented placer claims, Newsome dist.; Newsome. **Ore:** Placer gold. **Remarks:** A small amount of work was done during the summer months.

**IDAHO & NEVADA MINING CO.**

**Office:** 209 Fourth St., Portland, Ore. **Officers:** Richard Becker, Pres.; Norman W. Nute, Sec., both of Portland, Ore. **Inc.:** June 9, 1924. **Capital:** 5,000,000 shares; par value 5c; 2,139,680 shares issued. **Property:** Major group; 8 unpatented claims, Elk City dist.; Elk City. **Development:** 4 tunnels; 7 shafts. **Plant:** MINE: steam driven hoist. **MILL:** 2-stamps; steam driven. **Ore:** Gold. **Remarks:** A small amount of work during the latter part of the year.

**JUMBO MINING & MILLING CO., LTD.**

**Office:** Lewiston. **Officers:** J. C. Jansen, Pres., Lewiston Orchards; W. E. Howard, Sec., 537 San Francisco St., Pomona, Calif. **Inc.:** Aug. 13, 1902. **Property:** Jumbo group; 5 patented claims, Robins dist.; Orogrande.

**MCKINLEY GOLD MINING CO.**

**Office:** Kellogg. **Officers:** P. P. Weber, Pres.; A. H. Polson, Sec., both of Kellogg. **Inc.:** Dec. 29, 1899. **Capital:** 1,500,000 shares; par value \$1; 932,793 shares issued. **Property:** McKinley group; 4 patented, 4 unpatented claims, Simpson dist.; Lucile. **Development:** 4 tunnels: No. 1, 145 ft. long; No. 2, 1020 ft. long. **Ore:** Gold. **Remarks:** A small amount of development work during the early part of the year.

**MAMMOTH MINE CORPORATION**

**Office:** Lewiston. **Officers:** R. S. Erb, Pres.; R. G. Bailey, Sec., both of Lewiston. **Inc.:** Feb. 25, 1925. **Capital:** 500,000 shares; par value \$1; 276,295 shares issued. **Property:** Mammoth group; 6 unpatented claims, Dixie dist.; Dixie. **Development:** By 14 open cuts and 2 short tunnels. **Men employed:** Average, 2. **Ore:** Gold. **Remarks:** A small amount of work during the year.

**NORTH HILL MINING CO.**

**Office:** 617 Hutton Bldg., Spokane. **Officers:** J. M. McLean, Pres.; Ralston McCaig, Sec., both of Spokane. **Inc.:** April 18, 1925. **Capital:** 1,500,000 shares; par value 1c; 853,448 shares issued. **Property:** Summit Flat group; 5 unpatented claims, Orogrande dist.; Orogrande. **Development:** Principally by one tunnel, 1150 ft. long. **Plant:** Steam-driven Gardner-Ricks compressor and hoist; camp; complete mining equipment. **Ore:** Gold. **Remarks:** This company is a reorganization of the Summit Flat Mining Co. A small amount of work was done during the year.

**OROGRANDE GOLD MINING CO.**

**Office:** 218 Columbia Bldg., Spokane, Wash. **Officers:** J. N. Pickrell, Pres., Colfax, Washington; J. E. Pickrell, Sec., Spokane, Washington. **Inc.:** March 14, 1919. **Capital:** 3,500,000 shares; par value \$1; 1,430,545 shares issued. **Property:** Orogrande group; 5 patented, 32 unpatented claims, Orogrande dist.; Orogrande. **Development:** Approximately 6000 ft. of underground workings and 4000 ft. of surface cuts on all claims. **Plant:** Stamp mill with partly completed cyanide plant; water driven. **Ore:** Gold. **Men employed:** One watchman. **Remarks:** Idle.

**RAPID RIVER MINING & MILLING CO.**

**Office:** Genesee. **Officers:** D. Scharnhorst, Pres.; J. G. Meyer, Sec.; A. F. Wolff, Director; all of Genesee. **Inc.:** July 14, 1910. **Capital:** 1,500,000 shares; par value \$1; 348,349 shares issued. **Property:** 4 unpatented claims, Rapid River dist.; Pollock. **Development:** By 5 tunnels; total development approximately 1300 ft. **Plant:** Small water-driven compressor. **Remarks:** Small amount of work by contract.

**REVENUE MINING & MILLING CO.**

**Office:** 511 Kuhn Blk., Spokane, Wash. **Officers:** J. E. McCormack, Pres.; Walter Guthridge, Sec.-Treas., both of 511 Kuhn Blk., Spokane, Wash. **Inc.:** April 10, 1912. **Capital:** 500,000 shares; par value \$1; 391,693 shares

issued. **Property:** Revenue group; 8 patented claims, Elk City dist.; Elk City. **Development:** 2 tunnels: No. 1, 700 ft. long; No. 2, 100 ft. long. **Remarks:** Idle.

#### RICE MINING & MILLING CO.

**Officers:** Geo. F. Carson, Pres.; E. P. Adkison, Sec., both of Lewiston. **Inc.:** April 8, 1920. **Capital:** 1,000,000 shares; par value \$1; 530,978 shares issued. **Property:** Mother Lode group; 9 unpatented claims, Orogrande dist.; Orogrande. **Development:** Approximately 1700 ft. of underground workings. **Remarks:** Annual labor only.

#### SLATE CREEK GOLD MINING CO.

**Office:** Whitebird. **Officers:** G. A. Thomson, Pres.; W. W. White, Sec., both of Whitebird. **Inc.:** Sept. 21, 1925. **Capital:** 600,000 shares; par value 50c; 3,790 shares issued. **Property:** Lease and option on 480 acres patented farm land, Simpson dist.; Lucile. **Development:** By 3 tunnels, with a total of approximately 450 ft. **Ore:** Gold. **Men employed:** Average, 5. **Remarks:** Active throughout the year.

#### SOUTH FORK MINING & MILLING CO.

**Office:** 422 Chamber of Commerce Bldg., Spokane. **Officers:** Wm. H. Stowell, Pres.-Mgr.; Alma J. Lindahl, Sec., both of Spokane. **Inc.:** June 4, 1914. **Capital:** 1,500,000 shares; par value \$1; 984,796 shares issued. **Property:** South Fork group; 12 unpatented claims Elk City dist.; Elk City. **Development:** Approximately 3500 ft. of underground workings, the principal of which are No. 1 tunnel, 1200 ft. long; No. 2, 1050 ft. long; No. 3, 1000 ft. long. **Plant:** 5-stamp mill. **Ore:** Gold. **Remarks:** Annual labor only. Property under option to Stowell Gold Mining Co.

#### SPHINX GOLD MINING CO.

**Office:** 832 Old National Bank Bldg., Spokane, Wash. **Officers:** Sam A. McCoy, Pres.-Mgr.; E. J. Johnson, Sec., both of Spokane, Wash. **Inc.:** May 3, 1923. **Capital:** 500,000 shares; par value \$1; 425,000 shares issued. **Property:** Sphinx group; 5 unpatented claims, Ten Mile dist.; Newsome. **Ore:** Gold. **Remarks:** A small amount of development work was done during the summer months.

#### STOWELL GOLD MINING CO.

**Office:** 422 Chamber of Commerce Bldg., Spokane, Wash. **Officers:** Wm. H. Stowell, Pres.; Robert A. Koontz, Sec., both of Spokane. **Inc.:** Dec. 4, 1926. **Capital:** 5,000,000 shares; par value 15c; shares issued, none. **Property:** Lease and option on property of South Fork Mining & Milling Co.

#### SUBMARINE GOLD PLACER & QUARTZ MINING CO., INC.

**Office:** 213 Title Trust Bldg., Seattle, Wash. **Officers:** Lewis Williams, Pres.; A. B. C. Davis, Sec., both of Seattle, Wash. **Inc.:** Aug. 26, 1924. **Capital:** 199,000 shares; par value \$1; 45,845 shares issued. **Property:** 30 unpatented claims, held under lease and option, Florence district; Grangeville. **Ore:** Placer gold.

#### SYLVANITE GOLD-COPPER CO.

**Office:** Box 1055, Spokane, Wash. **Officers:** Wesley L. Wakeley, Pres.-Mgr.; R. L. Alexander, Sec., both of Spokane, Wash. **Inc.:** Aug. 20, 1919. **Capital:** 100 shares; par value \$100; all shares issued. **Property:** Maud Randall group; 5 unpatented claims, 2 of which are held under lease and bond from Joseph Himmelspack of Grangeville; Harpster dist.; Harpster. **Development:** By 2 tunnels: No. 1, 825 ft. long; No. 2, 80 ft. long. **Plant:** Gas driven Gardner-Ricks 6x6 compressor; complete mining equipment. **Ore:** Copper.

**TRI METALLIC MINING CO., LTD.**

**Office:** Pardee, Idaho. **Officers:** Frieda M. Bethmann, Pres.; Miner Bethmann, Mgr., both of Pardee. **Inc.:** Sept. 26, 1917. **Capital:** 250,000 shares; par value \$1; 143,742 shares issued. **Property:** Tri Metallic group; 5 unpatented claims, Lolo dist.; Pardee. **Ore:** Gold-silver-copper.

**UNA MINE CO.**

**Office:** 617 Hutton Bldg., Spokane. **Officers:** J. M. McLean, Pres.; Ralston McCaig, Sec.-Mgr., both of Spokane. **Inc.:** Feb. 6, 1925. **Capital:** 1,250,000 shares; par value 1c; 760,000 shares issued. **Property:** Una group; 4 unpatented claims, Orogrande dist.; Orogrande. **Development:** By 1 tunnel, 1100 ft. long. **Ore:** Gold. **Men employed:** Average, 3. **Remarks:** Active work during the summer months in extending the principal tunnel. This resulted in exposing a good showing of new ore.

**UNITY GOLD MINES CO.**

**Office:** 120 Broadway, New York City. **Officers:** Lorren M. Hart, Pres.; Edward C. Christiansen, Sec., both of New York City; Jay A. Czizek, Mgr., Boise. **Inc.:** May 25, 1916. **Capital:** 500,000 shares; par value \$5; all shares issued. **Property:** Little Giant and Rescue groups; 8 patented, 10 unpatented claims, Warren dist.; Warren. **Development:** Over 10,000 ft. of underground workings, the principal of which is the Unity or main crosscut tunnel, which is over 5000 ft. in length. **Plant:** MINE: Storage battery locomotive haulage; one 300 cu. ft. and one 700 cu. ft. electrically driven compressor; complete mining equipment. **MILL:** 10-stamp mill, 1000 pound stamps, simple amalgamation. **POWER PLANTS:** A 50 h. p. hydroelectric plant on Warren Creek and a 600 h. p. hydroelectric plant on Elk Creek, the latter consisting of two units driven by Pelton impulse water wheel operating under a vertical head of 415 ft.; 9½-mile transmission line connecting power plant and mine. **Ore:** Gold. **Men employed:** One watchman. **Remarks:** Idle throughout the year.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Alberta	Elk City	H. T. Thompson	Elk City
American Flag	Elk City	Pat Brennan	Elk City
Americanus	Marshall Lake	Ed Luzadder	Burgdorf
Americus	Cottonwood	J. W. Bartlett	Greencreek
	Buttes		
Annie Laurie et al.	Florence	S. A. Defflong	Grangeville
Apex	Florence	Anderson & Seaberg	Florence
Arles	Warren	Kelley & Patterson	Warren
Bauer Gr.	Elk City	Frank Bauer	Elk City
Bengal	Elk City	Perry Bros.	Elk City
Bevier Pl.	Florence	Wm. D. Bevier	Elk City
Big Buffalo	Robins	M. J. Sweeney	Spokane, Wash.
Big Four	Warren	Patterson Bros.	Warren
Black Bear	Cottonwood	L. J. Anderson	Woodland
	Buttes		
Bluebird	Warren	Walter B. Martin	Warren
Blue Ribbon	Elk City	J. E. Brown	Elk City
B & M Mine	Elk City	John Montgomery	Elk City
Bolinski Gr.	Elk City	Len Bolinski	Elk City
Bonanza Pl.	Elk City	Frederick Gribi	1546 Toberman St., Los Angeles, Cal.
Bonanza Pl.	Simpson	Hart & Richardson	1078 Stratton St., Portland, Ore.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Brown Gr.	Warren	Frank H. Brown	Warren
Buck Diggins Pl.	Warren	John Becker	Warren
Buck Meadows Pl.	Unorganized	George Davis	Grangeville
Buster et al.	Dixie	Oscar Waller	Warren
Buttercup Gr.	Florence	Samuel Dunn	Grangeville
Cape Horn	Camp Howard	C. H. Lyons	Whitebird
Carson Pl.	Warren	Frank Carson	Warren
Carter Gr.	Elk City	Geo. M. Carter	Jackson, Mich.
Center Star	Elk City	Herman Brown	Elk City
Chicago et al	Elk City	R. Greckwell	Elk City
Clearwater Gr.	Elk City	Geo. L. Esh	Elk City
Cleveland	Elk City	S. W. Smith	Palo Alto, Calif.
Coeur d'Alene	Ten Mile	Peter Proulix	Golden
Columbia	Elk City	John Massam	Elk City
Concord Gr.	Robins	Galen S. Stone	Boston, Mass.
Congress	Elk City	S. W. Smith	Palo Alto, Calif.
Cove Placers	Clearwater	M. B. Geary	Grangeville
Crescent Pl.	Orogrande	Geo. P. Kelley	Newsome
Crooked River Pl.	Elk City	George Brown	Orogrande
Dandy Pl.	Simpson	E. W. Butcher	Lucile
Deadwood	Elk City	Chas. Forman	Los Angeles, Cal.
Diamond Hitch	Orogrande	Orin Lamb	Orogrande
Discovery	Maggie Creek	W. E. Smith	Los Angeles, Cal.
Eagle	Warren	Gus Kupper	Warren
El Toro Gr.	Newsome	L. A. Strong	Fontana, Calif.
Erickson Reef	Elk City	Wm. Hogan	Elk City
Evergreen Gr.	Harpster	Albert Kincaid	Grangeville
Florence	Florence	A. R. Smith	Spokane, Wash.
Foss Gr.	Elk City	R. E. Foss	Elk City
Fourth of July	Dixie	Thomas Pritchard	Dixie
Franklin	Ten Mile	A. S. Johnson	Golden
Free Gold	Dixie	Geo. L. Esh	Dixie
Frisco Gr.	Elk City	E. J. Comley	Elk City
Gem & Midnight	Elk City	Thomas McArthur	Elk City
Gilt Edge	Ten Mile	Frank Osgood	Seattle, Wash.
Gold Dollar	Warren	M. W. Hubbard	New Meadows
Gold Dove	Elk City	Pat Brennan	Elk City
Gold Drop	Elk City	Geo. W. Widmeyer	Elk City
Gold King	Orogrande	Geo. Peterson	Newsome
Golden Brown	Crooks Corral	Reville Johnson	Lucile
Golden Placer	Ten Mile	Edward Timm	Golden
Golden Rule	Maggie Creek	O. W. Montgomery	Kooskia
Golden Rule Pl.	Elk City	Chas. Tiedeman	Elk City
Golden Rule Pl.	Maggie Creek	A. E. Davis	Kooskia
Golden Rule Pl.	Warren	A. L. Freehafer	Payette
Golden Scale et al.	Elk City	Wm. C. McNutt	Elk City
Grangeville	Elk City	Joe Schoner	Elk City
Great Nugget Pl.	Simpson	Hart & Richardson	Lucile
Grey Pallor	Warren	W. T. Copenhaver	Warren
Gunboat Pl.	Dixie	R. Burke	Dixie
Haig & Haig	Orogrande	R. McGregor	Elk City
Hawkeye	Warren	J. T. Murphy	Warren
Headlight	Newsome	J. E. Davis	Newsome



NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Hecla	Elk City	C. E. Skoglar	Elk City
Hercules	Elk City	Alex Hendrie	125 Kent St. Hamilton, Ont.
Homestake Gr.	Orogrande	A. W. Boyd	Elk City
Hope Gr.	Elk City	Schuyler Simmons	Elk City
Iola	Orogrande	James H. Colgrave	Spokane, Wash.
James Moore	Dixie	James Moore	Dixie
Jim Crow Pl.	Simpson	Jacob Cassett	Lucile
Jumbo	Robins	A. F. Schultz	Lewiston
Jupiter Gr.	Marshall Lake	Chris Arnold et al.	Burgdorf
Keystone	Warren	Anthony Mohr	Warren
Keystone Gr.	Orogrande	Edw. Hansen	Orogrande
Kimberley & Jewel	Marshall Lake	D. L. Roy	Burgdorf
Klondyke	Camp Howard	George J. Burgund	Cottonwood
Knott & Delaware	Warren	James Long	Warren
Kramer Pl.	Simpson	Marion Kramer	Lucile
Last Chance	Elk City	James P. Larson	Elk City
Last Chance	Florence	John Lamont	Grangeville
Laurel Hill	Elk City	P. S. Prichard	Elk City
Liberty	Elk City	Wm. A. Copland	Elk City
Liberty Bell et al.	Robins	E. M. Griffith	Grangeville
Lick Creek Pl.	Elk City	Wm. Finley	Elk City
Lime Point	Simpson	Marion Kramer	Lucile
Little Leggat	Orogrande	Simpson & Overman	Newsome
L. & L.	Dixie	Louis Larson	Dixie
Local Option	Ten Mile	Frank McGrane	Grangeville
Lolo	Dixie	Don A. Burpee	Dixie
Lone Pine	Ten Mile	D. F. Morrow	Golden
Loper	Marshall Lake	George Loper	Burgdorf
Lost Lake	Robins	R. McGregor	Elk City
Lot Lake et al.	Florence	Claud Flint	Florence
Lucky Ben	Warren	Jay A. Czizek	Warren
Lucky Strike	Warren	Grindle & Curtis	Warren
Lusitania	Cottonwood Buttes	J.W. Bartlett	Green Creek
Madre d'Or	Elk City	S. W. Litchfield	Elk City
Malone Pl.	Simpson	John Struck	Cottonwood
Mammoth	Newsome	W. H. Baldwin	Sites
Mammoth Gr.	Dixie	C. A. Carpenter	Dixie
Mascot et al.	Elk City	John Massam	Elk City
Mayflower	Warren	Patterson, Morris & Blake	Warren
Miller Creek Pl.	Florence	S. A. Moon	Florence
Mineral Zone et al.	Elk City	G. L. Baskett	Elk City
Minnehaha	Warren	Dr. G. M. Water- house	Weiser
Modoc	Marshall Lake	L. W. Wilcox	Burgdorf
Monadnock	Dixie	George O. Trader	Dixie
Monarch	Simpson	C. H. Prescott	Dixie
Monmouth	Dixie	J. L. Hayes	Dixie
Moose Creek Pl.	Newsome	W. H. Giles	Newsome

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Morgan Gr.	Marshall Lake	——— Barber	Burgdorf
Mother Lode	Elk City	Geo. Brown	Orogrande
Mount Eureka	Warren	W. G. Cadby	Warren
New Jersey	Elk City	Condit Bros.	Elk City
Newsome Pl.	Newsome	James Surridge	Harpster
New York	Ten Mile	Wm. Huntley	Spokane, Wash.
Occidental Gr.	Orogrande	Frank A. Bauer	Elk City
Ohio Placer	Orogrande	George Overfield	Orogrande
Old Channel Pl.	Simpson	Currier Bros.	Riggins
Old Kentuck	Marshall Lake	Peterson & Spencer	Burgdorf
Olivia Gulch	Dixie	Henry S. Hazlitt	Dixie
Pacific Gr.	Elk City	Rod Leggett	Butte, Mont.
Poorman	Dixie	Oscar Eakin	Dixie
Queen Gr.	Elk City	Grant Litchfield	Elk City
Rainier Gr.	Warren	Gus Sindt	Warren
Rapid Creek	Warren	Frank Mitchell	Warren
Red Horse Pl.	Elk City	Schuyler Simmons	Elk City
Red Warrior	Orogrande	Frank Peck	Orogrande
Rigdon Placer	Warren	Geo. G. Rigdon	Meadows
Rocky Butte et al	Cottonwood Buttes	J. L. Eckert	Cottonwood
Shamrock et al.	Marshall Lake	H. H. Hackett et al	Burgdorf
Shissler Creek Pl.	Warren	H. Cook	Warren
Silver King	Warren	Sigo Myers	Savannah, Ga.
Skylark	Warren	Warren D. Smith	Warren
South Fork	Elk City	Martin Heckman	Elk City
Spike Quartz	Elk City	James Hubbs	Elk City
Spring Bar Pl.	Simpson	J. A. Carr	Lucile
Star	Florence	W. A. Nicodemus	Spokane, Wash.
Stephenson Gr.	Elk City	Lu Stephenson	Elk City
Subway Gr.	Orogrande	H. W. Harris	Elk City
Summit Flat	Ten Mile	Ralston McCaig	Spokane, Wash.
Surprise Gr.	Dixie	J. R. Painter	Dixie
Syringa	Maggie Creek	J. M. Wisdom	Culdesac
Syringa	Orogrande	James Montgomery	Orogrande
Thompson Pl.	Warren	Ah Sam	Warren
Three Mile Pl.	Marshall Lake	Jensen Bros.	Burgdorf
Thunder Mt. Gr.	Elk City	E. M. Griffith	Grangeville
Tippie Placer	Newsome	Geo. R. Curtis	Newsome
Tivola	Elk City	George Braig	Elk City
Trout Gr.	Elk City	Geo. Trout	Elk City
Twin Butte et al.	Orogrande	Frank M. Peck	Orogrande
Una Gr.	Ten Mile	Ralston McCaig	Spokane, Wash.
Uncle Sam	Elk City	J. E. Brown	Elk City
Umatilla Gr.	Orogrande	Orin Lamb	Orogrande
Union Gr.	Orogrande	Robert Pulz	Orogrande
Venture	Robins	A. G. Schultz	Lewiston
Walker & Wilcox	Marshall Lake	E. S. Walker	Burgdorf
War Eagle	Robins	Geo. J. Bancroft	220 Broadway Denver, Colo.
Wild Rose	Elk City	W.C. McNutt	Elk City
Wilson	Newsome	A. E. Carpenter	Newsome
Wizzard Gr.	Robins	Jack Cameron	Orogrande

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## KOOTENAI COUNTY

Kootenai is one of the northern counties and constitutes an important part of the Idaho Panhandle. It is bounded on the west by the State of Washington, on the north by Bonner County, on the east by Shoshone County, and on the south by Benewah County. It contains an area of 1253 square miles and was accredited with a population of 17,878 in the 1920 census. The principal industries are lumbering, dairying, and farming. Its lumbering industry is the most important and the largest in the State.

The county is exceptionally fortunate with respect to transportation facilities. It is served by three State highways, one of which is completed, and the other two partly so; by six railroads, which include main lines or their branches; and by lake boats on Lakes Pend d'Oreille and Coeur d'Alene. Coeur d'Alene is the largest town and county seat.

The principal mining districts are the Little North Fork of the Coeur d'Alene River, Hayden Lake, and isolated sections bordering on Lake Coeur d'Alene, throughout which zinc, lead, silver, copper, gold, arsenic, and high grade clays occur. A limited amount of development work has been done on some of the veins, with encouraging results, and many others are worthy of further attention.

During the year one new lead discovery was reported from this county, and much additional interest was shown by the old companies in the properties they were operating. The greater part of the work was confined to the sections adjacent to Coeur d'Alene Lake, particularly the Wolf Lodge and Beauty Bay districts, in which the Caribou Mining Co., Ltd., and the Beauty Bay Mining Co. were the most active.

### BLUE BIRD MINING CO.

**Office:** Coeur d'Alene. **Officers:** Harry Phillips, Pres.-Mgr.; Wm. McFarland, Sec., both of Coeur d'Alene. **Inc.:** Sept. 2, 1924. **Capital:** 1,000,000 shares; par value 10c; 601,000 shares issued. **Property:** Blue Bird group; 9 unpatented claims, Beauty Bay and Wolf Lodge districts; Coeur d'Alene. **Development:** About 160 ft. of workings. **Ore:** Arsenic, copper, gold. **Men employed:** Average, 3. **Remarks:** Annual labor only.

### BLUE FOX MINING CO.

**Office:** Coeur d'Alene. **Officers:** William Stuhlfeier, Pres.; George N. Sander, Sec., both of Coeur d'Alene. **Inc.:** June 7, 1926. **Capital:** 1,000,000 shares; par value 5c; 500,000 shares issued. **Property:** Blue Fox group; 5 unpatented claims, Wolf Lodge district; Coeur d'Alene.

### BURNT CABIN MINING CO.

**Office:** Coeur d'Alene. **Officers:** Fred Eppinger, Pres.-Mgr.; J. A. Cole, Sec., both of Coeur d'Alene. **Inc.:** April 28, 1926. **Capital:** 1,500,000 shares; par value 10c; 127,157 shares issued. **Property:** Burnt Cabin group; 7 unpatented claims, Hayden Lake dist.; Hayden Lake. **Development:** 1 tunnel 300 ft. long. **Ore:** Lead-silver.

**CARIBOU MINING CO., LTD.**

**Office:** Coeur d'Alene. **Officers:** G. R. Scott, Pres.; C. O. Sowder, Sec., both of Coeur d'Alene. **Inc.:** July 15, 1918. **Capital:** 1,500,000 shares; par value 10c; 1,379,044 shares issued. **Property:** Caribou group; 10 unpatented claims, Wolf Lodge dist.; Coeur d'Alene. **Development:** Total development approximately 1010 ft.; consisting principally of No. 2 tunnel, 330 ft. long, and No. 3 tunnel, 500 ft. long. **Plant:** MINE: Gas driven Gardner-Rix compressor; complete mining equipment. **MILL:** 75-ton concentrator, gas driven. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** Active throughout the year. A small tonnage was produced and marketed.

**CHILCO MINING & MILLING CO.**

**Office:** 310 Ziegler Bldg., Spokane, Wash. **Officers:** Ralph G. Gano, Pres.; E. L. Gano, Sec., both of Spokane. **Inc.:** Sept. 14, 1925. Charter forfeited Nov. 30, 1926. **Capital:** 1,500,000 shares, par value 10c; all shares issued. **Property:** Chilco group; 11 unpatented claims, Hayden Lake dist.; Garwood. **Development:** By 1 tunnel 655 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**COEUR D'ALENE CLAY CO., LTD.**

**Office:** 216 Sherman Ave., Coeur d'Alene. **Officers:** Oscar Nelson, Pres.; H. H. Barton, Sec.-Treas., both of Coeur d'Alene. **Inc.:** April 6, 1912. **Capital:** 100,000 shares; par value \$1; 18,882 shares issued. **Property:** 40 acres patented land near Coeur d'Alene. **Plant:** One incomplete brick making machine, 20,000 brick capacity.

**COEUR D'ALENE ROBISH MOUNTAIN MINING CO., LTD.**

**Office:** Coeur d'Alene. **Officers:** Martin Robish, Pres.; Lawrence L. Lewis, Sec., both of Coeur d'Alene; Wm. M. Hill, Mgr., Spokane. **Inc.:** Oct. 9, 1909. **Capital:** 2,750,000 shares; par value \$1; 1,505,000 shares issued. **Property:** 505 acres patented land and 4 unpatented claims; Little North Fork dist.; Linfor. **Development:** Approximately 600 ft. of underground workings. **Remarks:** Annual labor only on unpatented claims.

**COEUR D'ALENE-SPOKANE MINING CO.**

**Officers:** Roy L. Black, Sec., Pocatello. **Inc.:** Sept. 6, 1918. **Capital:** 1,000,000 shares; par value \$1; 500,000 shares issued. **Property:** Strobel group; 3 unpatented claims, unorganized dist.; Lane. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**COMMONWEALTH METALS CO.**

**Office:** Coeur d'Alene. **Officers:** F. W. Reed, Sec., Coeur d'Alene. **Inc.:** March 19, 1924. **Capital:** 2,500,000 shares; par value \$1; 680,193 shares issued. **Property:** Commonwealth group; 7 unpatented claims, Hayden Lake dist.; Hayden Lake. **Development:** Two small shafts and one short tunnel. Total development approximately 1500 ft. **Plant:** Steam driven I-R compressor, and complete mining equipment. **Ore:** Lead, silver, copper. **Remarks:** Idle.

**ESTELLA METALLURGICAL CO.**

**Office:** P. O. Box 2048, Spokane. **Officers:** W. C. Brower, Pres.-Mgr., Coeur d'Alene. **Inc.:** Feb. 13, 1923. **Capital:** 5,000,000 shares; par value unknown; 3,000,000 shares issued. **Property:** 65 unpatented claims, 1300 acres; Wolf Lodge dist.; Coeur d'Alene. **Development:** 3 short tunnels. **Ore:** Gold, silver, copper. **Remarks:** A small amount of development work during the year.

**HAMBURG-AMERICAN COPPER MINING & MILLING CO.**

**Office:** Kellogg. **Officers:** W. Schaefer, Pres.; Mrs. Augusta Loch, Sec., both of Kellogg. **Inc.:** Nov. 30, 1908. **Capital:** 1,500,000 shares; par value \$1; 1,025,664 shares issued. **Property:** 7 unpatented claims, Little North

Fork dist.; Linfor. **Development:** Principally by 2 tunnels, the longest of which is 930 ft. **Ore:** Copper, lead-silver. **Remarks:** A stock assessment of 1 mill was levied on December 28.

#### HAYDEN LAKE MINING & MILLING CO.

**Office:** Rathdrum. **Officers:** Fred H. Bradbury, Pres.; W. A. Poleson, Sec., both of Rathdrum. **Inc.:** May 8, 1917. **Capital:** 1,000,000 shares; par value 5c; 409,000 shares issued. **Property:** Bradbury group; 13 unpatented claims, Hayden Lake dist.; Garwood. **Development:** By one tunnel 800 ft. long. **Plant:** Gas driven compressor; complete mining equipment. **Ore:** Lead-silver, copper.

#### LITTLE NORTH FORK COPPER MINING & MILLING CO., LTD.

**Officers:** T. R. Mason, Pres., Kellogg. **Inc.:** Sept. 29, 1903. **Capital:** 1,500,000 shares; par value \$1; 1,300,000 shares issued. **Property:** Hand Spike group; 3 patented claims, Little North Fork dist.; Linfor. **Development:** 2 tunnels: No. 1, 1600 ft. long; No. 2, 500 ft. long. **Ore:** Copper.

#### PALISADE MINING & MILLING CO.

**Office:** Coeur d'Alene. **Officers:** T. W. Schmidt, Pres.-Mgr., Coeur d'Alene; A. K. Rogers, Sec., E. 1301 Providence Avenue, Spokane, Wash. **Inc.:** Jan. 31, 1912. **Capital:** 1,500,000 shares; par value \$1; 1,092,107 shares issued. **Property:** Palisade group; 16 unpatented claims, unorganized dist.; Kellogg. **Development:** Approximately 1070 ft. of tunnels, the principal of which is No. 2, 1050 ft. long. **Plant:** 6x6 Gardner-Rix gas driven compressor; 50-light electric generator, driven by Pelton water wheel; complete mining equipment and buildings. **Ore:** Silver-lead. **Remarks:** Annual labor only.

#### RED HORSE MINING CO.

**Office:** Harrison. **Officers:** M. W. Frost, Pres., Harrison; Otto Borchardt, Sec., Springston. **Inc.:** July 14, 1904. **Capital:** 1,500,000 shares; par value \$1; 520,405 shares issued. **Property:** Red Horse group; 18 unpatented claims, Lake Front dist.; Springston. **Development:** Approximately 2720 ft. of underground workings. **Plant:** MINE: 40 h. p. F-M gas engine driving a two-drill Sullivan compressor; complete mining equipment and camp. MILL: 5-ton gas driven concentrator. **Ore:** Copper. **Remarks:** Annual labor only.

#### RIVERSIDE COPPER MINING CO., LTD.

**Office:** Kellogg. **Officers:** T. R. Mason, Pres., Kellogg; S. S. Bonham, Sec., Spokane. **Inc.:** Sept. 17, 1906. **Capital:** 1,000,000 shares; par value \$1; 800,000 shares issued. **Property:** 5 patented claims, Little North Fork dist.; Linfor. **Development:** 1 tunnel 530 ft. long. **Ore:** Lead-silver.

#### SILVERTIP MINING CO.

**Office:** Coeur d'Alene. **Officers:** Chas. Williams, Pres.-Mgr.; F. W. Reed, Sec., both of Coeur d'Alene. **Inc.:** An association. **Property:** 10 unpatented claims, Wolf Lodge dist.; Coeur d'Alene. **Development:** By 1 tunnel 162 ft. long. **Ore:** Lead-silver. **Remarks:** Small amount of work during the year.

#### TWIN GULCH MINING CO.

**Office:** 721 Harrison Ave., Coeur d'Alene. **Officers:** J. O. Holman, Pres.-Mgr.; G. W. Sonnichsen, Sec., both of Coeur d'Alene. **Inc.:** Feb. 2, 1924. **Capital:** 1,000,000 shares; par value 10c; 352,000 shares issued. **Property:** Twin Gulch group; unorganized dist.; Coeur d'Alene. **Ore:** Lead-silver.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Gold Coin		Ed. H. Harvey	Spirit Lake
Lake et al.	Lakefront	George Strobel	Lane
Quebec	Medimont	Lewis F. Faumot	Medimont

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## LATAH COUNTY

Latah County is bounded on the north by Benewah, on the south by Nez Perce, on the west by the State of Washington, and on the east by Shoshone and Clearwater counties. It has an area of 1071 square miles, and was accredited with a population of 18,092 in the 1920 census. Moscow is the largest town and county seat, as well as the location of the University of Idaho. The county is primarily recognized as an agricultural community, particularly for wheat raising.

The principal mineral resources are copper, gold, silver, opals, mica, feldspar, and high-grade fire clay. The clay occurs near the town of Troy and two companies are engaged in manufacturing it into brick, which is used by different smelters in the northwestern states. The copper, gold, silver, and mica occur in the northern part of the county, north of the towns of Harvard and Vassar, in the Gold Hill, or Blackfoot; Hoodoo; and Avon districts. These districts are served by the Washington, Idaho and Montana Railroad, which connects with the Northern Pacific and the Spokane and Eastern railroads at Palouse, Washington, and the St. Maries-Elk River branch of the Chicago, Milwaukee and St. Paul Railroad at Bovill.

The mica mines have produced a large tonnage of high-grade mica. The resources of the old ones have not been exhausted, many of the prospects justify further development, and there are still many possibilities for the discovery of new veins. As there are many chances for the development of profitable enterprises these deposits are worthy of more attention than they have been receiving in the past few years.

A small amount of work has been done on the copper deposits in the Hoodoo district, and several carloads of copper ore have been marketed. The heavy overgrowth and deep soil have hindered prospecting and development work, but the discoveries that have been made and the work done on them have proved that the deposits justify development, and that there are still possibilities for the discovery of additional veins.

The Copper Mountain Mining Co. and the Latah Minerals Exploration Co. performed a small amount of development work during the year.

**ACE MINING CO.**

**Office:** N. 1405 Ash St., Spokane, Wash. **Officers:** Chas. G. Taylor, Pres.-Mgr.; R. E. Gallagher, Sec., both of Spokane. **Inc.:** October 29, 1926. **Capital:** 1,500,000 shares, par value 10c; shares issued, none. **Property:** 4 patented claims, Hoodoo dist.; Harvard. **Development:** By 2 tunnels: No. 1, 160 ft. long; No. 2, 90 ft. long. **Ore:** Gold.

**CASSIDY GOLD MINING & MILLING CO., LTD.**

**Officers:** N. J. Stockbridge, Sec., Wallace. **Inc.:** March 12, 1899. **Capital:** 600,000 shares; par value 5c; shares issued, unknown. **Property:** Cassidy; 1 patented claim, Blackfoot dist. **Ore:** Gold.

**COPPER CHIEF MINING & MILLING CO., LTD.**

**Office:** Troy. **Officers:** Robert Olson, Pres.; Albert B. Olson, Sec., both of Troy. **Inc.:** July 27, 1914. **Capital:** 1,000,000 shares; par value \$1; 537,229 shares issued. **Property:** Copper Chief group; 2 unpatented claims and 10 acres of deeded land, unorganized dist.; Troy. **Development:** 3 tunnels: No. 1, 300 ft. long; No. 2, 500 ft. long; No. 3, 500 ft. long. **Ore:** Copper. **Remarks:** Annual labor only.

**COPPER MOUNTAIN MINING CO.**

**Office:** Palouse, Wn. **Officers:** R. A. Belvail, Pres.; J. C. Northrup, Sec., both of Palouse. **Inc.:** Oct. 29, 1925. **Capital:** 3,750,000 shares; par value 1c; 1,597,000 shares issued. **Property:** Mizpah group; 19 unpatented claims, Hoodoo dist.; Harvard. **Development:** Total development approximately 2500 feet. **Plant:** A 12x14 gas driven compressor; complete mining equipment, and camp. **Ore:** Copper. **Remarks:** A reorganization of the Merger Mining Co., Ltd.

**GOLD HILL MINING & MILLING CO.**

**Office:** Harvard. **Officers:** K. F. Pinnell, Pres.-Mgr., May Pinnell, Sec., both of Harvard. **Inc.:** Nov. 6, 1922. **Capital:** 1,000,000 shares; par value 25c; 612,959 shares issued. **Property:** Gold Bug group; 4 patented claims, 65 acres; held under lease and bond from the Garfield Mining & Milling Co., of Garfield, Wash.; Blackfoot dist.; Harvard. **Development:** Approximately 1200 ft. of tunnels and drifts, and one vertical shaft 300 feet deep. **Plant:** Steam driven hoist and compressor. **Ore:** Gold, silver, copper.

**LATAH MINERALS EXPLORATION CO.**

**Office:** Potlatch. **Officers:** H. M. Hoskins, Pres.; Frank J. Peterson, Sec.; J. V. Hull, Mgr.; all of Potlatch. **Inc.:** Joint stock company, organized Feb. 23, 1923. **Capital:** 2,000,000 shares; par value \$1; no shares issued. **Property:** Lode Stone group; 8 unpatented claims, 140 acres, Hoodoo dist.; Harvard. **Development:** Principally by 1 tunnel 245 ft. long. **Ore:** Gold, copper. **Men employed:** Average, 1. **Remarks:** Active development work throughout the year.

**TROY GOLD & COPPER MINING CO., LTD.**

**Office:** Troy. **Officers:** E. J. Gimmell, Pres.-Mgr.; T. H. Christie, Sec., both of Troy. **Inc.:** May 26, 1909. **Capital:** 1,000,000 shares; par value \$1: 510,100 shares issued. **Property:** 20 acres patented homestead land held under deed from homesteader. **Ore:** Copper-silver.

MINING DIST.	NAME OF MINE	OWNER	P. O. ADDRESS
Annie Gr.	Hoodoo	P. Doffner	Harvard
Avon	Hoodoo	J. H. Nesbit	Deary
Blake Gr.	Hoodoo	M. W. Nelson	Spokane, Wash.
Bonanza Gold Pl.	Gold Creek	Wm. J. Schmidt	Potlatch
Carrico Pl.	Gold Creek	Paul Bockmier	Paulsen Bldg., Spokane, Wash.
Clara Lester Gr.	Gold Creek	F. N. Dyer	Potlatch
Eureka Gr.	Gold Creek	Edwin N. Carrico	Potlatch
Excelsior	Gold Creek	Arthur P. Gilliam	Potlatch
General Jackson et al.	Gold Creek	Ludwig Swanson	Potlatch
Gold Bug	Gold Creek	Arthur P. Gilliam	Potlatch
Hard Work	Hoodoo	George Steffen	Harvard
Hathor Gr.	Hoodoo	T. A. Doud	Harvard
Idaho	Hoodoo	G. E. Arrasmith	Harvard
Knapp Bros.	Hoodoo	Harry Knapp	Harvard
LaDessa Gr.	Hoodoo	P. L. McKenzie	Portland, Ore.
Lead To Pl.	Gold Creek	Jo. Hougen	Potlatch
Midas	Hoodoo	H. N. Gray	Potlatch
Monday	Hoodoo	V. P. Wiesenthal	Palouse, Wash.



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## LEMHI COUNTY

Lemhi County is situated in central-eastern Idaho, bounded on the north and east by the State of Montana, on the west by Idaho and Valley counties, and on the south by Custer, Butte and Clark counties. It has an area of 4597 square miles, which is about equal to the State of Connecticut, and was accredited with a population of 5,164 in the 1920 census, or 1.1 persons to the square mile. A provisional county government was organized in July, 1867, and in January, 1869, the Territorial Legislature permanently established the county with Salmon City as the county seat, an honor which it has always retained. The larger part of the population is located in the Lemhi River and Pahsimeroi River valleys, and is engaged in the pursuits of agriculture and stockraising.

It is one of the principal mining counties of the State, and always ranks as one of the largest producers. The extensive and varied mineral resources; the many veins that have been discovered, yet not developed; the many undiscovered veins; the excellent mining conditions; the many producing mines and prospects; and its location both geographically and geologically, place this county within the area known as Central Idaho's Mineral Empire.

The county is served by the Pittsburgh & Gilmore Railroad, which plies between Armstead, Montana, and Salmon, with a branch line from Leadore to Gilmore; by the Sawtooth Park State highway from Challis to Salmon, which follows the Salmon River and which is fully completed; and by a system of county roads which lead into all the outlying settlements and mining districts.

The principal mineral resources are lead, copper, silver, gold, zinc, tungsten, manganese, molybdenum, nickel, cobalt, gypsum, and lignite. The formations in which the various mineral deposits occur range from early sedimentary rocks to late igneous rocks and include all those which are favorable to the deposition of ore in commercial quantities. The deposits are widely distributed throughout the vast mountainous areas which comprise a large part of the county. The wide distribution of the deposits, the diversity of mineralization, the favorable geological conditions, and the many opportunities for the development of profitable enterprises, make this county an exceptionally favorable field for prospectors and development companies.

The largest development enterprise in Lemhi County during the year was that of the Harmony Mines Co. In the closing months of 1925, the long crosscut intersected the vein at a depth of 600 feet below the old lower level; at this point a good grade of commercial ore was encountered. During 1926

this ore was further explored, the tramway was moved to the new tunnel, and the mine and mill were put in condition to permit production early in 1927.

The Pope-Shenon mine, which is near the Harmony mine and is geologically similar, was operated by lessees during most of the year.

The Latest Out Mining & Smelting Co., Ltd., whose mine is at Gilmore, performed a small amount of development work throughout the year.

The Pittsburgh-Idaho mine, which adjoins the Latest Out and is owned by the United Idaho Mining Co., a subsidiary of the United States Smelting, Refining & Mining Co., maintained the largest payroll in the county. This company performed an extensive amount of development work and shipped a large tonnage of lead-silver ore, some of which was produced by lessees. Activities at this mine and at the Latest Out, and the development work being done by smaller operators and lessees, contributed to make the Gilmore district one of the most active in the county.

The Leadore, or Junction, district witnessed a small increase in operations over the previous year. One new organization was active in developing a property on Grizzly Hill, and the discovery of new lead-silver ore was reported in the Maryland and Baby Joe mines. The Leadore Mines Co. was idle throughout the year, and attachment proceedings were started by creditors.

The Nicholia section of the Spring Mountain district witnessed an increase over the previous year in mine development and investigations. In the late months of 1926 an important discovery of lead-silver ore was reported. This district offers excellent possibilities for the development of new mines.

The mill at the Goldstone mine was operated by lessees, and a small shipment of bullion was marketed. This mine was under active development during the greater part of the year.

The Leesburg district was more active than usual, as all the established companies increased their operations, and one new placer mining company entered the district.

#### **ALLIE MINING CO., LTD.**

**Office:** Gilmore. **Officers:** Edgar C. Ross, Pres.-Mgr., Gilmore; Harry R. Hyde, Sec., Ridgway, Pa. **Inc.:** Jan. 23, 1905. **Capital:** 30,000 shares; par value \$10; all shares issued. **Property:** Allie group; 6 patented claims, Texas dist.; Gilmore. **Ore:** Lead-silver. **Remarks:** Idle since 1914. Property sold at sheriff's sale on May 27, 1924, and company failed to redeem.

#### **BLACK PINE COPPER MINING & MILLING CO., LTD.**

**Office:** 501 Gloyd Bldg., Kansas City, Mo. **Officers:** F. J. Fetter, Pres., Kansas City, Mo. **Inc.:** Jan. 20, 1902. **Capital:** 40,000 shares; par value \$1; all shares issued. **Property:** 4 patented claims, Blackbird dist.; Salmon. **Remarks:** Idle since 1904.

#### **BONANZA PLACER, INC.**

**Office:** Las Vegas, Nevada. **Officers:** Carl A. Paulsen, Pres.-Mgr., Los Angeles, Calif.; Frank A. Butschke, Sec., Leesburg. **Inc.:** Filed in Idaho, Dec. 6, 1926. **Capital:** 2,500,000 shares; par value 10c; 1,850,000 shares issued. **Property:** 9 unpatented placer claims, Mackinaw dist.; Leesburg. **Ore:** Placer gold. **Remarks:** Hydraulic mining equipment was purchased, and part of it was being transported to the property during the closing months of the year.

#### **CONTINENTAL STANDARD MINING CO.**

**Office:** 129 S. Main St., Pocatello. **Officers:** Dr. I. B. Keller, Pres., Leadore; C. N. Friday, Sec.-Mgr., Pocatello. **Inc.:** Jan. 2, 1926. **Capital:** 1,100,000 shares; par value \$1; 500,050 shares issued. **Property:** Grizzly Hill group; 18 unpatented claims, Junction dist.; Leadore. **Development:** By 3 short tunnels. **Ore:** Lead-silver. **Remarks:** A small amount of development work during the year.

**HARMONY MINES CO.**

**Office:** Room 416, 5 S. Wabash Ave., Chicago, Ill. **Officers:** A. W. Nieman, Pres., 5431 Lakewood Ave., Chicago; Mrs. O. K. Mitchell, Sec., 1221 Rosemont Ave., Chicago; E. F. Nieman, Mgr., Salmon. **Inc.:** April 8, 1916. **Capital:** 3,000,000 shares; par value \$1; 2,250,000 shares issued. **Property:** Harmony group; 7 patented, 20 unpatented claims, Eldorado dist.; Baker. **Development:** By 6 tunnels; No. 1, 400 ft. long; No. 2, 350 ft. long; No. 3, 1000 ft. long; No. 4, 2400 ft. long; No. 5, 2700 ft. long; No. 6, 210 ft. long; and numerous small cuts and shafts totaling approximately 7200 ft. **Plant:** MINE: 1 I-R 800 cu. ft., 1 C-P 350 cu. ft., and 1 C-P 210 cu. ft. electrically driven compressor; 6-ton Mancha storage-battery locomotive; two aerial tramways, one 800 ft. long, the other 1900 ft. long. **MILL:** 175-ton concentrator, including flotation; primary and secondary crushers; Harding ball mill; two Dorr classifiers; 10 Wilfley tables; one 12 ft. and one 6 ft. K. & K. flotation cells; two Aikens classifiers. Built in 1919-1920. All electrically driven. **Ore:** Copper. **Men employed:** Average, 26. **Remarks:** This property is one of the most completely equipped mines in Lemhi County. The driving of a 1700-ft. crosscut, which will give an additional depth of 600 ft. on the vein, was started in June, 1925, and work was continued without interruption throughout the year. This crosscut encountered an excellent showing of high-grade ore, after which the tramway was moved to the new tunnel, the storage-battery locomotive was installed, and the mining and milling of ore was begun in December, 1926.

**HORSE CREEK MINING CO.**

**Office:** Salmon. **Officers:** P. H. Martin, Pres.-Mgr., Alta, Mont.; H. C. Packer, Sec., Hamilton, Mont. **Inc.:** May 1, 1923. **Capital:** 100,000 shares; par value \$1; 56,872 shares issued. **Property:** Horse Creek group; 7 unpatented claims, 140 acres; Mineral Hill dist.; Alta, Mont. **Development:** About 500 ft. of tunnels. **Ore:** Lead-silver. **Remarks:** Principally road building during the year.

**IDAHO MINERALS CO.**

**Office:** Idaho Falls. **Officers:** Simon Martin, Pres.-Mgr.; Louis Saar, Sec.; both of Idaho Falls. **Inc.:** Aug. 13, 1919. **Capital:** 500 shares; par value \$100; 325 shares issued. **Property:** Red Warrior group; 3 unpatented claims, Spring Mountain dist.; Gilmore. **Development:** By 2 tunnels: No. 1, 180 ft. long; No. 2, 275 ft. long. **Plant:** 50-ton steam driven concentrator, built in 1921. **Ore:** Lead-silver. **Remarks:** Idle.

**IMA CONSOLIDATED MINING & MILLING CO.**

**Office:** 608 Deseret Bank Bldg., Salt Lake City, Utah. **Officers:** Oscar W. Moyle, Pres.; Harry W. Rudine, Sec., both of Salt Lake City, Utah. **Inc.:** Dec. 16, 1902. **Capital:** 200,000 shares; par value 1c; all shares issued. **Property:** Ima group; 21 patented, 4 unpatented claims, Blue Wing dist.; Patterson. **Ore:** Silver, copper, tungsten. **Remarks:** Property under lease to W. P. Barton of Pocatello.

**LATEST OUT MINING & SMELTING CO., LTD.**

**Office:** Gilmore. **Officers:** Ralph Nichols, Pres., Scarsdale, N. Y.; D. L. Nichols, Sec.-Mgr., Salmon. **Inc.:** May 23, 1910. **Capital:** 500,000 shares, par value \$1; all shares issued. **Property:** Latest Out; 1 patented claim, Texas dist.; Gilmore. **Development:** One tunnel, 365 ft. long; 2 inclined shafts, totaling 1100 ft., giving a vertical depth on the vein of 700 ft. Total development approximately 32,000 ft. **Plant:** F-M 40 h. p. gas driven hoist; 145 cu. ft. I-R gas driven compressor; gravity tram; complete mining equipment and camp. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** Sufficient work was done during the year to keep the mine open.

**LEESBURG GOLD DUST MINING CO.**

**Officers:** D. H. Wenger, Pres.; W. S. Burton, Sec., both of Salt Lake City, Utah; O. E. Kirkpatrick, Vice-Pres. & Mgr., Leesburg. **Inc.:** April 14, 1911. Charter forfeited Nov. 30, 1926. **Capital:** 1,500,000 shares; par value \$1; 1,200,000 shares issued. **Property:** 8 patented, 8 unpatented claims, Mackinaw dist.; Leesburg. **Development:** Principally by one tunnel 4000 ft. long. **Plant:** An old 10-stamp mill. **Men employed:** Average. **2. Ore:** Gold and silver. **Remarks:** Active development work throughout the year.

**LEMHI MINING CO.**

**Office:** Winchester, Ind. **Officers:** R. W. Knowlton, Pres., Ashtabula, Ohio; A. L. Nichols, Sec., Winchester, Ind.; R. E. Lee Ramey, Mgr., Salmon. **Inc.:** Jan. 16, 1924. **Capital:** 5000 shares; no par value; 4942 shares issued. **Property:** Rabbit Foot group; 8 unpatented claims, Gravel Range dist.; Forney. **Development:** By 3 tunnels, the principal one of which is 1700 ft. long. **Plant:** MINE: Steam-driven hoist. MILL: 10-stamp amalgamation. **Ore:** Gold. **Men employed:** Average, 2. **Remarks:** Annual labor only on quartz claims, and a small amount of work on placer claims.

**LEMHI UNION CO.**

**Office:** Rexburg. **Officers:** Henry McGarry, Pres.; W. H. Gilliam, Sec., both of Rexburg. **Inc.:** Dec. 20, 1913. **Capital:** 503,156 shares; par value \$1; 168,769 shares issued. **Property:** Lemhi-Union group; 19 unpatented claims, Spring Mountain dist.; Gilmore. **Development:** Approximately 2600 ft. of workings. **Plant:** Gas-driven compressor and small air-driven hoist. Complete mine camp and equipment. **Ore:** Silver-lead. **Remarks:** Active development work throughout the greater part of the year, resulting in the exposure of a good showing of ore. A stock assessment of 1¼c per share was levied on Aug. 1.

**MONTANA MINING & LIVESTOCK CO.**

**Office:** 1037 S. Flower St., Los Angeles, Calif. **Officers:** C. A. Devlan, Pres.-Mgr., Leesburg; E. H. Devlan, Sec., Los Angeles, Calif. **Inc.:** Mar. 8, 1919. **Capital:** 5,000,000 shares; par value 10c; 4,567,978 shares issued. **Property:** Leesburg group; 11 unpatented placer claims, Mackinaw dist.; Leesburg. **Plant:** Steam driven hoist and 100 cu. ft. I-R compressor; complete mining and logging equipment; saw mill; complete camp and buildings. **Ore:** Placer gold. **Remarks:** Small amount of work during the summer months.

**NORTHWESTERN DEVELOPMENT CO., LTD.**

**Office:** Ashland, Ky. **Officers:** C. E. Williams, Pres.; Thomas Boggess, Sec., both of Ashland, Ky. **Inc.:** Aug. 28, 1916. **Capital:** 500,000 shares; par value \$1; 239,840 shares issued. **Property:** Primrose group; 6 patented claims, Eldorado dist.; Salmon. **Plant:** Gas-driven compressor; complete mining equipment and mine camp. **Ore:** Gold-silver-copper. **Remarks:** Idle.

**PARKER MINING CO., LTD.**

**Office:** Blackfoot. **Officers:** F. W. Mitchell, Pres.; F. J. Cowen, Sec., both of Blackfoot. **Inc.:** Feb. 18, 1909; charter forfeited Dec. 1, 1925. **Capital:** 400,000 shares; par value \$1; all shares issued. **Property:** Parker group; 3 unpatented claims, Parker dist.; Challis. **Development:** By 3 tunnels. No. 1, 150 ft. long; No. 2, 50 ft. long; No. 3, 40 ft. long. **Ore:** Gold, silver. **Remarks:** Annual labor only.

**POCATELLO-LEMHI MINING & EXPLORATION CO.**

**Office:** 156 S. Main St., Pocatello. **Officers:** Art Rockham, Pres., C. I. Sellstrom, Sec., Fred R. Jamieson, Mgr., all of Pocatello. **Inc.:** Oct. 23, 1926. **Capital:** 1,000,000 shares; par value \$1; 500,000 shares issued. **Property:** Jamieson group; 12 unpatented claims, Junction dist.; Leadore.

**POPE-SHENON MINING CO.**

**Office:** 408 Vermont Bldg., Salt Lake City, Utah. **Officers:** R. H. Winder, Pres.; George A. Smith, Sec.-Mgr., both of Salt Lake City, Utah. **Inc.:** Dec. 3, 1917. **Capital:** 1,000,000 shares; par value 20c; 646,146 shares issued. **Property:** Pope-Shenon group; 12 patented claims, Eureka dist.; Salmon. **Development:** 6 tunnels: No. 1, 70 ft. long; No. 2, 80 ft. long; No. 3, 250 ft. long; No. 4, 130 ft. long; No. 5, 800 ft. long; No. 6, 850 ft. long. Total development approximately 1800 ft. of underground workings. **Plant:** MINE: 12x10 I-R electrically driven compressor; Sullivan steel sharpener; complete mining equipment and camp. **Ore:** Copper. **Remarks:** A small amount of work was performed by lessees during the year.

**PORTLAND MINING CO.**

**Office:** Butte, Mont. **Officers:** E. J. Carleton, Pres., N. Y. Life Bldg., Minneapolis, Minn.; W. S. Shaw, Sec., Butte, Mont. **Inc.:** Aug. 11, 1920. **Capital:** 500,000 shares; par value \$1; 190,000 shares issued. **Property:** Portland group; 3 patented, 11 unpatented claims, Texas dist.; Gilmore. **Remarks:** Small amount of development work.

**ROCKY MOUNTAIN PLACER CO.**

**Office:** P. O. Box 236, Wallace. **Officers:** Cecil Murphy, Pres.; John Dolan, Sec., both of Wallace. **Inc.:** Apr. 26, 1924. **Capital:** 100,000 shares; par value \$1; 60,000 shares issued. **Property:** Lease and option on McNutt placer claim, 74 acres, Leesburg dist.; Leesburg. **Ore:** Placer gold.

**SILVER CONSOLIDATED MINING CO.**

**Office:** St. Anthony. **Officers:** John Donaldson, Pres., Tieton; Wood D. Parker, Sec.-Mgr., St. Anthony. **Inc.:** March 12, 1917. **Capital:** 1,000,000 shares; par value 10c; 800,000 shares issued. **Property:** 18 unpatented claims, Spring Mountain dist.; Gilmore. **Development:** Principally by one tunnel which is 1650 ft. long. **Plant:** Gas-driven compressor; complete mining equipment. **Ore:** Lead, silver, copper, gold. **Remarks:** Small amount of development work during the year.

**UNCLE SAM MINING & DEVELOPMENT CO., LTD.**

**Office:** Salmon. **Officers:** Owen Swift, Pres.-Mgr.; L. E. Glennon, Sec., both of Salmon. **Inc.:** May 20, 1926. **Capital:** 250,000 shares; par value 10c; 125,000 shares issued. **Property:** Uncle Sam group; 4 unpatented claims, Eldorado dist.; Tendoy. **Ore:** Copper. **Remarks:** This company is developing an excellent showing of copper ore, which was discovered during the year on McDevitt Creek.

**UNITED IDAHO MINING CO.**

**Office:** 55 Congress St., c/o U. S. Smelting, Refining & Mining Co., Boston. **Officers:** C. A. Hight, Pres.; F. W. Batchelder, Sec., both of Boston; D. D. Muir, Jr., Mgr., Newhouse Bldg., Salt Lake City. **Inc.:** Oct. 18, 1924. **Capital:** 10,000 shares common, no par value; 10,000 shares preferred, par value \$10; 7053 shares common issued. **Property:** Pittsburgh-Idaho group; 5 patented claims, Texas dist.; Gilmore. **Development:** 3 tunnels: No. 1, 600 ft. long; No. 2, 800 ft. long; No. 3, 4000 ft. long; and an inclined shaft 1040 ft. long, which gives a vertical depth of 800 ft. on the vein. **Plant:** MINE: 1-200 KW Allis Chalmers Diesel engine with generator, 1 I-R 9x8, and 1 C-P gas driven compressor; 100 h. p. electrically driven hoist; complete mining equipment, camp, and buildings. **MILL:** 50-ton gas driven concentrator. **Ore:** Lead-silver. **Men employed:** Average, 87. **Remarks:** This mine is the largest lead-silver mine in Lemhi County. A large tonnage was produced and marketed, part of which was extracted by lessees; and active mine development work was maintained throughout the year. On October 31, the power plant was destroyed by fire. It was immediately replaced, and operations resumed within a short period of time.

**UTANA MINING CORPORATION**

**Office:** 205 Felt Bldg., Salt Lake City, Utah. **Officers:** W. H. Penner, Pres.-Mgr.; Web Greene, Sec., both of Salt Lake City. **Inc.:** Aug. 4, 1921. **Capital:** 1,000,000 common, par value 10c; 100,000 preferred, par value \$1; 75,000 shares common issued; 53,000 shares preferred issued. **Property:** Big Dyke group; 22 unpatented claims, Freeman dist.; Salmon. **Development:** Approximately 1600 ft. of underground workings. **Plant:** Steam driven compressor; complete mining equipment and camp; complete machinery and equipment for a cyanide plant. **Ore:** Lead, silver, copper, zinc. **Remarks:** Annual labor only.

**VIRGINIA GOLD MINING & MILLING CO.**

**Office:** Atlas Bldg., Salt Lake City, Utah. **Officers:** W. A. Byers, Pres.-Mgr.; L. M. Byers, Sec. both of Salt Lake City. **Inc.:** Aug. 21, 1925. **Capital:** 2,500,000 shares; par value 1c; 2,000,000 shares issued. **Property:** Virginia group; 18 patented, 7 unpatented claims, Eureka dist.; Baker.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Alex Stevens	Texas	Wm. Howard	Gilmore
Anaconda Gr.	Eldorado	John H. Adams	Salmon
Anaconda et al.	Blackbird	A. C. Ludwig	Salmon
Andy Lee	Gravel Range	F. M. Pollard	Los Angeles, Cal.
Arnett Creek Pl.	Mackinaw	Busch & Stuckey	Leesburg
Baby Joe Gr.	Junction	W. F. Stone	Leadore
Belcher	Gibbonsville	Chas. Goff	North Fork
Big 8-Mile	Junction	J. D. Pritchett	Leadore
Blue Bird	McDevitt	E. G. Lynch	Digby, N. S.
Boulder Gulch	Mineral Hill	John Brittain	Salmon
Brown Bull	Texas	E. C. Ross	Gilmore
Bryn Mawr et al.	Indian Creek	Davis Davies	North Fork
Buck-a-roo	Silverton	W. J. Shoup	Salmon
Cabin	Unorganized	Frank G. Worthing	Reno, Idaho
California Pl.	Mackinaw	A. C. Ludwig	Salmon
Carrie Cody	Texas	H. S. Knight	222 Kearns Bldg., Salt Lake City, U.
Castle Rock	Blue Wing	C. B. Graves	Patterson
Clara Morris Gr.	Gibbonsville	Largey Est.	46 E. Broadway, Butte, Mont.
Clipper Bullion	Mineral Hill	E. S. Suydam	North Fork
Columbia	Yellow Jacket	A. C. Ludwig	Salmon
Copper Glimce	Yellow Jacket	Chas. Anderson	Leesburg
Copper King	Mackinaw	Earl R. Galbraith	Salmon
Daly Creek	Mackinaw	John M. Smith	Salmon
.....	Indian Creek	W. W. Smith	Ulysses
Democrat	Texas	Thos. Grooms	Gilmore
Diamond Gulch	Eureka	Geo. Matics	Salmon
Dig More No. 1	Junction	Rouche & Pottle	Leadore
Dreamer Gr.	Junction	Dr. I. B. Keller	Leadore
Dunton Placer	Gibbonsville	Fred Dunton	Gibbonsville
Eagle Mine	Gibbonsville	Alfred Anderson	Gibbonsville
Florence	Eight Mile	Fred Chase	Leadore
Forney Gr.	Gravel Range	R. E. Lee Ramey	Forney
Gladstone	Pratt Cr.	Mrs. Isadore Gies	Great Falls, Mont.
Golden Rule	Eureka	W. B. Horn	Salmon
Goldfield Gr.	Gibbonsville	A. W. Beason	Salmon
Gold Point	Eldorado	Dave Stilles	Salmon
Gold Star	Mackinaw	J. A. Fry	Leesburg

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Gold Stone Gr.	Pratt Creek	Mrs. Isadore Gies	Great Falls, Mont.
Governor	Gibbonsville	F. C. Nohle	Gibbonsville
Grace	Mackinaw	Thos. Pope	Salmon
Greenhorn Mines	Eureka	F. S. Wright	Salmon
Grizzly Hill	Junction	W. F. Stone	Leadore
Grunter Gr.	Mineral Hill	M. M. McPherson	Pacific Grove, Cal.
Hard Carbonate	Spring Mountain	P. H. Clarke	Gilmore
Hawkeye Gr.	Blackbird	South & Weidner	Salmon
High Ore	Spring Mountain	J. W. Spiers	Gilmore
Hockensmith	Mackinaw	Chas. Goff	Leesburg
Hughes Creek Pl.	Gibbonsville	Justin Finch	Helena, Mont.
Iron Mask	Spring Mountain	I. L. Clark	Gilmore
Italian	Mackinaw	J. A. Herndon	Salmon
King Solomon	Eureka	Pobst Bros.	Salmon
Last Chance	Mackinaw	Grant Rood	Leesburg
Last Chance	Gibbonsville	Henry Schreiber	Gibbonsville
Liberty Bond Gr.	McDevitt	R. F. Morphey	Leadore
Lloyd Gr.	Junction	Chas. F. Lloyd	Dillon, Mont.
Lone Star	Eureka	Geo. Matics	Salmon
Lone Star	Pratt Creek	Mrs. Jennie Turnblade	Salmon
McCarty et al.	Gibbonsville	Percy Anderson	Salmon
McKinley Gr.	Eureka	Geo. Coronkrite	Salmon
Mahogany	Mineral Hill	A. C. Amonson	Salmon
Maine Silver Moon	Texas	J. A. Nash	Gilmore
Mayflower	Mackinaw	Earl R. Galbraith	Salmon
Miser's Dream	Mineral Hill	R. A. Joseph	Gilmore
Moonshine	Silverton	W. W. St. Clair	Salmon
Modock Chief	Gibbonsville	J. Rathbun	Carmen
Moose Creek	Eureka	John E. Mullen	Salmon
Mountain Boy	Texas	Hugh Ferguson	512 W. Pearl St., Butler, Pa.
Murphy Gr.	Texas	Joe Denton	Gilmore
Musgrove Mine	Blackbird	Arthur Green	Salmon
Patton Gr.	Junction	A. J. Smith, Mgr.	Leadore
Pope Gr	Mackinaw	Thos. Pope	Salmon
.....	Spring Mountain	Oakley & Ellis	Dubois
Queen of the Hills	Eureka	Emerson Hill	Salmon
Rainbow	Eureka	William Swan	Salmon
Ranger	Eldorado	Camele Rock	Salmon
Rattler	Kirtley Creek	Homer Harris	Salmon
Ready Cash	Mineral Hill	Peter Wasescha	Shoup
Red Cross Gr.	Unorganized	J. T. Pugh	Salmon
Red Gravel	Mackinaw	Bu Kee & Ah Moon	Leesburg
Richardson Pl.	Mackinaw	Will Shoup	Salmon
Ring Bone Cayuse	Mackinaw	Fred Brough	Salmon
Road Agent	Junction	Dick Roach	Leadore
Robinson Lode	Blackbird	Chas. S. Miller	Leesburg
Rosebud	Texas	Rock Vezina	Leadore
Rose & Bohannon	Blackbird	Bohannon Est.	Salmon
Roxie	Silverton	Lemm Cummings	Salmon
Roy	Junction	W. F. Stone	Leadore
Royal Gold	Eureka	John H. Adams	Salmon

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Ruby	Eldorado	Alfred Erickson	Baker
Silver Moon	Texas	J. H. Lanyon	Gilmore
Sky Scraper	Junction	P. C. Sellers	Leadore
Smuggler et al	Texas	Mac Carson	Gilmore
Speculation	Mineral Hill	Dave Sandilands	Salmon
Standard Placer	Eureka	Harry Kelly	Salmon
Sunbeam	Blackbird	Chas. Schultz	Salmon
Sunnyside	Texas	Jas. Sims	Salmon
Sunset	Mackinaw	Crist Stuckey	Leesburg
Tempest Gr.	Spring Mountain	Joseph G. Sims	Salmon
Tendoy	Unorganized	S. A. Matthews	Salmon
Tormey Gr.	Unorganized	Dr. F. S. Wright	Salmon
Uncle Sam	Spring Mountain	J. A. Nash	Gilmore
Union	Spring Mountain	James Sims	Salmon
Vaughn Placer	Mackinaw	T. Hungate	Leesburg
Verdun	Unorganized	Dr. F. S. Wright	Salmon
Vimedii	Carmen Creek	Burt W. Simer	Salmon
Viola	Nicholia	A. F. Shear	Reno
Walkover Placer	Hughes Creek	O. P. Kimmel	Salmon
White Horse	Spring Mountain	O. M. Perkins	Gilmore
Wickham & Bleness	Eureka	R. E. Wickham	Salmon
Yellow Jacket Pl.	Yellow Jacket	J. M. Burkhart, Jr.	Salmon

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## LEWIS COUNTY

Lewis is one of the northern counties, being bounded on the north and west by Nez Perce, on the northeast by Clearwater, and on the east and south by Idaho County. Containing an area of but 470 square miles, and a population of 12.4 persons to the square mile, it is one of the smallest counties in the State in area and one of the largest in density of population. Excepting the small area occupied by Craig Mountains, practically all the county is tillable, and the principal industries are wheat raising and lumbering.

The county is served by the North and South State highway, by the Lewiston-Stites branch of the Northern Pacific Railroad, by the Lewiston-Grangeville branch, which is owned jointly by the Union Pacific and Northern Pacific Railroads, by the Nez Perce & Idaho Railroad from Craigmont to Nez Perce, the county seat, and by the Craig Mountain Railroad from Reubens to Winchester.

The principal mineral resources are copper, gold, silver, marble, and limestone. Veins containing copper, gold, and silver have been discovered and developed in the Craig Mountains, principally along Deer Creek. At one time this section received considerable attention, and a small mill was constructed at one of the mines. The marble and limestone occur on Mission Creek near the Nez Perce County line. The marble occurs in all shades, colors, and diagrams familiar to the marble industry; it is exceptionally adaptable to commercial use and one enterprise has been started to utilize and manufacture the marble and limestone into marketable products.

The Winchester Copper Mining & Smelting Co. acquired the Forest group of copper claims on Deer Creek, and performed a small amount of work during the year.

**WINCHESTER COPPER MINING & SMELTING CO.**

**Office:** Winchester. **Officers:** D. Nicholson, Pres.; W. M. Nicholson, Sec., both of Winchester. **Inc.:** Aug. 7, 1926. **Capital:** 1,500,000 shares; par value 10c; shares issued, unknown. **Property:** Forest group; 8 unpatented claims, Deer Creek dist.; Winchester. **Development:** By 2 tunnels: No. 1, 248 ft. long; No. 2, 45 ft. long. **Ore:** Copper-silver. **Remarks:** A small amount of development work.

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**NEZ PERCE COUNTY**

Nez Perce is one of the principal northern counties, bounded on the south and east by Idaho and Lewis counties, on the north and east by Clearwater and Latah counties, and on the west by the States of Washington and Oregon. It has an area of 851 square miles and was accredited with a population of 15,253 in the 1920 census. It is primarily an agricultural county, and Lewiston, the largest town, and civic center of north central Idaho, is the county seat. The county was originally organized under an act of the Legislature of Washington Territory before the Territory of Idaho was organized, and Lewiston was first settled in 1861, consequent to the discovery of, and as a supply point for, the placer mines in Clearwater and Idaho counties.

Lewiston is at the junction of the Snake and Clearwater rivers; steamboats can reach it from Portland, Oregon, although they are not used as a means of transportation from that point, and both rivers are navigable for boats of light draft. In addition to river boats, the county is served by the Union Pacific and Northern Pacific railroads, and by the North and South, and Lewis and Clark State highways.

The principal mineral resources are copper, silver, gold, marble, and limestone. The metals occur in isolated sections of the county and have never received much attention. The limestone, which is adaptable to Portland cement, occurs on the Snake River north of Lewiston, but the deposits have never been developed. The marble, which is of excellent grade and quality, occurs on the Clearwater River near Agatha. A little attempt has been made to exploit the marble deposits.

<b>NAME OF MINE</b>	<b>MINING DIST.</b>	<b>OWNER</b>	<b>P. O. ADDRESS</b>
Gold Standard	Cave Gulch	G. C. Ettershank	Lewiston
Homestead Entry	Clearwater	G. H. Gibbs	R. F. D. No. 2, Juliaetta
Iron Cap	Peck	W. H. Rugg	Peck
Montana	Unorganized	Frank Cole	Lewiston

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## OWYHEE COUNTY

Owyhee is one of the historic counties of Idaho. It is situated in the southwestern portion of the State, and is bounded on the north by Canyon, Ada and Elmore counties, on the east by Twin Falls County, on the south by the State of Nevada, and on the west by the State of Oregon. Its area is 7956 square miles, being larger than the State of New Jersey, and its population according to the 1920 census was only 4,694, or 0.6 persons to the square mile. The principal industries are farming, stockraising, and mining. Silver City, one of the oldest towns in the State, is the county seat.

The history of this county dates back to the discovery of placer gold and the rich veins of War Eagle Mountain in 1863. The first quartz mill was constructed in 1864, and for many years thereafter Owyhee was the principal mining county. The ores which occur in this county are the richest gold-silver ores ever discovered in the State, and many tons which were either milled or sent directly to smelter, had a phenomenal value. Early statistics are not very reliable, but from the best sources available, an estimated production of over \$40,000,000.00 is conservative.

The principal mineral resources of the county are silver, gold, copper, lead, zinc, antimony, diatomaceous earth, opals, and nitrates. The diversity of mineralization, the favorable geological conditions, and the wide distribution of the deposits throughout the county make it an exceptionally favorable field for prospectors and development companies, particularly because all the high-grade ore in the old mines has not been exhausted, nor have all the veins been discovered.

One of the most persistent development campaigns that is being conducted in the State is that of the Great Western Mines Co., whose property is on War Eagle Mountain. This company has maintained active development work without interruption for the past six years.

Other than surveying its mining claims for patent, the Never Sweat Mining Co. was idle throughout the year.

The Owyhee Gold Mining Co., at its Mountain Chief mine on War Eagle Mountain, was active throughout the year. The development work resulted in exposing an excellent showing of high-grade ore.

One of the principal new enterprises to be started during the year was that of the American Gold Dredging Co. on Meadow Creek, near Triangle. This company prospected its placer ground with churn drills and shafts. The outcome was satisfactory, and arrangements have been completed for the installation of a dredge at an early date.

The Castle Creek Mining & Milling Co. marketed a few tons of concentrate during the early part of the year, after which operations were suspended until further finances for conducting development work could be obtained.

The South Mountain property of the Golconda Group Mining Co. was investigated by various concerns seeking lead-silver ores. The merit of this property, which in the early seventies supported a smelter, satisfied one investigator, who obtained an option and immediately set about starting an intensive mine development campaign for 1927.

The Hoosier Leasing Co., on the Alpine vein in the Trade Dollar, and Elisha Lewis, at the Morning Star, were the two most important operators to start at Silver City during the year. The latter produced and milled a small amount of high-grade gold ore.

The Idaho Gold & Platinum Co., whose enterprise is based on the presence of platinum in a volcanic-glass sand lying at a depth of about 250 feet, began to sink a shaft during the closing months of the year.

Owyhee County continues to attract prospectors and investigators seeking new enterprises, and as there are abundant opportunities for the discovery of new veins, the future outlook points to an increase in mining activities. During the year, the Idaho Bureau of Mines and Geology completed a geological survey of the Silver City and De Lamar districts. The publication covering this work, which will be available early in 1927, should be instrumental in attracting attention to these districts.

#### AMERICAN GOLD DREDGING CORPORATION

**Office:** 505 Railway Exchange Bldg., Detroit, Mich. **Officers:** Walter J. Long, Pres.-Mgr., 8th St. & Garden Ave., Boise; Louis B. Hyde, Sec., Detroit, Mich. **Inc.:** Jan. 2, 1926. **Capital:** 300,000 shares common, 200,000 shares preferred; par value \$1; 155,000 shares common, 33,155 shares preferred issued. **Property:** Meadow Creek group; 18 unpatented placer claims, containing 360 acres, part of which are held under lease and option; Steele dist.; Triangle. **Plant:** No. 3 Keystone drill and shafting equipment. **Ore:** Placer gold. **Remarks:** During the summer months this company prospected its placer ground with churn drills and shafts. The outcome was satisfactory, and arrangements have been completed for the installation of a dredge at an early date.

#### CASTLE CREEK MINING & MILLING CO.

**Office:** 12 Shaw Bldg., Boise. **Officers:** F. B. Smith, Pres.-Mgr.; A. E. Reinhardt, Sec., both of Boise. **Inc.:** An association. **Capital:** 500,000 shares; par value \$1; 475,000 shares issued. **Property:** 6 patented, 2 unpatented claims in Pixley Basin, unorganized dist.; Grandview. **Development:** Principally by 3 tunnels: No. 1, 150 ft. long; No. 2, 350 ft. long; No. 3, 800 ft. long; one inclined shaft 220 ft. long. **Plant:** MINE: 10x10 gas-driven compressor; complete mining equipment and camp. MILL: 30-ton gas-driven concentrator including flotation. **Ore:** Silver. **Men employed:** Average, 2. **Remarks:** During the early part of the year a few tons of concentrate were produced and marketed, after which operations were suspended until further finances for conducting development work could be obtained.

#### COSMOPOLITAN MINING CO., LTD.

**Office:** Murphy. **Officers:** H. C. Simonsen, Pres., Nampa; Oscar Brunzell, Sec., Murphy. **Inc.:** Nov. 17, 1923. **Capital:** 500,000 shares; par value \$1; 114,992 shares issued. **Property:** Hammond group; 5 unpatented claims Carson dist.; Silver City. **Development:** By 2 tunnels; No. 1, 420 ft. long; No. 2, 344 ft. long. **Ore:** Antimony-silver. **Remarks:** A small amount of work during the year.

**GOLCONDA GROUP MINING CO.**

**Office:** N. 1226 Summit Blvd., Spokane, Wash. **Officers:** G. A. Sonneman, Pres.-Mgr.; R. L. Dalke, Sec., both of Spokane, Wash. **Inc.:** Jan. 11, 1908. **Capital:** 1,500,000 shares; par value 1c; all shares issued. **Property:** South Mountain group; 15 patented claims, South Mountain dist.; Jordan Valley, Ore. **Ore:** Lead-zinc-silver. **Remarks:** This property was investigated by various concerns seeking lead-silver ores. The merit of the property, which in the early seventies supported a smelter, satisfied one investigator, who obtained an option and immediately set about starting an intensive mine development campaign for 1927.

**GREAT WESTERN MINES CO.**

**Office:** Room 169, Republican House, Milwaukee, Wis. **Officers:** S. S. Houle, Pres.; F. H. Mayhew, Sec., both of Milwaukee, Wis.; T. W. Galigher, Agent, 915 N. 21st St., Boise. **Inc.:** Nov. 29, 1920. **Capital:** 1,500,000 shares; par value 1c; 1,132,229 shares issued. **Property:** Chapman group, owned by Chapman & Emerson, Boise; 5 unpatented claims, held under lease and bond. Company owns three and a fraction unpatented claims, French dist.: Silver City. **Development:** By 2 tunnels: No. 1, 2800 ft. long; No. 2, 1900 ft. long. **Plant:** Electrically driven 10x10 compressor; complete mining equipment and camp. **Ore:** Gold. **Men employed:** Average, 4. **Remarks:** Active operations were maintained throughout the year.

**HOOSIER LEASING CO.**

**Office:** Silver City. **Officers:** Charles A. Hackney, Pres.; Peter Steele, Mgr., both of Silver City; Victor Shawe, Sec., Boise. **Inc.:** Nov. 16, 1926. **Capital:** 100,000 shares; par value \$1; 32,250 shares issued. **Property:** Lease on Alpine vein from Empire Mines Company; Carson dist.; Silver City. **Development:** Operations conducted through Blaine tunnel. **Remarks:** A new organization, which acquired its lease and started operations during the closing months of the year.

**IDAHO GOLD & PLATINUM CO.**

**Office:** Mountain Home. **Officers:** J. R. Prentice, Pres.-Mgr.; Willa G. Mundell, Sec., both of Mountain Home. **Inc.:** July 6, 1925. **Capital:** 2,500,000 shares; par value 10c; shares issued, unknown. **Property:** 11 unpatented claims, unorganized district, Little Valley; Bruneau. **Ore:** Platinum. **Remarks:** This company's enterprise is based on the presence of platinum in a volcanic glass sand lying at a depth of about 250 feet. During the closing months of the year, an attempt toward sinking a shaft was made.

**IMPERIAL MINING & MILLING CO., LTD.**

**Office:** 816-819 Foster Bldg., Denver, Colo. **Officers:** B. M. Webster, Sec., Denver, Colo. **Inc.:** March 13, 1903. **Capital:** 500,000 shares; par value \$1; all shares issued. **Property:** Imperial Lode; 1 patented claim, French dist.; Silver City.

**NEVER SWEAT MINING CO.**

**Office:** Nampa. **Officers:** George O. A. Kellogg, Pres., D. L. Rhodes, Sec., both of Nampa. **Inc.:** July 6, 1922. **Capital:** 50,000 shares; par value \$10; shares issued, unknown. **Property:** Never-Sweat group; 9 unpatented claims, French dist.; Silver City. **Development:** Principally by one tunnel 400 ft. long, and one shaft 100 ft. deep. Total development work approximately 3800 feet. **Plant:** MINE: Electrically driven compressor and complete mining equipment. MILL: 50-ton mill; fine grinding, amalgamation plates, and concentrating tables. Complete mine camp. **Ore:** Silver-gold. **Remarks:** Except for patent surveys, this company was idle throughout the year.

**OWYHEE GOLD MINING CO.**

**Office:** Nampa. **Officers:** M. D. Polk, Pres.; E. P. Kellogg, Sec.-Mgr.; both of Nampa. **Inc.:** Sept. 3, 1925. **Capital:** 500,000 shares; par value \$1; 200,560 shares issued. **Property:** Mountain Chief group; 2 unpatented claims, French dist.; Silver City. **Development:** Principally by 5 tunnels, totaling 1080 feet. **Men employed:** Average, 2. **Ore:** Gold, silver. **Remarks:** Active throughout the year. The development work resulted in exposing an excellent showing of good ore.

**PRECIOUS METAL MINES CO.**

**Office:** 219 Ness Bldg., Salt Lake City, Utah. **Officers:** B. D. Field, Pres.; H. A. Smith, Jr., Sec., both of Salt Lake City. **Inc.:** Oct. 19, 1922. **Capital:** 600,000 shares; par value 10c; all shares issued. **Property:** Flint group; 4 patented, 10 unpatented claims, Flint dist.; Silver City. **Remarks:** Idle since December, 1924.

**ROOSTER COMB MINING CO.**

**Office:** 1704 N. 25th St., Boise. **Officers:** J. M. McBride, Pres.; W. H. Campbell, Sec., both of Boise. **Inc.:** Jan. 7, 1926. **Capital:** 100,000 shares; par value \$1; 7 shares issued. **Property:** 8 unpatented claims on Reynolds Creek, held under lease and option, unorganized dist.; Murphy. **Development:** By one tunnel 534 ft. long, and one shaft 50 ft. deep. **Ore:** Gold. **Remarks:** Small amount of work during the year.

**VICTORY MINING & MILLING CO.**

**Office:** 256 Sonna Bldg., Boise. **Officers:** J. M. McBride, Pres.; W. H. Campbell, Sec., both of Boise. **Inc.:** Oct. 15, 1924. **Capital:** 100,000 shares; par value \$1; 54,000 shares issued. **Remarks:** Owns no property.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Addie Group	French	F. M. Orem	Salt Lake City, U.
Afterthought	French	Ernest V. Orford	Boise
American	Carson	Jas. Cox	Caldwell
Amida	Flint	John W. Shore	De Lamar
Burns et al.	Carson	C. M. Caldwell	Silver City
Daly Group	Carson	J. W. Daly	Silver City
De Lamar	Carson	H. H. Bonnell	De Lamar
Deluge et al.	Carson	John Grete	Silver City
Dubuque et al.	Carson	Elisha Lewis	Silver City
Garnett et al.	Unorganized	Chas. G. Warren	Mountain Home
Gold Bug	French	Mrs. W. S. Cook	Silver City
Henrietta	Carson	C. L. Norcross	168 Dartmouth St., Boston, Mass.
High Ore	French	P. C. Conway	Silver City
Homestake	French	Mrs. George Schlack	Silver City
Homestake Pl.	Snake River	Chas. Brown	Murphy
Jessie No. 1 et al.	Unorganized	Elmer Glenn	Bruneau
Last Chance Pl.	Unorganized	T. A. Gregory	Kuna
May Queen	Carson	Chas. O. Hartley	Emmett
Meadow Lark	Carson	Willenegger Bros.	De Lamar
Moose et al.	Flint	A. E. Martin	Silver City
Nellie Ann No. 1	Carson	W. W. Jones, M. D.	Jordan Valley, Ore.
Ontario	Carson	Mrs. J. Mattenson	Boise
Pauper	Carson	R. H. Leonard	Silver City
Poorman	French	Fred Grete	Silver City
Potosi	Carson	Jack Stoddard	Silver City
Rich Gulch	Carson	Sam Williams	Tulsa, Okla.
Ruth	French	Geo. Westlake	Hailey
San Juan et al.	French	Mary Grete Est.	Silver City

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Solitude et al.	Flint	Mary Tilman	Silver City
Star Gr.	Carson	Lewis Bros.	Silver City
Sugar Loaf	French	A. P. Nugent	Silver City
Sunnyside	Carson	G. A. Bergh	1228 State St., Boise
Teddy	Steele	B H. Hyde	Oreana
Triangle et al. Village	Steele	Dave H. Johnson	Oreana
Blacksmith	Carson	Duncan & Lackey	Silver City
Wannensten Gr.	Carson	Andrew Wannensten	Nampa
War Eagle Gr.	French	Wm. Healy	Boise
Wasp et al.	Flint	W. H. Townsend	Silver City

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## PAYETTE COUNTY

The Idaho Petroleum Co. at Payette acquired the property and equipment formerly owned by the Idaho Oil & Gas Co., on which was a well 1100 feet deep. During the closing months of the year the well was driven to a further depth. At a depth of about 1000 feet the bore encountered a strong flow of dry gas.

Diatomaceous earth and various clays of excellent quality are found in this county.

### IDAHO PETROLEUM CO.

**Office:** Payette. **Officers:** L. V. Patch, Pres.; A. S. Hincks, Sec.; both of Payette. **Inc.:** June 9, 1926. **Capital:** 200 shares; par value \$100; 60 shares issued. **Remarks:** During the closing months of the year, this company extended its well to a greater depth.

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## POWER COUNTY

One company seeking oil and gas did a small amount of drilling during the year. This work, the placer mining along Snake River, and one new enterprise which is developing a lead-silver vein near Rockland, were the only mining operations in this county. The latter was the Independent Mining Co., whose prospect is located near Rockland. During the year a small gas-driven compressor, air-driven hoist, and mining equipment were installed, and active development work maintained.

### ARBON VALLEY OIL CO.

**Office:** Pocatello. **Officers:** D. C. Ray, Pres.; L. B. Evans, Sec., both of Pocatello. **Inc.:** Feb. 20, 1923. **Capital:** 250,000 shares; par value \$1; 122,500 shares issued. **Property:** Oil leases on patented farm land which have been assigned to Gem State Petroleum Co.

### GEM STATE PETROLEUM CO.

**Office:** Pocatello. **Officers:** H. C. Harris, Pres.-Mgr.; S. G. Baker, Sec., both of Pocatello. **Inc.:** Oct. 2, 1923. **Capital:** 300,000 shares; par value \$1; 275,595 shares issued. **Property:** Oil and gas leases on 15,000 acres of farm land in Arbon Valley. **Development:** 10-inch well, 1930 ft. deep. **Plant:** National drilling rig and complete equipment. **Mineral sought:** Oil and gas. **Remarks:** A small amount of drilling during the year.

### IDAHO RESEARCH AND DEVELOPMENT CO.

**Office:** 717 South 4th Ave., Pocatello. **Officers:** George Williams, Pres.; Geo. Stoll, Sr., Mgr., both of Pocatello. **Inc.:** Aug. 2, 1920. **Capital:** 200,000 shares; par value \$5; 123,504 shares issued. **Property:** Oil and gas leases on 24,007 acres in Arbon Valley. **Plant:** 15 h. p. steam driven well drilling rig and equipment. **Mineral sought:** Oil and gas. **Remarks:** Idle throughout the year.



**INDEPENDENT MINING CO.**

**Office:** Rockland. **Officers:** Pietro Digiovine, Pres.-Mgr.; E. M. Cooper, Sec., both of Rockland. **Inc.:** Oct. 24, 1925. **Capital:** 2,000,000 shares; par value 25c; 1,054,300 shares issued. **Property:** Independent group; 16 unpatented claims, unorganized dist.; Rockland. **Development:** By 3 short shafts. **Plant:** Gas-driven 8x10 Sullivan compressor; small air-driven hoist; complete mining equipment. **Ore:** Lead-silver. **Remarks:** This company installed its mine plant and conducted active operations throughout the year.

**ROCKLAND VALLEY OIL CO.**

**Office:** Rockland. **Officers:** W. M. Hines, Pres.; Ed. N. Morris, Sec.; J. F. Hautzinger, Mgr., all of Rockland. **Inc.:** June 7, 1923. **Capital:** 150,000 shares; par value \$1; 79,691 shares issued. **Property:** Oil and gas leases on 16,300 acres; Rockland. **Development:** One well, 1250 ft. deep. **Plant:** Steam driven drilling rig and complete equipment. **Remarks:** A stock assessment of 2 cents per share was levied on May 1.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Bannock Peak	Unorganized	Frazier & McClandon	American Falls
Diamond et al Pl.	Snake River	Wm. M. Main	Aberdeen
Golden Clift Pl.	Snake River	Geo. J. Wheeler	American Falls
.....Pl.	Snake River	M. Launsberry	Minidoka
.....Pl.	Snake River	L. N. Rosencrans	American Falls
.....Pl.	Snake River	J. O. Payne	American Falls
.....Pl.	Snake River	Wm. & C. Wagstaff	American Falls

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**SHOSHONE COUNTY**

Shoshone County lies in the northern part of the State, and is bounded on the east by the State of Montana, on the south by Clearwater County, on the west by Latah, Benewah, and Kootenai counties, and on the north by Bonner County. In area it is one of the largest counties in the State covering 2597 square miles. Lying approximately in the geographical center of the county is the famous Coeur d'Alene mining district, which contains an area of approximately 400 square miles, and which is known throughout the world as one of the largest lead-silver producing regions of the United States.

The entire county is mountainous, containing but a very small area of agricultural land, and is entirely dependent upon the mining and timber industries, particularly mining. These industries are well established, and it is to them that credit must be given for making this county one of the wealthiest in the State, as well as the county having the smallest public debt, one of the lowest tax levies, and the greatest per capita wealth.

It is the largest and most important mining county in the State, and for many years has produced 90 per cent of the lead and 85 per cent of the silver that has been derived from Idaho mines. Its importance can be better

judged from the fact that Idaho ranks third in the United States in the production of lead and fifth in the production of silver. In addition to lead and silver, Shoshone is the principal zinc producing county in the State, and one of the most important gold producers. The other metals which occur in commercial quantities are copper, antimony, and tungsten. At one time copper was one of the principal metal products and the largest copper mines ever developed in the State were those near Mullan.

The county is served by the O.-W. R. & N. and Northern Pacific railroads, by the Coeur d'Alene-Yellowstone State highway, which is paved between Mullan, Wallace, and Kellogg, and by well-maintained county roads, which reach the principal mines. Wallace is the largest town, the county seat, and the civic and business center.

Mining conditions in the Coeur d'Alene district reflected the general sound prosperity that the country has witnessed throughout the year. All the large producers maintained capacity production, and in some instances this production was increased above normal. The mines are in excellent shape both as to future life and physical condition, and the district is assured that many years will elapse before the end of the principal mines can even be predicted. In addition to the fact that the present large producers have almost unlimited resources, there is also the possibility of discovering new mines throughout this vast mineralized area. In the past, famous producers have become exhausted, yet the closing of these properties has not affected the prosperity of the district, because when one mine has become exhausted a new one almost invariably has been discovered or developed to take its place.

The high price that lead and zinc have maintained throughout the year was a dominant factor in stimulating activity, and bringing much new money into the county for development purposes. The year witnessed more new development than at any time since the peak of wartime activities; and as many of these enterprises are based on substantial foundations they will continue to add to the general prosperity, with a favorable possibility of adding new producers to the already long list of profitable operations.

Nearly all the large operators conducted exploratory work throughout the year, either in the producing mines or in other properties. Much of this work was successful in opening new ore bodies, or in proving the extension of the present ones to a greater depth. The producing mines in which the resources and the life of the mine were greatly increased were the Bunker Hill, Hecla, Morning, Star, Tamarack, Gold Hunter, Highland-Surprise, and Stratton. New or additional ore disclosures, which are probably the forerunners of additional dividend-paying operations, were made in the following mines: The Galena mine of the Callahan Zinc-Lead Co., Sunshine, Lincoln, Hypotheek, Hector, Hilarity, and Sidney.

The largest and most important expenditures made by established companies were those of the Hercules Mining Co., and its allied companies, and the Callahan Zinc-Lead Co. The Hercules Mining Co. and the Tamarack & Custer Consolidated Mining Co., which are controlled by Jerome J. Day and Harry L. Day and through which control of many other properties in the Coeur d'Alene district is held, were actively engaged throughout the year in operating the following mining companies and mines: Stratton Mines Co., Ambergris Mines Co., Sherman Lead Co., the Maher-Hearn group, the property owned by the C. & R. Mining Co., the Panhandle Silver-Lead Mining Co., Honolulu Mining Co., Humming Bird Mining Co., Roanoke Mining Co., Ltd., Stanley Mining Co., and Happy Day Mining Co. These companies are conducting an active and intelligent campaign that is requiring large expenditures; and as the work is being done in favorable locations it is entirely possible that some of the mines will become important producers.

The principal new enterprises which are financed from outside sources, and which either started or resumed operations during the year, were the Chester Consolidated Mining Co. at the Chester group west of Wallace and at the Terrible Edith at Murray, the Lincoln Mining Co., the United Metals Co., and the Delaware Mines Corporation.

New work of importance that was started during the year by established companies was that of the Federal Mining & Smelting Co. and of the Gold Hunter Mines, Inc. The Federal reopened its Page group, which is located in Government Gulch near the Bunker Hill mine at Kellogg; and the Gold Hunter Mines, Inc., sank its new shaft on the 1200-foot level of the Gold Hunter mine to a depth of 200 feet, which proved the extension of the ore to this depth.

The principal new mill construction, improvements, or alterations made during the year were by the following companies: The Page mill of the Federal Mining & Smelting Co., at Kellogg; the Sweeny mill of the Bunker Hill & Sullivan M. & C. Co., which was converted into a custom mill of two units for the treatment of lead and zinc ores; the Jack Waite mill of the Jack Waite Leasing Co. at Murray; the Galena mill of the Callahan Zinc-Lead Co. at Wallace; the Constitution M. & M. Co. at Masonia; the Hecla Mining Co. at Gem; and the Snow Storm mill of the Oregon-Idaho Leasing Co. at Mullan.

The most important new construction work to be started during the year was the electrolytic zinc smelter at Kellogg. This plant is being constructed by the Sullivan Mining Co. to treat the zinc ore from the Star mine. It will have an initial capacity of 50 tons per day. The estimated cost is about \$1,500,000, and it is anticipated that the plant will be completed and in operation by the close of the year 1927.

The Coeur d'Alene district has always been famous for the long tunnels which have been driven for prospecting or operating purposes. In 1925 three important projects were started which progressed continuously throughout the year. These were the 7500-foot crosscut of the Atlas Mining Co., which was advanced to a total distance of 6203 feet; the crosscut of the Rainbow Mining & Milling Co., Ltd., which was advanced to a total distance of 2700 feet; and the Gertie tunnel of the Hercules Mining Co., which is exploring the Maher-Hearn group. The outstanding new construction work completed during the year, which will add greatly to the future prosperity of Shoshone County, particularly of the Pine Creek section, was the aerial tramway which extends from the Sweeny mill to the Sidney mine. The construction of the tramway was financed by the Bunker Hill & Sullivan Mining & Concentrating Co. and the Sidney Leasing Co.

Working conditions throughout the Coeur d'Alene district are exceptionally favorable. All the mines are well ventilated, and the operators devote much time and thought to making the mines safe and keeping them in such condition that the men can do a full day's work without expending the energy that is necessary in poorly ventilated mines. Both attention and money have been devoted to this phase of the operations, and it can safely be said that these are the best ventilated mines in the country. Serious attention is given not only to ventilation, but to safety, recreation, and general welfare. These favorable conditions attract to the district first-class workmen who remain permanently, with the result that the labor turnover is always at a low point. The wage scale is the highest of any mining camp in the United States, averaging from \$1.00 to \$1.50 a day above any other district. The scale is based on the price of lead, so that when this metal is selling at a high price, the workmen benefit, as well as the mining companies. As all the operators have adopted the sliding scale, there is

no hesitation in granting an increase in wages with the increase in the price of lead; and it follows that there are no labor controversies or agitation. This high wage scale is also reflected in the general prosperity of the county, which during 1926 was not exceeded by any other county or district in the State.

A brief review of the outstanding events, and the principal work done in 1926, adds strength to the above statements.

The extensive development work which was done during 1926 in the Bunker Hill mine greatly increased its resources. The completion of the shaft to the 1900-foot level and the opening of the ore body at that depth, where the ore and geological conditions were found to be normal, added much to the life of the mine, which is estimated in decades instead of in years. The Bunker Hill & Sullivan Mining & Concentrating Co., because of the magnitude of the Bunker Hill mine, has become more of a manufacturing than a mining operation, and with its smelter, mills, experimental plants, and organization, is one of the largest of its kind in the world. This company maintained its usual production record throughout the year, and the many plant betterments which were added greatly increased the efficiency of the enterprise. The principal betterments were the remodeling of the Sweeny mill, and enlargements and improvements at the smelter and the surface plant of the mine. The Tainton electrochemical experimental plant was modified and improved, and many details perfected which add greatly to the importance of the process. In addition to extensive development work in the Bunker Hill mine, this company was actively engaged in prospecting and developing other properties throughout the district.

The Hecla, which is now recognized as one of the principal lead-silver mines in the United States, greatly increased its ore reserve and resources. During the year the Hecla vein was further explored on the 2800-foot level, at which depth geological conditions had not changed; the ore is as strong and persistent as in any of the upper levels. The 2400 and 2800-foot levels are opened by a shaft which is not connected with the main operating shaft. A new hoist was installed, stations and skip pockets constructed, and all necessary additions and equipment added to permit mining from the new levels. By this arrangement the Hecla can almost be considered as a mine within a mine. The surface plant at the mine was also enlarged and improved, and construction work was started on an additional tailings unit to the mill. This company expanded its operations during the year by financing the development of four properties in south-central Idaho.

The Morning mine of the Federal Mining & Smelting Co., which is one of the oldest in point of continuous production, and one of the largest in the district, maintained capacity output during the year. The number of years that this record will continue is unknown, as the ore opened up during the year on the 3050-foot level is greater than that on any of the upper levels. On this level there appears to be no diminution in extent or grade of the ore, and the improvements made in the mine and mill during the year indicate that the management anticipates many more years. The concrete lining in the main shaft, which was put in as an experiment in 1924, proved satisfactory, and this method of shaft construction was adopted and installed in the lower levels, 2650-3050, which were sunk during the year. In addition to the ore mined from the Morning mine under company operations, a number of lessees extracted a large tonnage from the upper levels; the largest of these was the Sheridan Lease, which employs about 100 men. The principal change in the company's milling methods was the substitution of fine grinding and flotation throughout, and the discarding of all jigs and tables. This change was started in 1924 and continued through 1926.

The Page mine, which is in Government Gulch at Kellogg, was fully equipped, a new mill constructed, and ore shipments commenced during the year. This new producing mine will add greatly to the Federal Mining & Smelting Co.'s record, as well as to the prosperity of the county.

The Tamarack & Custer Consolidated Mining Co., which is recognized as one of the substantial producing mines of the district, maintained a steady output and made extensive developments underground, adding many years to the life of the mine. The new development work completed during the year totaled a distance of about one and one-half miles.

The Star mine of the Sullivan Mining Co., which is owned by the Bunker Hill & Sullivan Mining & Concentrating Co. and the Hecla Mining Co., was developed continuously throughout the year. In 1925 connection was made with the underground workings of the Morning mine of the Federal Mining & Smelting Co., and in 1926 the main operating raises, which will have a height of over 2000 feet, were advanced without interruption. In addition to doing a large amount of development and new construction work, this company maintained a daily production of 450 tons.

At its Galena mine, the Callahan Zinc-Lead Co. maintained active development, installed a 200 h. p. electrically driven hoist on the 600-foot level, and constructed a new straight flotation mill of 150 tons capacity. The development work increased the ore reserves; the construction of the mill and its operation, which started in October, added an additional profitable producing mine to the Coeur d'Alene district. This enterprise is of extreme importance to Shoshone County, as it is proving that ore can and does occur in commercial quantities in the so-called "dry belt", or south side of the district.

The Sunshine Mining Co., whose property is on Big Creek, in the south side of the district, continued to operate at a profit throughout the year. The shaft was sunk an additional 100 feet, or to the 500-foot level, a new hoist was installed, and additional equipment placed in the mill. One carload of concentrate which was marketed by this company in 1926 was the highest-grade shipment ever made from a Coeur d'Alene mine.

The Lincoln Mining Co., which owns the old Silverado mine about midway between the Sunshine and Galena mines, maintained active development work on its 450-foot level throughout the year. This work succeeded in greatly increasing the ore reserves, as part of it opened a body of high-grade silver ore. The increase in grade and extent of ore as depth is gained on the vein is adding further proof of the possibilities of the south side of the district.

The Atlas Mining Co., which is a consolidation of the Idaho-Carbonate Hill Consolidated Mining Co., the Idaho Giant Mining Co., and the Boulder Creek Mining & Milling Co., Ltd., maintained active work in extending its 7500-foot tunnel, which had been advanced to a total length of 6203 feet at the close of the year. The best record made in one month, a record believed to be unequaled, was 551 feet, 8x10 feet in the clear, in 31 days with 20 men. This tunnel is attracting much interest, as it is exploring a new section of the Coeur d'Alene district.

The Constitution Mining & Milling Co., which entered the ranks of profitable operators in 1925, increased its mill to a capacity of 250 tons, installed a new hoist, and further developed its mine during 1926. The mine development work greatly increased the ore reserves, and a large tonnage of concentrates was marketed.

The new ore disclosures made by the Hypotheek Mining & Milling Co. on the 700-foot and 900-foot levels were among the important developments of the year. It is entirely probable that this development signifies the return of another old producer. The mine and mill plants were improved and a large tonnage of concentrate and crude ore was marketed.

The Highland-Surprise Consolidated Mining Co. opened its mine to a greater depth, remodeled its mill, and marketed a large tonnage of concentrates. The operations of this company added an additional profitable enterprise to the county, as well as to the activities of the Pine Creek section.

The Hilarity Lead-Silver Mining Co., whose property is located on Pine Creek near the Nabob, Sidney, and Highland-Surprise mines, installed an electrically driven compressor, an electrically driven hoist, and new mining equipment, and extended its vertical shaft to a depth of 200 feet, at which point an excellent body of new ore was encountered. This operation appears to be a new and profitable enterprise for the county and for Pine Creek in particular.

The Independence Lead Mines, Ltd., whose property is adjacent to the Morning mine of the Federal Mining & Smelting Co., maintained development work throughout the year. This work exposed a continuation of the ore on the lowest, or No. 4, level.

During the year the Jack Waite Leasing Co. constructed a 125-ton concentrator, a 4-mile electric transmission line, installed a large amount of mine equipment, and produced and marketed a few carloads of concentrate, after the mill was completed. This company has a lease on the Jack Waite mine, and it is reported that there is a large available tonnage of lead-silver ore. This enterprise is one of the largest in the north side, or Murray section.

The Lookout Mountain Mining & Milling Co. constructed a new road and camp buildings, installed complete mining equipment, and maintained active work in driving a long tunnel, which will open the vein 300 feet below the present openings.

The Strattons Mines Co. extended its shaft to a depth of 300 feet, performed a large amount of development work, and increased its production 350 per cent over that of the previous year. This company also conducted an intensive development campaign at the Panhandle mine. It was reported that this work resulted very satisfactorily.

The Success Mining Co. maintained production and active mine exploration until June, at which time operations were suspended, and later different sections of the mine were turned over to lessees.

The Western Union Mining Co. maintained one of the most active mine development campaigns in the Coeur d'Alene district. Over one-half mile of drifting was done on the vein in the principal tunnel and on the 400-foot level in the shaft. A large tonnage of ore was produced and marketed. During the closing months of the year mining operations were placed on a leasing basis.

The Ajax Mining Co. performed a large amount of development work and produced a small tonnage of high-grade lead-silver ore. It was reported that the development work had been successful in finding the continuation of the ore bodies, which had been intercepted by a fault.

The property owned by the Douglas Mining Co., Ltd., on Pine Creek, was operated throughout the year by lessees, who produced a substantial tonnage of ore.

The Dickens Consolidated Mines Co., whose property is located on Moon Creek, north and east of Kellogg, rebuilt its surface plant and extended its vertical shaft 200 feet to the 400-foot level, at which point an excellent showing of ore was encountered.

An undertaking of importance, which involves the driving of a long tunnel, is that of the Callahan Zinc-Lead Co. and the Long Wait Mining Co., who are jointly driving a 4650-foot crosscut from the main tunnel of the Callahan mine to the Sunset, which is opened by an 800-foot vertical shaft. Work was started during the year, and, as the tunnel will explore undeveloped ground, it is attracting considerable attention.

The United Metals Co. maintained an extensive exploration campaign throughout the year, the principal part of which was on the Black Bear group. This company is holding and developing the mines owned by the Bell Mining Co., the Black Bear Mining Co., the Goodenough Mining Co., and the Western Pacific Mining Co., all of which are located on Canyon Creek near the Frisco mine of the Federal Mining & Smelting Co.

The Wall Street Mining Co., whose property lies east of the Morning mine of the Federal Mining & Smelting Co. at Mullan, maintained continuous work advancing its principal tunnel, which had gained a length of 1400 feet at the close of the year.

The Yukon Gold Co., which has operated one of the largest gold dredges in the State for over eight years, maintained continuous operations until May, at which time all the available dredging ground had been exhausted. Operations were then suspended and the dredge was dismantled.

#### ADAIR MINING CO.

**Office:** Rathdrum. **Officers:** Dr. Frank Wenz, Pres., Fred Howell, Sec., both of Rathdrum. **Inc.:** July 9, 1914. **Capital:** 1,000,000 shares; par value 2c; 387,820 shares issued. **Property:** Adair group; 3 unpatented claims, St. Joe dist.; Falcon. **Development:** Principally by 1 tunnel 340 ft. long. **Ore:** Copper. **Remarks:** Small amount of work during the summer months.

#### AETNA MINING & MILLING CO., LTD.

**Office:** Wallace. **Officers:** P. J. Maggy, Pres.; W. A. Devan, Sec., both of Wallace. **Inc.:** March 9, 1915. **Capital:** 1,500,000 shares; par value 10c; all shares issued. **Property:** 4 unpatented claims, Lelande dist.; Burke. **Remarks:** Annual labor only. A stock assessment of 1 mill was levied on June 10.

#### AJAX MINING CO.

**Office:** 714 W. 14th Ave., Spokane. **Officers:** F. Moriarity, Pres.; J. A. Havighorst, Sec., both of Spokane, Wash.; Fred W. Callaway, Mgr., Kellogg. **Inc.:** Oct. 20, 1902. **Capital:** The capital stock was increased to 2,000,000 shares on July 6, 1925; par value \$1; 1,609,022 shares issued. **Property:** 15 patented claims, Lelande dist.; Burke. **Development:** Principally by 3 tunnels and 2 shafts. Total development approximately 18,000 ft. Main or No. 7 tunnel is located in Gorge Gulch a short distance above the town of Burke. This tunnel intersects the Ajax vein at a distance of 6000 ft. **Plant:** MINE: Type 10 I-R 550 cu. ft. electrically driven air compressor; I-R No. 50 steel sharpener; Hoar shovel. **Ore:** Lead-silver. **Men employed:** Average, 12. **Remarks:** After conducting an active development campaign for a period of approximately 12 years, the money for which was derived from stock assessments, the company encountered ore in the lower or No. 7 tunnel, much of which proved to be first-class. Shipments commenced immediately, hand sorting and jigs being first used. Later a small amount of hand sorting was done, and all of the mill grade ore was shipped direct to one of the Bunker Hill mills for treatment. Prior to striking the ore, this company's stock had maintained a price varying from 10c to 13c per share. The stock immediately advanced to a price of 75c. This company has been engaged in developing its mine for many years, and the methods used in raising the funds are an ex-

cellent example of the worthiness of an assessable stock; otherwise it would have been practically impossible to have conducted a development campaign throughout such a long period of time. Active development work was conducted throughout the year, part of which was successful in solving the faulting with the uncovering of new ore. A small tonnage was produced and marketed. Stock assessments were levied during 1926 as follows: Feb. 6, 5 mills; April 7, 1 cent; Aug. 14, 1 cent; Nov. 24, 1 cent.

#### **ALHAMBRA MINING CO., LTD.**

**Office:** 504 Empire State Bldg., Spokane, Wash. **Officers:** W. J. C. Wakefield, Pres., Peyton Bldg., Spokane, Wash.; William A. Corey, Sec., Spokane, Wash. **Inc.:** Dec. 26, 1898. **Capital:** 1,000,000 shares; par value \$1; 987,399 shares issued. **Property:** Alhambra group; 23 patented claims, Yreka dist.; Kellogg. **Development:** Approximately 13,200 ft. **Ore:** Lead-silver. **Plant:** MINE: 12x12 Laidlaw-Dunn Gordon electrically driven compressor, complete mining equipment. MILL: 75-ton concentrator, including flotation. **Remarks:** No operations or work of any kind during the past three years except maintenance and repair work in the main tunnel. The mill was operated intermittently by lessees.

#### **ALICE MINING CO.**

**Office:** Wallace. **Officers:** James F. McCarthy, Pres., Leo J. Hoban, Sec., both of Wallace. **Inc.:** July 30, 1902. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** 21 patented, 2 unpatented claims, Hunter dist.; 3½ miles east of Wallace. **Development:** 10,000 ft. of underground workings. **Plant:** MINE: Compressor; hoist; complete mining equipment and camp. MILL: 125-ton concentrator. **Ore:** Lead-silver. **Remarks:** The Hercules Mining Co. acquired the property in 1925 under lease and option, installed complete new mining equipment, and conducted active mine development work until the early part of 1926, at which time the option was forfeited and the property reverted to the owners.

#### **ALMA RAY MINING CO.**

**Office:** Kellogg. **Officers:** Elmer E. Brown, Pres.-Mgr.; C. B. Forbes, Sec., both of Kellogg. **Inc.:** April 21, 1917. **Capital:** 1,500,000 shares; par value 25c; 570,434 shares issued. **Property:** Alma Ray group, 5 unpatented claims, Yreka dist.; Kellogg. **Development:** Principally by 3 tunnels: No. 1, 85 ft. long; No. 2, 250 ft. long; No. 3, 375 ft. long; 2 short shafts. **Ore:** Lead-silver, copper. **Men employed:** Average, 2. **Remarks:** Small amount of work during the year. A stock assessment of 1 mill was levied on May 15, 1926.

#### **ALPENA COPPER MINING CO., LTD.**

**Office:** Wallace. **Officers:** C. W. Beale, Pres.; A. H. Featherstone, Sec.; J. C. Purcell, Mgr., all of Wallace. **Inc.:** Aug. 9, 1900. **Capital:** 1,000,000 shares; par value 10c; all shares issued. **Property:** Alpena group; 6 unpatented claims, St. Joe dist.; Adair. **Ore:** Copper-gold. **Remarks:** Annual labor only.

#### **AMERICAN-COMMANDER MINING & MILLING CO., LTD.**

**Office:** Wallace. **Officers:** J. A. Glowe, Pres., Mullan; Herman Marquardt, Sec., Wallace. **Inc.:** Oct. 24, 1901. **Capital:** 2,000,000 shares; par value \$1; 1,600,000 shares issued. **Property:** American-Commander group; 2 patented claims, Hunter dist.; Mullan. **Development:** By 4 tunnels: No. 1, 300 ft. long; No. 2, 2400 ft. long; No. 3, 1600 ft. long; No. 4, 3000 ft. long. **Plant:** Electrically driven 9x12 Sullivan compressor; complete mining equipment. **Ore:** Lead-silver. **Remarks:** Idle throughout the year. A stock assessment of 8½ cents was levied on March 1, 1926.



**AMERICAN LEAD MINES, LTD.**

**Office:** 323 Lindelle Block, Spokane. **Officers:** R. L. Brainard, Pres., Kellogg; Matt Baumgartner, Sec.-Mgr., Spokane. **Inc.:** Feb. 2, 1925. **Capital:** 1,000,000 shares; par value 10c; 800,000 shares issued. **Property:** Crescent group; 7 unpatented claims on the West Fork of Big Creek, Yreka dist.; Kellogg. **Development:** By 1 tunnel 350 ft. long. **Ore:** Lead-silver. **Remarks:** Small amount of work during the year. Stock assessments were levied during 1926 as follows: Jan. 2, 4 mills; Feb. 27, 4 mills; Apr. 20, 4 mills; June 12, 4 mills; Aug. 10, 4 mills.

**AMERICAN MINING CO., LTD.**

**Office:** Wallace. **Officers:** Cecil Murphy, Pres.; W. E. Stache, Sec.; W. W. Stevens, Mgr., all of Wallace. **Inc.:** Nov. 1, 1899. **Capital:** 1,000,000 shares; par value 10c; 698,280 shares issued. **Property:** American group; 2 unpatented claims, Placer Center dist.; Wallace. **Development:** 3 tunnels: No. 1, 65 ft. long; No. 2, 80 ft. long; No. 3, 420 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** Active development work throughout the year. A stock assessment of 2 mills was levied on April 19, 1926.

**AMY MATCHLESS MINING & MILLING CO.**

**Office:** Mankato, Minn. **Officers:** George Weidenman, Pres.; W. A. Beach, Sec., both of Mankato, Minn.; J. G. Schrodt, Mgr., Kellogg. **Inc.:** Nov. 24, 1913. **Capital:** 1,250,000 shares; par value \$1; 898,193 shares issued. **Property:** Amy group; 5 patented, 18 unpatented claims, Yreka dist.; Pine Creek, Kellogg. **Development:** Principally by an inclined shaft, 200 ft. deep. Total development, approximately 8000 ft. **Plant:** MINE: Hoist and 2 compressors, both electrically driven; sawmill and camp. **MILL:** 75-ton concentrator, consisting of jigs, tables, and flotation. **Ore:** Lead-silver-zinc. **Men employed:** Average, 6. **Remarks:** Small amount of development work throughout the year.

**ANCHOR MINING CO.**

**Office:** 325 Main Ave., Spokane, Wash. **Officers:** Robt. Dunzler, Pres., J. L. Prickett, Sec., both of Spokane, Wash. **Inc.:** Nov. 18, 1897. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** Anchor group; 8 patented claims, Lelande dist.; Burke. **Development:** Principally by one tunnel 6000 ft. long and one vertical shaft 210 ft. deep. **Plant:** 20 h. p. hoist and 3 drill I-R compressor, both electrically driven. **Ore:** Lead-silver. **Remarks:** Idle for 14 years.

**ARCTIC MINING & MILLING CO., LTD.**

**Office:** Kellogg. **Officers:** Henry Lalonde, Pres., Wallace; Geo. H. Heller, Sec., Kellogg. **Inc.:** July 5, 1907. **Capital:** 1,500,000 shares; par value \$1; 750,000 shares issued. **Property:** Arctic group; 5 unpatented claims, Placer Center dist.; Wallace. **Ore:** Lead-silver. **Remarks:** Annual labor only. A stock assessment of 1½ mills was levied on November 20, 1926.

**ARGENTA MINING CO., LTD.**

**Office:** Wallace. **Officers:** W. C. Richardson, Pres.-Mgr., Mullan; C. D. Brock, Sec., Wallace. **Inc.:** Dec. 10, 1906. **Capital:** 1,500,000 shares; par value \$1; 1,135,000 shares issued. **Property:** Argenta group; 3 patented claims, Hunter dist.; Mullan. **Development:** 2 tunnels: No. 1, 100 ft. long; No. 2, 900 ft. long. **Ore:** Lead-silver. **Remarks:** Idle throughout the year.

**ATLANTIC MINING CO.**

**Office:** Wallace. **Officers:** Herman J. Rossi, Pres.; Otto A. Olsson, Sec.-Mgr., both of Wallace. **Inc.:** June 11, 1897. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** Atlantic group; 7 unpatented claims, Beaver dist.; Prichard. **Development:** Principally by one tunnel 320 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**ATLAS MINING CO.**

**Office:** Mullan. **Officers:** Thomas F. Keeley, Pres., 516 E. 28th St., Chicago; Charles Herrick, Sec., Mullan. **Inc.:** March 4, 1924. **Capital:** 2,000,000 shares; par value \$1; all shares issued. **Property:** Atlas group; 15 patented, 25 unpatented claims, Hunter dist.; Mullan. **Development:** 7 tunnels and 2 inclined shafts, the principal of which is the Horseshoe tunnel 1500 ft. long. **Plant:** Electrically driven compressor, and complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 16. **Remarks:** The property of the Atlas Mining Co. is a consolidation of three properties, the Carbonate Hill, Idaho Giant, and Boulder Creek, on which has been done approximately 10,500 ft. of tunneling, drifting, crosscutting, and sinking. The development work contemplated by the Atlas Mining Co. is the driving of a long crosscut tunnel through the Horseshoe group of claims to intersect at depth the three veins exposed in the workings of the three consolidated properties. This tunnel is advanced to a total length of 6,203 ft. and will intersect the veins at a vertical depth of from 300 to 1700 ft. below the upper tunnels.

**AULBACH GROUP**

**Owner:** Adam Aulbach, Murray. **Property:** Aulbach and Buckeye Boy groups; 10 patented claims, Coeur d'Alene dist.; Murray. **Development:** Approximately 4000 ft. of work on both groups. **Ore:** Lead-silver and gold. **Remarks:** These properties comprise two of the oldest locations in the Coeur d'Alene district and have been held almost continuously by the present owner.

**BEAR PLACER MINING CO.**

**Office:** 608 Empire State Bldg., Spokane, Wash. **Officers:** F. R. Clark, Pres.; G. M. Johnson, Sec., both of Spokane. **Inc.:** Aug. 5, 1924. **Capital:** 10,000 shares; par value \$10; 4530 shares issued. **Property:** Bear Placer group; 2 unpatented placer claims, unorganized dist.; on St. Joe river; Superior, Mont. **Ore:** Placer gold. **Remarks:** Annual labor only.

**BELL MINING CO.**

**Office:** 504 Empire State Bldg., Spokane, Wash. **Officers:** M. J. Flohr, Vice Pres., Wallace; Charles Hussey, Sec., Spokane, Wash. **Inc.:** Oct. 17, 1898. **Capital:** 500,000 shares; par value 25c; 495,500 shares issued. **Property:** 9 patented claims, Lelande dist.; Wallace. **Remarks:** Under development by the United Metals Co.

**BELL OF THE WEST MINING CO.**

**Office:** Wallace. **Officers:** George R. Trask, Pres.-Mgr.; M. E. Trask, Sec., both of Wallace. **Inc.:** Oct. 23, 1899. **Capital:** 1,500,000 shares; par value 5c; all shares issued. **Property:** Bell of the West group; 2 patented, 2 unpatented claims, Placer Center dist.; Wallace. **Development:** 2 tunnels: No. 1, 250 ft. long; No. 2, 1000 ft. long with 300 ft. of crosscuts. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**BELMONT MINING CO., LTD.**

**Office:** Wallace. **Officers:** M. E. Hess, Vice-Pres.; Frank P. Hess, Sec., both of Wallace. **Inc.:** March 26, 1900. **Capital:** 1,000,000 shares; par value \$1; 275,700 shares issued. **Property:** Belmont group; 10 unpatented claims, Evolution dist.; Osburn. **Development:** Principally by 2 tunnels: No. 1, 320 ft. long; No. 3, 70 ft. long. **Ore:** Lead-silver.

**BENTON MINING CO., LTD.**

**Office:** Wallace. **Officers:** Mary Callahan, Pres., Spokane, Wash.; E. G. Gnaedinger, Sec.-Mgr., Wallace. **Inc.:** Feb. 14, 1903. **Capital:** 1,500,000 shares; par value \$1; 1,229,834 shares issued. **Property:** Benton group; 5 patented claims, Lelande dist.; Burke. **Development:** By 6 tunnels, the principal one of which is 1500 ft. long, and one vertical shaft 200 ft. deep.

**Plant:** Electrically driven hoist and 2-drill compressor. **Remarks:** A small amount of work during the year.

#### **BIG CREEK MINING CO., LTD.**

**Office:** Wallace. **Officers:** W. W. Smith, Sec., Wallace. **Inc.:** Sept. 26, 1902. **Capital:** 2,000,000 shares; par value \$1; 1,482,908 shares issued. **Property:** Big Creek group; 5 patented, 3 unpatented claims, Yreka dist.; Wallace. **Development:** By 4 tunnels with 4 intermediate levels: No. 1, 590 ft. long; No. 2, 520 ft. long; No. 3, 2550 ft. long; No. 4, 2860 ft. long. Total development approximately 7300 ft. **Plant:** MINE: Electrically driven I-R compressor; complete mining equipment. **MILL:** 75-ton concentrator. **Ore:** Lead-silver. **Remarks:** Property taken under foreclosure proceedings by Bunker Hill & Sullivan M. & C. Co.

#### **BIG DIVIDE MINING CO., LTD.**

**Office:** Sanger, Calif. **Officers:** Frank P. Markwell, Pres., Sanger; J. F. Markwell, Sec., Long Beach, Calif. **Inc.:** Aug. 23, 1904. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** Big Divide group; 10 patented, 5 unpatented claims, Lelande dist.; Wallace. **Plant:** Large air compressor driven by 150 h. p. electric motor. **Ore:** Lead-silver.

#### **BIG ELK MINING CO., LTD.**

**Office:** Wallace. **Officers:** Peter Peterson, Pres.-Mgr., Saltese, Mont.; A. H. Featherstone, Sec., Wallace. **Inc.:** April 26, 1909. **Capital:** 2,000,000 shares; par value \$1; all shares issued. **Property:** Big Elk group; 17 unpatented claims, St. Joe dist.; Delage. **Ore:** Copper-gold. **Remarks:** Annual labor only.

#### **BISMARCK MINING CO.**

**Office:** Wallace. **Officers:** E. V. Lange, Pres., Amsterdam, Holland; W. H. Herrick, Mgr., Wallace. **Inc.:** Jan. 18, 1924. **Capital:** 1,250,000 shares; par value 10c; 750,000 shares issued. **Property:** Bismarck group; 3 unpatented claims, Yreka dist.; Kellogg. **Development:** By 1 tunnel 300 ft. long. **Ore:** Lead-silver. **Remarks:** A small amount of work during the year.

#### **BITTER ROOT MOUNTAIN MINING CO.**

**Office:** 939 S. Cowley St., Spokane, Wash. **Officers:** W. P. Flood, Pres.; Mrs. F. A. Noteware, Sec., both of Spokane, Wash. **Inc.:** May 6, 1901. **Capital:** 1,500,000 shares; par value 5c; all shares issued. **Property:** Lookout group; 3 patented claims, Hunter dist.; Mullan. **Development:** Principally by 1 tunnel 1000 ft. long. **Ore:** Lead-silver. **Remarks:** Inactive since 1900.

#### **BLACK BEAR MINES CO.**

**Office:** Wallace. **Officers:** C. A. Hagan, Pres., Moscow; H. J. Arnett, Sec., Wallace. **Inc.:** Feb. 24, 1917. **Capital:** 2,000,000 shares; par value 20c; 269,570 shares issued. **Property:** Black Bear group; 5 patented, 2 unpatented claims, Lelande dist.; Wallace. **Development:** Principally by 1 tunnel 4100 ft. long. **Plant:** 750 cu. ft. electrically driven compressor; complete mining equipment. **Ore:** Lead-zinc-silver. **Remarks:** Under option to the United Metals Co.

#### **BLACK HAWK MINING & DEVELOPMENT CO., LTD.**

**Office:** Wallace. **Officers:** Alfred Page, Pres., Spokane, Wash.; A. W. Hoover, Sec.; Frederick Burbidge, Mgr., both of Wallace. **Inc.:** Aug. 19, 1901. **Capital:** 1,500,000 shares; par value 10c; 1,332,352 shares issued. **Property:** Black Hawk group; 13 patented claims, Yreka dist.; Kellogg. **Development:** By 2 tunnels: Black Hawk, 2920 ft. long; Page, 2600 ft. long. **Ore:** Silver-lead-zinc. **Remarks:** This property was developed during the year through the workings of the Page mine of the Federal M. & S. Co.

**BLAINE & EMMETT MINING CO., LTD.**

**Office:** Kellogg. **Officers:** Merrill Heblethwaite, Pres.-Mgr., Prichard; R. W. Skeman, Sec., Kellogg. **Inc.:** Dec. 20, 1909. **Capital:** 1,000,000 shares; par value \$1; 477,312 shares issued. **Property:** Blaine & Emmett group; 5 unpatented claims, Eagle dist.; Prichard. **Development:** 3 tunnels: No. 1, 50 ft. long; No. 2, 300 ft. long; No. 3, 640 ft. long. **Remarks:** Annual labor only.

**BLUE EAGLE MINING CO.**

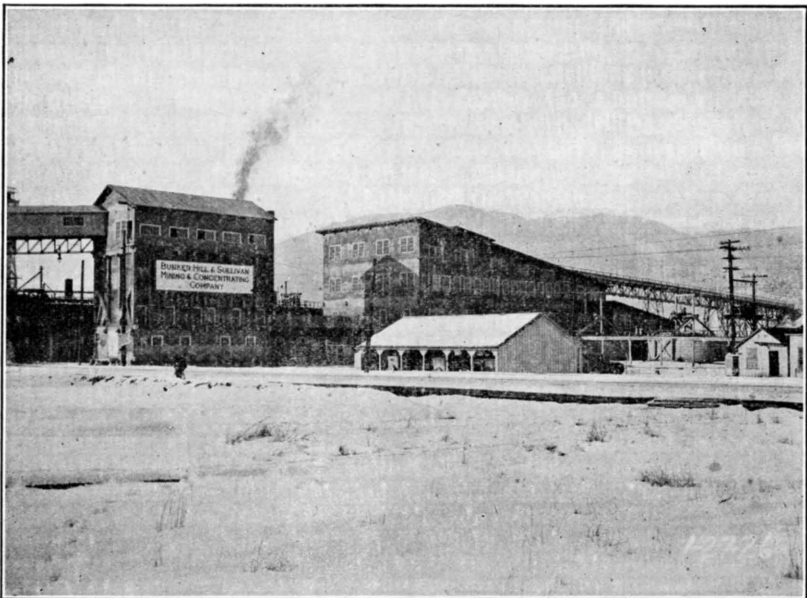
**Office:** Kellogg. **Officers:** Ed McCarty, Pres., C. B. Forbes, Sec.; both of Kellogg. **Inc.:** April 18, 1925. **Capital:** 1,500,000 shares; par value 1c; 1,228,325 shares issued. **Property:** Blue Eagle group; 15 unpatented claims, Pine Creek, Yreka dist.; Kellogg. **Development:** By 2 short tunnels. **Plant:** Electrically driven 8x9 I-R compressor. **Ore:** Lead-zinc-silver. **Men employed:** Average, 2. **Remarks:** The mine plant was installed, and a small amount of work was done under contract during the year.

**BLUE RIBBON MINING CO.**

**Office:** 601 N. Monroe St., Spokane, Wash. **Officers:** A. Held, Pres.; Al Harris, Sec., both of Spokane, Wash. **Inc.:** Oct. 22, 1914. **Capital:** 1,500,000 shares; par value 10c; 300,000 shares issued. **Property:** Blue Ribbon group; 7 unpatented claims, Hunter and Lelande dists.; Burke. **Development:** Principally by 1 tunnel 2400 ft. long. **Men employed:** Average, 2. **Remarks:** A small amount of development work and stock assessments during the year.

**BLUE WING MINING CO.**

**Office:** Wallace. **Officers:** Herman J. Rossi, Sec., Wallace. **Inc.:** July 8, 1901. **Capital:** 1,000,000 shares; par value 10c; 690,000 shares issued. **Property:** Blue Wing group; 5 unpatented claims, Placer Center dist.; Wallace. **Ore:** Lead-silver. **Remarks:** Annual labor only.



BUNKER HILL & SULLIVAN MINING & CONCENTRATING  
COMPANY'S SOUTH MILL.

**BOBBY ANDERSON GROUP MINING CO.**

**Office:** Kellogg. **Officers:** Theo. Brown, Pres.-Mgr.; J. C. Allen, Sec.; both of Kellogg. **Inc.:** June 16, 1906. **Capital:** 1,500,000 shares; par value \$1; 775,833 shares issued. **Property:** Bobby group; 5 unpatented claims, Yreka dist.; Kellogg. **Development:** 2 tunnels and 1 shaft. **Ore:** Lead-zinc-silver. **Men employed:** Average, 2. **Remarks:** Active throughout the year.

**BOULDER CREEK MINING & MILLING CO., LTD.**

**Office:** 69 W. Washington St., Chicago. **Officers:** J. E. Kinsella, Pres.; J. H. Collins, Sec., both of Chicago. **Inc.:** Dec. 1, 1906. **Capital:** 1,500,000 shares; par value \$1; 833,885 shares issued. **Property:** Central; 1 patented claim, Hunter dist.; Mullan. **Remarks:** Inactive since 1912. Property acquired by the Atlas Mining Co.

**BUCKEYE MINING CO.**

**Office:** 4216 S. Grand Ave., Spokane. **Officers:** S. A. Covert, Pres.; F. W. Julian, Sec.; both of Spokane. **Inc.:** October 14, 1924. **Capital:** 1,500,000 shares; par value 10c; 1,058,000 shares issued. **Property:** Buckeye group; 4 unpatented claims, Hunter dist.; Mullan. **Development:** Principally by one tunnel 1030 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 4. **Remarks:** A small amount of work during the year.

**BULLION MINING CO., LTD.**

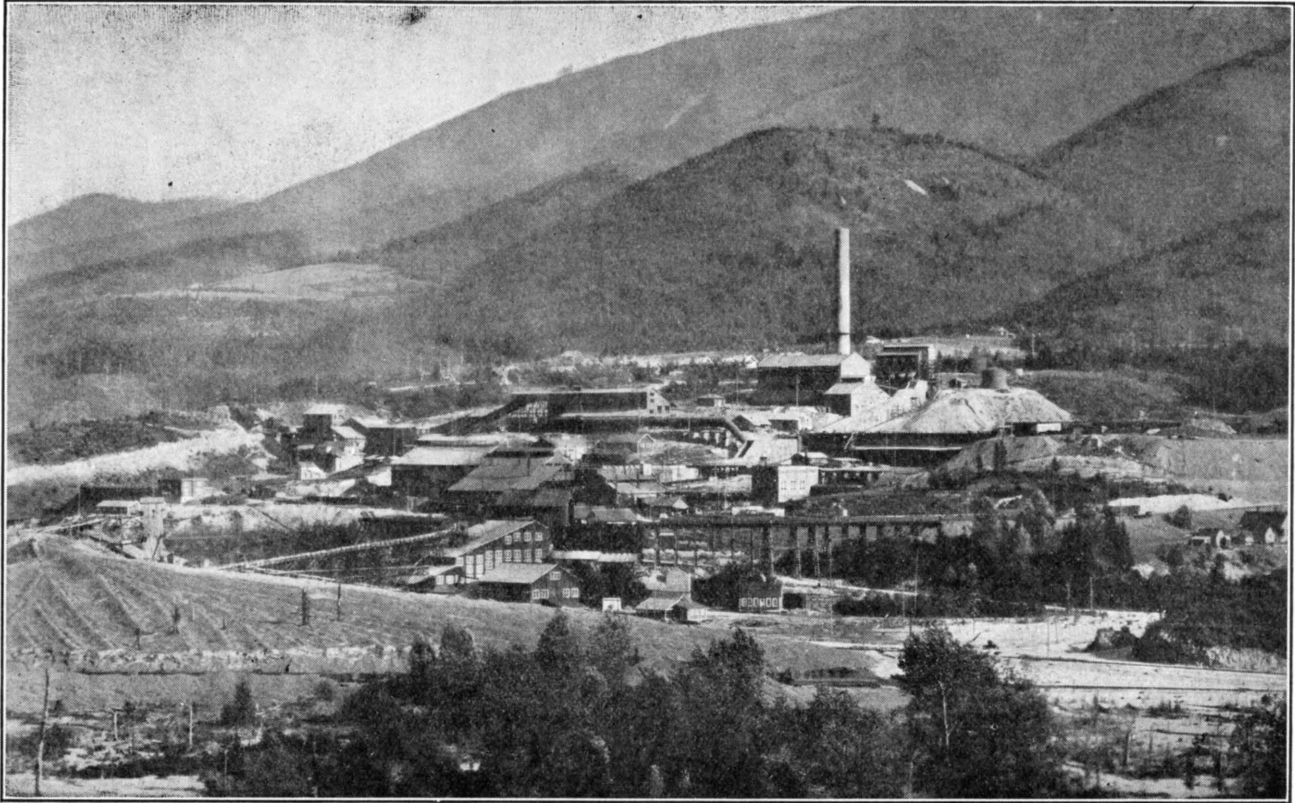
**Office:** Wallace. **Officers:** William Squance, Pres.; James H. Taylor, Sec.-Mgr., both of Wallace. **Inc.:** Dec. 5, 1902. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** Bullion group; 16 patented, 1 unpatented claim, St. Joe dist.; Mullan. **Development:** 3 tunnels; No. 1, 500 ft. long; No. 2, 2000 ft. long; No. 3, 4800 ft. long; 1 vertical shaft 100 ft. deep. **Plant:** Pelton water wheel driving an I-R compressor. **Ore:** Copper-gold. **Men employed:** Average, 4. **Remarks:** Active throughout the year; a large part of the work consisted of diamond drilling; a 250-ft. raise was driven under contract. Stock assessment of 5 mills was levied on May 3, 1926.

**BUNKER CHANCE MINING CO.**

**Office:** Wardner. **Officers:** Nick Petrinovich, Pres.-Mgr.; R. L. Brainard, Sec.; both of Wardner. **Inc.:** May 8, 1922. **Capital:** 1,500,000 shares; par value 25c; 1,300,000 shares issued. **Property:** Bunker Chance group; 1 patented, 6 unpatented claims, Yreka dist.; Wardner. **Development:** By 4 tunnels, the principal one of which is 2200 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 3. **Remarks:** Active development work throughout the year performed with the mining equipment of the East Caledonia Mines Co. A stock assessment of 5 mills was levied on Feb. 18, 1926.

**BUNKER HILL & SULLIVAN MINING & CONCENTRATING CO.**

**Office:** Kellogg. **Officers:** F. W. Bradley, Pres.; J. W. Crosby, Sec., both of 1022 Crocker Bldg., San Francisco, Calif.; Stanly A. Easton, Mgr., Kellogg. **Inc.:** Originally incorporated in Oregon and filed in Idaho, Aug. 20, 1903; changed to a Delaware corporation and filed in Idaho, April 16, 1924. **Capital:** 327,000 shares common; par value \$10; 20,000 shares preferred; par value \$100; all common shares issued. **Property:** Bunker Hill; 323 patented, 29 unpatented claims, Yreka dist.; Kellogg. **Development:** The principal adit is the Kellogg tunnel, which is 18,000 ft. long, in which are the two principal inclined shafts, one of which is known as the White Raise, and the other the main shaft, which is approximately 2585 ft. long, giving a vertical depth of 1800 ft. below the Kellogg tunnel level. In the main shaft are 12 intermediate levels. Total development, approximately 57 miles. **Plant:** MINE: Two electrically driven hoists, two electrically driven I-R compressors, one steam driven Nordberg compressor. Trolley



BUNKER HILL SMELTER

locomotive haulage in Kellogg tunnel; storage battery locomotive haulage in intermediate levels. Complete and modern machine shop, blacksmith shop and change house. **MILL:** Three complete and modern concentrators, including flotation. Daily capacity approximately 2100 tons. **Ore:** Lead-silver. **Men employed:** In mine, mill and smelter, average, 1097

#### BUNKER HILL SMELTER

**Officers:** Frank M. Smith, Director, 1117 Paulsen Bldg., Spokane, Wash.; M. H. Sullivan, Supt., Kellogg. **Remarks:** This smelter was erected during 1917, since which time it has been continually enlarged and improved and is now one of the most modern, complete and up-to-date plants in the United States. The smelting plant covers an area of about 30 acres and consists of complete buildings and equipment for sampling, roasting, sintering, smelting and refining lead, silver and gold ores. In addition to refining lead, silver and gold, antimonial lead and copper sulphate are also produced. The principal supply of ore is from the company's own mine and the mines of the Coeur d'Alene district. The company is doing a general custom business and is drawing ore from all of the northwestern states as well as from British Columbia and Alaska, and is becoming a strong competitor in the smelting business. This smelter and its operations are fully described and illustrated in many of the articles listed under the bibliography of Shoshone County.

#### REMARKS

This company is the largest dividend payer and maintains the largest pay roll of any mine in Idaho; it is also the largest producer of lead-silver ore in the State, if not in the world; and is one of the few companies in the United States that mine, mill, smelt, refine, manufacture and sell lead ore and lead products. The enterprise, particularly the mine and mill, has been established for such a long period and all operations have become so well founded that it has practically expanded into a manufacturing operation. The mine is opened by over 57 miles of underground workings and has a sufficient tonnage of ore reserves to assure many years of continued operations.

During the past few years this organization has been actively engaged in prospecting and developing mining properties throughout the State, and during 1924 acquired the mines owned by the Hall-Interstate Mining Co. and the Lost Pilgrim Mining Co., situated near the head of the Deadwood River in Valley County. The interest shown in developing lead mines outside of the Coeur d'Alene district is having a tremendous influence in attracting attention to the State's undeveloped resources.

The management is progressive and intelligent and an unusual amount of initiative is shown in the conduct of the affairs of the company and civic activities. An excellent spirit of cooperation has been created and maintained in the employees, and everything possible is done to promote their welfare. An example of this attitude was the announcement by the company that it had arranged to give the employees an opportunity to purchase a part of the new issue of preferred stock. Three thousand shares of this stock were set aside for the employees, to be purchased for cash or upon the installment plan. This stock has a par value of \$100 per share, and bears 6 per cent interest. It is also subject to a bonus of 50 cents per share per quarter, making an assured interest rate of 8 per cent, while the holder is an employee of the company, and an additional bonus of as much more per quarter as the common stock received in dividends in excess of \$1.50 per share during the previous quarter. The stock is redeemable at \$110 a share.

This company owns a 50 per cent interest with the Hecla Mining Co. in the Sullivan Mining Co., the owner of the Star mine in the Coeur

d'Alene district; and a 50 per cent interest in the Alaska-Treadwell Gold Mining Co. and the Treadwell Yukon Co., Ltd., both of Alaska. Ore from the latter property was shipped to the smelter at Kellogg.

During the year a large sum was spent in mine and mill improvements and betterments, the principal of which were the completion of the South mill, the alterations at the Sweeny mill, and the extension of the main shaft to the 1900-foot level.

The Tainton electro-chemical experimental plant was modified and improved and many details perfected, which added greatly to the importance of the process.

#### **BURKE MINING CO., LTD.**

**Office:** Wallace. **Officers:** Henry Garber, Pres., Spokane, Wash.; John C. Glahe, Sec., Wallace. **Inc.:** May 31, 1902. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** 12 patented claims, Lelande dist.; Burke. **Development:** 2 tunnels: No. 1, 125 ft. long; No. 2, 1000 ft. long. **Ore:** Lead-silver.

#### **CALEDONIA MINING CO.**

**Office:** Kellogg. **Officers:** Stanly A. Easton, Pres.-Mgr.; Lee Prather, Sec., both of Kellogg. **Inc.:** July 1, 1907. **Capital:** 2,605,000 shares; par value \$1; all shares issued. **Property:** Caledonia; 2 patented claims, Yreka dist.; Kellogg. **Development:** Approximately 19,250 ft. of underground workings. **Plant:** Equipment rented from Bunker Hill & Sullivan M. & C. Co. **Ore:** Silver-lead. **Men employed:** Average, 7. **Remarks:** A small amount of ore was produced during the year.

#### **CALIFORNIA GULCH PLACER MINING CO.**

**Office:** Wallace. **Officers:** A. O. Rickert, Pres.-Mgr., Gem, Idaho; Julia B. Hammond, Sec., Sharon, Wash. **Inc.:** April 26, 1920. **Capital:** 200,000 shares; par value 25c; shares issued, none. **Property:** 8 unpatented placer claims, unorganized dist., on St. Joe River; Superior, Mont.

#### **CALLAHAN ZINC-LEAD CO.**

**Office:** Wallace. **Officers:** D. A. Callahan, Pres.; C. W. Newton, Sec.-Mgr., both of Wallace. **Inc.:** July 18, 1912, as Consolidated Interstate Mining Co.; name changed March 25, 1921. **Capital:** 1,000,000 shares; par value \$10; 716,592 shares issued.

#### **CALLAHAN MINE**

**Property:** Interstate-Callahan group; 81 patented, 2 unpatented claims, Beaver dist.; Interstate. **Development:** Principal development is main transportation tunnel which is 5500 ft. long and a three-compartment vertical shaft 2000 ft. deep. Total development, approximately 10 miles. **Plant:** MINE: Two single drum air driven hoists and one 250 h. p. electrically driven double drum hoist; three large I-R electrically driven compressors; trolley locomotive haulage in main tunnel. Complete and modern blacksmith shop, machine shop, sawmill, mine equipment, camp and company buildings. MILL: 600-ton concentrator, including flotation. **Ore:** Zinc-lead-silver. **Men employed:** Average, 5. **Remarks:** At one time this property was one of the largest zinc mines in the United States. It is completely equipped with modern mine and mill plants, is well financed and intelligently directed. No ore has been mined since October, 1923, since when a large amount of development work has been done.



## GALENA MINE—CALLAHAN ZINC-LEAD CO.

**Property:** Chicago-Boston, Killbuck, Vulcan, Argentine, Wallace, and Silver Range groups; 15 patented, 75 unpatented claims, Lake Gulch, Placer Center dist.; Wallace. **Development:** By 33 tunnels and two vertical shafts. Total development, approximately 30,000 ft. **Plant:** MINE: One 150 h. p. Lidgerwood, one 200 h. p. Coeur d'Alene Hdw. electrically driven hoist; 3 I-R electrically driven compressors, total capacity 1500 cu. ft.; complete equipment and mine camp. **MILL:** 150-ton flotation. **Ore:** Lead-silver. **Men employed:** Average, 80. **Remarks:** In addition to performing a large amount of development work, the company installed a new hoist on the 600-foot level. The new mill was designed, constructed and placed in operation in October; after the mill was started, continuous operation was maintained. The operations at this mine have again placed the company in the ranks of profitable enterprises.

## CANYON CREEK MILLING CO.

**Office:** Wallace. **Officers:** C. R. Nordquist, Pres.-Mgr.; A. D. Gamble, Sec., both of Wallace. **Inc.:** May 28, 1926. **Capital:** 25,000 shares; par value \$1; 13,600 shares issued. **Property:** Lease on tailings in Canyon Creek. **Plant:** 75-ton concentrator, including tables and flotation, gas-driven. **Ore:** Lead-silver. **Men employed:** Average, 7. **Remarks:** Mill was constructed during the year.

## CARBONATE MINING &amp; MILLING CO.

**Office:** Wardner. **Officers:** C. Wiese, Pres.-Mgr., Wardner. **Inc.:** Oct. 7, 1899. **Capital:** 1,000,000 shares; par value 25c; 541,988 shares issued. **Property:** Carbonate group; 3 unpatented claims, Yreka dist.; Beeler. **Development:** Principally by one tunnel 600 ft. long. **Ore:** Lead-zinc-silver. **Remarks:** Small amount of work during the year. A stock assessment of 2 mills was levied on April 3, 1926.

## CARNEY COPPER CO., LTD.

**Office:** Mullan. **Officers:** J. L. Martin, Pres.-Mgr.; C. D. Miller, Sec., both of Mullan. **Inc.:** Nov. 24, 1906. **Capital:** 1,500,000 shares; par value \$1; 1,403,729 shares issued. **Property:** Carney group; 8 unpatented claims, Hunter dist.; Mullan. **Development:** Approximately 5000 ft. of underground workings. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** 300 ft. of tunnel was driven and the following stock assessments were levied during 1926: Jan. 28, 2 mills; Apr. 28, 3½ mills.

## CEDAR CREEK MINING &amp; DEVELOPMENT CO., LTD.

**Office:** Wallace. **Officers:** J. W. Weyer, Pres.; William Becker, Sec., both of Wallace. **Inc.:** June 28, 1905. **Capital:** 1,000,000 shares; par value \$1; 823,746.44 shares issued. **Property:** Cedar Creek group; 5 patented, 24 unpatented claims, Summit district; Murray. **Development:** Three tunnels: No. 1, 587 ft. long; No. 2, 1000 ft. long; No. 3, 2525 ft. long; one inclined shaft 320 ft. long. Total development approximately 8400 ft. **Plant:** 12x12 electrically driven compressor and air driven hoist; complete mining equipment and camp. **Ore:** Lead-silver-zinc. **Men employed:** Average, 5. **Remarks:** The energetic development work which this property has been undergoing for the past few years has made available a large tonnage of ore and the construction of a mill at an early date is anticipated. The company was successful in setting aside the suit which the Forest Service had filed to prevent the issuance of patent to eight of the company's mining claims. A stock assessment of 5 mills was levied on April 27, 1926.

**CENTRAL MINING CO.**

**Office:** Burke. **Officers:** M. V. McNamee, Pres.; F. H. Richardson, Sec., F. C. Richardson, Mgr., all of Burke. **Inc.:** Oct. 28, 1911. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** Central group; 5 patented claims, lying between Hercules and Oom Paul; Lelande dist.; Burke. **Development:** Approximately 1200 ft., principally tunnels. **Ore:** Lead-silver. **Men employed:** Average, 3. **Remarks:** Machinery and equipment of Oom Paul mine used, as well as the Oom Paul tunnel, through which the company is developing its property.

**CHESTER MINING CO., LTD.**

**Office:** Kellogg. **Officers:** P. P. Weber, Pres.; C. W. Simmons, Sec., both of Kellogg. **Inc.:** July 31, 1900. **Capital:** 1,000,000 shares; par value \$1; 923,945 shares issued. **Property:** Chester group; 6 patented claims, Yreka dist.; Kellogg. **Remarks:** Property under option to Chester Consolidated Mining Co.

**CINCINNATI MINING CO.**

**Office:** Wallace. **Officers:** R. E. Seysler, Pres., W. H. Herrick, Sec.-Mgr., both of Wallace. **Inc.:** Jan. 18, 1924. **Capital:** 1,000,000 shares; par value 25c; all shares issued. **Property:** Cincinnati group; 5 unpatented claims, Hunter dist.; Mullan. **Development:** By 2 tunnels: No. 1, 700 ft. long; No. 2, 900 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** During the year arrangements were made with the Gold Hunter Mines, Inc., to extend the latter's principal tunnel under the property owned by this company.

**CLARK-MONTANA REALTY CO.**

**Office:** P. O. Box 1368, Butte, Mont. **Officers:** W. A. Clark, Pres.; J. L. Templeman, Sec.; William C. Siderfin, Mgr., all of Butte, Mont. **Inc.:** May 7, 1921. **Capital:** 35,000 shares; par value \$100; 15,000 shares issued. **Property:** Sunset group; 3 patented claims, Beaver dist.; Wallace. **Development:** By one tunnel 3600 ft. long and a vertical shaft 800 ft. deep with four intermediate levels. Total development approximately 10,000 ft. **Ore:** Lead-silver-zinc. **Remarks:** Under option to Long Wait Mining Co.

**CLEAR GRIT MINING CO., LTD.**

**Office:** Wallace. **Officers:** F. C. Rood, Pres.-Mgr., Longview, Wash.; O. W. Lewis, Sec., Wallace. **Inc.:** May 9, 1906. **Capital:** 1,000,000 shares; par value \$1; 812,895 shares issued. **Property:** 6 unpatented claims, Beaver dist.; Prichard. **Ore:** Lead-silver, gold. **Remarks:** A small amount of work during the year.

**CLIMAX SILVER-LEAD MINING CO.**

**Officers:** James A. Wayne, Pres.; H. V. Edwards, Sec.-Mgr., both of Wallace. **Inc.:** April 22, 1914. **Capital:** 1,500,000 shares; par value 25c; 1,250,000 shares issued. **Property:** Climax group; 2 patented, 2 unpatented claims, Evolution dist.; Wallace. **Development:** By 3 tunnels, the principal one of which is 2800 ft. long. **Plant:** 10x10 electrically driven compressor and complete mining equipment. **Ore:** Lead-silver. **Remarks:** Property under option to the Happy Jack Mining Co.

**COEUR D'ALENE BIG CREEK MINING CO.**

**Officers:** E. S. Crane, Pres., 1004 E. Mission Ave., Spokane; C. F. Uhden, Sec., 916 Alaska Bldg., Seattle. **Inc.:** Jan. 31, 1925. **Capital:** 1,500,000 shares; par value 10c; 1,050,750 shares issued. **Property:** 5 unpatented claims, Yreka dist.; Big Creek. **Development:** Principally by 1 tunnel 973 ft. long. **Plant:** 12x10 C-P compressor, electrically driven, drill sharpener,

complete mining equipment and camp. **Ore:** Lead-silver. **Men employed:** Average, 4. **Remarks:** This company's property adjoins and lies on the opposite side of Big Creek from the Sunshine Mining Co. It was organized, financed, camp constructed, equipment installed, and active work started in 1925. Work was maintained throughout 1926. A stock assessment of 5 mills was levied on Oct. 11, 1926.

#### COEUR D'ALENE CHAMPION MINING CO.

**Office:** E. 1827 Sprague Ave., Spokane, Wash. **Officers:** M. A. Doble. Pres.; James Keith, Sec.-Mgr., both of Spokane, Wash. **Inc.:** Jan. 22, 1907. **Capital:** 1,500,000 shares; par value \$1; 740,455 shares issued. **Property:** Champion group; 17 unpatented claims, near the head of Military Gulch; Hunter and Lelande dists.; Burke. **Development:** Principally by 4 tunnels: No. 1, 160 ft. long; No. 2, 700 ft. long; No. 3, 3300 ft. long; No. 4, 180 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 3. **Remarks:** No. 3 tunnel extended under contract during the year.

#### COEUR D'ALENE CRESCENT MINING CO.

**Office:** 404 Jamieson Bldg., Spokane, Wash. **Officers:** J. B. Millspaugh, Pres.; F. W. Mauser, Sec., both of Spokane, Wash. **Inc.:** Dec. 12, 1913. **Capital:** 1,250,000 shares; par value \$1; 650,000 shares issued. **Property:** Evolution group; 7 unpatented claims, Evolution dist.; Osburn. **Development:** By one tunnel, approximately 500 ft. long and a vertical shaft 300 ft. deep. **Plant:** An old steam driven hoist. **Ore:** Silver-lead. **Remarks:** Annual labor only.

#### COEUR D'ALENE METALS CO.

**Office:** Eagle Blk., Wallace. **Officers:** C. A. Keating, Pres., A. G. Kennedy, Sec., both of Wallace. **Inc.:** Jan. 18, 1926. **Capital:** 10,000 shares; par value \$100; 3 shares issued. **Remarks:** Owns no property.

#### COEUR D'ALENE MINING CO.

**Office:** Ames Bldg., Boston, Mass. **Officers:** Burton E. Eames, Pres.; John P. Wright, Sec., both of Boston, Mass. **Inc.:** July 20, 1900. **Capital:** 125,000 shares; par value \$10; 118,586 shares issued. **Property:** Under lease to Yukon Gold Co., which see.

#### COEUR D'ALENE SILVER-LEAD MINING CO.

**Office:** 1004 E. 8th Ave., Spokane, Wash. **Officers:** Charles J. Heidenreich, Pres., Spokane, Wash. **Inc.:** June 16, 1916; charter forfeited Dec. 1, 1922. **Capital:** 1,200,000 shares; par value \$1; 1,000,000 shares issued. **Property:** 6 patented claims, Hunter district; Mullan. **Development:** By 2 tunnels: No. 1, 1050 ft. long; No. 2, 600 ft. long. **Ore:** Lead-silver. **Remarks:** Idle for 8 years.

#### COEUR D'ALENE SYNDICATE MINING CO.

**Office:** Wallace. **Officers:** Philip Wiseman, Vice-Pres.; P. Kenneth Wiseman, Sec., both of 1206 Pacific Mutual Bldg., Los Angeles, Calif. **Inc.:** Sept. 16, 1922. **Capital:** 900,000 shares; 200,000 preferred, par value \$5; 700,000 common, par value \$1; 85,933 common shares issued. **Property:** Flynn and Senator groups held under lease and bond; 21 patented, 25 unpatented claims, Lelande and Hunter dists.; Gem. **Development:** 11,000 ft. of underground workings. **Plant:** Electrically driven 900 cu. ft. I-R compressor; drill sharpener and complete mining equipment; Hoar shovel. **Ore:** Lead-silver. **Remarks:** A small amount of work was done for a period of two months during the year.

#### COLUMBIA COPPER CO., LTD.

**Office:** Wallace. **Officers:** Joseph Huber, Pres.-Mgr., Mullan; C. W. Betts, Sec., Wallace. **Inc.:** April 24, 1914. **Capital:** 2,500,000 shares; par value \$1; 1,305,385 shares issued. **Property:** Columbia group; 22 unpatented claims, Hunter dist.; Mullan. **Development:** By 11 tunnels, totaling approximately 2500 ft. **Ore:** Lead-silver, copper,

**COLUMBUS MINING CO. OF COEUR D'ALENE, INC.**

**Office:** 340 E. Lehigh Ave., Philadelphia, Pa. **Officers:** E. P. Gallagher, Pres.-Mgr.; C. A. Cavanaugh, Sec., both of Philadelphia. **Inc.:** Oct. 10, 1916. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** Columbus group; 3 patented, 14 unpatented claims, Eagle dist.; Murray.

**COMMERCIAL TRAVELER MINING CO.**

**Office:** Kellogg. **Officers:** H. N. Deas, Pres.; E. E. Jordan, Sec., both of Spokane; A. C. Beal, Mgr., Kellogg. **Inc.:** May 6, 1926. **Capital:** 2,000,000 shares; par value 5c; all shares issued. **Property:** 6 unpatented claims, Yreka dist.; Kellogg. **Ore:** Lead-silver, copper. **Development:** By one tunnel 150 ft. long. **Remarks:** Annual labor only.

**COMSTOCK COPPER MINING CO.**

**Office:** Wallace. **Officers:** Therrett Towles, Pres.; Otto A. Olsson, Sec., both of Wallace; A. B. Ward, Mgr., Delta. **Inc.:** Nov. 23, 1906. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** Fannie group; 5 unpatented claims, Beaver dist.; Prichard. **Ore:** Copper-gold.

**CONSTITUTION MINING & MILLING CO.**

**Office:** 1230 Old National Bank Bldg., Spokane. **Officers:** George Turner, Pres., Columbia Bldg.; B. H. Kizer, Sec.; both of Spokane; Wm. P. White, Mgr., Masonia, Idaho. **Inc.:** Sept. 17, 1902. **Capital:** 1,750,000 shares; par value \$1; 1,741,250 shares issued. **Property:** Constitution group; 12 patented, 28 unpatented claims, Pine Creek, Yreka dist.; Kellogg. **Development:** By 3 tunnels: No. 1, 205 ft. long; No. 2, 2075 ft. long; No. 3, 1978 ft. long; and 1 shaft 200 ft. deep. **Plant:** MINE: One 600 cu. ft. I-R and one 500 cu. ft. C-P compressor, both electrically driven; drill sharpeners; complete mining equipment; storage-battery locomotive haulage. **MILL:** 225-ton concentrator, fine grinding and flotation. **Ore:** Lead-zinc-silver. **Men employed:** Average, 62. **Remarks:** This company is the largest operator on Pine Creek. During the year the mill was enlarged, storage-battery haulage and much new equipment were added. Production was maintained throughout the year. The enlargements and improvements added to the mine and mill plants, and the large tonnage of concentrates produced and marketed, placed this company among the profitable operations.

**COPPER CHIEF MINING CO.**

**Office:** Wallace. **Officers:** D. E. Wickward, Pres.; James H. Taylor, Sec.-Mgr., both of Wallace. **Inc.:** Sept. 25, 1907. **Capital:** 1,000,000 shares; par value \$1; shares issued, unknown. **Property:** Copper Chief group; 7 patented, 4 unpatented claims, St. Joe dist.; Adair. **Ore:** Copper-gold.

**COPPER KING MINING & SMELTING CO.**

**Office:** Mullan. **Officers:** Dave Holzman, Pres., Spokane, Wash.; H. W. Ingalls, Sec.-Mgr., Mullan. **Inc.:** Aug. 13, 1901. **Capital:** 1,500,000 shares; par value \$1; 1,250,000 shares issued. **Property:** Copper King group; 18 unpatented claims, Lelande and Hunter dists.; Mullan. **Development:** Principally by 3 tunnels; No. 1, 200 ft. long; No. 2, 1800 ft. long; No. 3, 4800 ft. long. Total development, approximately 10,000 ft. **Plant:** Electrically driven compressor and complete mining equipment and camp. **Ore:** Lead-silver.

**CUBA MINING CO.**

**Office:** Wallace. **Officers:** W. H. Hanson, Pres.; Herman Marquardt, Sec., both of Wallace. **Inc.:** Nov. 18, 1899. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** Cuba group; 2 patented claims, Placer Center dist.; Wallace. **Development:** 2 tunnels: No. 1, 500 ft. long; No. 2, 1100 ft. long. **Plant:** Electrically driven I-R compressor; complete mining equipment. **Ore:** Lead-silver. **Remarks:** This company is controlled by the Plymouth Lead Mines Co.

**DEEP WONDER MINING CO.**

**Office:** 408 Ziegler Bldg., Spokane, Wash. **Officers:** James H. Taylor, Pres., Wallace; Charles J. Kapps, Sec.-Mgr., Spokane, Wash. **Inc.:** Dec. 13, 1912; charter forfeited Dec. 2, 1916. **Capital:** 2,000,000 shares; par value \$1; 1,700,000 shares issued. **Property:** Deep Wonder group; 12 patented claims, Hunter dist; Mullan. **Remarks:** Idle since 1914.

**DEER CREEK MINING CO.**

**Office:** Wallace. **Officers:** C. E. Diggs, Pres., Coeur d'Alene; P. J. Scoles, Mgr., Wallace. **Inc.:** May 23, 1925. Charter forfeited Nov. 30, 1926. **Capital:** 2,000,000 shares; par value 1c; 1,140,000 shares issued. **Property:** Deer Creek group; 22 unpatented claims, Beaver dist.; Wallace. **Development:** By 3 tunnels: No. 1, 200 ft. long; No. 2, 800 ft. long; No. 3, 200 ft. long; and an inclined shaft 100 ft. deep. **Plant:** Gas-driven Sullivan compressor, complete mining equipment and camp. **Ore:** Lead-silver. **Men employed:** Average, 4. **Remarks:** Active development work throughout the year.

**DELAWARE MINES CORPORATION**

**Office:** 501 City Hall Bldg., Spokane, Wash. **Officers:** Matt Baumgartner, Pres., A. L. Hooper, Sec., F. C. Bailey, Mgr., all of Spokane. **Inc.:** Mar. 10, 1926. **Capital:** 5,000,000 shares; par value 10c; 2,318,279 shares issued. **Property:** Rex and Red Monarch groups; 5 patented, 45 unpatented claims, Placer Center and Beaver districts; Wallace. **Development:** By 4 tunnels, the principal one of which is 4400 ft. long, and a vertical shaft 650 ft. deep. **Remarks:** This company acquired the property owned by the Rex Consolidated Mines Co. in May, after which the compressor and complete mining equipment were installed, active development work started, and part of the mine turned over to lessees, who produced a small tonnage of ore.

**DICKENS CONSOLIDATED MINES CO.**

**Office:** 524 Realty Bldg., Spokane, Wash. **Officers:** W. Y. Clark, Pres.-Mgr.; C. F. Kratzer, Sec., both of Spokane. **Inc.:** Mar. 18, 1925. **Capital:** 2,500,000 shares; par value 10c; 2,154,221 shares issued. **Property:** Dickens group, 18 unpatented claims, Moon Creek, Evolution and Yreka districts; Kellogg. **Development:** Principally by a vertical shaft 400 feet deep. **Plant:** 900 cu. ft. Sullivan compressor, air-driven hoist, complete mining equipment. **Ore:** Lead-zinc-silver. **Men employed:** Average, 7. **Remarks:** During the year the mine plant was completely rehabilitated, new head frame constructed, and the shaft extended 200 ft. in depth, at which point it was reported that a crosscut had encountered an excellent showing of new ore. A stock assessment of 6 mills was levied on Dec. 16, 1926.

**DOBSON PASS MINING CO.**

**Office:** Wallace. **Officers:** J. P. Rogers, Pres.-Mgr.; S. M. Rogers, Sec., both of Wallace. **Inc.:** July 14, 1900. **Capital:** 1,000,000 shares; par value 10c; all shares issued. **Property:** Dobson Pass group; 5 unpatented claims, Placer Center dist.; Wallace. **Remarks:** Annual labor only.

**DOUGLAS LEASING CO.**

**Office:** Masonia. **Officers:** Wm. P. White, Mgr., Masonia. **Inc.:** An association. **Property:** Lease on property owned by Douglas Mining Co.

**Plant:** 12x10 C-P compressor, air-driven hoist, complete mining equipment. **Ore:** Lead-zinc-silver. **Men employed:** Average, 15. **Remarks:** This company acquired its lease, installed the mine plant and equipment, and produced a large tonnage of ore during the year.

#### **DOUGLAS MINING CO., LTD.**

**Office:** Wallace. **Officers:** Frank F. Johnson, Pres., Boise; H. C. Adami, Sec., Wallace. **Inc.:** Oct. 24, 1903. **Capital:** 1,200,000 shares; par value \$1; 853,500 shares issued. **Property:** Douglas group; 10 patented, 2 unpatented claims, Pine Creek, Yreka dist.; Kellogg. **Development:** By 3 tunnels, the principal one of which is 930 ft. long, and an inclined shaft 150 ft. deep. **Ore:** Lead-silver-zinc. **Remarks:** Operated throughout the year by Douglas Leasing Co.

#### **DU BOIS MINING CO.**

**Office:** Kellogg. **Officers:** H. E. Ginter, Pres., Du Bois, Pa.; J. B. Eberhart, Sec.-Treas., Punxsutawney, Pa. **Inc.:** Aug. 9, 1914. **Capital:** 1,000,000 shares; par value \$1; 300,000 shares issued. **Property:** 7 patented, 1 unpatented claim, Yreka dist.; Kellogg. **Development:** Principally by one tunnel 1250 ft. long. **Ore:** Lead-silver. **Remarks:** Idle for many years.

#### **EAST ALAMEDA MINING CO., LTD.**

**Office:** Long Beach, Calif. **Officers:** Frank P. Markwell, Pres., Sanger, Calif.; Everett H. Pattison, Sec., Avalon, Calif. **Inc.:** July 25, 1907. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** East Alameda group; 1 patented, 1 unpatented claim, Lelande dist.; Black Bear. **Ore:** Lead-silver.

#### **EAST CALEDONIA MINES CO.**

**Office:** Wallace. **Officers:** H. J. Rossi, Pres., Franklin Pfirman, Sec., both of Wallace. **Inc.:** Mar. 6, 1915. **Capital:** 1,000,000 shares; par value 25c; 156,730 shares issued. **Property:** East Caledonia group; 2 patented, 5 unpatented claims, Yreka dist.; Kellogg. **Plant:** Electrically driven I-R compressor, electrically driven hoist, complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 5. **Remarks:** A small amount of development work during part of the year. A stock assessment of 1 cent was levied on Feb. 15, 1926.

#### **EAST HECLA MINING CO., LTD.**

**Office:** Wallace. **Officers:** John P. Gray, Pres., Coeur d'Alene; A. H. Featherstone, Sec., Wallace. **Inc.:** Nov. 24, 1906. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** East Hecla group; 4 patented claims, Hunter dist.; Mullan. **Remarks:** Idle for a number of years.

#### **EAST STANDARD MINING CO.**

**Office:** Wallace. **Officers:** August Paulsen, Pres., Spokane; J. E. Gyde, Sec., Wallace. **Inc.:** Aug. 9, 1911. **Capital:** 1,000,000 shares; par value \$1; 709,391 shares issued. **Property:** East Standard group; 4 patented claims, Lelande dist.; Burke. **Development:** By one tunnel 900 ft. long.

#### **EASTERN STAR MINING CO., LTD.**

**Office:** Wallace. **Officers:** Jack Johnston, Pres.-Mgr., Burke; John C. Glahe, Sec., Wallace. **Inc.:** Aug. 29, 1906. **Capital:** 1,000,000 shares; par value \$1; 600,000 shares issued. **Property:** Eastern Star group; 18 unpatented claims, Lelande dist.; Burke. **Development:** 2 tunnels: No. 1, 150 ft. long; No. 2, 800 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only.

#### **ELDORADO MINING & SMELTING CO., LTD.**

**Office:** Wallace. **Officers:** J. C. Waddell, Pres., Rose Lake; G. W. Dougherty, Sec.; Dr. R. B. Lundy, Mgr., both of Wallace. **Inc.:** July 5, 1907. **Capital:** 1,250,000 shares; par value 10c; 1,000,000 shares issued. **Property:** 1 patented, 3 unpatented claims, Yreka dist.; Kellogg. **Development:** By 1 tunnel, approximately 750 ft. long. **Plant:** Gas-driven compressor. **Ore:**

Lead-silver. **Remarks:** A small amount of work during the year. Stock assessments were levied during 1926 as follows: 1 mill, May 22; 1 mill, July 24.

#### ELK MINING CO.

**Office:** Mullan. **Officers:** R. E. Sysler, Pres., Wallace; Clara C. Quinlan, Sec., Radersburg, Mont. **Inc.:** Nov. 3, 1906. **Capital:** 1,000,000 shares; par value \$1; 799,333 shares issued. **Property:** Elk group; 3 patented claims, Hunter dist.; Mullan. **Development:** 3 tunnels: No. 1, 720 ft. long; No. 2, 175 ft. long; No. 3, 180 ft. long **Ore:** Lead-silver. **Remarks:** Idle.

#### ENTERPRISE MINING CO.

**Office:** Kellogg. **Officers:** Fred F. Donaldson, Pres.-Mgr.; W. A. Tuson, Sec., both of Kellogg. **Inc.:** June 4, 1910. **Capital:** 1,000,000 shares; par value \$1; 694,000 shares issued. **Property:** Enterprise group; 6 unpatented claims; Kellogg. **Development:** By 3 tunnels: No. 1, 150 ft. long; No. 2, 180 ft. long; No. 3, 1300 ft. long. **Ore:** Lead-silver. **Remarks:** A small amount of work was done; stock assessments were levied during 1926 as follows: Apr. 12, 2 mills; May 19, 3 mills.

#### EQUTABLE MINING & MILLING CO.

**Office:** 317 Sherman Ave., Coeur d'Alene. **Officers:** C. L. Dittimore, Pres.; H. W. Fintzel, Sec., both of Coeur d'Alene. **Inc.:** April 3, 1916. **Capital:** 1,250,000 shares; par value 1c; 591,650 shares issued. **Property:** 7 unpatented claims; Pine Creek, Yreka dist.; Kellogg. **Development:** Principally by 1 tunnel 770 ft. long. **Ore:** Lead-silver-zinc. **Remarks:** A small amount of work during the year. A stock assessment of 1¼ mills was levied on April 8, 1926.

#### FANNIE GREMM MINING CO.

**Office:** Wallace. **Officers:** P. P. Weber, Pres., Kellogg; Alfred J. Dunn, Sec., Wallace. **Inc.:** Dec. 6, 1900; charter forfeited Dec. 1, 1912. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** 2 patented claims adjoining the Morning mine on the east, Hunter dist.; Mullan. **Development:** Approximately 16,000 ft. of underground workings. **Ore:** Lead-silver. **Remarks:** Idle.

#### FEDERAL MINING & SMELTING CO.

**Office:** 120 Broadway, New York City. **Officers:** F. H. Brownell, Pres.; J. L. Martin, Sec., both of New York City; Frederick Burbidge, Mgr., Wallace. **Inc.:** Sept. 24, 1903. **Capital:** 200,000 shares preferred, 100,000 shares common; par value \$100; 120,000 shares preferred, 60,000 shares common issued.

#### MORNING GROUP

**Property:** 40 patented, 1 unpatented claim, Hunter dist.; Mullan. **Development:** The two principal tunnels are No. 5, 1600 ft. long, and No. 6, the main transportation tunnel, 9500 ft. long. The principal shaft, which is located in No. 6 tunnel, is a vertical, four-compartment shaft, 2450 ft. deep, with 12 intermediate levels. Total development, approximately 35 miles. **Plant:** MINE: Fraser-Chalmers double reel duplex Corliss hoist, size 20x60 inch stroke; one Nordberg single reel geared hoist, driven by 300 h. p. electric motor; one water driven 5200 cu. ft. Ricks compressor; one Laidlaw-Dunn-Gordon 3200 cu. ft. compressor, and two Ingersoll-Rand 2500 cu. ft. compressors; one Prescott pump, 400 gal. capacity, on 2450 level; all electrically driven; complete mining equipment, machine shops, sawmill, company buildings and hotel. **HAULAGE:** 500 volt electric in main tunnel; 250 volt electric and four storage battery locomotives in intermediate levels. **MILL:** 1200-ton concentrator, including flotation. Two ore sorting plants and complete modern change house. **Ore:** Lead-silver-zinc. **Men employed:** Average, 668, exclusive of lessees. **Remarks:** Replacement value of surface plant approximately \$1,200,000. The princi-

pal new improvements, new equipment, and alterations made at this mine during the year were: the replacing of Callow flotation cells, jigs and tables, by O & D flotation machines; the addition of six drag classifiers, two thickeners, one Portland filter, and four Hardinge mills, in the mill; electric trolley haulage in No. 5 tunnel; and two storage battery locomotives in No. 6 tunnel.

#### MACE GROUP

**Property:** 35 patented claims, Lelande dist.; Mace. **Development:** Principal development consists of No. 6 tunnel, 3600 ft. long; No. 2, Campbell, 3000 ft. long; and a three-compartment vertical shaft 2400 ft. deep, with 22 intermediate levels. Total development: Approximately 4 miles. **Plant:** MILL: Two 500-ton concentrators, including flotation. **Ore:** Lead-silver. **Remarks:** Except for the operation of a few lessees, who produced a small tonnage of ore, this property was idle. No. 6 tunnel is now known as No. 7 of the Tamarack & Custer Consolidated Mining Co.

#### BURKE GROUP

**Property:** One millsite, Lelande dist.; Burke. **Plant:** A small hydroelectric power plant.

#### FRISCO GROUP

**Property:** 15 patented claims, Lelande dist.; Gem. **Development:** Principally by four tunnels: No. 1, 1000 ft. long; No. 2, 1500 ft. long; No. 3, 550 ft. long; No. 4, 1000 ft. long; and a vertical four-compartment shaft. 1650 ft. deep. Total development, approximately 6 miles. **Ore:** Lead-zinc-silver. **Remarks:** A small tonnage of ore was produced by lessees during the year.

#### BIG CREEK GROUP

**Property:** 3 patented claims, Evolution dist.; Kellogg. **Development:** By one tunnel, 75 ft. long. **Ore:** Lead-zinc-silver.

#### GOVERNMENT GULCH GROUP

**Property:** Five-sixteenths interest in one patented claim, Yreka dist.; Kellogg. **Development:** Principally by one tunnel, which is 500 ft. long. Total development, approximately 1700 ft. **Ore:** Lead-silver.

#### PAGE GROUP

**Property:** 86 patented claims, Yreka dist.; Kellogg. **Development:** By 9 tunnels, the principal one of which is the Curlew, 650 ft. long, and an inclined shaft 600 ft. long, giving a vertical depth of 450 ft. Total development, approximately 8500 ft. **Plant:** MINE: Air driven hoist; electrically driven I-R compressor; Mancha electric storage battery locomotive haulage; complete mining equipment and camp. MILL: 150-ton flotation concentrator. **Ore:** Lead-zinc-silver. **Men employed:** Average, 65. **Remarks:** In 1924 this property was prospected by the Swedish-American Electrical Prospecting Corporation; in 1925 power lines were extended to the mine, the mine plant was installed, the shaft unwatered, and active development work started. During 1926 the mine was further developed, additional equipment added, the mill constructed, and the enterprise placed on a profitable operating basis.

#### CON. BIEDERMAN GROUP

**Property:** One-half interest in 2 patented claims and one-third interest in 2 patented claims, Yreka dist.; Kellogg. **Development:** By two tunnels: No. 1, 320 ft. long; No. 2, 125 ft. long. **Ore:** Lead-zinc-silver.

#### REMARKS

This company is one of the largest operators in Shoshone County both in property owned and in production, although for the past few years practically all of its production came from the Morning mine. This mine is one of the largest producers of lead-silver and zinc ores in the Coeur d'Alene district and capacity production was maintained throughout the year.



During the year many alterations and additions were made to the mine and mill plants as well as many extensive improvements in the mine, the most important being the sinking of the shaft from the 2850 to the 3050 ft. level, including concrete lining, and the improved methods installed in the mill. Leasing operations in the upper part of the Morning mine greatly added to the company's production, which for the year 1926 was one of the largest ever made. The largest lease in the Morning Mine is the Sheridan Leasing Co., which employs about 125 men.

#### FIDELITY COMPANY, LTD.

**Office:** Wallace. **Officers:** Oscar B. Bergstrom, Pres., 149 Broadway, New York City; Allan G. Kennedy, Sec.-Mgr., Wallace. **Inc.:** Nov. 5, 1915. **Capital:** 2,500,000 shares; par value 20c; 1,675,309 shares issued. **Property:** Monarch group; 7 patented, 29 unpatented claims, Summit dist.; Murray. **Development:** By 3 tunnels, the principal of which is No. 3, or main crosscut tunnel, which is 3120 ft. long; and an inclined shaft 300 ft. deep; total development approximately 13,500 ft. **Plant:** MINE: Ottumwa air driven hoist, 10-drill water driven compressor, complete mining equipment and camp. **MILL:** 150-ton concentrator, jigs and tables. **Ore:** Lead-zinc-silver. **Men employed:** One watchman. **Remarks:** Annual labor only on unpatented claims.

#### FIRST NATIONAL SILVER MINES, LTD.

**Office:** 323 Lindelle Blk., Spokane, Wash. **Officers:** Dan Krehbiel, Pres., Lind, Wash.; Matt Baumgartner, Sec.-Mgr., Spokane, Wash. **Inc.:** April 7, 1920. **Capital:** 3,000,000 shares; par value 5c; 2,600,000 shares issued. **Property:** Liston group; 7 patented, 26 unpatented claims, Big Creek, Evolution dist.; Kellogg. **Development:** By 3 tunnels: No. 1, 1000 ft. long; No. 2, 2500 ft. long; No. 3, 2600 ft. long. **Plant:** Steam driven compressor, and complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 5. **Remarks:** No. 3 tunnel was extended 700 ft. during the year.

#### FLORENCE MINING & MILLING CO., LTD.

**Office:** Kellogg. **Officers:** Charles Dallaire, Pres.; John B. Steffes, Sec., both of Kellogg. **Inc.:** Aug. 15, 1908. **Capital:** 1,000,000 shares; par value \$1; 350,000 shares issued. **Property:** Dallaire group; 10 unpatented claims; Big Creek, Yreka dist.; Kellogg. **Development:** 5 tunnels: No. 1, 100 ft. long; No. 2, 150 ft. long; No. 3, 80 ft. long; No. 4, 180 ft. long; No. 5, 150 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only.

#### FLYNN GROUP MINING CO.

**Office:** Wallace. **Officers:** J. J. Cronin, Pres.; J. F. Whelan, Sec., both of Wallace. **Inc.:** Aug. 21, 1905. **Capital:** 2,500,000 shares; par value 25c; 1,603,000 shares issued. **Property:** Flynn group; 14 patented claims, Lelande dist.; Black Bear. **Development:** Total development, 6600 ft. **Remarks:** Under option to Coeur d'Alene Syndicate Mines Co., who performed a small amount of work for a period of two months during the year.

#### FORMOSA LEAD MINING CO., LTD.

**Office:** 504 Empire State Bldg., Spokane, Wash. **Officers:** Charles Hussey, Sec., Spokane, Wash. **Inc.:** Jan. 19, 1907. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** 3 patented claims, Lelande dist.; Wallace. **Remarks:** Under development by Mutual Mines Development Co., which see.

#### FORT WAYNE MINING CO.

**Office:** 402 Rookery Bldg., Spokane, Wash. **Officers:** H. O. Henneck, Pres.; R. S. Henneck, Sec., both of 1433 W. York Ave., Spokane, Wash.; E. W. Conrad, Mgr., Spokane, Wash. **Inc.:** Sept. 22, 1924. **Capital:** 1,500,000 shares; par value 33 1-3c; 1,111,082 shares issued. **Property:** Eclipse

group; 19 unpatented claims, Evolution dist.; Osburn. **Development:** Principally by one tunnel, which is 1900 ft. long. **Men employed:** Average. 2. **Ore:** Lead-silver. **Remarks:** Active throughout the year.

#### GEM STATE MINING CO.

**Office:** 720 Peyton Bldg., Spokane, Wash. **Officers:** J. M. Porter, Pres.-Mgr.; W. E. Horstkotte, Sec., both of Spokane, Wash. **Inc.:** Aug. 25, 1924. **Capital:** 2,200,000 shares; no par value; all shares issued. **Property:** 8 patented, 10 unpatented claims, Hunter dist.; Wallace. **Development:** By 6 tunnels, the longest of which is No. 6, 1878 ft. in length. **Ore:** Lead-silver-zinc. **Remarks:** An organization which is a consolidation of the properties owned by the Coeur d'Alene Silver-Lead Mining Co., and the Silver Mountain Mining Co. Annual labor only. An assessment of 1 mill was levied on May 10, 1926.

#### GERTIE MINING CO.

**Office:** 205 Exchange Bldg., Spokane, Wash. **Officers:** August Paulsen, Pres.; F. M. Rothrock, Sec., both of Spokane, Wash. **Inc.:** July 23, 1914. **Capital:** 2,500,000 shares; par value 10c; all shares issued. **Property:** Gertie group; 3 patented claims, Lelande dist.; Burke. **Development:** Principally by one tunnel, which is over one mile in length. **Remarks:** This company was absorbed by the Hercules Mining Co. in 1924, new equipment was installed, the tunnel rehabilitated and active work commenced in extending the tunnel into the Maher-Hearn group. This work continued without interruption throughout the year.

#### GIANT MINING & DEVELOPMENT CO.

**Office:** Wallace. **Officers:** Paul Liver, Pres.-Mgr.; E. R. Turk, Sec.; both of Wallace. **Inc.:** Sept. 22, 1899. **Capital:** 1,000,000 shares; par value 10c; 553,221 shares issued. **Property:** 8 unpatented claims, Beaver dist.; Wallace. **Development:** Principally by 1 tunnel, which is 4500 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** The company was active throughout the year. Stock assessments were levied during 1926 as follows: Jan. 11, 2 mills; May 5, 2 mills; Sept. 1, 3 mills.

#### GOLD HUNTER MINES, INC.

**Office:** 516 E. 28th St., Chicago, Ill. **Officers:** Edwin C. Hennessy, Pres.; Thomas F. Keeley, Sec., both of Chicago, Ill.; C. L. Herrick, Mgr., Mullan. **Inc.:** April 24, 1925; formerly Gold Hunter Mining & Smelting Co. **Capital:** 20,000 shares; par value \$10; all shares issued. **Property:** Gold Hunter; 11 patented claims, Hunter dist.; Mullan. **Development:** Principal main haulage tunnel 7600 ft. long from which level is a shaft 1500 ft. deep to the 1200-foot level, in which there is another shaft 200 ft. deep. **Plant:** MINE: Complete and modern; electric hoist; two 3000 cu. ft. electrically driven compressors; pumps; machine and blacksmith shop; electric haulage. MELL: 400-ton concentrator, including flotation. **Ore:** Lead-silver. **Men employed:** Average, 150. **Remarks:** This company is one of the old and substantial producers of the Coeur d'Alene district. Capacity production was maintained, a large amount of development work was done in the mine, and a new shaft was sunk on the vein from the 1200-foot level. Development work performed in the shaft from the 1200-foot level encountered one of the principal showings of new ore disclosed in the Coeur d'Alene district during the year. Capacity production was maintained without interruption.

#### GOLDEN VALLEY MINING CO.

**Office:** 515 Hutton Bldg., Spokane. **Officers:** C. D. Muxen, Pres.; K. H. Blaesser, Sec., both of Spokane. **Inc.:** August 31, 1925. **Capital:** 1,000,000 shares; par value 25c; 503,000 shares issued. **Property:** 1 unpatented placer claim on Heller Creek, unorganized dist., St. Joe River; Superior, Montana. **Ore:** Placer gold.

**GOODENOUGH MINING CO.**

**Office:** Long Beach, Calif. **Officers:** F. P. Markwell, Pres., Sanger, Calif.; J. Fred Markwell, Sec., Long Beach, Calif. **Inc.:** April 6, 1922. **Capital:** 2,500,000 shares; par value 1c; all shares issued. **Property:** Goodenough group; 13 patented, 5 unpatented claims, Lelande and Hunter dist.s.; Gem. **Remarks:** Under development throughout the year by United Metals Co.

**GOVERNMENT GULCH MINING CO.**

**Office:** Wallace. **Officers:** Frederick Burbidge, Pres.-Mgr.; A. W. Hoover, Sec., both of Wallace. **Inc.:** July 15, 1918. **Capital:** 1,500,000 shares; par value 10c; 1,350,567 shares issued. **Property:** Government Gulch group; 6 patented claims, Yreka dist.; Kellogg. **Development:** Principally by one tunnel 500 ft. long and a vertical shaft 100 ft. deep. Total development, approximately 1800 ft. **Ore:** Lead-zinc-silver. **Remarks:** Idle.

**GREAT DUNKER MINING & MILLING CO.**

**Office:** 316 Lindelle Bldg., Spokane, Wash. **Officers:** J. G. Johnson, Pres., Spokane, Washington; Carl A. Pearson, Sec.-Mgr., Star Route, Kellogg. **Inc.:** Jan. 11, 1924. **Capital:** 1,000,000 shares; par value 10c; 311,080 shares issued. **Property:** Great Dunker group; 3 patented, 2 unpatented claims, Yreka dist.; Kellogg. **Development:** By 7 short tunnels. **Ore:** Silver-lead, zinc, antimony. **Men employed:** Average, 2. **Remarks:** A small amount of work during the year.

**GREAT EASTERN MINING CO., LTD.**

**Office:** Wallace. **Officers:** John Carlson, Pres., Gem; John C. Furst, Sec., Wallace. **Inc.:** Oct. 22, 1900. **Capital:** 1,000,000 shares; par value \$1; 750,000 shares issued. **Property:** Great Eastern group; 13 patented claims, Lelande dist.; Gem. **Development:** Total development, approximately 4000 ft.; the principal tunnel is 600 ft. long. **Ore:** Lead-silver-zinc.

**GREAT HELENA MINING & MILLING CO.**

**Office:** Kellogg. **Officers:** Philip J. Lynch, Pres.; Thomas C. Lynch, Sec.-Mgr., both of Kellogg. **Inc.:** Aug. 24, 1922; charter forfeited Dec. 1, 1925. **Capital:** 1,500,000 shares; par value 20c; no shares issued. **Property:** 7 unpatented claims, Yreka dist.; Kellogg. **Development:** By 6 tunnels, the principal one of which is 500 ft. long. **Ore:** Lead-zinc-silver.

**GREEN HILL CLEVELAND MINING CO.**

**Office:** Wallace. **Officers:** F. H. Brownell, Pres., 120 Broadway, New York City; John H. Wourms, Sec.; Frederick Burbidge, Mgr., both of Wallace. **Inc.:** Oct. 7, 1912. **Capital:** 320,000 shares; par value \$1; all shares issued. **Property:** Green Hill group; 3 patented claims, Lelande dist.: Mace. **Ore:** Silver-lead-zinc. **Remarks:** Idle since 1917.

**GUELPH MINING & MILLING CO., LTD.**

**Office:** Kellogg. **Officers:** B. Coyle, Pres., 716 E. Everett St., Portland, Ore. F. Wm. Voightlander, Sec., Kellogg. **Inc.:** March 27, 1906. **Capital:** 1,500,000 shares; par value \$1; 1,382,191 shares issued. **Property:** Guelph group; 5 patented, 4 unpatented claims, Beaver dist.; Wallace. **Development:** Principally by 3 tunnels: No. 1, 150 ft. long; No. 2, 850 ft. long; No. 3, 1600 ft. long; and a vertical shaft 250 ft. deep. **Plant:** 5-drill, 2-stage Sullivan; compressor driven by a 75 h. p. electric motor; air driven hoist; complete mining equipment and camp. **Ore:** Lead-silver. **Remarks:** A stock assessment of 5 mills was levied on June 2, 1926.

**HAMBURG AMERICAN COPPER MINING & MILLING CO.**

**Office:** Kellogg. **Officers:** Wm. Schaefer, Pres.-Mgr.; Mrs. A. Loch, Sec., both of Kellogg. **Inc.:** Nov. 30, 1908. **Capital:** 1,500,000 shares; par value \$1; 1,040,604 shares issued. **Development:** Principally by one tunnel 970 ft. long. **Ore:** Copper. **Remarks:** A stock assessment of one mill was levied on Dec. 28, 1926.

**HAPPY DAY MINING CO., LTD.**

**Office:** Day Bldg., Wallace. **Officers:** Daniel Morgan, Pres., Spokane, Wash.; John E. Ryan, Sec., Wallace. **Inc.:** Sept. 30, 1899. **Capital:** 1,000,000 shares; par value 10c; 791,737 shares issued. **Property:** 8 patented claims, Lelande dist.; Burke. **Development:** Principally by one tunnel 1500 ft. long. **Ore:** Lead-silver.

**HAPPY JACK MINING CO.**

**Office:** Wallace. **Officers:** Len Lussier, Pres., Spokane, Wash.; H. V. Edwards, Sec.-Mgr., Wallace. **Inc.:** June 9, 1924. **Capital:** 1,500,000 shares; par value 10c; 350,000 shares issued. **Property:** 2 patented, 6 unpatented claims, held under lease and option from the Climax Silver-Lead Mng. Co., Placer Center dist.; Wallace. **Development:** By 3 tunnels: No. 1, 40 ft. long; No. 2, 140 ft. long; No. 3, 1600 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 3. **Remarks:** Active development work throughout the year.

**HAYES CO.**

**Office:** Kellogg. **Officers:** Arthur Hayes, Pres.; Martin Nicholson, Sec.; Stanly A. Easton, Mgr., all of Kellogg. **Inc.:** May 11, 1916. **Capital:** 25,000 shares; par value \$1; 12,500 shares issued. **Property:** 1200 acres river bottom land held under lease; Yreka dist.; Kellogg. **Plant:** MILL: 100-ton flotation concentrator; Orange peel dredge and sand pumps. **Ore:** Lead-silver from river tailings. **Men employed:** Average, 12. **Remarks:** Profitably operated throughout the year.

**HECLA MINING CO.**

**Office:** Wallace. **Officers:** James F. McCarthy, Pres.-Mgr.; L. E. Hanley, Sec., both of Wallace. **Inc.:** Sept. 26, 1898. **Capital:** 1,000,000 shares; par value 25c; all shares issued. **Property:** 46 patented, 2 unpatented claims, Lelande dist.; Burke. **Development:** Principally by a four-compartment vertical shaft, which is 2000 ft. deep, and a three-compartment vertical shaft from the 2000-foot level, which is 800 ft. deep. Total development, approximately 8 miles. **Plant:** MINE: One of the most complete and modern in the State. MILL: 700-ton concentrator, including flotation. **Ore:** Lead-silver. **Men employed:** Average, 549.

**REMARKS**

During the year the Hecla ore body was further proven to the 2800-ft. level, 800 ft. below the present working level. At this point it was as strong and persistent as at any of the upper levels. The ore in the Star mine was proven for a distance of 1650 ft. in the Star crosscut, which is 2800 ft. below the Star tunnel. These new ore exposures have assured the Hecla Co. many years of uninterrupted operations and dividend payments, as well as being instrumental in causing a big increase in the value of Hecla stock.

The par value of this stock is 25 cents per share and during the early days of the mine sold as low as 3 cents per share. After ore was first struck, the stock had a marked increase in value, although fluctuating until 1919. Since then it has been continually on the increase. On Nov. 25, 1919, the stock was selling at \$3.15 per share; during 1924 it was rapidly rising; and by March, 1926, had reached a high of \$19.25, a remarkable record for the mine and for a stock of low value.

On July 13, 1923, the entire surface plant was destroyed by the disastrous fire which wiped out the town of Burke. Before the ruins had quit smouldering, plans for reconstruction were under way, and were completed before the wreckage was cleared up. Rebuilding rapidly progressed, and on Jan. 27, 1924, full time operations and production were resumed. During the time from the date of the fire to the resumption of operations, the usual dividends were paid without interruption. This was made pos-

sible by the \$1,000,000 "Use and Occupancy" insurance with which the company had protected its operations, and which reflected greatly to the credit and foresight of the management.

The destroyed buildings were replaced with modern fireproof buildings constructed entirely of steel and concrete; a new all-steel headframe was installed; and the yards were rearranged. All construction was completed during 1925. The new plant was designed to handle the ore from the Star mine, as well as that from the Hecla, and as completed is one of the most modern in the State. This plant was further enlarged and improved during 1926.

The Hecla management are progressive and intelligent; they have engendered an excellent spirit of cooperation among the employees and are giving the utmost consideration to safety and welfare provisions. Under such conditions, and with the life of the mine assured for many years, the outlook for the company is exceedingly favorable.

This company expanded its operations during the year by financing the development of four properties in south-central Idaho. See Blaine and Custer counties.

#### HELVETIA MINING CO.

**Office:** Wallace. **Officers:** Paul Liver, Pres.; Thomas Nicholson, Sec.-Mgr., both of Wallace. **Inc.:** March 8, 1907. **Capital:** 1,000,000 shares; par value \$1; 619,855 shares issued. **Property:** Helvetia group; 5 unpatented claims, Placer Center dist.; Wallace. **Development:** By one tunnel 290 ft. long. **Ore:** Lead-silver.

#### HERCULES MINING CO.

**Office:** Burke. **Officers:** Harry L. Day, Pres.-Mgr.; A. P. Ramstedt, Sec., both of Wallace. **Inc.:** Dec. 31, 1923. **Capital:** 500,000 shares; par value \$10; 430,180 shares issued. **Property:** Hercules group, 38 patented claims; Maher-Hearn group, 29 patented, 8 unpatented claims; Columbia Lode, 1 patented claim; Lelande and Placer Center dists.; Burke. **Development:** Principally by 5 tunnels: No. 1, 280 ft. long; No. 2, 3350 ft. long; No. 3, 3900 ft. long; No. 4, 5900 ft. long; No. 5, 8550 ft. long; and a four-compartment vertical shaft 1300 ft. deep with 8 intermediate levels. Total development, approximately 18 miles. **Plant:** MINE: Special first motion, double reel, Nordberg electric hoist, direct connected to 700 h. p. motor. One 22x16 I-R and one 29x21 I-R compressor, both electrically driven. Electric trolley locomotive in main transportation tunnel and storage battery locomotives in intermediate levels. Complete and modern mine equipment and shops. **MILL:** 600-ton concentrator, including flotation. **Ore:** Lead-silver. **Men employed:** Average, 90.

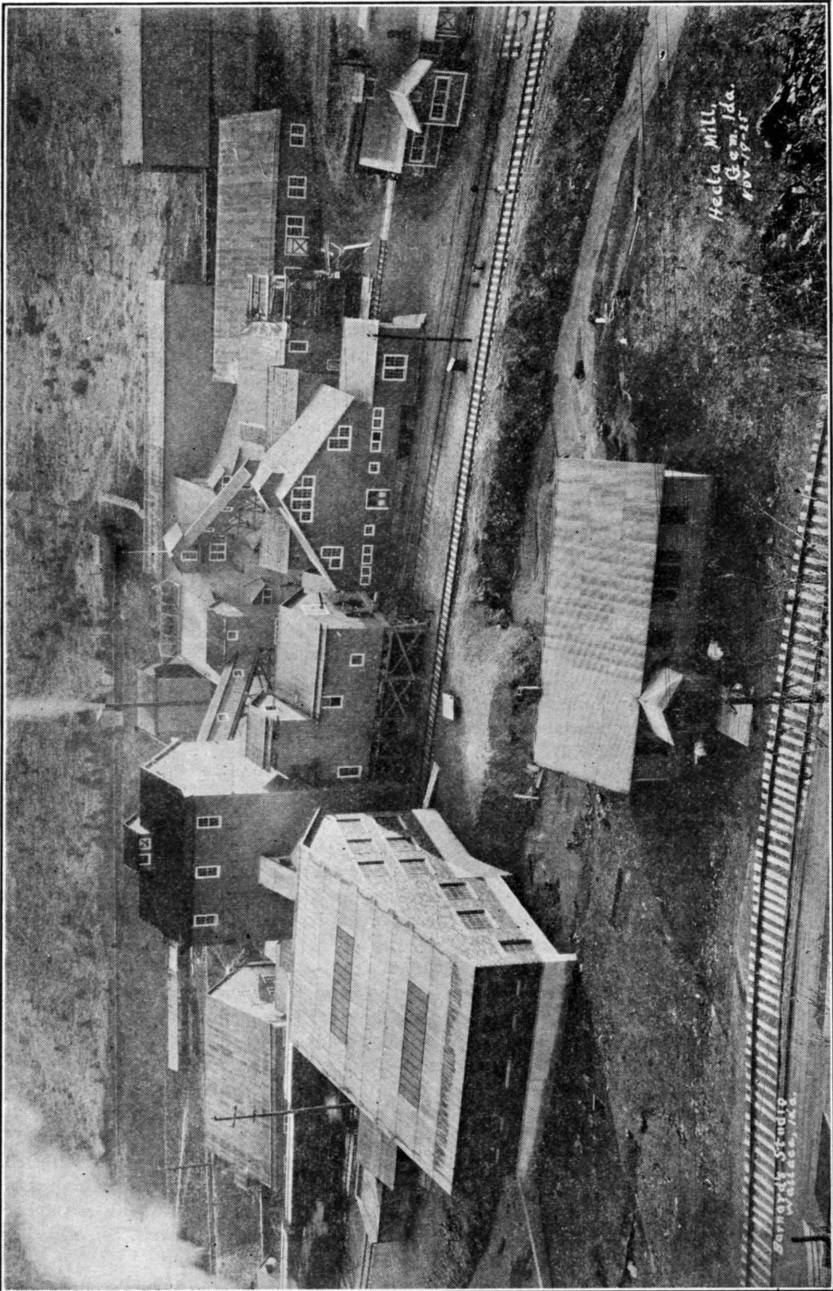
#### REMARKS

Because of the exhaustion of the great ore bodies in the Hercules mine, the company suspended operations at this mine in April, 1925, thus adding one more famous producer to the fate that awaits all mines.

After years of effort and self-denial by the owners in developing the mine, the ore was encountered in 1900. The magnitude of the ore body and grade of the ore electrified the mining world, and shortly thereafter the mine was on a self-sustaining basis. The first dividend was paid in 1901, and excepting periods of idleness caused by external conditions, dividends have been paid without interruption up to the date of closing.

Until Dec. 31, 1923, the mine had always been operated as a partnership, which comprised practically all of the original owners. On this date the company was incorporated as a Delaware corporation.

Because the ownership was closely held, with the majority interest in the Day family, no reports were ever published; consequently the exact production and amount of dividends paid will probably never be known.



HECLA MINING COMPANY'S MILL

However, estimates place the production record at more than \$75,000,000 and dividends paid at over \$18,000,000—a most remarkable record, and one that fully justified the name given to the mine in its early days, “The Bonanza Mine of the Coeur d’Alenes.”

The passing of the Hercules mine does not mean the end of the Hercules Mining Co. Before the mine was closed, the company had commenced to expand, and by the time operations ceased, work had advanced sufficiently at other mines that were owned or controlled by this company to absorb the larger part of the payroll that had been maintained at the Hercules.

At the close of the year the company was actively engaged in an extensive developing campaign on other properties which it owns or controls. As these were acquired with the good judgment which has always been displayed throughout the life of the parent mine, it is reasonable to assume that this company will again take its place among the important dividend payers of the Coeur d’Alene district.

The principal mines and companies which this company owns or controls, and which were actively developed throughout the year, are: Maher-Hearn; Western Union Mng. Co.; Strattons Mines Co.; Success Mng. Co., Ltd., Ambergris Mines Co.; C. & R. Mng. Co.; Honolulu Mng. Co.; Humming Bird Mng. Co.; Roanoke Mining Co., Ltd.; Stanley Mining Co.; and Happy Day Mng. Co.; of which the Hercules, Western Union, Stratton, Success, and Ambergris are producing mines.

#### **HIDDEN TREASURE MINING CO.**

**Office:** Wallace. **Officers:** Frederick Burbidge, Pres.-Mgr.; A. W. Hoover, Sec., both of Wallace. **Inc.:** May 18, 1908. **Capital:** 500,000 shares; par value \$10; all shares issued. **Property:** Hidden Treasure group; 4 patented claims, Lelande dist.; Burke. **Development:** Principally by one tunnel 2540 ft. long. **Ore:** Silver-lead-zinc.

#### **HIGH CROPPING SILVER-LEAD MINING CO.**

**Office:** Burke. **Officers:** Hugh Gibson, Pres.-Mgr.; J. F. Hurtubise, Sec., both of Burke. **Inc.:** Sept. 18, 1924. **Capital:** 1,500,000 shares; par value 25c; 643,000 shares issued. **Property:** High Cropping group; 7 unpatented claims, Lelande dist.; Burke. **Development:** 1 tunnel, 230 ft. long. **Ore:** Lead-silver. **Remarks:** A small amount of development work. A stock assessment of one mill was levied on May 7, 1926.

#### **HIGHLAND-SURPRISE CONSOLIDATED MINING CO.**

**Office:** Kellogg. **Officers:** Dr. Charles R. Mowery, Pres., Wallace; George D. Lamielle, Sec., Kellogg; A. L. Dempster, Mgr., Masonia. **Inc.:** Aug. 27, 1912. **Capital:** 1,200,000 shares; par value \$1; 1,191,493 shares issued. **Property:** 3 patented, 30 unpatented claims; Pine Creek, Yreka dist.; Kellogg. **Development:** Approximately 2 miles of underground workings. **Plant:** MINE: A 7-drill I-R compressor, electrically driven; complete mining equipment and camp. MILL: 150-ton concentrator. **Ore:** Lead-zinc-silver. **Men employed:** Average, 52. **Remarks:** During the year, the mill was completely overhauled and remodeled, new equipment added, and its capacity increased to 150 tons per day. A 200-ft. shaft was sunk from the principal level, and capacity production maintained. One of the principal new ore discoveries in the district was that encountered by the shaft from the 200-ft. level. The zinc concentrates produced are shipped to Belgium for treatment. This company is one of the principal profitable enterprises on Pine Creek.

#### **HILARITY LEAD-SILVER MINING CO.**

**Office:** Mullan. **Officers:** M. P. Dalton, Pres.; H. W. Ingalls, Sec.-Mgr., both of Mullan. **Inc.:** April 24, 1916, as Pine Creek Mining & Milling Co.; name changed May 7, 1923. **Capital:** 2,000,000 shares; par value 10c; 1-

850,000 shares issued. **Property:** 11 unpatented claims, Pine Creek, Yreka dist.; Kellogg. **Development:** Principally by one tunnel 500 ft. long, and a 200-ft. vertical shaft. **Ore:** Lead-zinc-silver. **Men employed:** Average, 11. **Remarks:** During the year the 200-ft. vertical shaft was sunk, from which a small amount of development work was done. This work was successful in encountering an excellent showing of new ore, from which a small tonnage was produced and marketed. Stock assessments were levied during 1926 as follows: Mar. 27, 5 mills; July 17, 5 mills.

#### HONOLULU MINING CO., LTD.

**Office:** Wallace. **Officers:** J. W. Tabor, Pres., Wallace; John P. Mahoney, Sec., Spokane; Geo. W. Tabor, Asst. Sec., Wallace. **Inc.:** April 4, 1906. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** 4 unpatented claims adjoining Hercules mine, Lelande dist.; Burke. **Development:** Principally by a 2400-ft. crosscut from the No. 4 Hercules tunnel. **Ore:** Lead-silver. **Remarks:** Actively prospected throughout the year by the Hercules Mining Co.

#### HORNSILVER MINING & MILLING CO.

**Office:** Wallace. **Officers:** Ben L. Collins, Pres., 312 Old National Bank Bldg., Spokane, Wash.; Russell F. Collins, Sec.-Mgr., Wallace. **Inc.:** May 31, 1901. **Capital:** 1,000,000 shares; par value 10c; 882,100 shares issued. **Property:** 9 unpatented claims, Placer Center dist., Wallace. **Development:** 1 tunnel, 1500 ft. long. **Ore:** Lead-silver-gold.

#### HORSESHOE MINING CO.

**Office:** Mullan. **Officers:** Jas. B. Scoles, Pres.-Mgr.; N. S. Jacobs, Sec., both of Mullan. **Inc.:** July 16, 1908. **Capital:** 1,500,000 shares; par value \$1; 898,000 shares issued. **Property:** Horseshoe group; 9 unpatented claims, Hunter dist.; Mullan. **Development:** 2 tunnels: No. 1, 400 ft. long; No. 2, 2500 ft. long. **Ore:** Lead-silver. **Remarks:** Tunnel controlled by Atlas Mining Co.

#### HUMBOLT MINING CO.

**Office:** Wallace. **Officers:** James Dunne, Pres.-Mgr., Burke; James Moon-ey, Sec., Wallace. **Inc.:** An association. **Capital:** Sale of units. **Property:** 8 unpatented claims, Lelande dist.; Burke. **Development:** By 2 tunnels: No. 1, 65 ft. long; No. 2, 50 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 3. **Remarks:** A small amount of work during the year.

#### HUMMING BIRD MINING CO.

**Office:** Burke. **Officers:** Harry L. Day, Pres.-Mgr., Wallace; W. H. Hoover, Sec., Burke. **Inc.:** June 27, 1898. **Capital:** 1,500,000 shares; par value \$1; 1,417,075 shares issued. **Property:** Humming Bird group; 18 patented claims, Lelande dist.; Burke. **Development:** Total development, approximately 12,400 ft. of tunnels, the principal of which are No. 4, 1253 ft. long, and No. 5, 12,086 ft. long. **Plant:** All equipment used in operation furnished by Hercules Mining Co. **Ore:** Lead-silver. **Men employed:** Average, 23. **Remarks:** Active development work maintained throughout the year.

#### HYPOTHEEK MINING & MILLING CO.

**Office:** Wallace. **Officers:** C. D. Brock, Pres.; Otto A. Olsson, Sec.-Mgr., both of Wallace. **Inc.:** Feb. 13, 1901. **Capital:** 2,000,000 shares; par value 10c; all shares issued. **Property:** 760 acres of patented land Yreka dist.; Kellogg. **Development:** By 2 tunnels: No. 1, 700 ft. long; No. 2, 1500 ft. long; and a vertical shaft 1100 ft. deep. Total development approximately 10,000 ft. **Plant:** MINE: Double drum electric hoist; No. 10 I-R compressor, electrically driven; machine shop; sawmill; and complete mining equipment; 12 buildings. MILL: 200-ton concentrator. **Ore:** Lead-silver. **Men employed:** Average, 35. **Remarks:** During the year the



shaft was unwatered to the 1100-foot level and a large amount of drifting performed on the vein on the 700 and 900-foot levels; the new work opened up an important amount of ore on both levels. The mill was rehabilitated and production maintained throughout the year. A stock assessment of one cent was levied on July 17, 1926.

#### IDAHO AMERICAN MINING & MILLING CO.

**Office:** Kellogg. **Officers:** Lloyd McDougall, Pres.; A. E. Cowles, Sec., both of Kellogg. **Inc.:** Feb. 7, 1923. **Capital:** 100,000 shares; increased Mar. 30, 1926, to 2,000,000 shares; par value 25c; shares issued, unknown. **Property:** O. K. group; 7 patented, 1 unpatented claim, Yreka dist.; Kellogg. **Ore:** Lead-zinc-silver.

#### IDAHO CARBONATE HILL CONSOLIDATED MINING CO.

**Office:** 303 Hyde Block, Spokane, Wash. **Officers:** W. D. Lord, Pres., John E. Hoppe, Sec., both of Spokane. **Inc.:** Sept. 4, 1917. **Capital:** 5,000,000 shares; par value 25c; 3,606,408 shares issued. **Property:** 14 patented claims, Hunter dist.; Mullan. **Remarks:** Under option to Atlas Mining Co.

#### IDAHO CHIEF MINING CO.

**Office:** 614 Hyde Block, Spokane. **Officers:** James W. Williams, Pres.-Mgr.; J. A. Cartier van Dissel, Sec., both of Spokane. **Inc.:** April 25, 1925. **Capital:** 10,000 shares; par value \$100; shares issued, unknown. **Property:** 7 patented claims held under lease and option, Lelande dist.; Burke. **Development:** By 2 tunnels: No. 1, 480 ft. long; No. 2, 240 ft. long. **Plant:** Electrically driven 3-drill compressor; complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 3. **Remarks:** A small amount of work.

#### IDAHO COPPER MINING CO., LTD.

**Office:** Wallace. **Officers:** W. H. Herrick, Pres.; A. H. Featherstone, Sec., both of Wallace. **Inc.:** Aug. 24, 1906. **Capital:** 1,250,000 shares; par value \$1; all shares issued. **Property:** 3 patented claims, Hunter dist.; Mullan. **Ore:** Copper. **Remarks:** Idle for a number of years.

#### IDAHO-LEADVILLE MINES CO.

**Office:** 823 First Ave., Spokane, Wash. **Officers:** Thomas Fahey, Pres.; E. P. Ryan, Sec., both of Spokane, Wash. **Inc.:** April 1, 1914. **Capital:** 1,000,000 shares; par value 10c; 548,020 shares issued. **Property:** 12 unpatented claims, Evolution dist.; Osburn. **Development:** By 2 tunnels: No. 1, 900 ft. long; No. 2, 145 ft. long. **Ore:** Lead-silver. **Remarks:** Active during the summer months.

#### IDAHO & LOS ANGELES MINING & MILLING CO.

**Office:** Wallace. **Officers:** Thomas McCabe, Pres.; Alfred J. Dunn, Sec.-Mgr., both of Wallace. **Inc.:** June 6, 1904; charter forfeited Dec. 2, 1916. **Capital:** 1,000,000 shares; par value \$1; 820,000 shares issued. **Property:** 16 patented claims, Beaver dist.; Wallace. **Development:** By 3 tunnels: No. 1, 150 ft. long; No. 2, 1700 ft. long; No. 3, 800 ft. long. **Ore:** Lead-zinc-silver. **Remarks:** Idle.

#### IDAHO-MONTANA AND ORLANDO CONSOLIDATED MINING CO.

**Office:** Wallace. **Officers:** John A. Swan, Pres.-Mgr., Burke; Hazel Swan, Sec., Detroit, Mich. **Inc.:** July 14, 1925. **Capital:** 1,500,000 shares; par value 10c; 1,000,002 shares issued. **Property:** 7 unpatented claims, Lelande dist.; Burke. **Development:** By 3 tunnels: No. 1, 300 ft. long; No. 2, 800 ft. long; No. 3, 1000 ft. long. **Ore:** Lead-silver.

#### IDAHO STAR MINING CO.

**Office:** 212 Eagle Bldg., Spokane, Wash. **Officers:** Hans Peterson, Pres.; R. T. Lawrence, Sec.-Mgr., both of Spokane, Wash. **Inc.:** Oct. 8, 1924. **Capital:** 1,500,000 shares; par value 10c; all shares issued. **Property:** 15

unpatented claims, St. Joe dist.; Adair. **Development:** By 1 tunnel 325 ft. long. **Plant:** Water-driven compressor. **Ore:** Lead-silver. **Remarks:** Small amount of work during the summer months.

#### **IDORA MINING CO., LTD.**

**Office:** Jamieson Blk., Spokane, Wash. **Officers:** James C. Broad, Pres.; C. E. Mallette, Sec.-Mgr., both of Spokane, Wash. **Inc.:** April 23, 1915. **Capital:** 1,500,000 shares; par value 10c; 654,000 shares issued. **Property:** Idora group; 1 patented, 8 unpatented claims, Beaver dist.; Carbonite. **Plant:** MINE: 1 electrically driven compressor. MILL: 100-ton concentrator. **Ore:** Lead-zinc-silver. **Remarks:** Idle since 1917. Annual labor performed on 8 claims.

#### **IMPERIAL MINING CO.**

**Office:** Wallace. **Officers:** William Becker, Pres.; Homer G. Brown, Sec.-Mgr., both of Wallace. **Inc.:** Nov. 21, 1906. **Capital:** 1,500,000 shares; par value \$1; 1,174,931 shares issued. **Property:** Imperial group; 8 patented claims, Lelande dist.; Burke. **Development:** Principally by 2 tunnels: No. 2, 1000 ft. long; No. 3, 4000 ft. long. Total development, approximately 10,000 ft. **Plant:** Electrically driven 4-drill I-R compressor; complete mining equipment and camp. **Ore:** Lead-silver. **Remarks:** Idle throughout the year.

#### **INDEPENDENCE LEAD MINES, LTD.**

**Office:** Wallace. **Officers:** H. B. Kingsbury, Pres.-Mgr., Mullan; Herman Marquardt, Sec., Wallace. **Inc.:** Nov. 30, 1914, as New Independent Mining Co.; name changed Aug. 23, 1915. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** Gettysburg group; 10 patented claims, Hunter dist.; Mullan. **Development:** Principally by 5 tunnels: No. 1, 100 ft. long; No. 2, 300 ft. long; No. 3, 1000 ft. long; No. 4, 4000 ft. long; Independence 300 ft. long; and a vertical raise 313 ft. long connecting No. 3 and No. 4 tunnels. **Plant:** Complete mining equipment. Power furnished by American Commander M. & M. Co. **Ore:** Lead-silver. **Men employed:** Average, 7. **Remarks:** Development work progressed without interruption throughout the year. This work consisted principally of extending No. 4 tunnel, which is the lowest level in the mine. A stock assessment of 2 cents was levied on May 20, 1926.

#### **INDEPENDENT COPPER MINING & MILLING CO., LTD.**

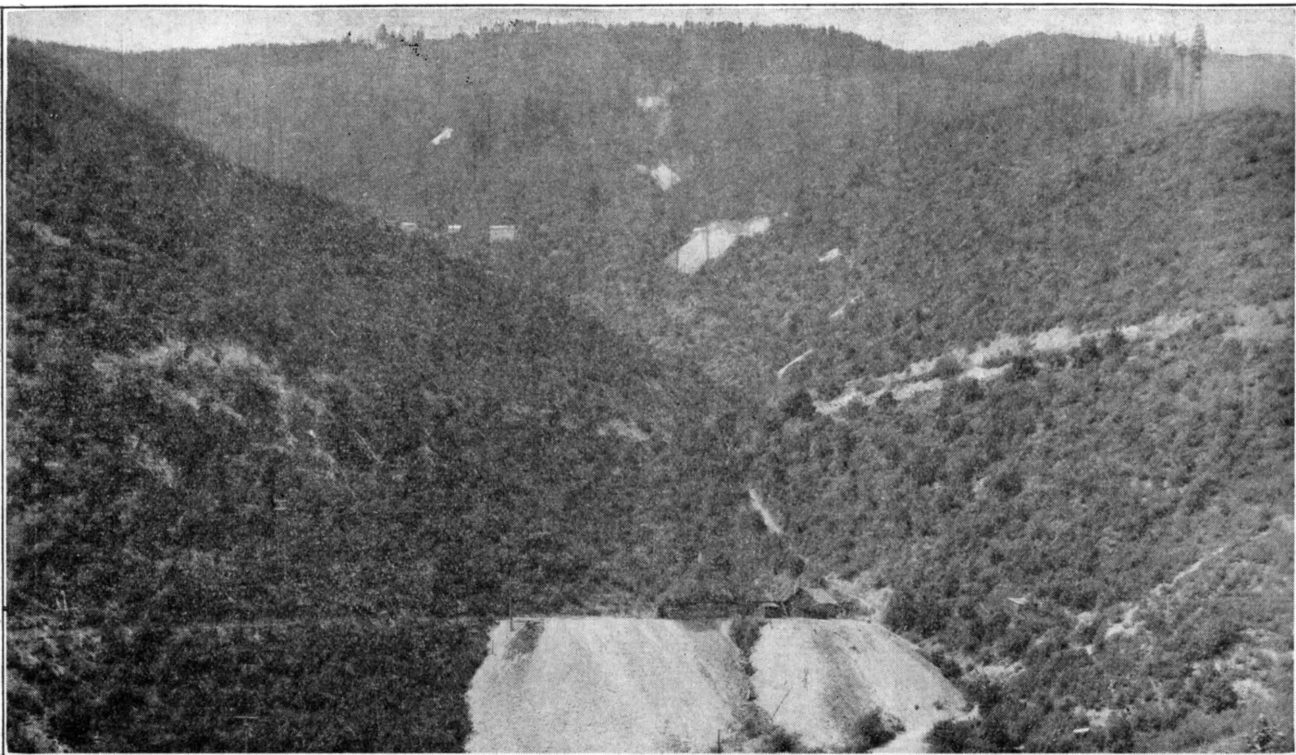
**Office:** Wallace. **Officers:** John H. Nordquist, Pres.-Mgr.; A. G. Kennedy, Sec., both of Wallace. **Inc.:** March 4, 1905. **Capital:** 1,250,000 shares; par value \$1; 935,619 shares issued. **Property:** 3 patented, 1 unpatented claim, Hunter dist.; Mullan. **Development:** Principally by 3 tunnels: No. 2, 2000 ft. long; No. 3, 3700 ft. long; and a vertical shaft 200 ft. deep. **Plant:** 300 cu. ft. water driven compressor; complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 3. **Remarks:** This company actively prospected its ground for a period of three months through the lower tunnel of the National Copper Mining Co.

#### **INLAND EMPIRE MINING & MILLING CO.**

**Office:** 310 Ziegler Bldg., Spokane, Wash. **Officers:** A. C. Schirmer, Pres.-Mgr., Hibbing, Minn.; John H. Roche, Sec., Spokane, Wash. **Inc.:** June 18 1910. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** Never Sweat; one patented claim, Lelande dist.; Burke. **Development:** By 2 tunnels: No. 1, 350 ft. long; No. 2, 400 ft. long; and an inclined shaft 300 ft. deep. **Plant:** Electrically driven compressor and complete mining equipment. **Ore:** Lead-silver.

#### **INTERNATIONAL MINES, LTD.**

**Office:** Wallace. **Officers:** James White, Pres.; A. H. Featherstone, Sec., both of Wallace. **Inc.:** July 2, 1903. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** 13 patented claims, Lelande dist.; Burke. **Ore:** Lead-silver. **Remarks:** Idle for 9 years.



NO. 4 TUNNEL, INDEPENDENCE LEAD MINES, LTD., FANNIE GREMM  
AND MORNING MINES IN BACKGROUND

**INTERNATIONAL MINING CO.**

**Office:** Kellogg. **Officers:** Charles May, Pres., Minneapolis, Minn.; Fred May, Mgr., Kellogg. **Inc.:** July 8, 1912. **Capital:** 1,000,000 shares; par value \$1; 727,468 shares issued. **Property:** International group; 10 unpatented claims; Pine Creek, Yreka district; Kellogg. **Development:** Principally by 2 tunnels: No. 1, 150 ft. long; No. 2, 1500 ft. long. **Plant:** Gas driven 6x6 compressor; complete mining equipment and small camp. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**IONE MINING CO.**

**Office:** Wallace. **Officers:** H. O. Solum, Pres.; Le Roy Massey, Sec.; O. M. Nordquist, Mgr., all of Wallace. **Inc.:** Dec. 19, 1922. **Capital:** 1,500,000 shares; par value 10c; 300,000 shares issued. **Property:** Ione group; 4 unpatented claims, held under lease and option; Summit dist.; Murray. **Development:** By 2 tunnels: No. 1, 360 ft. long; No. 2, 1386 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only. A stock assessment of 2 mills was levied on July 16, 1926.

**IRON KING MINING CO., LTD.**

**Office:** Wallace. **Officers:** Herman J. Rossi, Pres.; Otto A. Olsson, Sec., both of Wallace. **Inc.:** Jan. 8, 1904. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** Iron King group; 4 unpatented claims, Evolution dist.; Wallace. **Development:** Principally by 2 tunnels: No. 1, 2000 ft. long; No. 2, 150 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only

**IRON SPAR COPPER MINING CO.**

**Office:** Wallace. **Officers:** Wesley Everett, Pres.; G. W. Dougherty, Sec.; A. L. Honeker, Mgr., all of Wallace. **Inc.:** May 18, 1904. **Capital:** 1,000,000 shares; par value \$1; 586,258 shares issued. **Property:** 4 unpatented claims, Hunter dist.; Mullan. **Development:** One tunnel 800 ft. long. **Ore:** Copper-gold-lead-silver. **Remarks:** Annual labor only.

**IVANHOE MINING CO., LTD.**

**Office:** Mullan. **Officers:** J. A. Bean, Pres., Sumdor, Ariz.; C. D. Miller, Sec., Mullan. **Inc.:** Oct. 18, 1906. **Capital:** 1,500,000 shares; par value \$1; 1,494,950 shares issued. **Property:** 2 patented claims, Hunter dist.; Mullan. **Ore:** Lead-silver. **Remarks:** Idle for 8 years.

**JACK WAITE LEASING CO.**

**Office:** Kellogg. **Officers:** W. W. Papesh, Pres.; W. O. Straight, Sec., both of Kellogg. **Inc.:** Jan. 14, 1926. **Capital:** 25,000 shares; par value \$1; 10,000 shares issued. **Property:** Lease on property of the Jack Waite Mining Co., Ltd. **Remarks:** In addition to rehabilitating the mine, this company performed a large amount of development work, constructed 3½ miles of high-tension power line, performed a large amount of road work, and built a new concentrating mill of 300 tons capacity. In the closing months of the year a small tonnage was produced and marketed.

**JACK WAITE MINING CO., LTD.**

**Office:** Kellogg. **Officers:** W. O. Straight, Sec., Kellogg. **Inc.:** Nov. 22, 1909. **Capital:** 1,500,000 shares; par value \$1; 1,400,000 shares issued. **Property:** Jack Waite; 3 patented, 5 unpatented claims, Eagle dist.; Murray. **Development:** Principally by 2 tunnels: No. 1, 1400 ft. long; No. 2, 2400 ft. long. Total development approximately 4800 ft. **Plant:** Steam driven compressor; complete mining equipment and camp. **Ore:** Lead-silver. **Remarks:** During the closing months of 1925, W. W. Papesh and Mike Savage of Kellogg purchased control of the company; they then organized the Jack Waite Leasing Co., which immediately commenced rehabilitation of the mine.

**JIM BLAINE SILVER SYNDICATE, LTD.**

**Office:** 323 Lindelle Blk., Spokane, Wash. **Officers:** Dan Krehbiel, Pres., Lind, Wash.; Matt Baumgartner, Sec.-Mgr., Spokane, Wash. **Inc.:** April

12, 1920. **Capital:** 2,000,000 shares; par value 5c; 1,400,000 shares issued. **Property:** Jim Blaine group; 25 unpatented claims; Pine Creek, Yreka dist.; Kellogg. **Development:** By 3 tunnels: No. 1, 500 ft. long; No. 2, 1000 ft. long; No. 3, 1050 ft. long. **Ore:** Lead-zinc-silver. **Remarks:** Annual labor only.

#### **JONAS & JACKSON MINING CO.**

**Office:** Kellogg. **Officers:** L. W. Jackson, Pres., Spokane; Sarepta Jonas, Sec., Kellogg. **Inc.:** Oct. 6, 1926. **Capital:** 2,000,000 shares; par value 25c; 300,000 shares issued. **Property:** 24 unpatented claims, Yreka dist.; Kellogg. **Development:** By 2 tunnels: No. 1, 240 ft. long; No. 2, 100 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only.

#### **KELLOGG GALENA MINING CO.**

**Office:** 832 Old National Bank Bldg., Spokane, Wash. **Officers:** Samuel A. McCoy, Pres.-Mgr.; Geo. W. Sommer, Sec., both of Spokane, Wash. **Inc.:** Sept. 30, 1915. **Capital:** 1,500,000 shares; par value 10c; 1,425,000 shares issued. **Property:** 14 unpatented claims, Yreka dist.; Kellogg. **Development:** About 1400 ft. of workings. **Ore:** Lead-silver. **Remarks:** Annual labor only.

#### **KENNAN MINING CO.**

**Office:** N. 1111 Hamilton St., Spokane, Wash. **Officers:** E. J. Roberts, Jr., Pres., Spokane, Wash. **Inc.:** Sept. 4, 1917. **Capital:** 250,000 shares; par value \$1; 200,000 shares issued. **Property:** 20 unpatented claims, Beaver dist.; Murray.

#### **LANSING SILVER-LEAD MINING CO.**

**Office:** Wallace. **Officers:** W. V. Stansfield, Pres.; C. I. Grimsloe, Sec.-Mgr., both of Wallace. **Inc.:** June 14, 1916. **Capital:** 1,000,000 shares; par value 25c; shares issued, none. **Property:** 10 patented, 6 unpatented claims, Placer Center dist.; Wallace. **Development:** By 3 tunnels: No. 1, 300 ft. long; No. 2, 450 ft. long; No. 3, 600 ft. long. **Ore:** Lead-silver.

#### **LEAD BLOSSOM MINING & MILLING CO.**

**Office:** Wallace. **Officers:** Walter H. Hanson, Pres.; Herman Marquardt, Sec., both of Wallace. **Inc.:** June 5, 1922, as Iron Blossom Mining & Milling Co.; name changed November 2, 1922. **Capital:** 1,500,000 shares; par value 25c; 1,342,125 shares issued. **Property:** Iron Blossom group; 7 unpatented claims, Yreka dist.; Wardner. **Development:** By 2 tunnels: No. 1, 300 ft. long; No. 2, 400 ft. long; and an inclined shaft 300 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only. A stock assessment of 5 mills was levied on Feb. 25, 1926.

#### **LEAD CRYSTALS MINING CO., LTD.**

**Office:** Wallace. **Officers:** Walter Keister, Pres., Murray; J. E. Steen, Sec., Prichard. **Inc.:** Dec. 11, 1911. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** 10 unpatented claims, Eagle dist.; Prichard. **Development:** By 3 tunnels: No. 1, 250 ft. long; No. 2, 1100 ft. long; No. 3, 750 ft. long. **Ore:** Lead-silver. **Remarks:** In addition to conducting active work throughout the year, the company marketed a small tonnage of ore.

#### **LEROY GOLD & COPPER MINING CO., LTD.**

**Office:** Wallace. **Officers:** G. F. Damm, Pres.; C. E. Clarke, Sec.-Mgr., both of Wallace. **Inc.:** Aug. 2, 1897. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** LeRoy group; 5 patented claims, unorganized dist.; Adair.

#### **LINCOLN MINING CO.**

**Office:** Wallace. **Officers:** Herman J. Rossi, Pres.; Franklin Pfirmann, Sec., both of Wallace. **Inc.:** July 9, 1923. **Capital:** 1,500,000 shares; par value 10c; all shares issued. **Property:** Silverado group; 27 unpatented claims, Evolution dist.; Osburn. **Development:** Principally by 1 tunnel, 4650 ft. long, and an inclined shaft 570 ft. long, giving a vertical depth of

550 ft. with four intermediate levels. **Plant:** MINE: 500 cu. ft. electrically driven compressor; complete mining equipment. **MILL:** 50-ton concentrator, including flotation. **Ore:** Lead-silver. **Men employed:** Average, 11. **Remarks:** The property owned by this company was formerly held by the Silverado Mining Co. which drove the long lower tunnel and placed the equipment on the property. After the Lincoln Mining Co. acquired the mine, the tunnel was reopened, the shaft was unwatered and sunk an additional 400 ft., and the mill was reconstructed. The new work done in the shaft practically followed the vein, which proved that the ore increased in width and grade as depth was gained. The work done by this company was instrumental in attracting much attention and new interest to the section in which its mine is located. During the year a large amount of drifting was performed on the 450-foot level of the shaft; this was successful in exposing a good showing of new ore. Stock assessments were levied during 1926 as follows: 1 cent, Apr. 5; 1 cent, Aug. 12; 1 cent, Dec. 13.

#### **LITTLE BUTTE MINING CO.**

**Office:** Wallace. **Officers:** Mark Cyr, Pres., Burke; Herman J. Rossi, Sec., Wallace. **Inc.:** Sept. 14, 1906. **Capital:** 1,500,000 shares; par value \$1; 736,000 shares issued. **Property:** Little Butte group; 28 unpatented claims, Lelande dist.; Burke. **Ore:** Lead-silver. **Remarks:** Annual labor only.

#### **LITTLE GIANT GOLD MINING CO.**

**Office:** 315 American Bank Bldg., Seattle, Wash. **Officers:** Chas. G. Titus, Pres.-Mgr.; Frank Carver, Sec., both of Seattle. **Inc.:** Oct. 26, 1926. **Capital:** 399,600 shares; par value 25c; 223,140 shares issued. **Property:** Idaho group; 1 patented, 5 unpatented claims; held under lease and option from Geo. McKinnis; Yreka dist.; Kellogg. **Development:** By 2 tunnels: No. 1, 330 ft. long; No. 2, 400 ft. long. **Ore:** Lead-zinc-silver. **Remarks:** No. 2 tunnel was advanced 200 ft. under contract during the year.

#### **LOG CABIN MINING & MILLING CO., LTD.**

**Office:** Wallace. **Officers:** Therrett Towles, Pres.; Otto A. Olsson, Sec., both of Wallace. **Inc.:** Nov. 21, 1906. **Capital:** 1,000,000 shares; par value \$1; shares issued, none. **Remarks:** Owns no property.

#### **LOMBARDY MINING & MILLING CO.**

**Office:** Kellogg. **Officers:** Peter Albinola, Pres., Kellogg; Herman J. Rossi, Sec., Wallace. **Inc.:** March 17, 1899. **Capital:** 1,500,000 shares; par value 10c; 1,400,000 shares issued. **Property:** Lombardy group; 15 patented claims, Yreka dist.; Kellogg. **Development:** By 3 tunnels and one shaft. **Plant:** Hoist, compressor, and mining equipment. **Ore:** Lead-silver.

#### **LONG WAIT MINING CO.**

**Office:** Wallace. **Officers:** Patrick Burke, Pres.-Mgr.; Joseph F. Morton, Sec., both of Wallace. **Inc.:** May 15, 1924. **Capital:** 1,000,000 shares; par value \$1; 620,580 shares issued. **Property:** Sunset group; 4 patented, 3 unpatented claims, held under lease and option from Clark Montana Realty Co.; Beaver dist.; Wallace. **Development:** 1 tunnel 3000 ft. long, and 1 vertical shaft 800 ft. deep. **Ore:** Lead-silver-zinc. **Men employed:** Average, 4. **Remarks:** In the closing months of the year, arrangements were made with the Callahan Zinc-Lead Co. to extend a 4650 crosscut tunnel from the principal tunnel of the Callahan into the property owned by this company.

#### **LOOKOUT MOUNTAIN MINING & MILLING CO.**

**Office:** Kellogg. **Officers:** R. L. Brainard, Pres.; W. L. Penney, Sec.-Mgr., both of Kellogg. **Inc.:** June 2, 1916. **Capital:** 2,000,000 shares; par value 25c; 1,503,526 shares issued. **Property:** Lookout Mountain group; 16 unpatented claims, Yreka dist.; Kellogg. **Development:** Principally by 3 tun-

nels: No. 1, 100 ft. long; No. 2, 2000 ft. long; No. 3, 500 ft. long; and a vertical shaft in No. 2 tunnel 85 ft. deep. **Plant:** Electrically driven Gardner compressor and complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 4. **Remarks:** A road was constructed, mine camp and equipment moved to No. 3 tunnel, and work started. This tunnel will be a crosscut 1500 ft. long which will intersect the vein at a depth of 300 ft. below the No. 2 tunnel. During the year a power line was extended to the property, new compressor installed, and work started in advancing No. 2 tunnel. Stock assessments were levied during 1926 as follows: April 12, 4 mills; Aug. 12, 5 mills; Nov. 4, 5 mills.

#### LUCKY BOY MINING & CONCENTRATING CO., LTD.

**Office:** Mullan. **Officers:** M. D. Needham, Pres.-Mgr.; Agnes Needham, Sec., both of Mullan. **Inc.:** Jan. 12, 1907. **Capital:** 1,000,000 shares; par value \$1; 652,405 shares issued. **Property:** Lucky Boy group; 31 unpatented claims, Hunter dist.; Mullan. **Development:** By 8 tunnels: No. 1, 1300 ft. long; No. 2, 500 ft. long; No. 3, 2130 ft. long; No. 4, 245 ft. long; No. 5, 110 ft. long; No. 6, 35 ft. long. Total development, approximately 6255 ft. **Ore:** Lead-silver. **Men employed:** Average, 1. **Remarks:** A small amount of work during the year.

#### LUCKY CALUMET COPPER MINING CO., LTD.

**Office:** Wallace. **Officers:** John H. Nordquist, Pres.-Mgr.; Otto A. Olsson, Sec., both of Wallace. **Inc.:** Oct. 9, 1906. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** Lucky Calumet group; 9 patented claims, Hunter dist.; Mullan. **Development:** Principally by 2 tunnels: No. 1, 600 ft. long; No. 2, 1100 ft. long. Total development, approximately 5000 ft. **Plant:** Electrically driven 5-drill I-R two-stage compressor; complete mining equipment and camp. **Ore:** Copper-silver. **Remarks:** Idle.

#### LUCKY STONE MINING CO.

**Office:** Empire State Bldg., Spokane, Wash. **Officers:** Dr. Peter Reid, Pres.; George H. Walters, Sec., both of Spokane, Wash. **Inc.:** June 8, 1921. **Capital:** 1,000,000 shares; par value \$1; 922,950 shares issued. **Property:** Lucky Stone group; 2 patented, 21 unpatented claims, Evolution dist.; Wallace. **Development:** Numerous crosscuts and tunnels, totaling approximately 3000 ft. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** Active development work throughout the year. A stock assessment of 5 mills was levied on Feb. 23, 1926.

#### MAC D'PALM MINING CO.

**Office:** Kellogg. **Officers:** W. G. Palmer, Pres.; E. B. Palmer, Sec., both of Kellogg. **Inc.:** June 3, 1922. **Capital:** 1,000,000 shares; par value 10c; no shares issued. **Property:** Silver State group; 5 unpatented claims, Evolution dist.; Kellogg. **Development:** One tunnel 350 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only.

#### MACEDONIA MINING CO.

**Office:** Wallace. **Officers:** A. M. Mundell, Pres.-Mgr., Wallace; W. S. Leland, Sec., Burke. **Inc.:** Oct. 8, 1921. **Capital:** 1,500,000 shares; par value 10c; 10,000 shares issued. **Property:** Macedonia group; 23 unpatented claims, at the head of West Fork of Slate Creek; St. Joe dist.; Wallace. **Remarks:** Active development work throughout the summer months by the president.

#### MAINE-STANDARD MINING CO., LTD.

**Office:** Wallace. **Officers:** Alexander Murphy, Pres.-Mgr.; Otto A. Olsson, Sec., both of Wallace. **Inc.:** March 4, 1907. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** Maine-Standard group; 5 unpatented claims, Moon Creek, Evolution dist.; Kellogg. **Ore:** Lead-silver. **Development:** By 1 tunnel, 1200 ft. long.

**MAJESTIC MINING CO., LTD.**

**Office:** Wallace. **Officers:** James Dunne, Pres.-Mgr., Burke; Therrett Towles, Sec., Wallace. **Inc.:** Aug. 23, 1904. **Capital:** 1,500,000 shares; par value 25c; 952,880 shares issued. **Property:** Majestic group; 13 patented claims, Lelande and Summit dists.; Burke. **Development:** Principally by one tunnel 1500 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** A small amount of development work during the year.

**MARSH MINES CONSOLIDATED**

**Office:** Spokane, Wash., Box 1620. **Officers:** Edward Pohlman, Pres.; Jos. McCarthy, Sec.; F. Cushing Moore, Mgr., all of Spokane, Wash. **Inc.:** Aug. 17, 1916. **Capital:** 2,000,000 shares; par value 25c; 1,989,450 shares issued. **Property:** Marsh group; 12 patented, 1 unpatented claim, Lelande dist.; Burke. **Development:** By 2 tunnels: No. 1, 300 ft. long; No. 2, 2000 ft. long; a vertical shaft 900 ft. deep with 5 intermediate levels; and an inclined shaft 400 ft. long. Total development, approximately 9900 ft. **Plant:** MINE: One I-R 1150 cu. ft. compressor and one 690 cu. ft. Franklin compressor, both electrically driven; complete mining equipment. **MILL:** 200-ton concentrator, including flotation. **Ore:** Lead-silver. **Men employed:** Average, 6. **Remarks:** Active development work during six months of the year, the work being done through the Hecla No. 3 tunnel, and consisting principally of extending this tunnel into the Marsh ground. Stock assessments were levied during 1926 as follows: Jan. 4, 1 cent; June 15, 1 cent; Dec. 1, 1 cent.

**MAURER MINES CONSOLIDATED**

**Office:** Wallace. **Officers:** G. W. Maurer, Pres.-Mgr.; F. E. Scott, Sec., both of Wallace. **Inc.:** Dec. 30, 1926. **Capital:** 5,000,000 shares; par value \$1; 1,250,000 shares issued. **Property:** Lease and option on property of Alice Mining Co.

**MAYFLOWER MINING AND DEVELOPMENT CO., LTD.**

**Office:** Mullan. **Officers:** John H. Foss, Pres.-Mgr.; J. B. Wilcox, Sec., both of Mullan. **Inc.:** Sept. 27, 1915. **Capital:** 1,250,000 shares; par value \$1; all shares issued. **Property:** Mayflower group; 14 patented claims, Hunter dist.; Mullan. **Development:** Principally by one tunnel 4000 ft. long. **Ore:** Lead-silver.

**MERRY WIDOW MINING CO.**

**Office:** Wallace. **Officers:** Howard Haseltine, Pres.-Mgr.; Alva L. Strobe, Sec., both of Wallace. **Inc.:** Nov. 5, 1924. **Capital:** 1,500,000 shares; par value 10c; 1,140,000 shares issued. **Property:** 2 unpatented claims, Evolution dist.; Osburn. **Development:** By 2 tunnels: No. 1, 60 ft. long; No. 2, 600 ft. long. **Ore:** Lead-silver. **Remarks:** A small amount of work during the year.

**METALS MINING CO.**

**Office:** E. 327 Boone Ave., Spokane, Wash. **Officers:** George A. Cunningham, Pres.-Mgr.; Robert E. Buckley, Sec., both of Spokane, Wash. **Inc.:** An association. **Capital:** 1,750,000 shares; par value 50c; shares issued, unknown. **Property:** Comstock group; 17 unpatented claims; Placer Center dist.; Wallace. **Development:** Approximately 3800 ft. of workings. **Ore:** Lead-silver. **Men employed:** Average, 1.

**MILITARY MINING & MILLING CO., LTD.**

**Office:** 418 S. F. St., Spokane, Wash. **Officers:** August Renkert, Pres.; George K. Renkert, Sec.-Mgr., both of Spokane, Wash. **Inc.:** April 30, 1907. **Capital:** 1,000,000 shares; par value \$1; 567,000 shares issued. **Property:** 2 patented claims, Lelande dist.; Burke. **Development:** 2 tunnels: No. 1, 150 ft. long; No. 2, 100 ft. long. **Ore:** Copper.



**MINERAL FARM MINING CO., LTD.**

**Office:** Mullan. **Officers:** C. J. Carlson, Pres.-Mgr., 1215 Gem Ave., Spokane, Wash.; C. D. Miller, Sec., Mullan. **Inc.:** Aug. 28, 1903. **Capital:** 1,500,000 shares; par value \$1; 798,676 shares issued. **Property:** Mineral Farm group; 8 patented claims, Hunter district; Mullan. **Development:** Principally by one tunnel 1200 ft. long. **Ore:** Lead-silver.

**MINERAL HILL MINING CO.**

**Office:** Wallace. **Officers:** Ben Sutherland, Pres.; Geo. N. Osborne, Sec., both of Burke. **Inc.:** May 25, 1925. Charter forfeited Nov. 30, 1926. **Capital:** 1,500,000 shares; par value 10c; 250,000 shares issued. **Property:** Mineral Hill group; 17 unpatented claims, held under lease and option from Phillip Lynch; Kellogg; Yreka dist.; Kellogg. **Development:** By 6 tunnels totaling approximately 600 feet. **Ore:** Lead-zinc-silver. **Men employed:** Average, 5. **Remarks:** Small amount of work during the year.

**MINERAL POINT MINING CO.**

**Office:** Wallace. **Officers:** H. E. Worstell, Pres.; Paul Leuschel, Sec., both of Wallace. **Inc.:** July 7, 1904. **Property:** 1 patented, 7 unpatented claims, Evolution dist.; Wallace. **Remarks:** Annual labor only.

**MOE MINING CO., LTD.**

**Office:** Wallace. **Officers:** W. K. Moe, Pres.-Mgr., G. W. Dougherty, Sec., both of Wallace. **Inc.:** April 8, 1922. **Capital:** 1,000,000 shares; par value 10c; 765,495 shares issued. **Property:** Gold Creek group; 12 unpatented claims, Hunter dist.; Mullan. **Development:** 4 tunnels: No. 1, 1000 ft. long; No. 2, 800 ft. long; No. 3, 100 ft. long; No. 4, 840 ft. long. **Ore:** Lead-silver-copper. **Men employed:** Average, 2. **Remarks:** This company is controlled by the president, who was actively engaged in advancing No. 4 tunnel as a drift on the vein. This work further proved the vein, and greatly encouraged development work. A stock assessment of 4 mills was levied on Jan. 19, 1926.

**MONTANA-IDAHO COPPER CO. OF IDAHO**

**Office:** 412 Lindelle Bldg., Spokane, Wash. **Officers:** H. F. DeBower, Pres., One Park Ave., New York City; C. H. Goodsell, Sec., Spokane. **Inc.:** Incorporated in Idaho as Montana-Idaho Copper Co. on May 7, 1914; reincorporated as Montana-Idaho Copper Co. of Idaho on Apr. 23, 1924. Name changed to Montana-Idaho Mines Corporation on Oct. 23, 1926. **Capital:** 3,000,000 shares; par value \$1; 1,100,000 shares issued. **Property:** Monitor group; 10 patented, 30 unpatented claims, St. Regis dist.; Adair. **Development:** 1 tunnel 9400 ft. long, and a vertical shaft 700 ft. deep with 6 intermediate levels. Vertical distance between tunnel and bottom of shaft is 1050 ft. **Remarks:** Mining plant was dismantled and operations suspended.

**MOON CREEK MINING CO.**

**Office:** Wallace. **Officers:** A. H. Featherstone, Pres.; Otto A. Olsson, Sec., both of Wallace. **Inc.:** June 25, 1906. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Remarks:** Owns no property.

**MULLAN MINING CO.**

**Office:** Wallace. **Officers:** Charles M. Baillie, Pres.-Mgr., Mullan; L. L. Leighty, Sec., Wallace. **Inc.:** Nov. 10, 1899. **Capital:** 1,000,000 shares; par value 5c; 385,871 shares issued. **Property:** Mullan group; 2 patented, 1 unpatented claim, Hunter dist.; Mullan. **Development:** Approximately 2000 ft. of underground workings. **Ore:** Lead-silver. **Remarks:** A small amount of work during the year.

**MURRAY HILL MINING CO.**

**Office:** Jamieson Blk., Spokane, Wash. **Officers:** C. E. Mallette, Pres.; A. Brownlow, Sec., both of Spokane, Wash. **Inc.:** Nov. 20, 1914. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** Black Horse group; 9 unpatented claims, Summit dist.; Murray. **Remarks:** Property under option to Paragon Mining Co.

**NABOB SILVER LEAD CO.**

**Office:** 406 Fernwell Bldg., Spokane, Wash. **Officers:** P. C. Shine, Pres.-Mgr.; J. A. Pinkerton, Sec., both of Spokane. **Inc.:** June 29, 1923. **Capital:** 3,500,000 shares; par value 25c; 2,281,500 shares issued. **Property:** Nabob group; 3 patented, 22 unpatented claims, Yreka dist.; Kellogg. **Development:** By 4 tunnels: No. 1, 400 ft. long; No. 2, 700 ft. long; No. 3, 1500 ft. long; No. 4, 4700 ft. long; and a vertical shaft 300 ft. deep. **Plant:** 2 electrically driven compressors; electrically driven hoist; complete mining equipment and camp. **Ore:** Lead-zinc-silver. **Remarks:** Active development throughout the year. Stock assessments were levied as follows during 1926: Feb. 3, 1 cent; May 3, 1 cent; Aug. 23, 1 cent.

**NATIONAL COPPER MINING CO., LTD.**

**Office:** Wallace. **Officers:** A. Paulsen, Pres., Spokane; W. J. Stratton, Sec.-Mgr., Wallace. **Inc.:** Sept. 22, 1906; charter forfeited Nov. 30, 1925. **Capital:** 2,500,000 shares; par value \$1; all shares issued.

**NATIONAL LEAD MINING CO.**

**Office:** Wallace. **Officers:** Stanly A. Easton, Pres., Kellogg; Leo J. Hoban, Sec., Wallace. **Inc.:** Sept. 21, 1910. **Capital:** 1,000,000 shares; par value \$1; 520,000 shares issued. **Property:** 7 patented, 1 unpatented claim, Hunter dist.; Mullan.

**NEVADA STEWART MINING CO.**

**Office:** Kellogg. **Officers:** C. R. Mowery, Pres., Spokane, Wash.; M. J. Sinclair, Sec.-Mgr., Kellogg. **Inc.:** Nov. 22, 1915. **Capital:** 1,500,000 shares; par value 10c; 1,254,438 shares issued. **Property:** Nevada Stewart group; 8 unpatented claims, Yreka dist.; Masonia. **Development:** Principally by one tunnel 1000 ft. long. **Plant:** Electrically driven 2-drill Sullivan compressor, complete mining equipment. **Ore:** Zinc-lead-silver. **Remarks:** Annual labor only. A stock assessment of 1 mill was levied on June 7, 1926.

**NEW HOPE MINING CO., LTD.**

**Office:** Wallace. **Officers:** Eugene Thomas, Pres.-Mgr.; Otto A. Olsson, Sec., both of Wallace. **Inc.:** July 6, 1900. **Capital:** 1,000,000 shares; par value 5c; all shares issued. **Property:** New Hope group; 12 unpatented claims, Evolution dist.; Osburn. **Development:** By 3 tunnels: No. 1, 500 ft. long; No. 2, 1100 ft. long; No. 3, 300 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** Active throughout the year. Stock assessments were levied as follows: Apr. 5, 2 mills; Nov. 19, 2 mills.

**NEW ROAD MINING CO.**

**Office:** Mullan. **Officers:** Gust Lindroos, Pres.-Mgr.; D. R. Scott, Sec., both of Mullan. **Inc.:** May 1, 1922; charter forfeited Dec. 1, 1922. **Capital:** 1,000,000 shares; par value 10c; 512,000 shares issued. **Property:** New Road group; 2 unpatented claims, Hunter dist.; Mullan. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**NINE MILE MINING CO.**

**Office:** Wallace. **Officers:** S. H. Linn, Pres. Kingston; Otto A. Olsson, Sec., Wallace. **Inc.:** Oct. 6, 1899. **Capital:** 2,000,000 shares; par value 10c; all shares issued. **Property:** Nine Mile group; 6 patented, 16 unpatented claims, Placer Center dist.; Wallace. **Development:** Approximately 5500 ft. of underground workings. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** A small amount of work throughout the year.

**NONPAREIL COPPER MINING CO.**

**Office:** Wallace. **Officers:** Harry C. McAllister, Pres.-Mgr.; Herman J. Rossi, Sec., both of Wallace. **Inc.:** Nov. 1, 1906. **Capital:** 1,500,000 shares; par value \$1; 800,000 shares issued. **Property:** Nonpareil; 3 patented claims, Hunter dist.; Mullan. **Development:** 2 tunnels: No. 1, 380 ft. long; No. 2, 100 ft. long. **Ore:** Lead-silver. **Remarks:** Idle since 1916.

**NORTH AMERICAN MINING & MILLING CO., LTD.**

**Office:** Wallace. **Officers:** Winnifred Presley, Pres.; J. Clarence Presley, Sec.-Mgr., both of Wallace. **Inc.:** June 8, 1903. **Capital:** 1,500,000 shares; par value \$1; 998,000 shares issued. **Property:** North American group; 22 patented, 3 unpatented claims, Yreka dist.; Kellogg. **Development:** One tunnel 2000 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**NORTH BUNKER HILL MINING CO., LTD.**

**Office:** Kellogg, Box 317. **Officers:** Elmer Brown, Pres.; N. T. Hardy, Sec.-Mgr., both of Kellogg. **Inc.:** Feb. 16, 1907. **Capital:** 1,250,000 shares; par value \$1; all shares issued. **Property:** 4 patented claims, Yreka dist.; Wardner. **Development:** Over 10,000 ft. of underground workings. **Plant:** Electrically driven I-R compressor; air driven hoist and complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 3. **Remarks:** This company has been actively engaged in an extensive development campaign for a number of years, and is to be congratulated upon its persistency. Stock assessments were levied during 1926 as follows: May 19, 4 mills; Nov. 13, 4 mills.

**NORTH FORK DEVELOPMENT CO.**

**Office:** Wallace. **Officers:** Thure Olson, Pres.-Mgr., Enaville; John F. Ferguson, Sec., Wallace. **Inc.:** May 8, 1922. **Capital:** 1,000,000 shares; par value 10c; all shares issued. **Property:** 13 unpatented claims, Yreka dist.; Enaville. **Development:** Principally by one tunnel 3,000 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** Active throughout the year. Stock assessments were levied during 1926 as follows: July 26, 5 mills; Nov. 20, 3 mills.

**NORTH HERCULES MINING CO.**

**Office:** Wallace. **Officers:** John F. Smith, Pres.; E. F. Knudson, Sec., both of Coeur d'Alene. **Inc.:** Jan. 14, 1924. **Capital:** 1,500,000 shares; par value 10c; 900,000 shares issued. **Property:** 18 unpatented claims, Summit dist.; Murray. **Development:** By 3 tunnels: No. 1, 2000 ft. long; No. 2, 165 ft. long; No. 3, 480 ft. long. **Ore:** Lead-silver. **Remarks:** This company was formerly known as the Idaho Northern Mineral Co. Annual labor only during 1926.

**NORTH IDAHO MINING CO.**

**Office:** Wallace. **Officers:** Geo. Champagne, Pres.-Mgr., Saltese, Montana; G. W. Dougherty, Sec., Wallace. **Inc.:** March 14, 1900. **Capital:** 1,500,000 shares; par value \$1; 1,049,048 shares issued. **Property:** 3 patented claims, Beaver dist.; Wallace. **Development:** By 2 tunnels: No. 1, 700 ft. long; No. 2, 50 ft. long. **Ore:** Lead-silver.

**NORTH STAR MINING CO.**

**Office:** Wallace. **Officers:** John H. Hansen, Pres.; T. S. Tweed, Sec., both of Wallace. **Inc.:** March 16, 1899. **Capital:** 1,000,000 shares; par value \$1; 460,320 shares issued. **Property:** North Star; 2 unpatented claims; St. Joe dist.; Falcon. **Development:** 2 tunnels: No. 1, 1500 ft. long; No. 2, 200 ft. long. **Ore:** Copper-gold-silver. **Remarks:** Annual labor only.

**NORTH STAR MINING & DEVELOPMENT CO.**

**Office:** Wallace. **Officers:** Wm. Mullen, Pres.; G. W. Dougherty, Sec.-Mgr., both of Wallace. **Inc.:** April 20, 1920. **Capital:** 1,250,000 shares; par value \$1; 1,250,000 shares issued. **Property:** 5 unpatented claims, Placer Center dist.; Wallace. **Development:** Principally by one tunnel, 1300 ft. long. **Ore:** Lead-silver. **Remarks:** Active development work throughout the year. Stock assessments were levied during 1926 as follows: Feb. 11, 1 mill; Aug. 7, 1 mill.

**NORTHERN LIGHT MINING & MILLING CO.**

**Office:** 401 Court House, St. Paul, Minn. **Officers:** B. E. Harmon, Sec., St. Paul, Minn. **Inc.:** Feb. 26, 1915. **Capital:** 1,500,000 shares; par value

5c; 1,321,393 shares issued. **Property:** Northern Light; one patented claim, Pine Creek, Yreka dist.; Kellogg. **Remarks:** Idle since 1917.

#### **NORTHWEST MINING & MILLING CO.**

**Office:** Wallace. **Officers:** Patrick F. McGovern, Pres.; H. J. Rossi, Sec., both of Wallace. **Inc.:** April 6, 1917. **Capital:** 1,000,000 shares; par value 5c; 791,000 shares issued. **Property:** 3 patented claims, Placer Center dist.; Wallace. **Development:** Principally by 1 tunnel 500 ft. long, and an inclined shaft 150 ft. deep. **Ore:** Lead-silver.

#### **OASIS MINING CO.**

**Office:** Kellogg. **Officers:** A. C. Beal, Pres.-Mgr., S. S. Ruthruff, Sec., both of Kellogg. **Inc.:** August 15, 1925. **Capital:** 100,000 shares; par value \$1; all shares issued. **Property:** Oasis group; 4 patented, 2 unpatented claims, Yreka dist.; Kellogg.

#### **OLD VETERAN MINING CO.**

**Office:** Wallace. **Officers:** M. J. Farrell, Pres., Burke; L. L. Brainard, Sec., Wallace. **Inc.:** March 11, 1915. **Capital:** 1,500,000 shares; par value 10c; 618,500 shares issued. **Property:** Old Veteran group; 8 unpatented claims, Lelande dist.; Burke. **Development:** Principally by one tunnel 2000 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only.

#### **OOM PAUL CONSOLIDATED MINING CO.**

**Office:** Wallace. **Officers:** James F. McCarthy, Pres.-Mgr.; L. E. Hanley, Sec., both of Wallace. **Inc.:** April 29, 1907. **Capital:** 1,600,000 shares; par value \$1; all shares issued. **Property:** Oom Paul group; 10 patented claims, Lelande dist.; Burke. **Development:** Over 5000 ft. of workings. **Plant:** Compressor and complete mining equipment. **Ore:** Lead-silver. **Remarks:** Idle throughout the year.

#### **OPTON MINING CO.**

**Office:** Wallace. **Officers:** L. K. Stratton, Pres.; Wm. J. Stratton, Sec.-Mgr., both of Wallace. **Inc.:** January 17, 1925. **Capital:** 2,500,000 shares; par value 10c; 1,998,850 shares issued. **Property:** California group; 6 claims, Placer Center dist.; Wallace. **Development:** Principally by one tunnel over 2000 ft. long. **Plant:** MINE: Electrically driven 3-drill I-R compressor; complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 10. **Remarks:** Active development work throughout the year. A stock assessment of one cent was levied on Feb. 1, 1926.

#### **PACIFIC MINING & MILLING CO.**

**Office:** Wallace. **Officers:** A. H. Featherstone, Sec., Wallace. **Inc.:** April 13, 1898. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** 3 patented claims, Lelande dist.; Gem. **Ore:** Lead-silver. **Remarks:** A stock assessment of ¼ mill was levied on April 13, 1926.

#### **PARADISE MINES ASSOCIATION**

**Office:** Wallace. **Officers:** Thomas Sheppard, Pres., Wallace; John A. Walker, Sec., Spokane, Wash. **Inc.:** A common law trust. **Capital:** 10,000 shares; par value \$10; 8500 shares issued. **Property:** Paradise group; 5 unpatented claims, Placer Center dist.; Wallace. **Development:** By 2 tunnels: No. 1, 840 ft. long; No. 2, 780 ft. long. **Plant:** Gas driven compressor and complete mining equipment. **Ore:** Lead-silver.

#### **PARADISE MINING CO., INC.**

**Office:** 545 Peyton Blk., Spokane, Wash. **Officers:** Len Lussier, Pres.; John A. Walker, Mgr., both of Spokane. **Inc.:** Jan. 29, 1926. **Capital:** 1,000,000 shares; par value 10c; 500,000 shares issued. **Property:** Paradise group; 5 unpatented claims, Placer Center dist.; Wallace. Held under lease and option from the Paradise Mines Association. **Development:** By 2 tunnels: No. 1, 840 ft. long; No. 2, 780 ft. long. **Plant:** Laidlaw-Dunn-Gordon gas-driven compressor. **Men employed:** Average, 2. **Ore:** Lead-silver. **Remarks:** Small amount of work during the year.

**PARAGON MINING CO.**

**Office:** Commerce Bldg., St. Paul, Minn. **Officers:** George S. Monson, Pres.; F. O. Hammer, Sec., both of St. Paul, Minn.; Mrs. Theo. Furst, Mgr., Murray. **Inc.:** September 20, 1901. **Capital:** 150,000 shares; par value \$10; 130,125 shares issued. **Property:** Paragon group; 19 patented, 34 unpatented claims, Summit dist.; Murray. **Development:** Total development approximately 19,000 ft. **Plant:** MINE: Electrically driven compressor; air driven hoist; complete mining equipment and camp. **MILL:** 100-ton concentrator. **Ore:** Lead-zinc-silver. **Remarks:** Idle throughout the year.

**PARK COPPER & GOLD MINING CO., LTD.**

**Office:** Wallace. **Officers:** O. W. Lewis, Pres.-Mgr.; N. J. Stockbridge, Sec., both of Wallace. **Inc.:** Aug. 25, 1899. **Capital:** 1,500,000 shares; par value 10c; 1,373,316 shares issued. **Property:** 5 patented claims; Stevens Peak, Hunter dist.; Mullan. **Ore:** Copper.

**PATRICIA MINING CO.**

**Office:** Kellogg. **Officers:** Frank Brooks, Pres.-Mgr.; D. B. Harlan, Sec., both of Kellogg. **Inc.:** Apr. 17, 1922. Charter forfeited Nov. 30, 1926. **Capital:** 1,500,000 shares; par value 10c; 511,000 shares issued. **Property:** Blue Grouse and Black Diamond groups; 20 unpatented claims, 8 of which are held under lease and option; Pine Creek, Yreka dist.; Kellogg. **Development:** Principally by 1 tunnel, which is 715 ft. long. **Ore:** Lead-zinc-silver. **Men employed:** Average, 1. **Remarks:** A small amount of work during the year.

**PEARSON MINING CO.**

**Office:** Wallace. **Officers:** A. D. Hovde, Pres., St. Paul, Minn.; John F. Ferguson, Sec.; Harry P. Pearson, Mgr., both of Wallace. **Inc.:** April 26, 1920. **Capital:** 500,000 shares; par value \$1; 320,561 shares issued. **Property:** 4 patented, 70 unpatented claims, St. Joe dist.; Falcon. **Development:** Principally by one tunnel 2800 ft. long. **Plant:** Water-driven I-R compressor; complete mining equipment and camp. **Ore:** Copper-gold. **Men employed:** Average, 5. **Remarks:** Mining operations were conducted without interruption throughout the year.

**PHEDORA SILVER-LEAD MINING CO.**

**Office:** Wallace. **Officers:** Geo. Moison, Pres.; E. R. Turk, Sec., both of Wallace. **Inc.:** April 1, 1907. **Capital:** 1,500,000 shares; par value \$1; 689,200 shares issued. **Property:** Phedora group; 10 unpatented claims, Summit dist.; Murray. **Development:** By 4 short tunnels; total development approximately 1000 ft. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** A small amount of work. A stock assessment of 2 mills was levied on July 9, 1926.

**PIONEER MINING CO., LTD.**

**Office:** Wallace. **Officers:** Herman Marquardt, Sec., Wallace; S. H. Linn, Mgr., Kingston. **Inc.:** Nov. 22, 1916. **Capital:** 1,500,000 shares; par value 25c; all shares issued. **Property:** Pioneer group; 12 unpatented claims, Beaver dist.; Wallace. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**PLYMOUTH LEAD MINES CO.**

**Office:** Wallace. **Officers:** Herman Marquardt, Sec., Wallace; T. B. Cosgrove, Mgr., Mullan. **Inc.:** May 16, 1923, as Caledonia Lead Mines Co.; name changed Oct. 13, 1923. **Capital:** 1,500,000 shares; par value \$1; 1,260,800 shares issued. **Property:** 10 patented, 21 unpatented claims, consisting of 5 groups located in different sections of the Coeur d'Alene district; part of which are held under lease and option. **Plant:** Electrically driven compressor and complete mining equipment on Cuba group. **Ore:** Lead-silver. **Remarks:** A small amount of work was performed on all the properties of this company during the year.

**POLARIS DEVELOPMENT & MINING CO.**

**Officers:** John F. Gearon, Sec.; Chester J. Howarth, Mgr., both of Wallace. **Inc.:** Dec. 10, 1915. **Capital:** 1,500,000 shares; par value \$1; 520,000 shares issued. **Property:** 3 patented claims, Yreka dist.; Wallace. **Development:** Principally by 1 tunnel 2500 ft. long. **Plant:** Electrically driven compressor and complete mining equipment. **Ore:** Lead-silver.

**PROGRESS GOLD MINING CO.**

**Office:** Prichard. **Officers:** Harry Clark, Pres.; Louisa Clark, Sec., both of Sprague, Wash. **Inc.:** Aug. 17, 1920. **Capital:** 1,000,000 shares; par value 10c; 406,000 shares issued. **Property:** 17 unpatented claims, Summit dist.; Murray. **Development:** 5 short tunnels. **Remarks:** A small amount of work was done during the year.

**PURITAN MINING CO., LTD.**

**Office:** Wallace. **Officers:** Theodore Anderson, Pres., Lindsay, Calif.; C. A. Salberg, Sec.-Treas., Wallace. **Inc.:** Sept. 30, 1905. **Capital:** 1,500,000 shares; par value \$1; 1,335,000 shares issued. **Property:** Puritan group; 7 patented claims, Placer Center dist.; Wallace. **Development:** Approximately 5000 ft. of crosscuts and drifts. **Plant:** Complete mining equipment and camp. **Remarks:** Idle throughout the year.

**RAINBOW MINING & MILLING CO., LTD.**

**Office:** W. 118 Second Ave., Spokane, Wash. **Officers:** George Austin, Pres.-Mgr., Spokane. John F. Gearon, Sec., Wallace. **Inc.:** June 20, 1907. **Capital:** 2,000,000 shares; par value 25c; 1,404,956 shares issued. **Property:** 7 patented, 18 unpatented claims, Little North Fork dist.; Kootenai County; and Evolution dist.; Osburn. **Development:** 2700 ft. crosscut on Rainbow group. **Plant:** Gas driven I-R compressor, and complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 3. **Remarks:** Annual labor only on Kootenai County property. The long crosscut tunnel on the Rainbow group was advanced without interruption throughout the year. Stock assessments were levied during 1926 as follows: May 17, 3 mills; Nov. 13, 3 mills.

**RAMONA MINING CO.**

**Office:** Kellogg. **Officers:** R. A. Brockman, Pres.-Mgr.; W. B. Turnbow, Sec., both of Kellogg. **Inc.:** Nov. 24, 1924. **Capital:** 1,000,000 shares; par value 25c; 690,000 shares issued. **Property:** Ramona group; 11 unpatented claims, Evolution dist.; Osburn. **Ore:** Lead-silver. **Remarks:** A small amount of work during the year.

**RAVEN MINING CO., LTD.**

**Office:** Wallace. **Officers:** W. T. McLachlin, Pres., Wardner; Franklin Pfirman, Sec., Wallace. **Inc.:** Nov. 13, 1907. **Capital:** 1,500,000 shares; par value \$1; 642,765 shares issued. **Property:** 5 unpatented claims, Summit dist.; Murray. **Development:** Principally by one tunnel 1230 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** Small amount of work during the year. A stock assessment of 1 mill was levied on June 22, 1926.

**RED CHIEF GROUP**

**Owner:** Fred Engstrom, Calder. **Inc.:** Not incorporated. **Property:** Red Chief group; 4 unpatented claims, St. Joe dist.; Calder. **Development:** By 2 short tunnels and an inclined shaft 90 ft. deep. **Ore:** Copper-silver. **Remarks:** Active development by owner throughout the year.

**RED CLOUD MINING CO.**

**Office:** Wallace. **Officers:** A. L. Honeker, Pres.; H. J. Rossi, Sec., both of Wallace. **Inc.:** Sept. 1, 1896. **Capital:** 500,000 shares; par value \$1; 263,396 shares issued. **Property:** 1 patented claim, Yreka dist.; Kellogg. **Ore:** Lead-silver-zinc.

**REINDEER-QUEEN MINING CO.**

**Office:** Wallace. **Officers:** J. F. Gearon, Pres.-Mgr.; K. Eichwald, Sec., both of Wallace. **Inc.:** Sept. 27, 1913. **Capital:** 2,000,000 shares; par value 10c; all shares issued. **Property:** Reindeer-Queen group; 3 patented, 12 unpatented claims, Hunter dist.; Mullan. **Development:** By 2 tunnels: No. 1, 3000 ft. long; No. 2, 7000 ft. long. **Plant:** Water driven compressor and complete mining equipment. **Ore:** Copper-lead-silver. **Men employed:** Average, 3. **Remarks:** A small amount of work done during the year. Stock assessments were levied as follows: Jan. 13, 5 mills; April 5, 5 mills; June 14, 5 mills; Nov. 13, 5 mills.

**REVETT MINING CO.**

**Office:** 215 Jamieson Bldg., Spokane, Wash. **Officers:** W. W. Russell, Pres., J. F. Arnold, Sec.-Mgr., both of Spokane. **Inc.:** Feb. 7, 1925. **Capital:** 2,500,000 shares; par value 20c; 1,100,000 shares issued. **Property:** Great Western group; 7 patented claims, Lelande dist.; Burke. **Development:** Principally by one tunnel 1800 ft. long. **Remarks:** Property formerly owned by the Great Western Mining Co., Ltd. Idle since 1915.

**RHODE ISLAND MINING CO., LTD.**

**Office:** Wallace. **Officers:** A. G. Webb, Pres.; C. E. Clarke, Sec., both of Wallace. **Inc.:** July 13, 1900. **Capital:** 1,000,000 shares; par value 5c; all shares issued. **Property:** Rhode Island group; 4 unpatented claims, Evolution dist.; Wallace. **Development:** Approximately 900 ft. of workings. **Ore:** Lead-zinc-silver. **Remarks:** Annual labor only. A stock assessment of 1¼ mills was levied on March 29, 1926.

**RICHMOND CONSOLIDATED MINING CO.**

**Office:** 824 Old National Bank Bldg., Spokane. **Officers:** John B. White, Pres.; A. M. Laing, Sec., both of Spokane. **Inc.:** June 29, 1923. **Capital:** 2,500,000 shares; par value 10c; 2,400,182 shares issued. **Property:** Richmond group; 5 patented, 1 unpatented claim, St. Joe dist.; Adair. **Development:** Approximately 8000 ft. of underground workings. **Plant:** Gas driven compressor and complete mining equipment. **Ore:** Copper-gold. **Remarks:** During the year, mine plant was dismantled and all operations were suspended.

**ROANOKE MINING CO., LTD.**

**Office:** Wallace. **Officers:** Herman J. Rossi, Pres., Wallace. **Inc.:** Jan. 2, 1907. **Capital:** 1,500,000 shares; par value \$1; 1,194,750 shares issued. **Property:** Roanoke group; 8 patented claims, Yreka dist.; Kellogg. **Development:** Approximately 1000 ft. **Plant:** Electrically driven hoist. **Ore:** Lead-silver. **Remarks:** Control of the company obtained by the Hercules Mining Co. during the early part of the year, after which the mine was reopened and an active development campaign started.

**ROB ROY MINING CO.**

**Office:** Wallace. **Officers:** R. J. McLeod, Pres., Mullan; G. W. Dougherty, Sec., Wallace. **Inc.:** Feb. 16, 1907. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** 11 unpatented claims, Beaver dist.; Sunset. **Development:** By one tunnel 800 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only. A stock assessment of 2 mills was levied on June 22, 1926.

**ROYAL MINING CO.**

**Office:** Coeur d'Alene. **Officers:** A. H. Moe, Pres.-Mgr.; Soren Simonson, Sec., both of Coeur d'Alene. **Inc.:** Dec. 24, 1910. **Capital:** 1,500,000 shares; par value \$1; 848,548 shares issued. **Property:** Royal group; 20 unpatented claims; West Fork of Slate Creek; St. Joe dist.; Avery. **Development:** Approximately 2000 ft. of workings. **Plant:** 6x6 compressor driven by a Pelton water wheel; complete mining equipment and camp. **Ore:** Lead-silver-copper. **Remarks:** Annual labor only. A stock assessment of 2 mills was levied on April 15, 1926.

**RUTH CONSOLIDATED MINING & MILLING CO.**

**Office:** 727 Old National Bank Bldg., Spokane, Wash. **Officers:** C. M. Crego, Pres.; G. D. Crego, Sec., both of Spokane, Wash. **Inc.:** Sept. 15, 1906. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** Ruth group; 7 patented claims, Placer Center dist.; Wallace. **Development:** By 2 tunnels: No. 1, 800 ft. long; No. 2, 2700 ft. long. **Plant:** Electrically driven Laidlaw-Dunn-Gordon compressor; complete mining equipment. **Ore:** Lead-silver. **Remarks:** The lower tunnel was advanced 300 ft. under contract.

**SAINT LOUIS & IDAHO MINING & MILLING CO.**

**Office:** Wallace. **Officers:** Russell F. Collins, Pres.-Mgr.; S. B. Collins, Sec., both of Wallace. **Inc.:** June 24, 1903. **Capital:** 1,000,000 shares; par value \$1; 840,251 shares issued. **Property:** Saint Louis & Idaho group; 3 unpatented claims, Lelande dist.; Burke. **Development:** By 2 tunnels: No. 1, 1000 ft. long; No. 2, 2000 ft. long. **Ore:** Lead-silver.

**SAMSON MINING & DEVELOPMENT CO., LTD.**

**Office:** Wardner. **Officers:** D. W. Raines, Pres., Spokane; R. L. Brainard, Sec., Wardner. **Inc.:** Aug. 15, 1904. **Capital:** 1,000,000 shares; par value \$1; 900,000 shares issued. **Property:** Samson group; 8 unpatented claims, Eagle dist.; Prichard. **Development:** Principally by one tunnel 1000 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** Small amount of work during the year. A stock assessment of 2 mills was levied on Aug. 13, 1926.

**SENATOR MINING CO.**

**Office:** Wallace. **Officers:** Rush J. White, Pres.-Mgr.; John J. Ferguson, Sec., both of Wallace. **Inc.:** May 3, 1920. **Capital:** 2,500,000 shares; par value 25c; 1,899,024 shares issued. **Property:** Senator group; 18 patented claims, Lelande dist.; Gem. **Remarks:** Under lease and bond to Coeur d'Alene Syndicate Mining Co., which see.

**SHRINE MINING CO.**

**Office:** Kellogg. **Officers:** A. C. Beal, Pres.; Lester S. Harrison, Sec., both of Kellogg. **Inc.:** May 29, 1926. **Capital:** 2,000,000 shares; par value 5c; 1,000,000 shares issued. **Property:** 6 unpatented claims on Pine Creek, Yreka dist.; Masonia. **Development:** Principally by one tunnel 1100 ft. long. **Ore:** Lead-silver, antimony. **Remarks:** Annual labor only.

**SIDNEY LEASING CO.**

**Office:** Kellogg. **Officers:** J. B. Cox, Pres.; W. T. Simons, Sec., both of Kellogg. **Inc.:** Feb. 27, 1925. **Capital:** 25,000 shares; par value \$1; 10,000 shares issued. **Property:** Lease on property of the Sidney Mining Co. **Plant:** 538 cu. ft. I-R electrically driven compressor; Waugh drill sharpener; complete mining equipment and camp. **Ore:** Lead-zinc-silver. **Men employed:** Average, 15. **Remarks:** Mine plant and equipment were installed, a large amount of development work was performed, and a substantial tonnage produced and marketed, after the tramway connecting the Sidney mine and the Sweeny mill was completed. This tramway was constructed by the Bunker Hill & Sullivan M. & C. Co. primarily for the benefit of the Sidney mine. This enterprise is a new addition for the year to the list of profitable operations.

**SIDNEY MINING CO.**

**Office:** Kellogg. **Officers:** L. M. Gay, Pres.-Mgr.; W. T. Simons, Sec., both of Kellogg. **Inc.:** June 20, 1910. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** Sidney group; 4 patented, 14 unpatented claims, Pine Creek, Yreka dist.; Kellogg. **Development:** Principally by one tunnel, which is over 1800 ft. long. **Ore:** Lead-zinc-silver. **Remarks:** Under lease to Sidney Leasing Co., who were active throughout the year.



**SIERRA NEVADA CONSOLIDATED MINING CO.**

**Office:** Kellogg. **Officers:** Stanly A. Easton, Pres.-Mgr.; C. W. Simmons, Sec., both of Kellogg. **Inc.:** May 21, 1887. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** Sierra Nevada group; 5 patented claims, Yreka dist.; Kellogg. **Development:** Principally by 4 tunnels: No. 1, 4550 ft. long; No. 2, 275 ft. long; No. 3, 700 ft. long; No. 4, 625 ft. long. Total development, approximately 10,000 ft. **Ore:** Lead-silver. **Remarks:** Property under operation throughout the year by lessees, who produced and marketed a small tonnage of ore.

**SILVER CLIFF GOLD & COPPER MINING CO., LTD.**

**Office:** Wallace. **Officers:** Wm. Volkman, Pres.; Ed. C. Young, Sec.-Mgr., both of Wallace. **Inc.:** Oct. 6, 1900. **Capital:** 1,500,000 shares; par value \$1; 1,050,000 shares issued. **Property:** Silver Cliff group; 19 unpatented claims, Hunter dist.; Mullan. **Development:** Over 2 miles of underground workings. **Plant:** An old water driven compressor. **Ore:** Copper-silver. **Men employed:** Average, 2. **Remarks:** Active throughout the year. A stock assessment of 2½ mills was levied on Dec. 9, 1926.

**SILVER CRESCENT MINING CO.**

**Office:** 511 Chamber of Commerce Bldg., Spokane, Wash. **Officers:** A. L. Hooper, Pres.; F. C. Bailey, Sec.-Mgr., both of Spokane. **Inc.:** Oct. 19, 1911, as Placer Creek Silver-Lead Mining & Milling Co.; name changed, Aug. 31, 1922. **Capital:** 1,000,000 shares; par value \$1; 86,000 shares issued. **Property:** Silver Crescent group; 6 unpatented claims, on Moon Creek, Evolution dist.; Kellogg. **Development:** By 3 tunnels: No. 1, 80 ft. long; No. 2, 130 ft. long; No. 3, 185 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** A small amount of development work during the year. A stock assessment of 1 mill was levied on Feb. 25, 1926.

**SILVER DALE AND BIG HILL MINING CO.**

**Office:** Kellogg. **Officers:** Richard Niemier, Pres.; D. W. Knudson, Sec., both of Kellogg. **Inc.:** Sept. 10, 1917. **Capital:** 1,000,000 shares; par value 1c; 550,000 shares issued. **Property:** 25 unpatented claims, Big Creek, Yreka dist.; Kellogg. **Development:** Principally by one tunnel, which is over 2000 ft. long. **Plant:** Water driven 12x12 compressor. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** Principal tunnel extended 125 ft. during the year. Stock assessments were levied during 1926 as follows: Feb. 27, 2 mills; June 28, 2 mills; Dec. 27, 1 mill.

**SILVER EAGLE MINING CO., LTD.**

**Office:** Wallace. **Officers:** John J. Hogus, Pres.; C. W. Betts, Sec., both of Wallace. **Inc.:** Nov. 12, 1906. **Capital:** 1,000,000 shares; par value \$1; 656,110 shares issued. **Property:** Silver Eagle group; 5 patented, 6 unpatented claims, Placer Center dist.; Wallace. **Development:** 2 tunnels: No. 1, 900 ft. long; No. 2, 400 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**SILVER LODGE MINING & MILLING CO.**

**Office:** Kellogg. **Officers:** J. L. Reager, Pres.-Mgr.; D. Williams, Sec., both of Kellogg. **Inc.:** Dec. 8, 1919. **Capital:** 1,500,000 shares; par value 10c; 679,250 shares issued. **Property:** 19 unpatented claims, St. Joe dist.; Adair. **Development:** By 6 short tunnels. **Ore:** Lead-silver. **Remarks:** A small amount of work was done. A stock assessment of one mill was levied on Nov. 22, 1926.

**SILVER MOON MINING CO., LTD.**

**Office:** Palmerston Hotel, Spokane, Wash. **Officers:** H. C. Lambach, Pres.; Gus Ehrenberg, Sec., both of Spokane, Wash. **Inc.:** Aug. 31, 1906. **Capital:** 1,500,000 shares; par value \$1; 708,394 shares issued. **Property:** Silver Moon group; 10 unpatented claims, Lelande dist.; Gem. **Development:** Principally by one tunnel 2850 ft. long. **Plant:** Electrically driven 200 cu. ft. compressor; complete mining equipment. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**SILVER REEF MINING CO.**

**Office:** N. 4512 Howard St., Spokane. **Officers:** W. J. Buhler, Pres., Port Townsend, Wn.; Harry C. Buhler, Sec.-Mgr., Spokane. **Inc.:** April 6, 1920. **Capital:** 1,500,000 shares; par value 10c; 1,200,000 shares issued. **Property:** 1 patented, 4 unpatented claims, Hunter dist.; Mullan. **Development:** By 2 tunnels: No. 1, 1500 ft. long; No. 2, 2000 ft. long. **Plant:** Electrically driven compressor; complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** A small amount of work was done throughout the year. A stock assessment of one mill per share per month was levied.

**SILVER STANDARD MINING CO.**

**Office:** E. 604 Heroy Ave., Spokane, Wash. **Officers:** Thomas R. Mitchell, Pres.; Mrs. C. M. Shaw, Sec., both of Spokane. **Inc.:** Unknown, never filed in Idaho. **Capital:** 2,000,000 shares; par value 25c; 260,740 shares issued. **Property:** 10 unpatented claims, Evolution dist.; Osburn. **Development:** By 2 tunnels: No. 1, 411 ft. long; No. 2, 560 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**SISTER MINING & MILLING CO., LTD.**

**Office:** Wallace. **Officers:** Frank P. Markwell, Pres., Sanger, Calif.; Everett H. Pattison, Sec., Avalon, Calif. **Inc.:** Dec. 12, 1899. **Capital:** 1,500,000 shares; par value 10c; all shares issued. **Property:** Sister group; 7 patented claims, Placer Center dist.; Wallace. **Development:** Principally by 1 tunnel 1070 ft. long and 1 vertical shaft 260 ft. deep. **Ore:** Lead-silver. **Remarks:** Under lease to Sisters Leasing Co.

**SISTERS LEASING CO.**

**Office:** Wallace. **Officers:** Dan Murphy, Pres.; A. G. Kennedy, Sec., both of Wallace. **Inc.:** Feb. 16, 1920. **Capital:** 10,000 shares; par value \$1; no shares issued. **Property:** Lease on property of Sister Mining & Milling Co., Ltd.

**SLAVONIAN MINING CO.**

**Office:** Wallace. **Officers:** Risto V. Kojovich, Pres.-Mgr., Wardner; G. W. Dougherty, Sec., Wallace. **Inc.:** Nov. 26, 1910. **Capital:** 1,500,000 shares; par value \$1; 608,200 shares issued. **Property:** 4 unpatented claims, Yreka dist.; Wardner. **Development:** Principally by one tunnel 1100 ft. long. **Ore:** Lead-silver. **Remarks:** A small amount of development work during the year with a power connection from the Last Chance compressor of the Bunker Hill & Sullivan M. & C. Co.

**SMUGGLER-VIRGINIA MINING CO.**

**Office:** Room 8 Germond Bldg., Spokane, Wash. **Officers:** D. Holzman, Pres.; J. A. Reubens, Sec., both of Spokane, Wash. **Inc.:** April 10, 1907. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** 4 patented claims, Lelande dist.; Burke. **Ore:** Lead-silver.

**SNOWSHOE MINING CO.**

**Office:** Wallace. **Officers:** Walter H. Hanson, Pres.; Herman Marquardt, Sec., both of Wallace; H. B. Kingsbury, Mgr., Mullan. **Inc.:** Sept. 30, 1903. **Capital:** 2,000,000 shares; par value \$1; 300,000 shares issued. **Property:** Snowshoe; 8 patented claims, Hunter dist.; Mullan. **Development:** Approximately 4000 ft. of workings, the principal of which are No. 2 tunnel, 3000 ft. long, and No. 1 tunnel, 900 ft. long. **Plant:** Electrically driven 3-drill compressor. **Ore:** Copper-silver. **Remarks:** Idle.

**SNOW STORM LEASING CO.**

**Office:** Wallace. **Officers:** Wm. Zickler, Pres., Mullan; W. J. Stratton, Sec., Wallace. **Inc.:** Feb. 19, 1925; charter forfeited Dec. 1, 1925. **Capital:** 50,000 shares; par value \$1; all shares issued. **Property:** Lease on property of Snow Storm Silver Lead Co. **Remarks:** Sub-leased to Oregon-Idaho. C. & M. Co., who constructed a new mill and produced a substantial tonnage during the year.

**SNOW STORM SILVER LEAD CO.**

**Office:** 922 Old National Bank Bldg., Spokane, Wash. **Officers:** Leo Greenough, Pres.-Mgr.; W. J. Beaton, Sec., both of Spokane, Wash. **Inc.:** Nov. 15, 1922. **Capital:** 2,000,000 shares; par value \$1; 1,633,780 shares issued. **Property:** Snow Storm group; 17 patented, 13 unpatented claims, Hunter dist.; Mullan. **Remarks:** Property under lease to Snow Storm Leasing Co.

**SPOKANE MINING & MILLING CO.**

**Office:** Kellogg. **Officers:** W. W. Papesch, Pres.-Mgr.; A. E. Cowles, Sec., both of Kellogg. **Inc.:** Aug. 15, 1899. **Capital:** 500,000 shares; par value 5c; all shares issued. **Property:** 3 patented claims, Yreka dist.; Kellogg.

**SPOKANE TUNNEL MINING CO.**

**Office:** Wallace. **Officers:** John I. Johnson, Pres.-Mgr.; Otto A. Olsson, Sec., both of Wallace. **Inc.:** Oct. 29, 1906. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** 3 unpatented claims, Placer Center dist.; Wallace. **Development:** Approximately 1200 ft. of workings. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**SQUARE DEAL MINING & MILLING CO., LTD.**

**Office:** Wallace. **Officers:** A. H. Featherstone, Pres.-Mgr.; Walter H. Hanson, Sec., both of Wallace. **Inc.:** Oct. 29, 1906. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** Square Deal group; 9 unpatented claims, Hunter dist.; Wallace. **Development:** By 3 tunnels: No. 1, 150 ft.; No. 2, 600 ft.; No. 3, 800 ft. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** A small amount of work during the year. A stock assessment of 2 mills was levied on May 27, 1926.

**STANLEY MINING CO.**

**Office:** Wallace. **Officers:** John H. Wourms, Pres., Wallace. **Inc.:** April 16, 1926. **Capital:** 1,500,000 shares; par value 10c; shares issued, unknown. **Property:** Stanley group; 12 claims, Lelande dist.; Burke. **Development:** By 3 tunnels: No. 1, 145 ft. long; No. 2, 400 ft. long; No. 3, 1100 ft. long. **Ore:** Antimony-gold. **Remarks:** A reorganization of the Stanley Consolidated Mining & Milling Co.

**STAR MINING CO.**

**Office:** 504 Empire State Bldg., Spokane, Wash. **Officers:** R. C. Moffitt, Pres.; Charles Hussey, Sec., both of Spokane, Wash.; James F. McCarthy, Mgr., Wallace. **Inc.:** Sept. 17, 1900. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** Star; 15 patented claims, Hunter dist.; Mullan. **Ore:** Silver-lead-zinc. **Remarks:** Property sold to Sullivan Mining Co. This company is being held together for the purpose of distributing the funds received from the sale.

**STERLING MINING CO., LTD.**

**Office:** Wallace. **Officers:** F. J. Presley, Pres., Spokane; J. Clarence Presley, Sec.-Mgr., Wallace. **Inc.:** Feb. 21, 1903. **Capital:** 1,500,000 shares; par value \$1; 980,000 shares issued. **Property:** 12 unpatented claims, Evolution dist.; Wallace. **Development:** One tunnel, 600 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**STERLING SILVER MOUNTAIN MINING CO., LTD.**

**Office:** 323 Lindelle Blk., Spokane, Wash. **Officers:** R. L. Brainard, Pres., Wardner; Matt Baumgartner, Sec.-Mgr., Spokane, Wash. **Inc.:** Oct. 22, 1919. **Capital:** 2,000,000 shares; par value 5c; 1,850,000 shares issued. **Property:** 17 unpatented claims; Big Creek, Evolution dist.; Kellogg. **Development:** Principally by one tunnel, 1270 ft. long. **Plant:** 5x5 I-R gas-driven compressor. **Ore:** Lead-silver. **Men employed:** Average, 3. **Remarks:** A small amount of development work throughout the year, the funds for which were derived from stock assessments.

**STRATTONS MINES CO.**

**Office:** Wallace. **Officers:** F. M. Rothrock, Pres., Spokane; Jos. A. Brown, Sec., Wallace. **Inc.:** Nov. 30, 1923. **Capital:** 2,000,000 shares; par value 10c; 1,700,050 shares issued. **Property:** McPhillips and Panhandle groups; 14 patented, 28 unpatented claims, Placer Center dist.; Wallace. **Development:** By 2 tunnels: No. 1, 115 ft. long; No. 2, 1044 ft. long; and an inclined shaft 325 ft. deep. **Plant:** Electrically driven hoist. **Ore:** Lead-silver. **Men employed:** Average, 16. **Remarks:** Active development work throughout the year which consisted principally of sinking the inclined shaft from the 200 to the 300-ft. level and drifting on the vein at the bottom of same, at which point a large tonnage of high grade lead-silver ore was exposed. The production of this property was increased 350 per cent over that of 1925. In addition to the operations at the Stratton mine, this company conducted an active development campaign on the Panhandle group. During the closing months of the year, it was reported that a substantial tonnage of ore had been opened on the latter, and that railroad loading facilities were installed.

**SUCCESS MINING CO., LTD.**

**Office:** Wallace. **Officers:** Dan P. Mahoney, Pres., Perma, Montana; H. H. Miller, Sec., Wallace. **Inc.:** April 7, 1905. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** Success group; 7 patented, 2 unpatented claims, Placer Center dist.; Wallace. **Development:** Principally by 3 tunnels: No. 1, 1160 ft. long; No. 2, 1000 ft. long; No. 3, 3000 ft. long; and a vertical shaft 1070 ft. deep with 8 intermediate levels; approximately 25,700 ft. **Plant:** MINE: Electrically driven double drum hoist; 2 electrically driven compressors; complete mining equipment. MILL: 300-ton concentrator, including flotation and magnetic separation. **Ore:** Lead-zinc-silver. **Men employed:** Average, 76. **Remarks:** This property was idle for a number of years and in April, 1922, prospecting was started on the 700 ft. level, No. 3 tunnel. This work encountered a new ore shoot, which was of sufficient size to permit immediate production. During 1923 and 1924 the shaft was unwatered and the new ore bodies explored in all of the lower levels. This ore was of sufficient extent to pay for all mine exploration work, as well as rebuilding and re-equipping the mill and mine plants. The ore developed on the lower levels was extracted and a large amount of development work was performed during 1926. As the development work was not successful in encountering any additional ore, the equipment was salvaged and operations suspended in July.

**SULLIVAN MINING CO.**

**Office:** Wallace. **Officers:** F. W. Bradley, Pres., San Francisco, Calif.; Stanly A. Easton, Sec., Kellogg. **Inc.:** May 22, 1917. **Capital:** 500,000 shares; par value \$3; 37,448 shares issued. **Property:** Star group; 22 patented claims, Hunter and Lelande dists.; Burke. **Development:** By a crosscut tunnel known as "Star crosscut," and over 2600 ft. of drifting on vein. This crosscut is on the 2000-foot level of the Hecla mine and is 8900 ft. long. **Plant:** MINE: All mine equipment furnished by Hecla Mining Co. MILL: All ore is milled by Bunker Hill & Sullivan M. & C. Co. in its South mill at Kellogg. **Ore:** Lead-zinc-silver. **Men employed:** Average, 145.

**REMARKS**

In 1916 the Bunker Hill & Sullivan M. & C. Co. secured an option on the Star mine from the Star Mining Co.; as the most feasible method of opening this mine was through the Hecla mine, the Hecla Mining Co. was offered and accepted a 50 per cent interest in the option.

The Sullivan Mining Co. was then formed to take over the Star option and to operate the mine. After litigation to perfect title to the Star vein system was settled in favor of the Star Mining Co., the Star crosscut was started and continued without interruption, excepting the time lost from July 13, 1923, to March 1, 1924, as a result of the Burke fire.

On November 13, 1925, the Star ore body was encountered at a point 1650 ft. west of the east end line, and at a depth of 4000 feet below the apex of the vein. After encountering the ore body development work continued, and during 1925 it was opened the entire distance of 1650 ft. and a connection was made with the 2250 level of the Morning mine of the Federal Mining & Smelting Co. On account of the great depth of the Star crosscut, the development work necessary to open the mine for the extraction of ore involved a large amount of drifting and raising. This work progressed throughout the year and the ore produced amounted to 475 tons per day.

The Star crosscut is 4000 ft. below the apex and about 70 ft. below the 2250 level of the Morning mine; the Morning vein has been proven to the 2850-ft. level, and as the Morning and Star veins are conceded to be the same, it is evident that the Star mine contains an ore body of tremendous size.

The principal development work done during the year consisted in driving the two main operating raises, which will have a height of approximately 2000 ft. when completed. The most important new construction work to be started in the State during the year was the electrolytic zinc smelter which this company is constructing at Kellogg. It will have an initial capacity of 50 tons per day, and will cost approximately \$1,500,000. It is anticipated that the smelter will be completed and in operation in the late months of 1927. An authorized statement made during the year was to the effect that: "At the present capacity there is sufficient proven ore in the Star mine to assure it a life of 50 years."

#### SUNSET MINING CO.

**Office:** 264 Front St., Portland, Ore. **Officers:** A. H. Ruedy, Pres., Oakland, Calif.; E. G. Ruedy, Sec., Portland, Ore. **Inc.:** Mar. 3, 1926. **Capital:** 500,000 shares; par value \$1; 350,003 shares issued. **Property:** 10 patented, 1 unpatented claim, Placer Center and Beaver districts; Wallace. **Development:** By 2 tunnels: No. 1, 810 ft. long; No. 2, 220 ft. long. **Plant:** 10x10 electrically driven compressor. **Ore:** Lead-zinc-silver. **Remarks:** Annual labor only.

#### SUNSHINE MINING CO.

**Office:** Yakima, Wash. **Officers:** John Sawbridge, Pres., Yakima, Wash.; J. B. Cox, Sec., Kellogg; C. C. Samuels, Mgr., Wallace. **Inc.:** Jan. 3, 1921. **Capital:** 1,500,000 shares; par value 10c; 1,490,793 shares issued. **Property:** Yankee group; 5 patented, 15 unpatented claims, Yreka dist.; Kellogg. Held under lease and bond from Blake estate and Yankee Girl Mining Co. **Development:** Principal development by 5 tunnels: No. 1, 100 ft. long; No. 2, 170 ft. long; No. 3, 800 ft. long; No. 4, 1000 ft. long; No. 5, 3000 ft. long; and 1 vertical shaft 500 ft. deep, located in No. 5 tunnel. **Plant:** MINE: 2 electrically driven I-R compressors, complete mining equipment, buildings, and camp. **MILL:** 100-ton concentrator, including fine grinding and flotation. **Ore:** Lead-silver. **Men employed:** Average, 83.

#### REMARKS

During the year work was started in the shaft, which is located in the lower or No. 5 tunnel, and continued from the 400 to the 500-foot level. The 500-foot level was opened during the year and at this point the ore

body proved to be larger and the ore of higher grade than in any of the upper levels.

On the tunnel level the ore shoot in the Yankee vein was 60 ft. long; on the 200-foot level in the shaft it was 160 ft. long; and on the 400-foot level it was over 200 ft. long; and the Polaris vein, which was barren on the tunnel level, contained considerable high grade ore on the 500-foot level.

The marked increase in the grade and size of the ore put the mine on a self-sustaining basis; production was maintained throughout the year; much additional development work was done, the mine and mill plants were enlarged and improved, and a large part of the purchase price of the mine was liquidated.

The developing of the Sunshine into a productive and paying mine is of vast importance to that section of the Coeur d'Alene district in which it is located. This, the South Side, section has always been frowned upon and considered as unlikely for ore bodies of commercial importance, but this mine has upset all of the theories, and as a result much new development work in the same section, which was started in 1924, was carried on with much vigor throughout 1925 and 1926.

One carload shipment of concentrate marketed during the year was the highest grade ever produced in the Coeur d'Alene district.

#### **SUNSHINE MINING CO., LTD.**

**Office:** Wallace. **Officers:** D. C. Smith, Pres., Missoula, Mont.; H. J. Hull, Sec., Wallace. **Inc.:** Jan. 5, 1907. **Capital:** 2,700,000 shares; par value \$1; 1,563,738 shares issued. **Property:** Sunshine group; 4 patented, 14 unpatented claims, Beaver dist.; Wallace. **Development:** Over 6000 ft. of underground workings. **Plant:** Electrically driven I-R 5-drill compresor; complete mining equipment and camp. **Ore:** Lead-zinc-silver. **Remarks:** Annual labor only. A stock assessment of 4 mills was levied on Sept. 1, 1926.

#### **SYNDICATE MINING CO., LTD.,**

**Office:** 643 Peyton Bldg., Spokane, Wash. **Officers:** John Lucas, Pres., Wallace; W. O. Britt, Sec., Spokane. **Inc.:** July 19, 1926. **Capital:** 1,000,000 shares; par value \$1; 523,495 shares issued. **Property:** Slavonian group; 4 unpatented claims, Yreka dist.; Wardner. Held under lease and option from the Slavonian Mining Co. **Development:** Principally by one tunnel 1250 ft. long. **Plant:** Electrically driven compresor; complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** Active development work throughout the year.

#### **SYNDICATE MINING & EXPLORATION CO., LTD.**

**Office:** Kellogg. **Officers:** Ed Lagerstrom, Pres.; J. L. Moore, Sec., both of Kellogg. **Inc.:** June 24, 1907. **Capital:** 1,500,000 shares; par value 25c; 629,232 shares issued. **Property:** 7 unpatented claims, Yreka dist.; Kellogg. **Development:** Principally by one tunnel, 1400 ft. long. **Ore:** Lead-silver. **Remarks:** Principal tunnel was extended 200 ft. during the year. Stock assessments were levied during 1926 as follows: June 21, 1 mill. Sept. 13, 1 mill.

#### **TAMARACK & CUSTER CONSOLIDATED MINING CO.**

**Office:** Wallace. **Officers:** Jerome J. Day, Pres.-Mgr.; Harry L. Day, Sec., both of Wallace. **Inc.:** Aug. 6, 1912. **Capital:** 5,000,000 shares; par value \$1; all shares issued. **Property:** Tamarack & Custer; 56 patented, 2 unpatented claims, Lelande and Placer Center dist.; Gem. **Development:** The three principal tunnels are: No. 5, 10,228 ft. long; No. 6, 7,155 ft. long; and No. 7, 9,080 ft. long. The principal shaft is a 3-compartment, vertical shaft, 600 ft. deep; and a 3-compartment raise 800 ft. long connecting No. 6 and No. 7 tunnels. Total development, approximately 11 miles. **Plant:** MINE: 100 h. p. electrically driven hoist; 1300 cu. ft. electrically

driven compressor; storage battery haulage on intermediate levels and trolley locomotive haulage on main level. Complete mining equipment. Modern and complete machine shop. Modern hotel, change houses, and camp. **MILL:** 500-ton concentrator, including flotation. **Ore:** Lead-silver-zinc. **Men employed:** Average, 334. **Remarks:** The property owned by this company is one of the substantial mines of the Coeur d'Alene district and is completely equipped with modern and up-to-date mine and mill plants. During 1922 a right-of-way through No. 6 tunnel of the Mace group, commonly known as the Mammoth tunnel, owned by the Federal Mining & Smelting Co., was acquired and renamed Tamarack No. 7 tunnel. Electric haulage, a new compressor, and complete mining equipment were installed, the tunnel was extended to the Tamarack and Custer veins, and an 800-ft. raise was driven to connect this tunnel with No. 6. During the year over one and one-half miles of development work was done and capacity production maintained. It was reported that this work was successful in greatly enlarging the ore reserves. The zinc concentrates are purchased by the Vielle-Montagne Zinc Co. of Chenee, Belgium.

#### **TEDDY MINING & MILLING CO., LTD.**

**Office:** Kellogg. **Officers:** T. R. Mason, Pres.; J. B. Cox, Sec.-Mgr., both of Kellogg. **Inc.:** Dec. 1, 1904. **Capital:** 1,000,000 shares; par value \$1; 770,000 shares issued. **Property:** Teddy group; 9 unpatented claims, Yreka dist.; Kellogg. **Development:** Over 1800 ft. of tunnels, the principal of which is approximately 800 ft. long. **Ore:** Lead-zinc-silver. **Remarks:** Property under lease to Teddy Mines Co.

#### **TIBERIUS MINING CO.**

**Office:** 205 Zeigler Blk., Spokane, Wash. **Officers:** S. H. Knepper, Pres., Moscow; M. L. Lewis, Sec., Spokane, Wash. **Inc.:** March 9, 1916. **Capital:** 1,000,000 shares; par value 10c; 611,450 shares issued. **Property:** 40 acres of patented land on Pine Creek, Yreka dist.; Kellogg. **Ore:** Lead-zinc-silver.

#### **TRADE DOLLAR MINING CO., LTD.**

**Office:** Sanger, Calif. **Officers:** Frank P. Markwell, Pres., Sanger, Calif.; Everett H. Pattison, Sec., Avalon, Calif. **Inc.:** Oct. 18, 1901. **Capital:** 1,000,000 shares; par value 10c; all shares issued. **Property:** Trade Dollar group; 6 patented claims, Lelande dist.; Burke. **Remarks:** Idle throughout the year.

#### **TRIUNE MINING & MILLING CO.**

**Office:** 326 Main St., Lewiston. **Officers:** J. S. Hubbard, Pres.-Mgr.; H. K. Shaw, Sec., both of Lewiston. **Inc.:** June 12, 1926. Charter forfeited Nov. 30, 1926. **Capital:** 500,000 shares; par value \$1; shares issued, none. **Property:** Lease and option on the Aulbach group; 5 patented claims, Coeur d'Alene dist.; Murray.

#### **TUCKER MINING & MILLING CO.**

**Office:** Wallace. **Officers:** Peter Bahn, Pres.-Mgr.; W. R. Turner, Sec., both of Wallace. **Inc.:** March 30, 1907. **Capital:** 1,000,000 shares; par value \$1; all shares issued. **Property:** Tucker group; 6 unpatented claims, Hunter dist.; Mullan. **Development:** Principally by one tunnel which is 1200 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only.

#### **TUSCUMBIA MINING CO., LTD.**

**Office:** Wallace. **Officers:** Geo. May, Pres., Stevensville, Mont.; Morton Webster, Sec.-Mgr., Wallace. **Inc.:** Aug. 14, 1911; charter forfeited Dec. 1, 1925. **Capital:** 1,500,000 shares; par value 50c; all shares issued. **Property:** 1 patented, 6 unpatented claims, Beaver dist.; Wallace. **Development:** By 4 tunnels: No. 1, 160 ft. long; No. 2, 80 ft. long; No. 3, 680 ft. long; No. 4, 1139 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only.

**UNITED AMERICAN MINES CO., LTD.**

**Office:** Box 106, Avalon, Calif. **Officers:** A. M. Lobaugh, Pres., Los Angeles, Calif.; Everett H. Pattison, Sec., Avalon, Calif. **Inc.:** Jan. 24, 1908. **Capital:** 3,000,000 shares; par value \$1; all shares issued. **Property:** 13 patented claims, Lelande dist.; Black Bear. **Ore:** Lead-silver. **Remarks:** This company owns the controlling interest in the Sister Mining & Milling Co., Ltd., and the Trade Dollar Mining Co., Ltd.

**UNITED METALS CO.**

**Office:** Wallace. **Officers:** M. W. Neary, Pres., Portland, Ore.; A. G. Kennedy, Sec., Wallace. **Inc.:** Sept. 2, 1924. **Capital:** 2,000,000 shares; par value 50c; 1,284,356 shares issued. **Property:** 61% of stock of Black Bear Mines Co.; property of Western Pacific Mining Co., Goodenough Mining Co., and Bell Mining Co. held under 50-yr. lease. 36 patented, 11 unpatented claims, Lelande and Hunter districts; Wallace. **Development:** Principally by 2 tunnels: No. 1, 800 ft. long; No. 2, or Black Bear, 4000 ft. long. **Plant:** Electrically driven 3-drill compressor; complete mining equipment. **Ore:** Lead-zinc-silver. **Men employed:** Average, 17. **Remarks:** Active development work throughout the year, the principal part of which consisted in driving a 700-ft. raise on the Black Bear, and a large amount of crosscutting and drifting on the Bell, Goodenough, and Western Pacific groups. A large amount of diamond drilling was also performed on the Black Bear. This operation is one of the principal new development enterprises in the Coeur d'Alene district.

**VENDETTA CHIEF MINING CO.**

**Office:** Murray. **Officers:** John Lillie, Pres.; E. W. Lutjens, Mgr., both of Murray. **Inc.:** March 13, 1924. **Capital:** 1,000,000 shares; par value 10c; 30 shares issued. **Property:** 3 unpatented claims, Summit district; Murray. **Development:** 2 tunnels: No. 1, 300 ft. long; No. 2, 225 ft. long. **Ore:** Lead-silver-gold. **Men employed:** Average, 2. **Remarks:** A small amount of work during the year.

**VIENNA-INTERNATIONAL MINING & MILLING CO., LTD.**

**Office:** Wallace. **Officers:** A. H. Featherstone, Pres.; R. A. Marshall, Sec., both of Wallace. **Inc.:** Sept. 10, 1906. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** Vienna International; 4 patented claims, Placer Center dist.; Wallace. **Development:** Approximately 1300 ft. of tunnels. **Ore:** Lead-silver. **Remarks:** Idle for several years.

**VINDICATOR MINING CO.**

**Office:** Mullan. **Officers:** Kathryn Powers, Pres., 2122 Dwight Way, Berkeley, Calif.; Grace Powers, Sec., Mullan. **Inc.:** June 9, 1902; charter forfeited Nov. 30, 1923. **Capital:** 1,000,000 shares; par value 10c; shares issued, unknown. **Property:** 5 unpatented claims, Hunter dist.; Mullan. **Development:** By one tunnel 1100 ft. long. **Remarks:** Annual labor only.

**WALL STREET MINING CO.**

**Office:** Hecla Mining Co., Wallace. **Officers:** C. A. Pooley, Pres.-Mgr., Mullan; C. Fred Kratzer, Sec., 519 Waverly Place, Spokane, Wash. **Inc.:** April 20, 1907. **Capital:** 1,250,000 shares; par value \$1; 1,237,000 shares issued. **Property:** 17 unpatented claims, Hunter dist.; Mullan. **Development:** Principally by 3 tunnels, the longest of which is 1400 ft. **Plant:** Electrically driven compressor; complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 5. **Remarks:** Active development work throughout the year, which was financed by the Hecla Mining Co. A stock assessment of 1 cent was levied on Jan. 23, 1926.

**WASHINGTON MINING CO.**

**Office:** Burke. **Officers:** John B. Finley, Pres., Mullan; R. W. Campbell, Sec., Burke. **Inc.:** Jan. 14, 1911. **Capital:** 1,500,000 shares; par value \$1; 822,840 shares issued. **Property:** Washington group; 6 unpatented claims,



Lelande dist.; Burke. **Development:** By 2 tunnels: No. 1, 302 ft. long; No. 2, 928 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 2. **Remarks:** Active throughout the year, the work being done under contract. A stock assessment of 2 mills was levied on March 29, 1926.

#### WEST BELL MINING CO., LTD.

**Office:** Wallace. **Officers:** Oscar J. Nordquist, Pres.; Otto A. Olsson, Sec., both of Wallace. **Inc.:** May 8, 1899. **Capital:** 1,000,000 shares; par value 5c; all shares issued. **Property:** West Bell group; 5 patented claims, Lelande dist.; Black Bear. **Development:** 1 tunnel, 2300 ft. long. **Ore:** Lead-silver. **Men employed:** Average, 3. **Remarks:** Active throughout the year.

#### WEST HECLA MINING CO.

**Office:** Spokane, Wash., Box 1620. **Officers:** Dr. T. A. Russell, Pres.; J. V. Pohlman, Sec., both of Spokane, Wash. **Inc.:** Feb. 18, 1907. **Capital:** 1,500,000 shares; par value \$1; 1,450,000 shares issued. **Property:** 3 patented claims, Lelande dist.; Burke. **Development:** Principally by one tunnel 1650 ft. long. **Ore:** Lead-silver.

#### WEST HUNTER MINING CO., LTD.

**Office:** Wallace. **Officers:** T. B. Cosgrove, Pres.-Mgr., Mullan; Herman Marquardt, Sec., Wallace. **Inc.:** July 29, 1915. **Capital:** 1,500,000 shares; par value 10c; all shares issued. **Property:** 1 patented, 12 unpatented claims, Hunter dist.; Mullan. **Development:** About 2700 ft. of tunnels. **Ore:** Lead-silver. **Men employed:** Average, 3. **Remarks:** A small amount of work during the year. This consisted principally of extending the principal tunnel on the west side of Mill Creek. Stock assessments were levied during 1926 as follows: Jan. 12, 5 mills; Oct. 12, 5 mills.

#### WEST MAMMOTH MINING CO.

**Office:** Symons Bldg., Spokane, Wash. **Officers:** H. C. Lambach, Pres.; A. A. Booth, Sec., both of Spokane. **Inc.:** July 30, 1926. **Capital:** 1,500,000 shares; par value 25c; 1,100,000 shares issued. **Property:** Lease and option on property owned by Headlight Mining Co., Ltd., and Big Divide Mining Co., Ltd. **Development:** By 2 tunnels: Headlight, 1300 ft. long; Silvermoon, 2190 ft. long. **Plant:** Electrically driven compressor; complete mining equipment. **Ore:** Lead-silver. **Men employed:** Average, 6. **Remarks:** Active development work throughout the year.

#### WESTERN PACIFIC MINING CO.

**Office:** Wallace. **Officers:** J. Fred Markwell, Sec., Long Beach, Calif. **Inc.:** April 6, 1922. **Capital:** 2,500,000 shares; par value 10c; all shares issued. **Property:** 10 patented, 2 unpatented claims, Lelande dist.; Burke. Under option to United Metals Co.

#### WESTERN UNION MINING CO.

**Office:** Wallace. **Officers:** Harry L. Day, Pres.-Mgr.; W. B. Heitfeld, Sec., both of Wallace. **Inc.:** Jan. 27, 1916. **Capital:** 2,000,000 shares; par value, 10c; 1,997,656 shares issued. **Property:** Western Union group; 11 patented, 19 unpatented claims, Evolution dist.; Wallace. **Development:** Principally by 4 tunnels: No. 3, 3000 ft. long, and No. 4, 7000 ft. long; and a vertical shaft 400 ft. deep, with 4 intermediate levels. Total development approximately 18,000 ft. **Plant:** I-R and Gardner-Ricks electrically driven compressors; air driven hoist; complete mining equipment and camp. **Ore:** Lead-silver. **Men employed:** Average, 20. **Remarks:** During the early part of the year an active development campaign was maintained, and a large amount of ore produced and marketed, after which mining operations were placed on a leasing basis. A stock assessment of 1 cent was levied on April 15, 1926.

#### WILBUR MINING CO., LTD.

**Office:** Wallace. **Officers:** A. T. Jenkins, Pres.; H. H. Miller, Sec., both of Wallace. **Inc.:** Nov. 24, 1906. **Capital:** 2,000,000 shares; par value 25c; 1,300,000 shares issued. **Property:** Wilbur group; 19 unpatented claims,

Evolution dist., Wallace. **Ore:** Lead-silver. **Remarks:** Control of this company is held by the Western Union Mining Co.

#### WILCOX LEASING CO.

**Office:** Wallace. **Officers:** Dr. R. B. Lundy, Pres.-Mgr.; Herman Marquardt, Sec., both of Wallace. **Inc.:** March 25, 1924. **Capital:** 500,000 shares; par value 10c. **Property:** A lease on the mine owned by Eldorado Mining & Smelting Co., Ltd.

#### WILLOW CREEK MINING CO.

**Office:** 303 Hyde Blk., Spokane, Wash. **Officers:** Andrew Hedin, Pres.-Mgr.; John E. Hoppe, Sec., both of Spokane, Wash. **Inc.:** Jan. 25, 1924. **Capital:** 1,500,000 shares; par value 5c; 1,040,000 shares issued. **Property:** 12 unpatented claims, Hunter dist.; Mullan. **Development:** Principal tunnel 1600 ft. long. **Plant:** A gas driven compressor and complete mining equipment. **Ore:** Silver-lead. **Men employed:** Average, 2. **Remarks:** A small amount of work during the year, the money for which was derived from stock assessments.

#### WISCONSIN MINING CO.

**Office:** Kellogg. **Officers:** Louis Bolduc, Pres.-Mgr.; J. V. Thomson, Sec., both of Kellogg. **Inc.:** March 13, 1913. **Capital:** 1,500,000 shares; par value \$1; 490,975 shares issued. **Property:** Wisconsin group; 5 unpatented claims, Yreka dist.; Kellogg. **Development:** One tunnel 500 ft. long and a vertical shaft 100 ft. deep. **Plant:** Water driven compressor; hoist; and complete mining equipment. **Ore:** Lead-silver. **Remarks:** Annual labor only. A stock assessment of 3 mills was levied on May 15, 1926.

#### WOLVERINE MINING CO., LTD.

**Office:** Spokane, Wash. **Officers:** P. C. Harrington, Pres.-Mgr., White's Hotel, Spokane; Jerome Harrington, Sec., 3327 Hartson Ave., Spokane. **Inc.:** Aug. 4, 1909. **Capital:** 1,250,000 shares; par value \$1; 700,000 shares issued. **Property:** Wolverine group; 6 unpatented claims, Yreka dist.; Kellogg. **Development:** By 3 tunnels, No. 1, 400 ft. long; No. 2, 300 ft. long; No. 3, 60 ft. long. **Ore:** Lead-silver. **Remarks:** Annual labor only.

#### WONDERFUL MINING CO., LTD.

**Office:** Wallace. **Officers:** W. H. Holden, Pres., Coeur d'Alene; A. H. Featherstone, Sec., Wallace. **Inc.:** Oct. 15, 1906. **Capital:** 1,500,000 shares; par value \$1; all shares issued. **Property:** Wonderful group; 4 patented claims, St. Joe dist.; Mullan. **Remarks:** Idle for a number of years.

#### WYOMING MINING & MILLING CO., LTD.

**Office:** Wallace. **Officers:** Alfred Page, Pres., Spokane, Wash.; A. W. Hoover, Sec.; Frederick Burbidge, Mgr., both of Wallace. **Inc.:** May 3, 1901. **Capital:** 1,000,000 shares; par value 10c; 935,554 shares issued. **Property:** Wyoming group; 11 patented claims, Yreka dist.; Kellogg. **Development:** Principally by 2 tunnels: Ranger, 2150 ft. long; Wyoming, 500 ft. long. Total development approximately 5400 ft. **Ore:** Lead-zinc-silver. **Remarks:** A small tonnage of ore was produced during the year by lessees.

#### YUKON GOLD CO.

**Office:** 120 Broadway, New York City. **Officers:** J. K. MacGowan, Pres., W. E. Bennett, Sec., both of New York City; D. H. Ferry, Local Mgr., Murray. **Inc.:** March 19, 1917. **Capital:** 3,500,000 shares; par value \$5; all shares issued. **Property:** Lease on the property of the Coeur d'Alene Mining Co. **Plant:** All steel floating dredge, 106 ft. long, 44 ft. wide, 8 ft. deep, weighs about 1000 tons; all elevating, excavating and treating equipment self-contained on the barge; operated by individual drives; electrically driven, aggregating about 400 h. p. **Ore:** Placer gold. **Men employed:** Average, 17. **Remarks:** Continuous operation until May 30, at which time all available ground had been dredged. Operations were suspended and the dredge was dismantled.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
American Placer	Summit	Joseph Laveigne	Murray
Anchor et al.	Summit	Mike Melley	Murray
Ancient Gravel	Yreka	George H. Heller	Kellogg
Aulbach Gr.	Eagle	Adam Aulbach	Murray
Birthday Group	St. Joe	Birthday Min. Co. Wes. J. Horsky	Falcon
Bismark Lode	Eagle	Robt. T. Horn Est.	Murray
Blackhawk Group	Hunter	Chas. M. Baillie	Mullan
Black Hill	Beaver	John Thiard	Delta
Blue Eagle Gr.	Yreka	Walter Owens	Kellogg
Blue Grouse	Evolution	C. M. Patterson	Wallace
Bonanza	Eagle	Jas. Boland	Murray
Boulder Placer	Eagle	Clay Giles	Murray
Carruthers Placer	Eagle	E. N. Harwood	Billings, Mont.
Castle Rock et al.	Lelande	A. C. Livingston	Wallace
Comstock Group	Lelande	J. H. Smith	Wallace
Corby Group	Yreka	C. W. Simmons	Kellogg
Cornucopia	Eagle	Francis Frohling	Murray
Daddy Mining Co.		Robert T. Horn	Murray
Eagle Placer	Eagle	Archie Smith	Murray
Eldorado	Summit	R. B. Lundy	Wallace
Eleventh Hour	Evolution	Victor Langley	Wallace
Empress	Beaver	Hugh Mabin	Wallace
Enterprise Group	Yreka	Fred G. Donaldson	Kellogg
Fay et al.	Yreka	Fred G. Donaldson	Kellogg
Ferguson Gr.	Summit	C. B. Ferguson	Murray
Florence Group	Eagle	Frank Rose	Murray
4000 Ft. Slide	Eagle	Clay Giles	Murray
Frances Jeanne	Eagle	W. A. Taylor	Murray
Friday	Beaver	E. M. Smith	Murray
Galena	Lelande	A. W. McCune	200 N. Main St., Salt Lake City, Utah
Gilbert Placer	Beaver	W. A. Mather	Murray
Gold Back Co.	Eagle	John Docktor	Murray
Gold Circle	Summit	William Wylie	Murray
Golden Chest	Beaver	Vivian Green	45 W. 34th St., New York City
Golden Gate	St. Joe	E. A. Patrick	540 Rookery Bldg., Spokane, Wash.
Great Western & Silver Cord	Summit	Dunlap & Smith	Murray
Headlight	Black Bear	Frank P. Markwell	220 Markwell Bldg., Long Beach, Calif.
Highland Chief	Yreka	H. T. Gilbert	Kellogg
Horseshoe Pl.	Beaver	Charles H. Wilson	Murray
Indicator	Yreka	Chas. Kaufman	Wallace
Ionia Lode	Summit	Albert Otto	Murray
Iron Clad	Yreka	Henry Lamb	Kellogg
Jewel Gulch	Evolution	Jasper Allamno	Osburn
Joyce Gr.	Beaver	C. B. Ferguson	Murray
Jumbo Gr.	Eagle	Chas. J. Johnson	Murray
Leroi Gr.	Placer Center	John Guedelhofer	Wallace
Liberal King Gr.	Yreka	Leslie Lamb	Kellogg
Little Pittsburgh	Yreka	Gus Smith	Kellogg

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Lucky Bill Gr.	Eagle	Chas. T. Johnson	Murray
Lucky Boy	Summit	D. A. Finlayson	Murray
Lucky Strike	Summit	M. E. Lewis	Moscow
Midnight	Hunter	Forest Clark	Mullan
Midnight Pl.	Beaver	W. A. Mather	Murray
Morning Star	Eagle	Mike Franks	Murray
Mother Lode	Eagle	John F. Murphy	Murray
Mountain View	Eagle	E. M. Burt	Portland, Ore.
Nellie Potter	Eagle	David Goodman	Murray
Ninety Seven	Hunter	H. Thompson	Wallace
Old Timber	Eagle	Louis Feldman	Murray
Olympia	Lelande	A. G. Kerns Est.	Wallace
Omaha Group	Lelande	August Paulsen	Spokane, Wash.
Ostrog Gr.	Yreka	N. Petrinovich	Wardner
Paradox	Summit	Charles Nordquist	Murray
Paymaster	Yreka	Jas. E. Hoskins	Kellogg
Pilot Group	Eagle	John Docktor	Murray
Prudent	Summit	P. R. Kimball	Murray
St. Joe	Evolution	C. M. Patterson	Wallace
Sargent	Evolution	Mrs. Charles Sar- geant	Csburn
Seward Camp	Eagle	James R. Wood	Murray
Sherlock Group	St. Joe	Frank M. Rose	Wallace
Shipka	Eagle	Godfrey Kohl	Murray
Silver Reef	Yreka	Herman J. Rossi	Wallace
Silver Star	Beaver	E. R. Oxley	Murray
Slim Show	St. Joe	Nels Dahlberg	Iron Mt. Mont.
Spokane Gr.	Yreka	Robt. F. Schneider	Kellogg
Sunset Group	Beaver	W. A. Clark	Butte, Mont.
Tam O'Shanter	Evolution	David C. Coates	Spokane, Wash
Toledo Group	Lelande	M. J. Farrell	Burke
Tommy Hawk	Yreka	Alex Vouchard	Kellogg
Troy Group	Hunter	L. E. Hanley	Wallace
Victor	Lelande	A. D. Marshall	Wallace
Vindicator Group	Yreka	Charles Kaufman	Kellogg
Virgo et al.	Evolution	Sigurd Thorkelson	Wallace
Waddell Group	Summit	Frank Hall	Murray
Wallace Group	Evolution	Jos. Peila	Wallace
Whipsaw Placer	St. Joe	Frank A. Heller	Bonnors Ferry
Wild & Wooley	Beaver	J. A. Prichard	Prichard
Winnie	Eagle	W. M. Smith	Murray
Yankee Group	Evolution	Dennis Blake	Kellogg

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## TETON COUNTY

Teton is one of the southeastern counties, being bounded on the east by the State of Wyoming, on the south by Bonneville County, on the west by Madison County, and on the north by Fremont County. Containing an area of but 463 square miles, it is the second smallest county in the State. The 1920 census accredited it with a population of 3921, or 8.5 persons to the square mile, the larger part of which is located in the Teton River valley. Practically all the county is farming land, and the principal industries are wheat, potato and stock raising.

The county is served by the Teton State highway, good county roads, and the Ashton-Victor branch of the O. S. L. Railroad. Driggs is the largest town and county seat.

The principal mineral resources of Teton County are coal, phosphate rock, natural gas, limestone, and asbestos; and there are excellent possibilities for the discovery of petroleum. This county is one of the few in the State in which coal occurs in commercial quantity. Compared with the coal produced at Rock Springs, Wyoming, it is equal in quality and similar in appearance. As well as being of excellent quality for domestic and industrial purposes, it is especially adaptable for powdered coal.

The principal coal-bearing area is the Horseshoe district, seven miles west of Driggs. This district has never been sufficiently developed to prove the number or extent of the coal beds. Those which have been proved vary from one to eleven feet in thickness and repose at an angle of approximately 45 degrees. The Horseshoe district has been examined by the U. S. Geological Survey and by the U. S. Bureau of Mines in cooperation with the Idaho Bureau of Mines and Geology. The reports issued by these organizations are listed in the bibliographies, to which the reader is referred for complete descriptions, analyses, and tonnage estimates.

The Teton Coal Co. maintained continuous work in its long crosscut. At a distance of 4200 feet the tunnel intersected a 5-foot vein of coal, at which point a vertical raise 640 feet high was driven to the surface. After the raise was completed, the tunnel was advanced 800 feet, or to a total length of 5000 feet. The last 800 feet of the tunnel intersected two unknown veins of coal, one 8 feet thick and the other 4 feet thick, both containing coal of an excellent quality. In addition to this important development work, the company mined and marketed a small tonnage of coal.

The Superior Coal Mining Co., whose property is adjacent to that of the Teton Coal Co., constructed additional mine camp buildings, sank an inclined shaft 130 feet on one vein, and began driving a crosscut which will intersect two more veins.

The Tieton Valley Land & Leasing Co. maintained drilling throughout the greater part of the year. This enterprise is being watched with much interest, as there are many structures in Teton County which are favorable to the accumulation of oil and gas in commercial quantities.

#### IDAHO COAL MINING CO.

**Office:** Driggs. **Officers:** Peter Mickelsen, Pres., Rexburg; J. F. Miller, Sec., Rigby; John R. Cluff, Mgr., Driggs. **Inc.:** Aug. 13, 1926. **Capital:** 100,000 shares; par value \$1; 39,600 shares issued. **Property:** Government prospecting permit on 2160 acres, Horseshoe dist.; Sam. **Development:** Principally by one tunnel 340 ft. long. **Mineral sought:** Coal. **Remarks:** Small amount of development work during the year.

#### SUPERIOR COAL MINING CO.

**Office:** Pocatello. **Officers:** J. F. Kosanke, Pres., American Falls; S. Hansen, Sec., Pocatello. **Inc.:** Dec. 24, 1924. **Capital:** 1,000,000 shares; par value \$1; 225,000 shares issued. **Property:** Assignment of prospecting permits and applications for lease on 2400 acres; Horseshoe dist.; Sam. **Development:** By 8 short tunnels, the longest being 200 ft.; all of which are drifts on coal veins; and an inclined shaft 158 ft. long. **Plant:** Steam-driven hoist. **Mineral sought:** Coal. **Men employed:** Average, 9. **Remarks:** During the year the mine plant was installed, shaft sunk, and a large amount of drifting done on the various coal veins. This company's property adjoins that of the Teton Coal Co., and throughout the area controlled 13 veins of coal have been exposed on the surface.

#### TETON COAL CO.

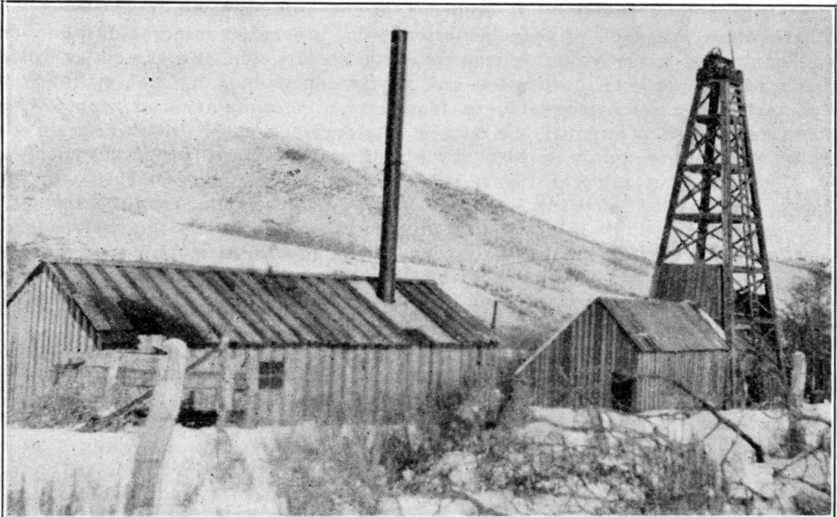
**Office:** Sam, Idaho. **Officers:** H. F. Samuels, Pres., Samuels; C. D. Robinson, Sec., Spokane, Wash. **Inc.:** Oct. 3, 1923. **Capital:** 1,000,000 shares; no par value; shares issued, unknown. **Property:** Brown Bear group; 1225 acres patented land, Horseshoe dist.; Sam. **Development:** By an inclined shaft 640 ft. long and a 5000-ft crosscut tunnel. Total development, approximately 15,000 ft. **Plant:** Steam driven hoist and 2 steam driven compressors; tippie capable of hauling 1000 tons in 8 hrs.; complete mining equipment and camp. **Mineral sought:** Coal. **Men employed:** Average, 40. **Remarks:** During the year this company maintained continuous work in its 5000 ft. crosscut, which was started in 1924. At a distance of 4200 ft. the tunnel intersected a 5-ft. vein of coal, at which



point a vertical raise was driven to the surface. After the raise was completed, the tunnel was advanced 800 ft., intersecting 2 unknown veins of coal, one 8 ft. thick and the other 4 ft. thick. In addition to this important development work, the company constructed a tippie and mined and marketed a small tonnage of coal.

**TIETON VALLEY LAND & LEASING CO.**

**Office:** Astoria, Ore. **Officers:** S. W. Lovell, Pres.; Charles Anet, Sec., both of Astoria, Ore.; F. J. Johnston, Mgr., Driggs, Inc.: Aug. 11, 1923. **Capital:** 100,000 shares; par value \$1; 85,000 shares issued. **Property:** Oil and gas lease on 6000 acres of patented land lying west of Driggs. **Development:** 1500-ft. well. **Plant:** No. 26 Star drilling rig and complete drilling equipment. **Mineral sought:** Oil and gas. **Men employed:** Average, 5. **Remarks:** Active drilling operations throughout the year.



POWER HOUSE AND DERRICK, TIETON VALLEY LAND AND LEASING COMPANY.

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## VALLEY COUNTY

Valley County occupies the geographical center of the State. It is bounded on the north by Idaho, on the east by Lemhi and Custer, on the south by Boise, and on the west by Gem and Adams counties. It contains an area of 3779 square miles, and was accredited with a population of 2524 in the 1920 census, or 0.7 persons to the square mile. The principal industries are farming, stockraising, lumbering and mining. Cascade is the county seat.

The State highway, Payette, extending from Boise to Cascade, McCall, and New Meadows, is the principal highway; the Forest Service highways from Cascade to Knox and Yellow Pine, and from Knox into Deadwood Basin and Bear Valley, connecting with the Sawtooth Park and Payette highways, were practically completed and opened to travel. The Nampa-McCall branch of the O. S. L. Railroad is the only railroad in the county.

Isolation and lack of transportation have prevented mineral development and compelled many valuable properties to lie idle, but the system of forest roads which has been designated and partly constructed, is making many of the various sections accessible to travel, and is stimulating mining. When these roads are completed the largest undeveloped mineralized area in the State will become available to profitable development and exploitation.

The principal mineral resources of Valley County are gold (placer and lode), lead, silver, zinc, antimony, mercury, copper, tungsten, molybdenum, and monazite. Many mines containing these minerals are undeveloped but justify the necessary finances to prove their possibilities, and many others warrant investigation. These properties and the possibilities in undiscovered veins present many opportunities to the investor, prospector, and development company.

One of the outstanding developments of the year was made in this county by the Bunker Hill & Sullivan Mining & Concentrating Co., in the Hall Interstate mine in Deadwood Basin. The disclosure was made in a long crosscut tunnel which intersected the vein approximately 600 feet below the outcrop. At the point of intersection the vein was determined to be approximately 50 feet wide, throughout the largest part of which the ore was of commercial grade. At the close of the year it had not been sufficiently prospected to determine the extent, but the work done indicated that it is the forerunner of a large and important lead-zinc-silver producing mine. As the vein occurs in granite, or allied rocks, the discovery means much to the State, as it will stimulate prospecting and encourage the investment of capital for the development of the many similar occurrences which are found throughout the granite area of Central Idaho. In past years, this area has been looked upon with disfavor, but this demonstration fully proves the potentialities of these veins. During the year the mine plant was enlarged and improved, new buildings were added to the camp, and active development work was maintained.

The Profile Gap district witnessed more development work by prospectors, small companies, and investigators than for many years. Two new discoveries of lead-silver ore were reported, and one new company started work.

The United Mercury Mines Co. was active throughout the year in developing the Hermes group, in which the principal ore is cinnabar; the Meadow Creek group, a large low-grade gold-silver property; and the Antimony group. A small tonnage of high-grade ore was marketed from the latter. The development work greatly increased the known resources of all these mines.

The completion of the new highway connecting Cascade and Bear Valley, which gives the Bunker Hill & Sullivan Mining & Concentrating Co. a shorter connection with the railroad, was an important factor in stimulating investigation and development throughout this section of the county.

**BUNKER HILL & SULLIVAN MINING & CONCENTRATING CO.**

(See Shoshone County.)

**Officers:** F. W. Bradley, Pres., 1022 Crocker Bldg., San Francisco, Calif.; Stanly A. Easton, Mgr., Kellogg; James W. Gwinn, Local Mgr., Cascade. **Property:** Lease and bond on mines owned by Hall Interstate Mining Co. and Lost Pilgrim Mining Co., Deadwood dist.; Cascade 52 miles; Knox. **Development:** Approximately 5000 ft. on both groups. **Plant:** 150 k. w. hydroelectric power plant operating under a 510-foot head; 385 cu. ft. I-R compressor, complete mining equipment and camp. **Ore:** Lead-silver. **Men employed:** Average, 20.

**REMARKS**

The properties controlled by this company were acquired in May, 1924, after many months of negotiation; immediately thereafter arrangements were completed for the construction of the necessary buildings and the installation of the equipment.

A large two-story boarding house, a power-house, shop, barn, and outbuildings were built. The power plant was constructed, and the compressor and mining equipment were installed; mining operations were commenced on October 24, 1924, and conducted without interruption throughout 1926.

The development campaign outlined consisted of extending the Independence tunnel, of the Hall group, a distance of 1500 feet, where it intersected the Hall vein at a vertical depth of approximately 600 feet below the apex. The vein was intersected and a large amount of drifting done on it; the mine plant was enlarged and improved; and new buildings were added to the camp.

Approximately 1500 feet of drifting and crosscutting was performed during 1926.

**CASCADE VALLEY CORPORATION**

**Office:** Fulton Nat. Bank Bldg., Atlanta, Georgia. **Officers:** N. S. Turner, Pres., Covington, Ga.; Ronald Ransom, Sec., Atlanta, Ga. **Inc.:** April 27, 1925. **Capital:** 60,000 shares; par value \$1; all shares issued. **Property:** Eagle group; 7 unpatented claims, Edwardsburg dist.; Edwardsburg.

**DEADWOOD MINING CO., LTD.**

**Office:** Boise. **Officers:** Jas. H. Hawley, Pres.; C. B. Steunenberg, Sec., both of Boise. **Inc.:** June 10, 1921. **Capital:** 1,000,000 shares; par value 10c; 307,504 shares issued. **Property:** Deadwood group; 8 unpatented claims, Deadwood dist.; Knox. **Development:** Principally by one tunnel, 600 ft. long. **Ore:** Lead-silver. **Remarks:** A small amount of development work during the year.

**FERN QUICKSILVER MINING CO.**

**Office:** Twin Falls. **Officers:** V. E. Morgan, Pres.; D. B. Edwards, Sec., both of Twin Falls. **Inc.:** Nov. 21, 1917. **Capital:** 1,500,000 shares; par value \$1; 984,841 shares issued. **Property:** 6 unpatented claims, Yellow Pine dist.; Yellow Pine. **Development:** By 3 tunnels: No. 1, 594 ft. long; No. 2, 105 ft. long; No. 4, 166 ft. long. **Plant:** Partly dismantled Johnson-McKay retort. **Ore:** Mercury. **Remarks:** Annual labor only.

**GOLD FORK MINING CO.**

**Office:** 218 N. Eighth St., Boise. **Officers:** W. E. Pierce, Pres.; W. Clyde Cox, Sec., both of Boise. **Inc.:** Jan. 18, 1916. **Capital:** 2000 shares; par value \$100; all shares issued. **Property:** 1520 acres patented placer ground; Gold Fork dist.; Roseberry. **Ore:** Placer gold. **Remarks:** Idle throughout the year.

**GOLD FORK PLACER MINING CO.**

**Office:** Emmett. **Officers:** W. H. Shane, Pres.; H. Haylor, Sec., both of Emmett. **Inc.:** July 21, 1920. **Capital:** 25,000 shares; par value \$1; 3 shares issued. **Remarks:** Owns no property.

**GREAT NORTHERN MINES CO.**

**Office:** 310 Overland Bldg., Boise. **Officers:** J. L. Niday, Pres.-Mgr.; M. A. Niday, Sec., both of Boise. **Inc.:** Feb. 7, 1924. **Capital:** 100,000 shares; par value \$1; all shares issued. **Property:** 13 unpatented claims, Yellow Pine dist.; Yellow Pine. **Development:** By 2 short tunnels. **Ore:** Antimony.

**HALL INTERSTATE MINING CO.**

**Office:** Boise. **Officers:** James H. Hawley, Pres.; Charles W. Mack, Sec., both of Boise. **Inc.:** Oct. 30, 1915. **Capital:** 1,000,000 shares; par value 25c; 155,500 shares issued. **Property:** Hall group; 5 unpatented claims, Deadwood dist.; Knox. **Development:** By 2 tunnels: Independence, 3000 ft. long; Anderson, 300 ft. long. **Ore:** Lead-silver. **Remarks:** Under lease and option to Bunker Hill & Sullivan M. & C. Co.

**HOLCOMB CO., LTD.**

**Office:** Boise. **Officers:** Ario Pardee, Sec., 1600 Walnut St., Philadelphia; Chas. W. Mack, Mgr., Boise. **Inc.:** April 20, 1908. **Capital:** 500,000 shares; par value \$1; 169,280 shares issued. **Property:** 16 patented claims, Thunder Mountain dist.; Yellow Pine. **Ore:** Gold.

**HURLEY CREEK MINING & MILLING CO.**

**Office:** Cascade. **Officers:** Chas. C. Smith, Pres., Smiths Ferry; Forest E. Robb, Sec., Cascade. **Inc.:** Aug. 21, 1923. **Capital:** 1,000,000 shares; par value 10c; 616,759 shares issued. **Property:** Maloney group; 10 unpatented claims, unorganized dist.; Cabarton. **Development:** By 3 tunnels: No. 1, 450 ft. long; No. 2, 200 ft. long; No. 3, 700 ft. long. **Ore:** Silver-gold-copper. **Men employed:** Average, 2. **Remarks:** This company is operating the Maloney group and actively developed the property during the greater part of the year.

**INDEPENDENCE MINES & POWER CO.**

**Office:** Topeka, Kan. **Officers:** W. H. Davis, Pres.; L. Biscoe, Sec., both of Topeka, Kan. **Inc.:** April 27, 1906. **Capital:** 500,000 shares; par value 5c; 400,000 shares issued. **Property:** 10 patented claims, Big Creek dist.; Yellow Pine. **Development:** By one tunnel 500 ft. long. **Ore:** Copper-silver-gold. **Remarks:** Idle for many years.

**IRON CLAD MINING & MILLING CO.**

**Office:** Caldwell. **Officers:** John M. Nelson, Pres.; H. C. Heise, Sec., both of Mabton, Wash.; Jesse R. Butler, Mgr., Clover. **Inc.:** April 9, 1924. **Capital:** 200,000 shares; par value \$1; 160,000 shares issued. **Property:** Iron Clad group; 5 unpatented claims, Thunder Mountain dist.; Clover. **Plant:** 5-stamp mill. **Ore:** Gold-silver-copper. **Remarks:** Mill was constructed and a small amount of development work performed during the year.

**LOST PILGRIM MINING CO.**

**Office:** Boise. **Officers:** James H. Hawley, Pres.; Charles W. Mack, Sec., both of Boise. **Inc.:** Nov. 22, 1921. **Capital:** 600,000 shares; par value \$1; 306,874 shares issued. **Property:** Lost Pilgrim group; 6 unpatented claims, Deadwood dist.; Knox. **Development:** By 2 tunnels: No. 1, 400 ft. long; No. 2, 300 ft. long; and 1 vertical shaft 40 ft. deep, at the bottom of which is a 70 ft. drift on the vein. Total development, approximately 1500 ft. **Ore:** Silver. **Remarks:** Under lease and option to Bunker Hill & Sullivan M. & C. Co.

**MERRY BLUE MINING CO.**

**Office:** Idanha Hotel, Boise. **Inc.:** A partnership consisting of Thomas McMillan and Henry Vernon, both of Boise. **Property:** Merry Blue group; 8 unpatented claims, Deadwood dist.; Lowman. **Development:** Principally by 2 tunnels: Merry Blue, 500 ft. long; 4th of July, 300 ft. long. **Plant:** MINE: Steam driven compressor; complete mining equipment, and saw-mill. MILL: Steam driven amalgamation mill. **Ore:** Gold. **Men employed:** Average, 2. **Remarks:** Active development work throughout the summer months.

**PROFILE-TAMARACK MINES CO.**

**Office:** Yellow Pine. **Officers:** H. T. Abstein, Pres.-Mgr., Yellow Pine. **Inc.:** June 18, 1926. **Capital:** 20,000 shares; no par value; 10,000 shares issued. **Property:** 27 unpatented claims, Missouri and Profile creeks, Yellow Pine dist.; Yellow Pine. **Development:** Approximately 620 ft. of workings on both groups. **Ore:** Lead-silver, copper-gold. **Men employed:** Average, 4. **Remarks:** Active development work throughout the year.

**PROSPECTORS MINING & DEVELOPING CO., LTD.**

**Office:** Route 2, Kuna. **Officers:** John R. Clark, Pres., Escalon, Calif.; Homer I. Clark, Sec.-Mgr., Kuna. **Inc.:** April 12, 1906. **Capital:** 50,000 shares; par value \$1; 26,725 shares issued. **Property:** Golden Ixer group; on Wilson Creek; Thunder Mountain dist.; Meyers Cove. **Development:** Approximately 525 ft. of workings, the principal one of which is a tunnel 125 ft. long. **Ore:** Gold. **Men employed:** Average, 1. **Remarks:** Annual labor only.

**RETALLAC MINING CO.**

**Officers:** Fenton Merrill, Pres., P. O. Box 1221, Seattle, Wash.; Paul De-Haas, Sec., Portland, Ore. **Inc.:** Unknown. **Capital:** 5000 shares; par value \$1; all shares issued. **Property:** 2 unpatented claims, Yellow Pine dist.; Yellow Pine. **Ore:** Gold. **Remarks:** Annual labor only.

**SMITH CREEK HYDRAULIC MINING CO.**

**Office:** 311 McCarty Bldg., Boise. **Officers:** J. K. Burns, Pres.-Mgr.; U. F. Powell, Sec., both of Boise. **Inc.:** Common Law Trust. **Capital:** 200,000 shares; par value \$1; 117,452 shares issued. **Property:** Smith Creek group; 12 unpatented placer claims, Edwardsburg dist.; Edwardsburg. **Ore:** Placer gold. **Men employed:** Average, 4. **Remarks:** A small amount of work during the year, which consisted principally of ditch and road construction.

**UNITED MERCURY MINES CO.**

**Office:** 605 Overland Bldg., Boise. **Officers:** J. J. Oberbillig, Pres.-Mgr.; J. F. Koelsch, Sec., both of Boise. **Inc.:** Jan. 20, 1921. **Capital:** 5,000,000 shares; par value 10c; 4,116,601 shares issued. **Property:** 11 patented, 149 unpatented claims, consisting of 3 groups: Hermes, principal ore, cinna-bar; Meadow Creek, principal ore, silver; Babbitt Metal, principal ore, antimony; Yellow Pine dist.; Yellow Pine. **Development:** Total development, approximately 10,000 ft. on all groups, consisting principally of No. 1 tunnel, 900 ft. long; No. 2 tunnel, 2700 ft. long, on Cinnabar group, and 1 tunnel 1500 ft. long on Meadow Creek group. **Plant:** A 6 cylindrical tube retort. **Ore:** Mercury, gold, silver, lead, and antimony. **Men employed:** Average, 10. **Remarks:** Active development work throughout the year at the Cinnabar and Medaow Creek groups. A small tonnage of high-grade antimony ore was produced and marketed from the Babbitt Metal group.

**VENABLE GROUP**

**Owner:** J. M. Venable, Boise. **Property:** Venable group; 3 unpatented claims adjoining the Sunnyside mine, Thunder Mountain dist.; Cascade. **Development:** Principally by a crosscut tunnel 840 ft. long, in which is a 150 ft. drift on the vein. **Ore:** Gold. **Remarks:** Annual labor only. The owner reports a good showing of low-grade gold ore.

**WEST MOUNTAIN MINING CO.**

**Office:** 314 Yates Bldg., Boise. **Officers:** John Alden, Pres.; H. A. Alden, Sec., both of Boise. **Inc.:** March 8, 1922. **Capital:** 1,000,000 shares; par value 1c; 678,932 shares issued. **Property:** Silver Bell group; 12 unpatented claims, West Mountain dist.; Cascade. **Development:** By two tunnels: No. 1, 40 ft. long; No. 2, 700 ft. long. **Ore:** Lead-silver-gold-zinc. **Men employed:** Average, 2. **Remarks:** Active development work during most of the year.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Antimony Gr.	Yellow Pine	Albert Hennessy	Cascade
Baker Pl.	Deadwood	Wm. Baker	Cascade
Boyle Gr.	Yellow Pine	Cy Boyle	Yellow Pine
Buckeye et al.	Edwardsburg	Wm. Mitchell	Meyers Cove
Call Gr.	Yellow Pine	Ray Call	Yellow Pine
Copper King	Yellow Pine	Crosby Brewer	Warren
Crater Lake	Yellow Pine	Wm. Lockpitch	Yellow Pine
Dewey	Thunder Mt.	R. A. Davis, Jr.	Nampa
Ellis Gr.	Deadwood	Jas. Ellis	Knox
Gold Fork			
Meadows Gr.	Unknown	W. H. Shane	Emmett
Gold Reef	Deadwood	Edw. Moran	Knox
Gold Ridge et al.	Yellow Pine	H. B. Abstein	Yellow Pine
Golden Gate Gr.	Yellow Pine	Mark Campbell	Yellow Pine
Golden Way Gr.	Big Creek	Geo. W. Laufer	Yellow Pine
Hard Rock Gr.	Deadwood	Clay Kalfus	Knox
Independence	Edwardsburg	J. B. Eldridge	Boise
Jensen Gr.	Edwardsburg	Jensen Bros.	Clover
Keystone Gr.	Deadwood	Mitchell Jeannott	Pioneerville
Lake City Pl.	Lake City	Jacob Storer	McCall
Link	Deadwood	Bedan Davis	Cascade
Lucky Strike	Hurdy Cr.	D. J. Cain	Cascade
Ludwig Gr.	Edwardsburg	Anthony Ludwig	Edwardsburg
Maxwelton	Yellow Pine	Boyle & Holum	Yellow Pine
Monument	Yellow Pine	A. C. Behne	Yellow Pine
.....	Edwardsburg	Mattie Mahan	Clover
Pathfinder Gr.	Profile	Crosby Brewer	Warren
Profile Gap Gr.	Profile	Sam Wilson	Yellow Pine
Ramey Ridge	Edwardsburg	James Hand	Clover
Red Metal	Profile	Charles Ellison	Yellow Pine
Rubarbe Pl.	Yellow Pine	Vernon White	Yellow Pine
Ruby Hill	Lake City	L.L. Alsager	Emmett
Silver Blossom Gr.	Unknown	E. T. Horine	Cascade
Silver Shield	Hurdy Cr.	Charles Hardin	Cabarton
Smith Cr. Gr.	Edwardsburg	John Routsen	Warren
Snow Shoe	Big Creek	Jacob Jensen	Clover
Sparkling			
Spgs. Gr.	Unorganized	O. D. Bradbury	Yellow Pine
Stadium	Yellow Pine	Kennedy & Elliott	Yellow Pine
Sunday et al.	Edwardsburg	Wm. A. Edwards	Yellow Pine
Sunnyside	Thunder Mt.	Dan McRae	McCall
Taylor			
Ramby 1, 2, 3	Deadwood	Harold Taylor	Cascade
Warm Spring	Unorganized	F. H. Heller	Cascade

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## WASHINGTON COUNTY

Washington is one of the southwestern counties, adjoining and lying north of Payette and Gem counties, east of Gem, and east and south of Adams County. The Snake River, which flows north, forms the entire western boundary. The county contains an area of 1479 square miles, and was accredited with a population of 9424 in the 1920 census. It is primarily an agricultural and stockraising community; that part which occupies the Snake River Valley is intensively cultivated, and is the location of the larger part of the population. Weiser is the county seat.

The North and South highway extends from the southern to the northern boundary and is situated about in the geographical center. Branch roads leading to all the settlements are maintained by the county; these are kept in good repair and open to travel the larger part of the year. The county is served by three railroads, the Pacific and Idaho Northern, which extends from Weiser to New Meadows, the main line of the O. S. L. Railroad, and the Huntington-Homestead, Oregon, branch of the same road.

The principal mineral resources are silver, copper, gold, lead, zinc, manganese, diatomaceous earth, pyrites, gypsum, clay, and garnet, practically all of which occur in the three mining districts—Washington, Cuddy Mountain, and Heath—the principal of which is the Washington, or Mineral, district. At one time the Mineral district was a large producer of silver; two blast furnaces were in operation, and the camp of Mineral was a good-sized town; but it has been deserted for many years, the smelters have been dismantled, and the district has almost reverted to its primitive condition. Nearly all the deposits are high-grade silver-copper ores, rather complex, and in some mines partly oxidized, but amenable to modern flotation methods. Many of the deposits in this district are extensive, a large tonnage of ore is available, and there appears to be no reason why the district should not be receiving more attention than it has during the past few years, as there are many properties that are worthy of investigation and development. Large deposits of pyrites and disseminated copper ore also occur in this district.

The ores of the Heath district are principally copper disseminated in monzonite.

Washington County witnessed but little improvement in mining activities during 1926 over the previous year. One organization which is operating in the Cuddy Mountain district performed a small amount of work and a new organization operating at Mineral, worked a few men during part of the year.

**CUDDY MOUNTAIN GOLD MINING CO.**

**Office:** 103 Park Ave., New York City. **Officers:** Dr. J. N. Bishop, New York City, Financial Mgr. **Inc.:** March 27, 1926. **Capital:** 75,000 shares preferred, 225,000 shares common; par value \$1; shares issued, unknown. **Property:** Cuddy Mountain group; 20 unpatented claims, Cuddy Mountain dist.; Council. **Development:** By one tunnel 200 ft. long. **Plant:** MINE: Steam-driven sawmill and complete mining equipment. MILL: "Denver ore crusher" and amalgamation plates. **Ore:** Gold. **Men employed:** Average, 3. **Remarks:** Small amount of development work during the year.

**EDNA MAY MINES CO., INC.**

**Office:** 1019 Grove St., Boise. **Officers:** Chas. Denyes, Pres., Mullan; Walter Black, Sec.-Mgr.; Boise. **Inc.:** Aug. 13, 1926. **Capital:** 1,200,000 shares; par value 25c; 602,625 shares issued. **Property:** 21 unpatented claims, Cuddy Mountain dist.; Council. **Development:** Principally by one tunnel 400 ft. long. **Ore:** Lead-silver-copper. **Men employed:** Average, 3. **Remarks:** During the year, a new road was built, camp and blacksmith shop were constructed, and the principal tunnel retimbered.

**GEM STATE COPPER CO.**

**Office:** Mineral. **Officers:** Thos. J. Higgins, Pres.; A. A. Smith, Sec., both of Baker, Ore. **Inc.:** May 9, 1924. **Capital:** 250,000 shares; par value \$1; 125,000 shares issued. **Property:** 14 unpatented claims; Mineral. **Development:** Total development, approximately 972 ft. **Ore:** Copper-silver-gold. **Men employed:** Average, 4. **Remarks:** Active development work maintained until August, at which time all operations were suspended.

**SILVER STILL MINING CO.**

**Office:** Weiser. **Officers:** John G. Still, Pres., Huntington, Ore.; E. R. Coulter, Sec., Weiser. **Inc.:** Aug. 21, 1924. **Capital:** 10,000 shares; par value, \$1; all shares issued. **Property:** 10 unpatented claims, Mineral dist.; Home, Ore. **Development:** 6 short tunnels, 1 shaft. **Ore:** Silver-copper. **Remarks:** A small amount of work during the year.

**SNAKE RIVER GYPSUM CO.**

**Office:** P. O. Box 1250, Boise. **Officers:** H. G. Myers, Pres.; W. G. Ash, Sec., both of Boise. **Inc.:** May 8, 1924. **Capital:** 250,000 shares; no par value; 125,000 shares issued. **Property:** Columbine; 1 unpatented claim, unorganized dist.; Huntington, Ore. **Development:** Principally by 4 short tunnels. **Mineral sought:** Gypsum. **Remarks:** Annual labor only.

NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Alcorn Gr.	Cuddy Mt.	J I. Burden	Council
Bay Horse et al.	Washington	U. S. Metals Co.	Huntington, Ore.
Black Hawk Gr.	Washington	Ladd Metal Co.	Portland, Ore.
Companion Gr.	Washington	Mary H. Darby	Baker, Ore.
Copper Bell Gr.	Washington	J. R. Weaver	Home, Ore.
Cuddy Mt. Gr.	Cuddy Mt.	W. E. Freehafer	Council
Darius Gr.	Washington	Mrs. J. G. Burnham	Home, Ore.
Eagle Gr.	Washington	John G. Still	Huntington, Ore.
Edna May	Heath	Roy Howland	Homestead, Ore.
Egan Gr.	Washington	Emil Melzer	Baker, Ore.
Enterprise Gr.	Washington	Shane & McCorkle	Home, Ore.
Fremont Gr.	Heath	M. K. Straight	Heath
Galena Gr.	Cuddy Mt.	A. E. Wilkerson	Baker, Ore.
Galena Silver	Heath	I. A. Vaughn	Council
Iron Mt. Gr.	Washington	John Seigwein	Weiser
Jessie Gr.	Washington	John Flynn	Home, Ore.



NAME OF MINE	MINING DIST.	OWNER	P. O. ADDRESS
Magdalene Gr.	Washington	J. R. Weaver	Home, Ore.
Monarch	Heath	Rudolph Brown	Heath
No Business		Howland &	
Canon	Cuddy Mt.	Levander	Fruitvale
Raymond	Heath	Paul Raymond, Sr.	Heath
Reservoir Gr.	Cuddy Mt.	Louis Winkler	Council
S. & R. Gr.	Cuddy Mt.	Summercamp & Riley	Payette

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## DELINQUENT MINING COMPANIES

The Idaho mining law, section 5474, Idaho Compiled Statutes, was enacted with the intent to assist the inspector of mines in properly discharging his official duties. The Blue Sky law, as applicable to mining companies, section 5320, Idaho Compiled Statutes, was enacted on the assumption that if a mining company publicly files the facts relative to its mine and organization, this information should be sufficient to indicate the character and extent of the company and its undertaking.

The forms on which the reports are to be made to the inspector are mailed out in May of each year. These forms are so arranged that the required facts can be given with little effort, and as ignorance of the law is no excuse, there must be other reasons why many reports are not filed\* and why many that are filed are not complete. Possibly there might be some excuse for an inactive company neglecting to comply with the law, but none can be offered for a company that is operating, and most particularly when the stock is being actively marketed or when stock assessments are being levied.

Every effort possible has been put forth during the year to get a report from all mining companies operating in Idaho whose charters are in good standing. This effort has not been entirely successful, and, believing that the list of "Delinquent Mining Companies" as published in the twenty-third, twenty-fourth, twenty-fifth, twenty-sixth and twenty-seventh annual reports has been informative, a similar list for 1926 is included.

Corporations that have **forfeited** their charters and who have failed to file their reports as required by law have been **considered as legally dead**; therefore no mention is made of them.

Companies whose corporate charters are in good standing, but who have *failed to file annual reports* with inspector of mines, as provided in sections 5320 and 5474 of Idaho Compiled Statutes:

COMPANY NAME	OFFICER	P. O. ADDRESS
Alameda Mng. Co.	James A. Wayne	Wallace
Amazon Manhattan Mng. Co.	P. J. Maggy	Wallace
Ambergis Mines Co.	P. J. Maggy	Wallace
Ashton Mng. Co.	J. W. Johnson	Ashton
Atlanta Mines Co.	Jas. A. Dunn	41 E. 42nd St. New York City
Banner M. & M. Co.	F. S. Heer	Boise
Basin Mng. Co.	P. J. Maggy	Wallace
Beauty Bay Mng. Co.	E. V. Boughton	Coeur d'Alene
Big Five Mng. Co.	W. F. Sargent	St. Maries
Big Four Leasing Co.	Jos. F. Whelan	Wallace
Blackstone Mng. & P. Co., Ltd.	E. B. Cloud	Hood River, Ore.
Blue Grouse Mng. Co., Ltd.	D. A. Callahan	Wallace
Blue Silver Mng. Co.	H. J. Koonce	Hailey
Blue Star M. & M. Co., Ltd.	A. C. Morbeck	Kingston
Brown Leasing Co.	T. P. Wormwood	Kellogg
Central Idaho Mng. Co.	Ray Young	Shelley
Chester Cons. Mng. Co.	F. W. Callaway	Kellogg
Clipper Gold M. & M. Co.	Chas. J. Sherry	Fairfield
Coeur d'Alene Empire M. & M. Co.	A. Herman	427 Rookery Bldg. Spokane, Wash.
Coeur d'Alene Jumbo Mng. Co.	Julius P. Hall	Wallace
Craig Mt. M. & M. Co.	Ben R. Schultz	Lewiston
C. & R. Mng. Co.	H. J. Rossi	Wallace

COMPANY NAME	OFFICER	P. O. ADDRESS
Dickens-East Mng. Co.	C. Fred Kratzer	519 Waverly Place, Spokane, Wash.
Eagle Crk. Gold Mng. Co.	Mae Eva Hopkins	Wallace
Edna Mines Co.	F. E. Willson	3754 Second Ave. Sacramento, Calif.
Eileen Mng. Co.	Mark Quackenbush	222 S. Howard St. Spokane, Wash.
Empire Mines Co.	F. S. Heer	Boise
Eureka M. & M. Co., Ltd.	W. R. Prowell	Wenatchee, Wash.
Fairview Mng. Co., Ltd.	Mary Quinlan	Mullan
Falls Crk. Mng. Co.	Wm. Hollenbaek	Sandpoint
Gaiety Mt. Gold Mines Co.	Geo. H. Cochran	279 Forest Ave. Englewood, N. J.
Gold Zone M. & M. Co., Ltd.	W. W. Brown	Grangeville
Golden Age Jr. Mng. Co.	F. B. Le Clear	Lansing, Mich.
Golden Trail Mng. Co.	J. R. Hall	Hansen
Goodenough United M. & M. Co.	Duke Robins	McCall
Gray Wolf Mng. Co.	J. E. Crawford	Coeur d'Alene
Grey Eagle Mng. Co.	E. W. Rising	Nampa
Grey Eagle M. & M. Co.	Walter H. Hanson	Wallace
Heller-Stark M. & D. Co.	Jas. A. Wayne	Wallace
Hennessy-Burns Mng. Co.	Jos. F. Whelan	Wallace
Hermit Mng. Co.	Henry L. Carpenter	407 S. 10th St. Minneapolis, Minn.
High Grade Mng. Co.	L. L. Ruthruff	Kellogg
Homestake Gold Mng. Co.	A. W. Boyd	Elk City
Humbolt Mng. Co.	J. M. Mooney	Wallace
Idaho Cons. Placer Mng. Co.	Ben N. Breeding	721 Conway Bldg. Chicago, Ill.
Idaho Metals Co.	H. D. Campbell	Ogden, Utah.
Idaho M. & D. Co.	Fulton Cook	St. Maries
Idaho Oregon Coal Mng. Co.	A. Affleck	Boise
Idaho Premier Lead Mines	C. A. Gray	415 Empire State Bldg. Spokane, Wash.
Independent Marble & Lime Co.	Astor A. Seaborg	Lewiston
Jack Waite Mng. Co., Ltd.	C. E. Chamberlain	Box 2173, Spokane, Wash.
Keystone Phosphate Co.	F. S. Irwin	Nampa
King of Pine Crk. Mng. Co.	Ed. C. Young	Wallace
King Solomon's Mines Co.	Wm. Hollenbaek	Sandpoint
Lewis & Clark Mng. Co.	J. R. Bean	Wallace
Liberal King Mng. Co.	Geo. A. Leekley	Kellogg
Linfor Copper Co.	Alfred Page	745 Peyton Bldg. Spokane, Wash.
Little Mint Mng. Co.	Jos. F. Whelan	Wallace
McGregor Mng. Co.	L. L. Ruthruff	Kellogg
Meadow Crk. Gold Plac. Co.	F. E. Lukens	Boise
Melon Valley Oil Assoc., Inc.	J. W. Eustis	Buhl
Metals Mng. Co.	S. A. Anderson	Bonnors Ferry
M. & F. Mng. Co.	O. C. Wilson	Bonnors Ferry
Minerva M. & M. Co.	Henry A. Jones	730 Bakewell Bldg. Pittsburgh, Pa.
Missoula Copper Mng. Co.	J. R. Bean	Wallace
Mountain Queen Mng. Co., Ltd.	Walter Keister	Murray
Mt. Sullivan Mng. Co.	Joseph Munn	Pocatello

COMPANY NAME	OFFICER	P. O. ADDRESS
Mutual Mines Dev. Co.	Ben L. Collins	Old Natl. Bank Bldg. Spokane, Wash.
National M. & D. Co., Ltd. Neva Copper Co.	A. C. Gallupe Roberta Ripple	Placerville 400 Hutton Bldg. Spokane, Wash.
New Caledonia Cons. Mng. Co. New Liberty Mng. Co. Northwest Mines Syndicate Northwest Mng. S. & R. Co.	M. J. Luick Richards & Haga W. W. Pefley J. W. Williams	Kellogg Boise Boise 614 Hyde Bldg. Spokane, Wash.
Old Liberty Mng. Co. Olympic Mines Oreano Mng. Co., Ltd. Panhandle Asbestos Co. Panhandle S-L. Mng. Co. Papurel & Graham Mt. M. Co. Patterson Mines Corporation Patuxent Mng. Co. Pioneer Lead Mines, Ltd. Pittsburgh & Idaho M. & M. Co., Ltd. Red Metals Mng. Co. Rockford Mng. Co., Ltd. Rocky Bar Mng. Co.	E. Sweet L. L. Ruthruff P. J. Maggy H. J. Kressly Jas. A. Wayne Jos. F. Whelan W. P. Barton D. A. Callahan Ray Morrison Daniel Laverty C. E. Fulton Walter H. Hanson M. G. Martindale	Sweet Kellogg Wallace Lewiston Wallace Wallace Pocatello Wallace Wallace Pardee McCall Wallace 1001 Paulsen Bldg. Spokane, Wash.
Sanders Metals Corp. Silver Bell M. & M. Co. Silver Crk. Cons. M. & M. Co. Silver Crk. Mng. Co. Southern Idaho Dev. Co. Stanley-Five Bars Mng. Co. Tammany Oil Co. Tigee Mng. Co., Ltd. Treasure Vault Mng. Co., Ltd. Troy Mica Co. United States S.-L. Mines Co.	Richards & Haga C. T. Barringer J. L. Stone A. C. Morbeck J. G. Butler J. H. Richards V. F. Lorang R. E. Knapp P. J. Maggy A. N. Conger Jas. McCarthy	Boise Boise Beeler Kingston Pocatello Boise Lewiston Ketchum Wallace Lewiston Paulsen Bldg., Spokane, Wash.
Unity Gold Mines Co.	Lorren M. Hart	120 Broadway, New York City
Verde-May Mng. Co., Ltd. Virginia Mng. Co. Washington Mica Co. West Gem Mng. Co.	Walter H. Hanson Jas. F. Morton Arthur H. Bentz J. Fred Markwell	Wallace Wallace Avon 3983 E. Ocean Blvd. Long Beach, Calif. 1007 Boston Bldg. Salt Lake City, Utah.
Wolverine Placer Mines Co.	W. S. Wikoff	Wallace
Yankee-Polaris L. & D. Co.	E. C. Allen	Wallace

Companies whose corporate charters are in good standing, but who have failed to file annual reports with the inspector of mines, as provided in sections 5320 and 5474 of Idaho Compiled Statutes, *and who levied one or more stock assessments during 1926:*

COMPANY NAME	OFFICER	P. O. ADDRESS
Coeur d'Alene Mng. & S. Co.	Jos. F. Whelan	Wallace

COMPANY NAME	OFFICER	P. O. ADDRESS
Cynide Gold Mng. Co., Ltd.	Peter Proff	Rosalia, Wash.
Hill M. & M. Co.	L. L. Ruthruff	Kellogg
Ray Jefferson Mng. Co.	P. J. Maggy	Wallace
Sabina Mines Co.	Jas. A. Wayne	Wallace
Sherman Lead Co.	P. J. Maggy	Wallace
Sonora M. & M. Co.	W. A. Smith	Wallace
Sunrise Mng. Co., Ltd.	Chalmers E. Smith	Wallace
Torino Mng. Co.	Jos. F. Whelan	Wallace
Wolf Lodge Mng. Co.	Ezra P. Whitla	Coeur d'Alene

Companies whose *forms of organization are unknown*, who have never complied with sections 5320 and 5474 of Idaho Compiled Statutes, and *who have been levying stock assessments during 1926*:

COMPANY NAME	OFFICER	P. O. ADDRESS
Eagle Mountain Mng. Co.	W. H. Herrick	Wallace

Companies whose corporate *charters were forfeited* on November 30, 1926, or prior thereto, who have failed to file annual reports for 1926 with inspector of mines as provided in sections 5320 and 5474 of Idaho Compiled Statutes, and *who have levied one or more stock assessments during 1926*:

COMPANY NAME	OFFICER	P. O. ADDRESS
Leadore Mines Co.	L. H. Wheeler	Harrison
Pullman M. & M. Co.	A. B. Baker	Pullman, Wash.

Companies whose names were gleaned from the press, whose forms of organization are unknown, and who have failed to file annual reports with the inspector of mines as provided in sections 5320 and 5474 of Idaho Compiled Statutes:

COMPANY NAME	OFFICER	P. O. ADDRESS
Blue Ridge Mng. Co.	Chris Myer	Lewiston
Bonanza Mng. Co.	James Boland	Murray
Bonner Mng. Co.	J. A. Henderson	Oakesdale, Wash.
Boston Copper Co.	F. P. Fitz	Pierce
Central Idaho Gold Placer Mng. Co.	J. L. Fraser	Upton Hotel, Spokane, Wash.
Frances B. Mng. Co.	C. Anderson	25 & Maple Sts. Spokane, Wash.
frbis Placer Ass'n.	T. M. Raymonds	Grangeville
Jupiter Mng. Co.	R. Magdalla	Wallace
Patrick Placer Mines	T. P. Harsh	East Spokane, Wash.
Valley View Mng. Co.		Salt Lake City, Utah

## MISCELLANEOUS MINERALS

COMPANY OR MINE	OWNER OR OFFICER	POST OFFICE	COUNTY
<b>ANTIMONY</b>			
Buzzwhizzer.....	I. A. Brim.....	Arco.....	Butte
Coeur d'Alene Antimony Min. Co., Ltd.....	C. M. Powell, Sec.....	Kellogg.....	Shoshone
United Mercury Mines Co.....	J. J. Oberbillig, Pres.....	Boise.....	Valley
	Albert Hennessy.....	Yellow Pine.....	Valley
Cosmopolitan Mining Co.....	Oscar Brunzell, Sec.....	Murphy.....	Owyhee
<b>ASBESTOS</b>			
Panhandle Asbestos Co.....	H. J. Kressly, Sec.....	Lewiston.....	Idaho
<b>BARYTES</b>			
Barium Group.....	J. G. Hedrick.....	Hailey.....	Blaine
Barytes Rare Minerals Mfg. Co.....	J. L. Day, Pres.....	Box 727, Tacoma, Wash.....	Blaine
Bonnie Group.....	Bunker Hill & Sullivan M. & C. Co.....	Kellogg.....	Blaine
<b>BAUXITE</b>			
Mink Creek.....	S. Allsworth.....	557 S. 4th St., Pocatello.....	Bannock
<b>COBALT</b>			
Beliel Group.....	Haynes-Stellite Co.....	Kokomo, Ind.....	Lemhi
<b>DIATOMACEOUS EARTH</b>			
	H. W. Knox.....	Glenns Ferry.....	Elmore
	Austin Lightfoot.....	Fairfield.....	Camas
<b>LIMESTONE</b>			
Amalgamated Sugar Co.....	Fera S. Young.....	Salt Lake City, Utah.....	Butte
International Portland Cement Co.....	J. B. Maxfield.....	Spokane, Wash.....	Bonner
Utah-Idaho Sugar Co.....	D. B. Pratt.....	Salt Lake City, Utah.....	Butte
Washington Brick, Lime & Sewer Pipe Co.....		Spokane, Wash.....	Bonner
	Boyd L. Reynolds.....	Victor.....	Teton
<b>MANGANESE</b>			
Cleveland Mining Corporation.....	C. C. Ames.....	Cleveland.....	Bannock
Hub Group.....	S. O. Nelson.....	1211 E. Bannock St., Boise.....	Butte
Idaho Manganese Mining Co.....	Geo. L. Smith.....	Cleveland.....	Bannock
Lava Manganese Co.....	B. C. Madill.....	Lava Hot Springs.....	Bannock

MISCELLANEOUS MINERALS

COMPANY OR MINE	OWNER OR OFFICER	POST OFFICE	COUNTY
<b>MARBLE</b>			
	Fairchild & Bedke.....	Basin .....	Cassia
	Ben L. Schultz.....	Lewiston .....	Nez Perce
	John Lambert.....	Lewiston .....	Nez Perce
	George T. McMahon.....	Pullman, Wash. ....	Nez Perce
<b>MICA</b>			
Avon .....	J. H. Nesbit.....	Avon .....	Latah
Maybe.....	Alexander Munro.....	Moscow .....	Latah
Mica Queen Group.....	A. H. Bentz.....	Avon .....	Latah
Muscovite Mica Mine.....	M. L. Gifford.....	Council .....	Adams
Rinehart Group.....	Gillman Rinehart.....	Council .....	Adams
<b>MOLYBDENUM</b>			
	W. G. Cadby.....	Warren .....	Idaho
	W. R. Deckard.....	Pine .....	Elmore
	A. J. Kent.....	Bonnors Ferry .....	Boundary
	R. McClure and N. Mathews.....	Boise .....	Custer
	A. R. Mulkey.....	Leadore .....	Lemhi
International Molybdenum Co.....	W. H. Rideout, Pres.....	Porthill .....	Boundary
	Mack Rheinboldt.....	Pine .....	Elmore
	C. W. Robinette.....	Box 1104, Boise .....	Owyhee
<b>OIL AND GAS</b>			
Arbon Valley Oil Co.....	H. O. McDougall, Sec.....	Pocatello .....	Power
Gem State Petroleum Co.....	S. G. Baker, Sec.....	Pocatello .....	Power
Goose Creek Oil & Dev. Co.....	Edw. Martin, Treas.....	424 4th Ave., Pittsburgh, Pa.....	Cassia
Great Western Oil Co.....	Harvey W. Dice.....	Pocatello .....	Caribou
Idaho Petroleum Co.....	A. S. Hincks, Sec.....	Payette .....	Payette
Idaho Research & Dev. Co. Inc.....	George Stoll, Sec.....	Pocatello .....	Power
Rockland Valley Oil Co.....	E. N. Norris, Sec.....	Rockland .....	Power

## MISCELLANEOUS MINERALS

COMPANY OR MINE	OWNER OR OFFICER	POST OFFICE	COUNTY
<b>PHOSPHATE</b>			
Anaconda Copper Mining Co.....	C. E. Nighman, Mgr.....	Conda .....	Caribou
Bear Lake Phosphate Co.....	D. E. Haddock.....	Paris .....	Bear Lake
Idaho Phosphate Co.....	Ray C. McIlwee.....	Paris .....	Bear Lake
	Matt Miller, Trustee.....	Cavanaugh .....	Bear Lake
San Francisco Chemical Co.....	Joseph J. Taylor, Supt.....	Montpelier .....	Bear Lake
Utah Fertilizer & Chemical Mfg. Co.....	Robert J. Shields, Mgr.....	Los Angeles, Calif.....	Bear Lake
<b>QUICKSILVER</b>			
Fern Quicksilver Mng. Co.....	P. M. Davis, Pres.....	Boise .....	Valley
United Mercury Mines Co.....	J. J. Oberbillig, Pres.....	Boise .....	Valley
<b>RUTILE</b>			
	Edward Thenon.....	Kooskia.....	Idaho
<b>SALT</b>			
	Jesse Draney.....	Auburn, Wyo. ....	Caribou
	John McGrew & Co.....	Auburn, Wyo. ....	Caribou
	John W. Booth.....	Fairview, Wyo. ....	Caribou
<b>SANDSTONE</b>			
Boise Stone Co.....	Thomas McMillan.....	Boise .....	Ada
Idaho State Penitentiary.....	Warden.....	Boise .....	Ada
<b>TUNGSTEN</b>			
Golden Chest.....	E. M. Smith.....	Murray .....	Shoshone
Hub Group.....	S. O. Nelson.....	1211 E. Bannock St. Boise.....	Butte
Ima Consolidated M. & M. Co.....	Oscar W. Moyle.....	Salt Lake City .....	Lemhi
Kennan.....	Chester T. Kennan.....	Murray .....	Shoshone
Mother Lode.....	John F. Murphy.....	Murray .....	Shoshone
Unity Gold Mines Co.....	Lorren M. Hart, V-P.....	30 Church St., New York .....	Idaho



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## 1926 METAL PRODUCTION

The total value of the gold, silver, lead, zinc and copper produced and marketed in Idaho in 1926 was \$32,969,864.02, a decrease of \$2,066.15 in value under the production of 1925, which was \$32,971,930.17. The slight decrease in total value does not reflect the true situation, as there was a large increase in the amount of lead produced, but its total value was less, because lead sold at a lower price than during 1925. There was a decided decrease in the output of gold, silver and copper, which, coupled with a reduction in the price of silver and copper, resulted in a total value which was less for these metals than that of 1925. The reduction was offset by a substantial increase in the amount of zinc produced, so the total for the year 1926 was approximately that of 1925.

The counties which witnessed an increase in production were: Shoshone, Lemhi, and Custer. The gain in lead production in Custer and Lemhi counties was particularly significant, as it exceeded the year 1925 by approximately 100 per cent for both counties, and the year 1924 by approximately 200 per cent for Custer County.

Shoshone County maintained its position as the principal mining county in the State. In addition to an increase over 1925, it increased its percentage of total State production, which in 1925 was \$30,506,220.71, or 92.52 per cent of the total State production, and in 1926 was \$31,008,975.64, or 94.5 per cent of the total State production. This county now holds first place for all the five metals, as the curtailed copper production in Custer County during the year lost that county its former rank of the largest copper producing county.

The respective rank of the principal mining counties in point of total production is: Shoshone, Lemhi, Custer, Boundary, Bonner, Blaine, Boise, Elmore, Butte, Idaho, and Owyhee.

### Gold

The 1926 output of gold was 14,754.64 ounces, valued at \$304,978.39, a decrease of 5,353.77 ounces and \$110,662.43 as compared with that of 1925, which was 20,108.41 ounces valued at \$415,640.82. This marked decrease was due to the closing of the Yukon Gold Company's dredge in Shoshone County, and to the idleness of the South Park Dredging Company's dredge in Elmore County and of the Idaho Metals Company in Custer County during half the year.

This decrease brings the total gold production down to the lowest point it has ever reached in the history of the State, and is significant in emphasizing the lethargy in gold mining. The decline is not due to exhaustion of the gold resources, as there are many excellent opportunities to be found in the State for profitable gold mining operations, both quartz and dredging.

The principal producers of gold were: The Yukon Gold Co., Shoshone County; the South Park Dredging Co., Elmore County; the Gold Dredging & Power Corporation, the Boise Placer Co., and the Gold Hill mine, all of Boise County.

### Silver

The output of silver decreased from 7,708,938.55 ounces valued at \$5,324,178.41, in 1925, to 7,522,881.88 ounces valued at \$4,672,236.26, in 1926, a loss of 186,056.67 ounces and \$651,942.15. The great loss in value is attributed to the low price of silver during the year, its average price in 1926 being \$0.62107 per ounce, as against \$0.69065 per ounce in 1925.

There was a large increase in silver production in Shoshone County, but it was not sufficient to overcome the decrease occasioned by the closing of the mines of the Talache Mines, Inc. in Bonner County, and the Ramshorn Mines Co. in Custer County. Shoshone and Lemhi counties were the only ones to record an increase in production over that of 1925.

## MINING INDUSTRY OF IDAHO

The 1926 silver production of Shoshone County was 6,930,126.97 ounces valued at \$4,304,093.96, as compared with 6,691,658.25 ounces valued at \$4,621,593.77 for 1925. This record production, approximately 92.12 per cent of the total for the State, indicates the importance of the Coeur d'Alene district and Shoshone County, particularly as Idaho produces over one-fifth of the silver output of the United States.

The order of prominence of the principal silver-producing counties is: Shoshone, Lemhi, Custer, Bonner, Boundary, and Blaine. The largest producers in the Coeur d'Alene district were: The Bunker Hill & Sullivan M. & C. Co.; the Federal M. & S. Co.; the Hecla Mining Co.; the Sunshine Mining Co.; Gold Hunter Mines, Inc.; Tamarack & Custer Cons. Mining Co.; Sullivan Mining Co.; Constitution Mining & Milling Co.; Stratton Mines Co.; Callahan Zinc-Lead Co.; Hayes Co.; Sidney Leasing Co.; and Highland-Surprise Cons. Mining Co. In other counties of the State the most important producers were: The United Idaho Mining Co., Lemhi County; Talache Mines, Inc., Bonner County; Livingston Mines Corporation, Custer County; Idaho Continental Mining Co., Boundary County; the Independence mine owned by the Federal M. & S. Co., Blaine County; Whitedelf Mining & Development Co., Bonner County; and the Star mine in Blaine County.

**Lead**

The production of lead increased from 265,302,880 pounds in 1925 to 283,305,553 pounds in 1926. The value, however, decreased from \$23,930,319.78 in 1925 to \$23,845,828.39 in 1926. This was an increase of 18,002,673 in pounds and a decrease of \$186,056.60 in value. The decrease in value was due to the lower price paid for lead during 1926: the price averaged 9.02 cents a pound in 1925 and 8.417 cents a pound in 1926.

Shoshone County furnished 94.39 per cent of the total, with a production of 267,411,583 pounds. The large increase in lead production by the mines in Lemhi and Custer counties reduced Shoshone County's total percentage from 95.52 in 1925 to 94.39 in 1926. The importance of Idaho as a lead-producing state, and of Shoshone County in particular, is shown by the fact that the entire State production is approximately one-fourth that of the United States.

The Bunker Hill & Sullivan, which continues to be the largest mine in the State and one of the largest in the world, was first in the production of lead: the Morning mine of the Federal M. & S. Co. was second; and the Hecla Mining Co. was third. These were followed by the Tamarack & Custer Cons. Mining Co., Sullivan Mining Co., Gold Hunter Mines, Inc., Constitution Mining & Milling Co., Sidney Leasing Co., Hypotheek Mining & Milling Co., Highland-Surprise Cons. Mining Co., Stratton Mines Co., and Hayes Co., in Shoshone County. Other important lead producers in the State are: The Pittsburgh-Idaho mine, owned by the United Idaho Mining Co., and the Gilmore Merc. Co. in Lemhi County; the Livingston Mines Corporation in Custer County; the Idaho Continental mine in Boundary County; the Whitedelf Mining & Development Co. in Bonner County; the Wilbert Mining Co., Ltd., in Butte County; and the Independence mine of the Federal M. & S. Co. in Blaine County.

**Zinc**

The 1926 production of recoverable zinc exceeded that of 1925 by 16,811,473 pounds and \$1,127,692.44 in value. The 1926 output was 53,922,120 pounds valued at \$3,956,265.95, as compared with 37,110,647 pounds valued at \$2,828,573.51 in 1925.

The high price-level maintained by zinc throughout the year was the principal factor in stimulating production, and the improvements in milling practice, particularly in flotation and classification, were responsible for an increase in recoveries and grade of concentrate produced. In 1926 the price

averaged 7.337 cents a pound, as compared with a price of 7.622 cents a pound in 1925.

A large part of the zinc ore produced was shipped to the Vieille-Montagne Zinc Co., Chenee, Belgium, and the remainder to the Anaconda Copper Mining Co., Anaconda, Montana. At the former the metal is recovered by smelting, and at the latter by leaching.

Shoshone and Custer were the only counties that produced a marketable zinc product. The principal producing mines in Shoshone County were: The Morning mine of the Federal M. & S. Co., the Star mine of the Sullivan Mining Co., the Constitution, Highland-Surprise, Tamarack & Custer, Success, Sidney and Douglas.

#### Copper

The output of copper in 1926 was 1,381,334 pounds, valued at \$190,555.03, a decrease of 1,988,682 pounds and \$282,622.62 from that of 1925, which was 3,370,016 pounds valued at \$473,217.65. The price of copper averaged 13.795 cents a pound in 1926, and 14.042 cents a pound in 1925.

The idleness of the Idaho Metals Co. in Custer County during a large part of the year, and of the Harmony Mines Co. in Lemhi County during the entire year, was the principal factor responsible for the low output. This idleness and the resumption of operations, by lessees, at the old Snow Storm mine in Shoshone County displaced Custer County as the principal copper producer in the State, and gave first rank to Shoshone County.

Except the small tonnage produced by the Idaho Metals Co., of Custer County, the Talache Mines Inc., of Bonner County, and the Snow Storm lessees, of Shoshone County, practically all the copper produced was associated with lead-silver ores and recovered by the smelters as a by-product.

#### STATISTICS

The tabulation presented below represents the ore produced and marketed during the year and constitutes the production as reported to the inspector's office. No estimates have been used in compiling the statistics, and if an error exists it is due to unreported production. As such an error would diminish the totals, the figures represent a minimum that borders very closely upon the actual amount. The compilation is based upon the gross metal content of all ores or bullion produced and marketed during the year, the values being figured from the average New York and St. Louis quotations.

#### 1926 METAL PRODUCTION BY COUNTIES

Number of Producers			Value
<b>ADA COUNTY</b>			
4	Gold .....	10.22 oz.	\$ 211.25
	Silver .....	9.09 oz.	\$ 5.65
			\$ 216.90
<b>ADAMS COUNTY</b>			
2	Gold .....	2.30 oz.	\$ 47.54
	Silver .....	0.52 oz.	0.32
			\$ 47.86
<b>BLAINE COUNTY</b>			
30	Gold .....	44.89 oz.	\$ 927.88
	Silver .....	62,880.48 oz.	39,053.18
	Lead .....	586,698.00 lbs.	49,382.37
	Copper .....	7,019.00 lbs.	968.27
			\$ 90,331.70

## MINING INDUSTRY OF IDAHO

Number of  
Producers

		Value	
<b>BOISE COUNTY</b>			
18	Gold .....	3,702.44 oz.	\$ 76,529.43
	Silver .....	8,645.53 oz.	5,369.48
	Lead .....	86,371.00 lbs.	7,269.85
	Copper .....	4,059.00 lbs.	559.94
			\$ 89,728.70
<b>BONNER COUNTY</b>			
8	Gold .....	150.91 oz.	\$ 3,119.31
	Silver .....	135,131.36 oz.	83,926.03
	Lead .....	1,018,375.00 lbs.	85,716.62
	Copper .....	37,302.00 lbs.	5,145.81
			\$ 177,907.77
<b>BONNEVILLE COUNTY</b>			
2	Gold .....	11.32 oz.	\$ 233.98
	Silver .....	0.32 oz.	0.20
			\$ 234.18
<b>BOUNDARY COUNTY</b>			
2	Silver .....	58,676.00 oz.	\$ 36,441.90
	Lead .....	3,361,984.00 lbs.	282,978.19
	Copper .....	2,518.00 lbs.	347.36
			\$ 319,767.45
<b>BUTTE COUNTY</b>			
8	Gold .....	2.06 oz.	\$ 42.58
	Silver .....	7,944.98 oz.	4,934.39
	Lead .....	616,926.00 lbs.	51,926.66
	Copper .....	2,026.00 lbs.	279.49
			\$ 57,183.12
<b>CASSIA COUNTY</b>			
3	Gold .....	26.70 oz.	\$ 551.89
	Silver .....	393.00 oz.	244.08
	Lead .....	30,826.00 lbs.	2,594.62
	Copper .....	977.00 lbs.	134.78
			\$ 3,525.37
<b>CLARK COUNTY</b>			
2	Gold .....	0.10 oz.	\$ 2.07
	Silver .....	196.00 oz.	121.73
	Lead .....	43,740.00 lbs.	3,681.60
			\$ 3,805.40
<b>CLEARWATER COUNTY</b>			
4	Gold .....	40.41 oz.	\$ 835.27
	Silver .....	7.03 oz.	4.37
			\$ 839.64



Number of  
Producers

		CUSTER COUNTY		Value
14	Gold	367.26	oz.	\$ 7,591.26
	Silver	144,819.37	oz.	89,942.97
	Lead	3,975,228.00	lbs.	334,594.94
	Zinc	10,741.00	lbs.	788.07
	Copper	258,031.00	lbs.	35,595.38
				<hr/>
				\$ 468,512.72
		ELMORE COUNTY		
8	Gold	3,532.00	oz.	\$ 73,006.44
	Silver	1,174.96	oz.	729.73
				<hr/>
				\$ 73,736.17
		IDAHO COUNTY		
18	Gold	735.26	oz.	\$ 15,197.82
	Silver	239.28	oz.	148.61
				<hr/>
				\$ 15,346.43
		LATAH COUNTY		
2	Gold	13.59	oz.	\$ 280.90
	Silver	0.77	oz.	.48
				<hr/>
				\$ 281.38
		LEMHI COUNTY		
17	Gold	593.88	oz.	\$ 12,275.50
	Silver	157,987.82	oz.	98,121.50
	Lead	6,169,886.00	lbs.	519,319.30
	Copper	77,515.00	lbs.	10,693.19
				<hr/>
				\$ 640,409.49
		OWYHEE COUNTY		
12	Gold	190.54	oz.	\$ 3,938.46
	Silver	13,734.91	oz.	8,530.34
	Lead	3,215.00	lbs.	270.61
	Copper	428.00	lbs.	59.04
				<hr/>
				\$ 12,798.45
		SHOSHONE COUNTY		
59	Gold	5,060.43	oz.	\$ 104,599.09
	Silver	6,930,126.97	oz.	4,304,093.96
	Lead	267,411,583.00	lbs.	22,508,032.94
	Zinc	53,911,379.00	lbs.	3,955,477.88
	Copper	991,459.00	lbs.	136,771.77
				<hr/>
				\$ 31,008,975.64
		VALLEY COUNTY		
5	Gold	211.90	oz.	\$ 4,379.97
	Silver	391.13	oz.	553.45
				<hr/>
				\$ 4,933.42
		WASHINGTON COUNTY		
3	Gold	19.60	oz.	\$ 405.13
	Silver	3.61	oz.	2.24
				<hr/>
				\$ 407.37

## MINING INDUSTRY OF IDAHO

Number of Producers			Value
<b>MISCELLANEOUS COUNTIES</b>			
6	Gold .....	38.83 oz. ....	\$ 802.62
	Silver .....	18.75 oz. ....	11.65
	Lead .....	721.00 lbs. ....	60.69
			\$ 874.96
<b>STATE TOTALS</b>			
227	Gold .....	14,754.64 oz. ....	\$ 304,978.39
	Silver .....	7,522,881.88 oz. ....	4,672,236.26
	Lead .....	283,305,553.00 lbs. ....	23,845,828.39
	Zinc .....	53,922,120.00 lbs. ....	3,956,265.95
	Copper .....	1,381,334.00 lbs. ....	190,555.03
			\$ 32,969,864.02
<b>MISCELLANEOUS</b>			
	Building stone and coal .....		\$ 43,000.00
	Limestone .....	65,500.00 tons .....	163,750.00
	Phosphate rock .....	43,220.00 tons .....	194,490.00
	Antimony .....	80,562.00 lbs. ....	2,556.80
	Manganese .....	915,960.00 lbs. ....	27,478.80
	Mercury .....	5.00 flasks .....	459.50
			\$ 431,735.10
			<b>GRAND TOTAL..... \$ 33,401,599.12</b>

## ANNUAL METAL OUTPUT FOR IDAHO SINCE 1903

(Statistics for 1903 to 1920, inclusive, from U. S. Geol. Survey Mineral Resources. Statistics for 1921, 1922, 1923, 1924 and 1925 from Twenty-third, Twenty-fourth, Twenty-fifth, Twenty-sixth and Twenty-seventh Annual Reports.)

<b>1903</b>			
Gold .....	65,850 oz.	\$	1,361,119
Silver .....	7,398,970 oz.		3,951,790
Lead .....	213,143,618 lbs.		9,135,335
Copper .....	569,484 lbs.		78,589
Total value .....			\$ 14,526,833
<b>1904</b>			
Gold .....	82,739 oz.	\$	1,710,365
Silver .....	7,666,382 oz.		4,389,004
Lead .....	233,096,375 lbs.		10,197,966
Zinc .....	2,600 lbs.		130
Copper .....	5,087,518 lbs.		635,940
Total value .....			\$ 16,933,405
<b>1905</b>			
Gold .....	52,033 oz.	\$	1,075,618
Silver .....	8,679,093 oz.		5,242,172
Lead .....	259,812,428 lbs.		12,211,184
Zinc .....	1,228,449 lbs.		72,479
Copper .....	7,321,585 lbs.		1,142,167
Total value .....			\$ 19,743,620
<b>1906</b>			
Gold .....	55,588 oz.	\$	1,149,100
Silver .....	9,018,815 oz.		6,042,606
Lead .....	255,014,446 lbs.		14,535,823
Zinc .....	2,065,597 lbs.		126,001
Copper .....	9,558,913 lbs.		1,844,870
Total value .....			\$ 23,698,400
<b>1907</b>			
Gold .....	60,755 oz.	\$	1,255,911
Silver .....	8,415,431 oz.		5,554,185
Lead .....	233,823,854 lbs.		12,392,664
Zinc .....	6,985,732 lbs.		412,158
Copper .....	10,890,731 lbs.		2,178,146
Total value .....			\$ 21,793,064
<b>1908</b>			
Gold .....	69,827 oz.	\$	1,443,459
Silver .....	7,469,981 oz.		3,959,090
Lead .....	206,827,816 lbs.		8,686,768
Zinc .....	37,410 lbs.		1,758
Copper .....	10,041,850 lbs.		1,325,524
Total value .....			\$ 15,416,599

## MINING INDUSTRY OF IDAHO

## 1909

Gold .....	70,329 oz.	\$	1,453,822
Silver .....	7,041,633 oz.		3,661,649
Lead .....	215,986,285 lbs.		9,287,410
Zinc .....	1,351,010 lbs.		72,954
Copper .....	9,115,489 lbs.		1,185,014
Total value .....			\$ 15,660,849

## 1910

Gold .....	53,060 oz.	\$	1,096,842
Silver .....	7,369,742 oz.		3,979,661
Lead .....	228,258,839 lbs.		10,043,389
Zinc .....	5,603,114 lbs.		302,568
Copper .....	7,037,292 lbs.		893,736
Total value .....			\$ 16,316,196

## 1911

Gold .....	66,389 oz.	\$	1,372,387
Silver .....	8,196,136 oz.		4,343,952
Lead .....	272,556,525 lbs.		12,265,044
Zinc .....	8,340,249 lbs.		475,394
Copper .....	5,152,937 lbs.		644,117
Total value .....			\$ 19,100,894

## 1912

Gold .....	66,816 oz.	\$	1,381,214
Silver .....	8,294,745 oz.		5,101,268
Lead .....	284,185,657 lbs.		12,788,355
Zinc .....	13,905,502 lbs.		959,479
Copper .....	7,492,152 lbs.		1,236,205
Total value .....			\$ 21,466,521

## 1913

Gold .....	65,043 oz.	\$	1,344,559
Silver .....	9,989,193 oz.		6,033,473
Lead .....	317,871,945 lbs.		13,936,366
Zinc .....	23,173,953 lbs.		1,297,741
Copper .....	9,592,966 lbs.		1,486,910
Total value .....			\$ 24,149,049

## 1914

Gold .....	55,743 oz.	\$	1,152,315
Silver .....	12,479,516 oz.		6,901,172
Lead .....	348,526,069 lbs.		13,592,517
Zinc .....	42,012,435 lbs.		2,142,634
Copper .....	6,445,187 lbs.		857,210
Total value .....			\$ 24,645,848

## 1915

Gold .....	57,069 oz.	.....	\$	1,179,731
Silver .....	11,769,128 oz.	.....		5,966,948
Lead .....	345,999,466 lbs.	.....		16,261,975
Zinc .....	70,153,234 lbs.	.....		8,699,001
Copper .....	6,978,713 lbs.	.....		1,221,275

---

Total value ..... \$ 33,328,930

## 1916

Gold .....	53,977 oz.	.....	\$	1,115,810
Silver .....	12,300,873 oz.	.....		8,093,974
Lead .....	375,081,781 lbs.	.....		25,880,643
Zinc .....	86,505,219 lbs.	.....		11,591,699
Copper .....	8,478,281 lbs.	.....		2,085,657

---

Total value ..... \$ 48,767,783

## 1917

Gold .....	38,933 oz.	.....	\$	804,809
Silver .....	12,029,338 oz.	.....		9,912,175
Lead .....	393,559,521 lbs.	.....		33,846,119
Zinc .....	79,854,136 lbs.	.....		8,145,122
Copper .....	7,827,574 lbs.	.....		2,136,928

---

Total value ..... \$ 54,845,153

## 1918

Gold .....	33,999 oz.	.....	\$	702,816
Silver .....	9,172,340 oz.	.....		9,172,340
Lead .....	294,695,993 lbs.	.....		20,923,416
Zinc .....	45,161,712 lbs.	.....		4,109,716
Copper .....	6,533,888 lbs.	.....		1,613,870

---

Total value ..... \$ 36,522,158

## 1919

Gold .....	34,503 oz.	.....	\$	713,238
Silver .....	5,579,056 oz.	.....		6,248,543
Lead .....	182,341,898 lbs.	.....		9,664,121
Zinc .....	15,994,229 lbs.	.....		1,167,579
Copper .....	3,122,763 lbs.	.....		580,834

---

Total value ..... \$ 18,374,315

## 1920

Gold .....	23,490 oz.	.....	\$	485,590
Silver .....	7,326,794 oz.	.....		7,986,205
Lead .....	249,609,976 lbs.	.....		19,968,798
Zinc .....	27,932,326 lbs.	.....		2,262,518
Copper .....	2,538,396 lbs.	.....		467,065

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Total value ..... \$ 31,170,176

## MINING INDUSTRY OF IDAHO

## 1921

Gold .....	26,750.76 oz.	.....	\$	552,938
Silver .....	6,184,989.73 oz.	.....		6,184,989
Lead .....	210,100,194.00 lbs.	.....		9,559,558
Copper .....	1,380,168.00 lbs.	.....		172,521
Zinc .....	1,818,313.00 lbs.	.....		94,006

---

Total value ..... \$ 16,564,014

## 1922

Gold .....	22,178.39 oz.	.....	\$	458,427.32
Silver .....	6,149,336.15 oz.	.....		6,149,336.15
Lead .....	205,132,588.00 lbs.	.....		11,762,302.60
Zinc .....	5,596,514.00 lbs.	.....		394,666.17
Copper .....	3,225,762.00 lbs.	.....		431,671.47

---

Total value ..... \$ 19,196,403.71

## 1923

Gold .....	35,506.23 oz.	.....	\$	733,913.78
Silver .....	7,669,393.43 oz.	.....		6,158,099.48
Lead .....	255,266,476.00 lbs.	.....		18,550,214.82
Zinc .....	34,690,620.00 lbs.	.....		2,292,009.26
Copper .....	4,183,495.00 lbs.	.....		603,303.12

---

Total value ..... \$ 28,337,540.46

## 1924

Gold .....	26,237.21 oz.	.....	\$	542,323.12
Silver .....	7,774,747.00 oz.	.....		5,192,053.79
Lead .....	260,356,490.00 lbs.	.....		21,081,065.00
Zinc .....	21,310,559.00 lbs.	.....		1,351,941.86
Copper .....	3,146,997.00 lbs.	.....		409,864.89

---

Total value ..... \$ 28,577,248.66

## 1925

Gold .....	20,108.41 oz.	.....	\$	415,640.82
Silver .....	7,708,938.55 oz.	.....		5,324,178.41
Lead .....	265,302,880.00 lbs.	.....		23,930,319.78
Zinc .....	37,110,647.00 lbs.	.....		2,828,573.51
Copper .....	3,370,016.00 lbs.	.....		473,217.65

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Total value ..... \$ 32,971,930.17

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